



Catalogue 2016

Catalogue – Price List 2016

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Paving the way towards the future

For over thirty years we have aimed to transfer our values to our clients by designing and realising high quality and trustworthy products for both the residential and the industrial sector.

Our hard work has yielded us a leadership role in Italy and abroad. Especially, in designing and producing thermo-technical systems such as heating and conditioning systems, domestic hot water systems and heat exchangers.

All our products are handcraft with attention to the client's requirements, quality and detail. Moreover, every product is tested in order to guarantee long-term reliability.

To ensure a steadfast improvement of our products we constantly invest in innovation. As a result, our products are high-performance, efficient, energy saving and practical.

We aim to find the best solution for every specific requirement by investing in research on technologically innovative and personalized solutions. We also provide our clients with non-stop advice on our products and special projects for multinationals, from the design phase to technical support.

Experience and competence are two core points of Fiorini and the other companies that are part of the Fiorini Industries group. As such, we design and realize solutions based on the use and integration of various energy sources. In this way, we are capable of answering the customer's demand, which is becoming more diverse and complex.



Our certificates

An added value for our clients and partners

To the Fiorini group, certificates are a proof of responsibility towards the clients, the partners, the community and the territory. It springs from the awareness that our activity cannot come before the guidelines and the expectations of the stakeholders.

Whoever chooses for Fiorini products, chooses a company which:

ensures clarity and transparency towards the client by explicitly communicating every production and sales detail. This facilitates the operational management of the products (ex. estimates and order confirmations are sent with a detailed description of the product, the delivery date, the transport measure, technical drawings with indications of the different uses, dimension schemes and other possible details);

testes every single product. Every product is provided with a Certificate of Conformity and Testing and our qualitative management system guarantees the correct execution of every process in accordance with the defined standards;

constantly invests in research on innovative solutions and on the improvement of the products' performance, focussing on both quality and cost reduction;

realises qualitative products which also positively influence our clients' projects;

operates with a respect for people, the environment and the territory;

invests in training on subjects such as health, occupational safety and environmental sustainability. Our staff is kept up to date on the binding rules and on how to share best practices;

assures competence, reliability and personalized solutions.

We have implemented international management systems and standards that have been recognised with numerous certificates.



Certificate for Quality management – ISO 9001



The system for quality management, which is certified in accordance with the ISO 9001 norm, has been in force in our company for years. It implicates a structured and complete analysis of every activity and the best planning and rationalizing of all operational processes. This implies:

- ✓ keeping the highest levels of efficiency and effectiveness;
- ✓ the timely control of the internal operational costs;
- ✓ constant attention to the requirements and the expectations of the client.

We want to satisfy all requirements and expectations of the clients, ensuring profitable working conditions and high standards. Moreover, we want to contribute to the reputation of the entire supply chain of the bids we are a part of, also on an international level.

We have implemented a management system focused on quality, which we apply to all of our daily business activities. Our purpose is to come up with solutions for specific problems, such as problems with deadlines, and to satisfy the expressed and unexpressed needs of both our internal and external clients.

Certificate for Environmental Management System – ISO 14001



In 2011, we have been awarded the Certificate for an Environmental Management System – ISO 14001. This means that our company works within the parameters imposed through some rules. We operate with respect for the environment and limit air pollution. Moreover, with our general approach to efficient and sustainable products and production systems, **we are continuously trying to improve the environmental management in order to globally improve our performance.**

Certification for Health and Safety on the workflow OHSAS 18001



In 2015, we have been awarded the OHSAS 18001 certificate. This is the result of Fiorini's effort to proactively protect the health and safety of its own workers and to guarantee conformity to all laws.



UGO - Certificate for responsible innovation



Because of our deep-seated vocation for improvement and innovation, we are the **first company in this sector** to have adhered to the UGO standards. Those standards distinguish organisations which operate in the field of innovation and intend to sustain the innovation in a transparent way to further **progress and improve quality of life**.

Research activities are a key part of our development strategy and have already brought us avant-garde solutions and technologies which have made our company a technological leader and a market leader.

The UGO certificate guarantees that the certified organisations invest in research and that the produced innovations do not put business before the health and safety of users. This entails that we guarantee our clients, our commercial partners and all stakeholders in general that the innovations we developed represent a perfect symbiosis between science, technology, economical progress and improvement of the quality of life.

Certificate for Ethical Company



Next to our choice to focus on **social responsibility and attention for sustainable development**, we have also chosen to adhere to the ethical company policy. We aim to combine business and sustainability values (in the broad sense), aware of the contribution we can make to the **development of well-being and the quality of life**.



Certificate for designing and producing pressurized devices

In 2014 we have been awarded another certificate: **the certificate for designing and producing pressurized devices** conform to the 97/23/CE directive (PED pressure equipment directive) which guarantees the ability of designing and producing:

- ✓ tanks
- ✓ heat exchangers
- ✓ collectors

which are produced to contain liquids and gas, also those which are classified as dangerous, up to those of the highest risk category described by the directive (risk category IV)

In particular, we have obtained the module H1 for surveillance, which **recognizes the quality** of the specific techniques and verifies the design process, the production processes and the testing procedures for all types of tanks, also those which are in the risk category. This gives the client the **guarantee they are acquiring a product which was designed and produced in accordance with criteria** for performance, but also for safety and durability.



Refrigeration systems and systems for heat pumps

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Refrigeration systems and systems for heat pumps

The following solutions make our refrigeration systems and systems for heat pumps more efficient and high-performance.

Our line of refrigeration systems contains buffer tanks and hydronic kits, which are designed to improve the functioning and performance of even the most evolutionary air-conditioning systems. We have a broad range of buffer tanks, both horizontal and vertical, and hydraulic stations which can be combined with many pumps and storage tanks. All our products are manufactured, on request, with special and customized details.

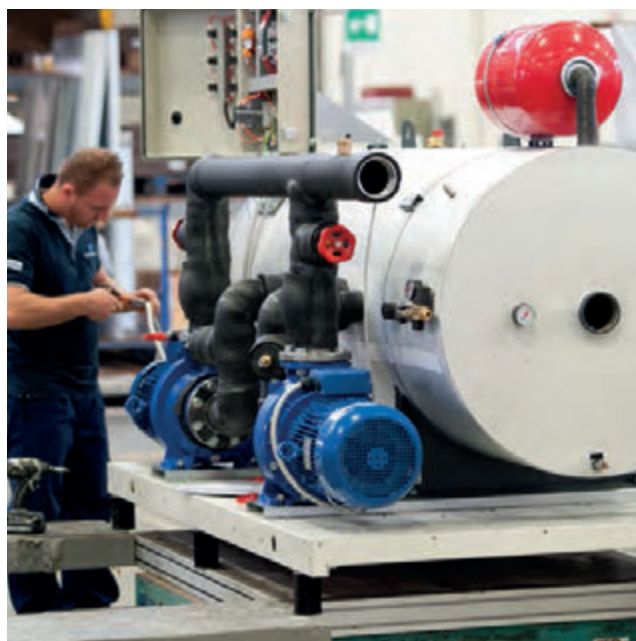
Buffer tanks

The buffer tanks, which increase the water volume in the device, improve the functioning and the performance of all air-conditioning systems. It brings numerous advantages, such as:

- longer life span of cooling systems and heat pumps because the device does not have to be activated as often;
- flexibility of use because the device can function with lower temperatures which differ from the normal temperatures
- possibility to install the cooling devices with a reduced power

Hydronic kits

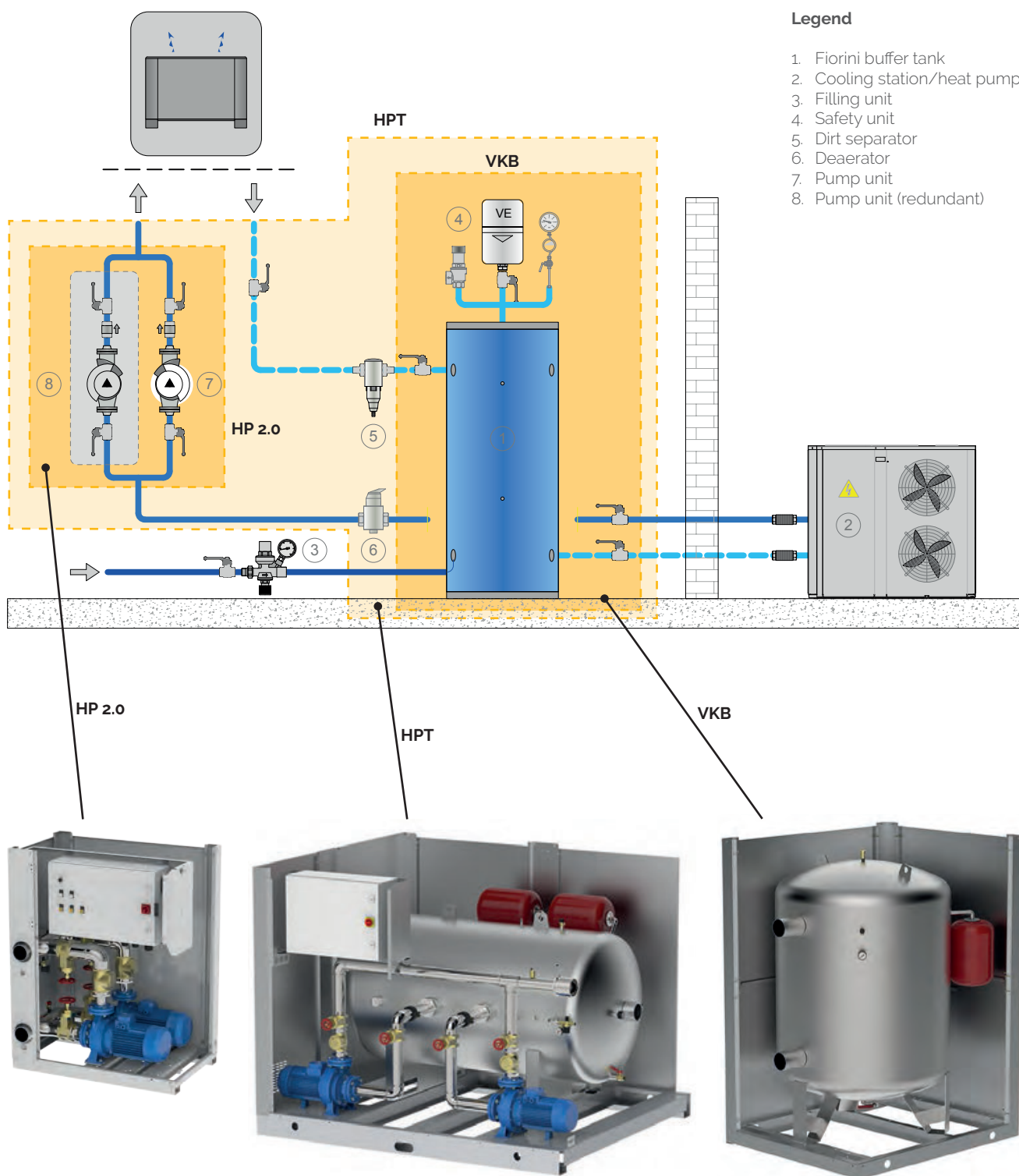
The numerous versions of the VKB, HPT and HP 2.0 are realized to use the advantages of a thermal fly-wheel as best as possible in cooling installations and installations with a heat pump. These hydraulic units ensure the correct functioning of the hydraulic circuit which can be connected to all types of water coolers and heat pumps. The units are enveloped in a supporting structure with a polished steel base, a frame and panels in galvanized and polished steel, which makes it possible to install the units outside. Moreover, non-standard solutions can also be realized, on the customer's request.



Applications

Single loop

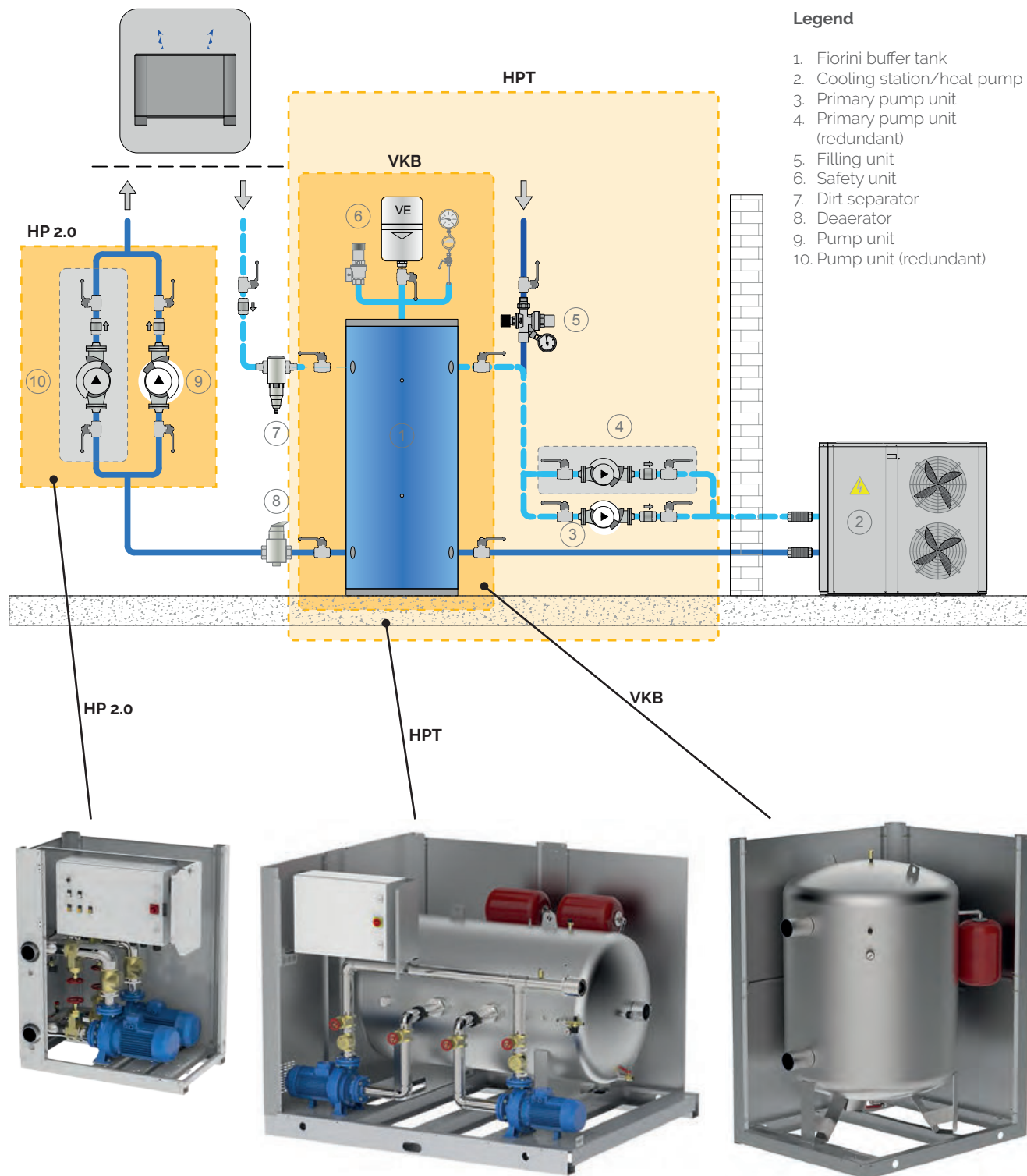
In the single loop installations, the storage tank has the function of thermal flywheel and is placed in series with the device and the cooler. In this way the flow of the fluid in the circuit is the same in every point. This solution is recommended for simple devices.



Applications

Double loop

In the double loop installations the storage tank is installed as an element to separate the thermal source and the installation. In this way the flows in the primary and the secondary circuit are independent. This solution is recommended for devices with complex settings.



Buffer tanks

Because of our broad range of buffer tanks, we can offer the best solution for every possible installation. We offer the following products:



V
Carbon steel
Hot-dip galvanizing

For devices which need protection against corrosion and for single loop or double loop installations. These tanks, without insulation, are meant to be insulated in the heating plant.



VKS
Carbon steel
External anti-rust painting
Anti-condensate insulation

With internal baffles which prevent preferential flow. To be used with double loop installations, also with a high flow and multi-circuited.



VKR
Carbon steel
External anti-rust painting
Anti-condensate insulation

With internal pipe conveyor which favours the chilled water flow from the primary circuit during the start-up. To be used with double loop installations, with medium/high flow. Galvanized version available on demand.

VK
Carbon steel
Hot-dip galvanizing
Anti-condensate insulation

For devices which need protection against corrosion. Single or double loop installations.

VKG
Carbon steel
External anti-rust painting
Anti-condensate insulation

For devices which do not need protection against corrosion. Single or double loop installations.

VKT
Carbon steel
Internal enamelling
Anti-condensate insulation

For devices which need anti-corrosive protection and which are also compatible with most antifreeze liquids. To be used with single or double loop installations.

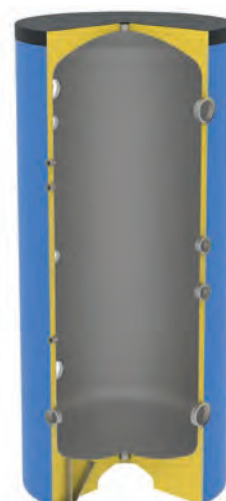
VKX
Stainless steel
Anti-condensate insulation

For devices which need stainless steel in case of contact with the fluid. To be used with single or double loop installations.



VKD
Carbon steel
External anti-rust painting
Anti-condensate insulation

To be used with double loop installations, with tube conveyors equipped with diffusers which make the temperature in the tank uniform.

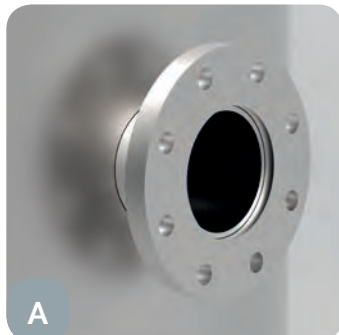


VKG-HC
Carbon steel
External anti-rust painting
Anti-condensate insulation

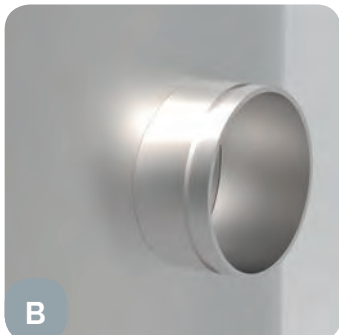
Can contain hot as well as chilled water in heating or cooling devices equipped with a heat pump. To be used with single and double loop installations.

Buffer tanks: couplings

All models are equipped with threaded couplings. We also manufacture special versions with several kinds of couplings on demand (flanged couplings, Victaulic couplings and increased couplings)

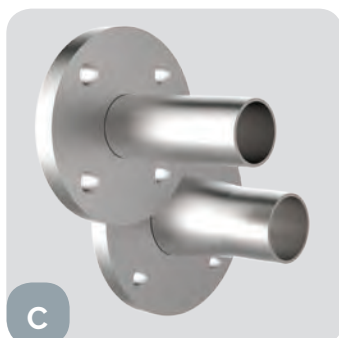


A
Flanged couplings



B
Victaulic couplings

Material: carbon raw steel
Other materials on demand



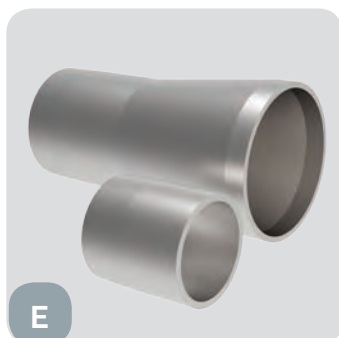
C
Transformation to flanged coupling

Original coupling	Transformed coupling UNI-EN PN 16	Code	Price
1"1/2	DN 40	838081200X	
	DN 50	838081201X	
2"	DN 50	838081202X	
	DN 65	838081203X	
2"1/2	DN 65	838081204X	
	DN 80	838081205X	
3"	DN 80	838081206X	
	DN 100	838081207X	
4"	DN 100	838081208X	
	DN 125	838081209X	



D
Transformation to victaulic coupling

Original coupling	Transformed coupling	Code	Price
1"1/2	1"1/2	838081211X	
	2"	838081212X	
2"	2"	838081213X	
	2"1/2	838081214X	
2"1/2	2"1/2	838081215X	
	3"	838081216X	
3"	3"	838081217X	
	4"	838081218X	
4"	4"	838081219X	
	5"	838081220X	



E
Transformation to brazed coupling

Original coupling	Transformed coupling	Code	Price
1/2"	1/2"	838081221X	
1"1/2	1"1/2	838081222X	
	2"	838081223X	
2"	2"	838081224X	
	2"1/2	838081225X	
2"1/2	2"1/2	838081226X	
	3"	838081227X	
3"	3"	838081228X	
	4"	838081229X	
4"	4"	838081230X	
	5"	838081231X	

Buffer tank: Insulation

The insulated tanks can be manufactured with two different types of insulating material on the outside. Both have an anti-condensate function.

Detail of the three points for fixing to the ground

Detail of the coupling of the discharge conveyor



Rigid foam

This insulation is made from a layer of polyurethane foam which envelops the whole tank. This solution prevents every thermal bridge with the exterior and guarantees excellent performance. It is available for vertical tanks, cannot be supplied separately and cannot be removed. The exterior is finished in coloured PVC. The insulation has a special design which makes it possible to channel the air towards the outside and to fix the tank to the ground.

Closed cell elastomeric insulation

Tanks with a volume of more than a 1000l and special models, horizontal or in galvanized steel, are insulated with closed cell elastomeric foam which is stuck to the surface of the tank. This prevents condense formation. This type of insulation cannot be removed. The external finishing is in coloured PVC.

Technical features

Type	Density	Thermal conductivity (15°C)	Resistance to steam diffusion
Elastomere 20 mm	30 kg/m ³	= 0,0333 W/m °C	μ = 2190
Foam 30 mm	40 kg/m ³	= 0,023 W/m °C	μ = 2210

Buffer tanks

V series



The V series includes a range of galvanized tanks for chilled water, which are not insulated and usually used to increase thermal inertia of the air-conditioning unit. Tanks with various capacities are available, from 100l up to 5000l.

Features

- ✓ **Material:** carbon steel
- ✓ **Treatment:** internal and external hot-dip galvanization
- ✓ **Not insulated**

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	50 °C	6 bar

Special versions

Available on request: customized dimensions, flanged couplings, customized couplings, thicker insulation, etc.

capacity l	V verticale code	packaging		V horizontal code	price
		price	dimensions cm	weight kg	
100	816020040		49x49x107	18	816020052
200	816020041		54x54x145,5	29	816020053
300	816020042		64x64x154,5	36	816020054
500	816020043		74x74x183,5	73	816020055
800	816020044		88x88x186	99	816020056
1000	816020045		94x94x214,6	120	816020057
1500	816020046		107x107x228	188	816020058
2000	816020047		117x117x260	258	816020059
2500	816020048		132x132x239,5	276	816020060
3000	816020049		132x132x289,5	324	816020061
4000	816020050		147x147x296,5	488	816020062
5000	816020051		167x167x300,5	578	816020063

Buffer tanks

VK series

The VK series has galvanized and insulated tanks for chilled water, which are usually used to increase the thermal inertia of the conditioning device. The galvanization offers protection against corrosion.

Features

- ✓ **Material:** carbon steel
- ✓ **Treatment:** internal and external hot-dip galvanization
- ✓ **Insulation:**
 - Rigid foam with a thickness of 30 mm for vertical tanks with a capacity of up to 1000l
 - Closed cell elastomere with a thickness of 20 mm for horizontal and tanks and special versions with a capacity of more than 1000l
- ✓ **External covering:** coloured PVC

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	50 °C	6 bar

Special versions

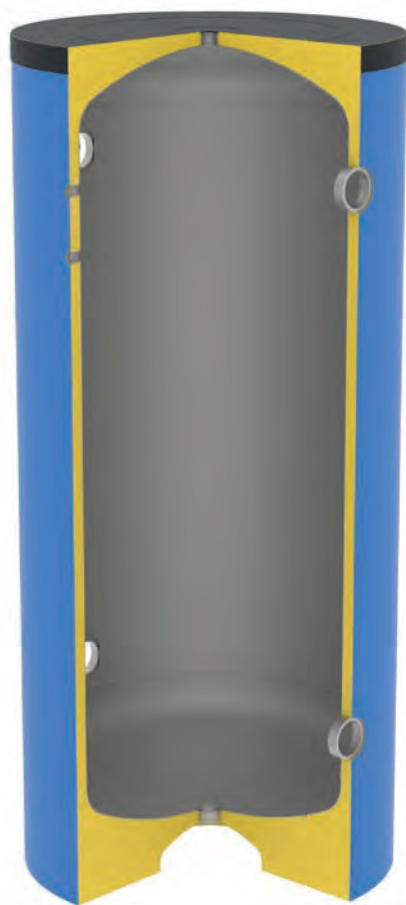
Special versions are available on demand: customized dimensions, flanged couplings, customized couplings, thicker insulation, etc...



capacity l	VK vertical code	price	packaging		VK horizontal code	price
			dimensions cm	weight kg		
100	816020064		49x49x107	25	816020076	
200	816020065		54x54x145,5	37	816020077	
300	816020066		64x64x154,5	48	816020078	
500	816020067		74x74x183,5	81	816020079	
800	816020068		88x88x186	110	816020080	
1000	816020069		94x94x214,6	135	816020081	
1500	816020070		107x107x228	192	816020082	
2000	816020071		117x117x260	264	816020083	
2500	816020072		132x132x239,5	281	816020084	
3000	816020073		132x132x289,5	331	816020085	
4000	816020074		147x147x296,5	496	816020086	
5000	816020075		167x167x300,5	587	816020087	

Buffer tanks

VKG series



The VKG series contains insulated tanks for chilled water, which are usually used to increase thermal inertia of the conditioning device.

Features

- ✓ **Material:** carbon steel
- ✓ **Treatment:** external anti-rust coating
- ✓ **Insulation:**
 - Rigid foam with a thickness of 30 mm for vertical tanks with a capacity of up to 1000l
 - Closed cell elastomere with a thickness of 20 mm for horizontal and special tanks with a capacity of over 1000l
- ✓ **External covering:** coloured PVC

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	50 °C	6 bar

Special versions

Special versions are available on demand: customized dimensions, flanged couplings, customized couplings, thicker insulation, etc...

capacity l	VKG vertical code	price	packaging		VKG horizontal code	price
			dimensions cm	weight kg		
100	816010130		49x49x107	24	816010142	
200	816010131		54x54x145,5	36	816010143	
300	816010132		64x64x154,5	46	816010144	
500	816010133		74x74x183,5	78	816010145	
800	816010134		88x88x186	105	816010146	
1000	816010135		94x94x214,6	129	816010147	
1500	816010136		107x107x228	182	816010148	
2000	816010137		117x117x260	250	816010149	
2500	816010138		132x132x239,5	267	816010150	
3000	816010139		132x132x289,5	314	816010151	
4000	816010140		147x147x296,5	470	816010152	
5000	816010141		167x167x300,5	557	816010153	
6000	816011186X		282x203x204	647		
8000	816011187X		352x203x204	782		
10000	816011188X		427x203x204	927		

Buffer tanks

VKG-HC series

The VKG-HC series contains insulated tanks for hot/cold devices, which are generally used to increase the thermal inertia of the heating and conditioning device.

Features

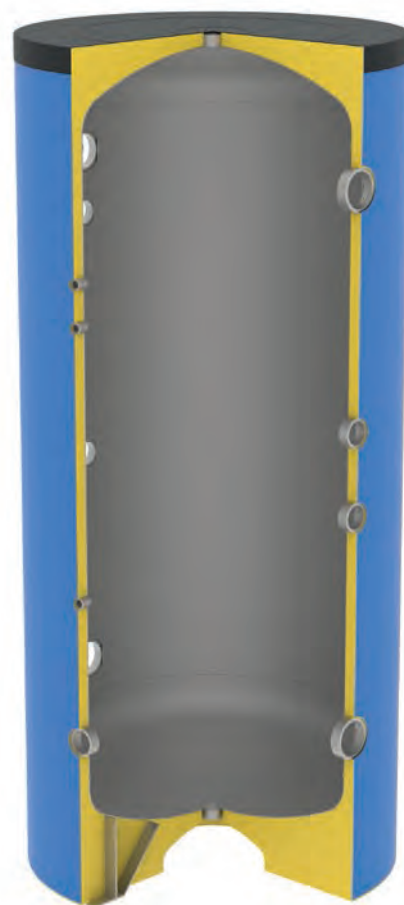
- ✓ **Material:** carbon steel
- ✓ **Treatment:** external anti-rust coating
- ✓ **Insulation:**
 - Rigid foam with a thickness of 30 mm for vertical tanks of up to 1000 l
 - Double insulation (elastomere + polyurethane) for larger capacities, special versions and horizontal tanks
 - closed-cell elastomere with a thickness of 10 mm with an anti-condensate function
 - flexible polyurethane with a thickness of 40mm
- ✓ **External covering:** coloured PVC

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	90 °C	5 bar

Special versions

Special versions are available on demand: customized dimensions, flanged couplings, customized couplings, thicker insulation, etc...



capacity l	VKG-HC code	price	energy label	packaging	
				dimensions cm	weight kg
100	817010084X		B	49x49x107	25
200	817010085X		C	54x54x146,1	36
300	817010086X		D	64x64x154,7	48
500	817010087X		D	74x74x184,1	80
800	817010088X			88x88x186,1	106
1000	817010089X			94x94x214,6	130
1500	817010090X			117x117x230,5	218
2000	817010091X			123x123x262,5	260

Buffer tanks VKT series



The tanks in the VKT series, which are internally enamelled and insulated for use with chilled water, are usually used to increase thermal inertia of the conditioning device. The internal enamelling ensures protection against corrosion.

Features

- ✓ **Material:** carbon steel
- ✓ **Treatment:** Bluetech internal enamelling with thermosetting resins.
- ✓ **Insulation:**
 - Rigid foam with a thickness of 30 mm for tanks with a capacity of up to 1000l
 - Closed cell elastomere with a thickness of 20 mm for horizontal and special tanks with a capacity of over 1000l

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	50 °C	6 bar

Special versions

Special versions are available on demand: customized dimensions, flanged couplings, customized couplings, thicker insulation, etc...

capacity l	VKT code	price	packaging	
			dimensions cm	weight kg
100	816080001X		49x49x107	24
200	816080002X		54x54x145,5	36
300	816080003X		64x64x154,5	46
500	816080004X		74x74x183,5	78
800	816080005X		88x88x186	105
1000	816080006X		94x94x214,6	129
1500	816080007X		107x107x228	182
2000	816080008X		117x117x260	250
2500	816080009X		132x132x239,5	267
3000	816080010X		132x132x289,5	314
4000	816080011X		147x147x296,5	470
5000	816080012X		167x167x300,5	557

Buffer tanks

VKX series

The VKX series includes insulated stainless steel tanks for chilled water, which are usually used to increase thermal inertia of the conditioning device. The stainless steel protects the device against corrosion and makes it possible to use the tank in aggressive environments and in industrial settings.

Features

- ✓ **Material:** AISI 304 or AISI 316 stainless steel
- ✓ **Insulation:** Closed cell elastomere with a thickness of 20 mm
- ✓ **External covering:** coloured PVC

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	50 °C	6 bar

Special versions

Special versions are available on demand: customized dimensions, flanged couplings, customized couplings, thicker insulation, etc...



capacity l	VKX AISI 304 code	price	packaging		VKX AISI 316 code	price	packaging	
			dimensions cm	weight kg			dimensions cm	weight kg
100	816040020		470x470x1050	--	816040141X		470x470x1050	--
200	816040021		520x520x1520	--	816040142X		520x520x1520	--
300	816040022		620x620x1545	--	816040143X		620x620x1545	--
500	816040023		670x670x2000	--	816040144X		670x670x2000	--
800	816040024		860x860x1970	--	816040145X		860x860x1970	--
1000	816040025		870x870x2240	--	816040146X		870x870x2240	--
1500	816040026		1070x1070x2250	--	816040147X		1070x1070x2250	--
2000	816040027		1270x1270x2330	--	816040148X		1270x1270x2330	--
2500	816040028		1270x1270x2580	--	816040149X		1270x1270x2580	--
3000	816040029		1320x1320x2850	--	816040150X		1320x1320x2850	--
4000	816040030		1470x1470x2930	--	816040151X		1470x1470x2930	--
5000	816040031		1670x1670x2960	--	816040152X		1670x1670x2960	--

Buffer tanks VKS series



The VKS series includes insulated tanks for chilled water, which are usually used to increase thermal inertia in double loop cooling devices. They are equipped with dividing baffles which prevent preferential flow in the tank by creating perfect conditions for temperature distribution. They are especially used with medium and high flows and with special versions in which the tank is to be connected with more than two circuits.

Features

- ✓ **Material:** carbon steel
- ✓ **Treatment:** external anti-rust coating
- ✓ **Insulation:**
 - Rigid foam with a thickness of 30mm for tanks with a capacity of up to 1000l
 - Closed cell elastomere with a thickness of 20 mm for special tanks with a capacity of over 1000l
- ✓ **External covering:** coloured PVC

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	50 °C	6 bar

Special versions

Special versions are available on demand: customized dimensions, flanged couplings, customized couplings, thicker insulation, etc...

capacity l	VKS code	price	packaging	
			dimensions cm	weight kg
100	816010166		49x49x107	29
200	816010167		54x54x145,5	41
300	816010168		64x64x154,5	55
500	816010169		74x74x183,5	91
800	816010170		88x88x186	122
1000	816010171		94x94x214,6	149
1500	816010172		107x107x228	208
2000	816010173		117x117x260	282
2500	816010174		132x132x239,5	307
3000	816010175		132x132x289,5	356
4000	816010176		147x147x296,5	519
5000	816010177		167x167x300,5	621

Buffer tanks

VKR series

The insulated VKR tanks for chilled water are usually used to increase the thermal inertia of the double loop conditioning device with a medium or high flow. They are equipped with the double loop cooling device which create a preferential circuit inside the tank.

Features

- ✓ **Material:** carbon steel
- ✓ **Treatment:** external anti-rust coating
- ✓ **Insulation:**
 - Rigid foam with a thickness of 30 mm for vertical tanks with a capacity of up to 1000l
 - Closed cell elastomere with a thickness of 20 mm for horizontal and special tanks with a capacity of over 1000l.
- ✓ **External covering:** coloured PVC

Operational limits

Min temperature	Max temperature	Max pressure
-10 °C	50 °C	6 bar

Special versions

Special versions are available on demand: customized dimensions, flanged couplings, customized couplings, thicker insulation, etc...



capacity l	VKR code	price	packaging	
			dimensions cm	weight kg
100	816010154		49x49x107	26
200	816010155		54x54x145,5	37
300	816010156		64x64x154,5	50
500	816010157		74x74x183,5	85
800	816010158		88x88x186	113
1000	816010159		94x94x214,6	137
1500	816010160		107x107x228	193
2000	816010161		117x117x260	262
2500	816010162		132x132x239,5	283
3000	816010163		132x132x289,5	330
4000	816010164		147x147x296,5	487
5000	816010165		167x167x300,5	577

Buffer tanks

VKD series



The insulated VKD tanks for chilled water are usually used to increase thermal inertia of the double loop conditioning device. They are equipped with diffuser tubes which connect the two circuits linked to the tank. Energy is supplied or subtracted through the diffuser's circumferential probes. In this way the mixing of fluids is significantly reduced.

Features

- ✓ **Material:** carbon steel
- ✓ **Treatment:** external anti-rust coating
- ✓ **Insulation:**
 - Rigid foam with a thickness of 30 mm for vertical tanks with a capacity of up to 1000l
 - Closed cell elastomere with a thickness of 20 mm for special tanks with a capacity of over 1000l.

Operational limits

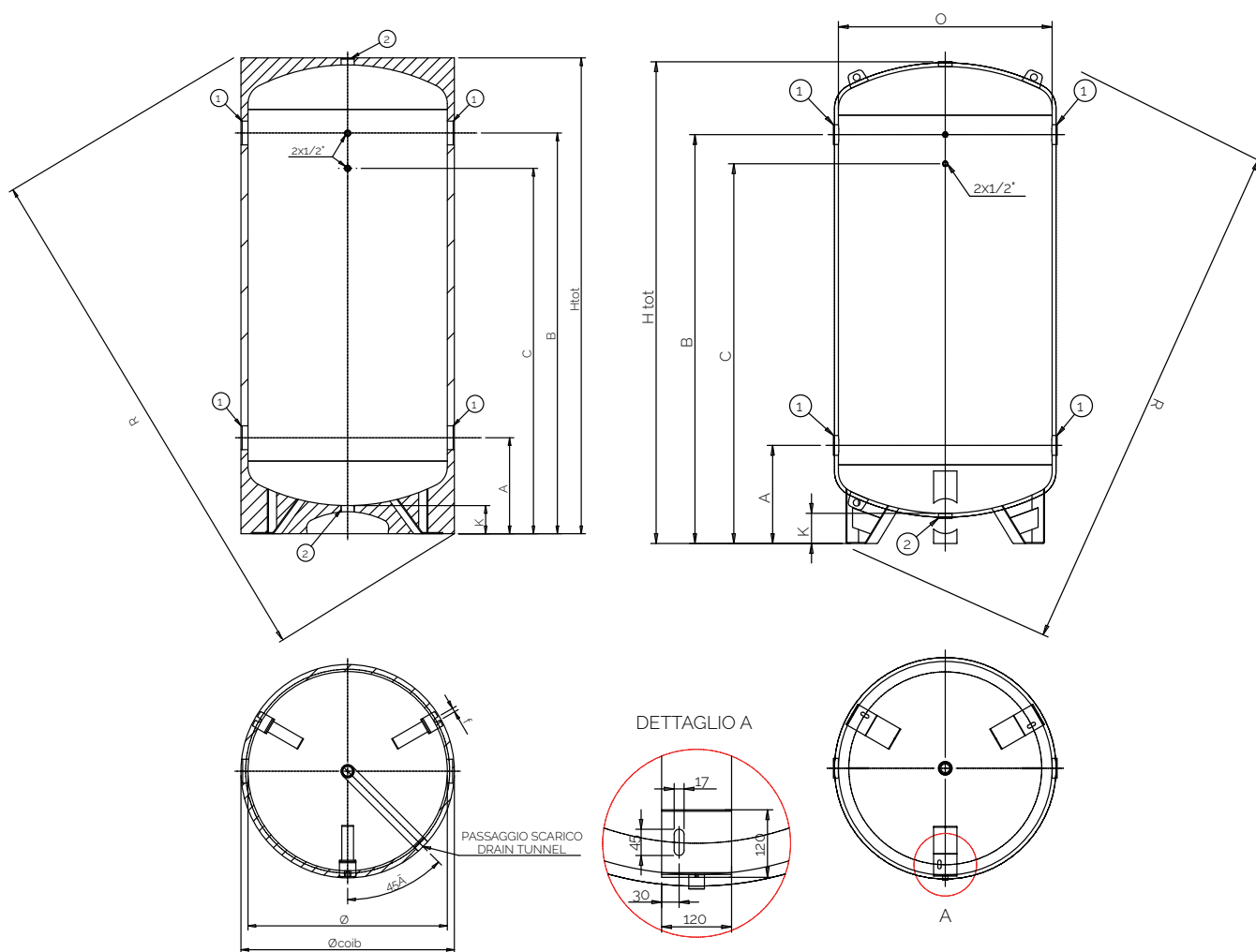
Min temperature	Max temperature	Max pressure
-10 °C	50 °C	6 bar

Special versions

Special versions are available on demand: customized dimensions, flanged couplings, customized couplings, thicker insulation, etc...

capacity l	VKD code	price	packaging	
			dimensions cm	weight kg
100	816010417		49x49x107	26
200	816010418		54x54x145,5	37
300	816010419		64x64x154,5	50
500	816010420		74x74x183,5	85
800	816010421		88x88x186	113
1000	816010422		94x94x214,6	138
1500	816010423		107x107x228	193
2000	816010424		117x117x260	262
2500	816010425		132x132x239,5	283
3000	816010426		132x132x289,5	330
4000	816010427		147x147x296,5	487
5000	816010428		167x167x300,5	577

Buffer tanks: dimensions



100 < cap. < 1.000

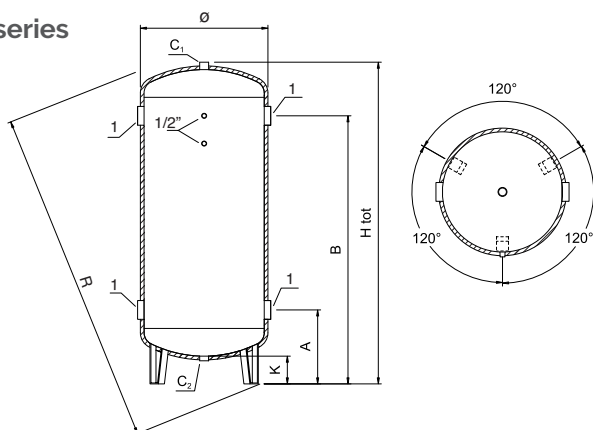
1500 < cap. < 10.000

V, VK, VKG, VKT, VKS, VKR and VKD series vertical

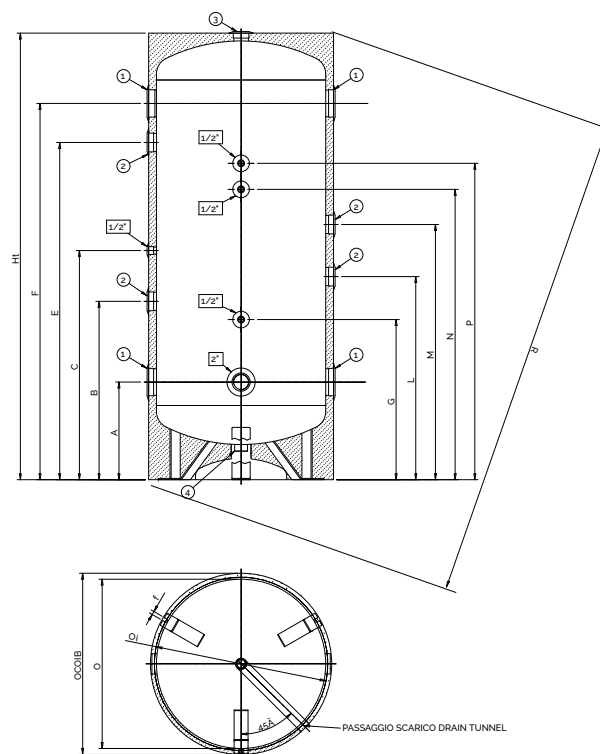
cap. l	Ø mm	R mm	Ø insul. mm	H tot mm	A mm	B mm	C mm	K mm	f mm	1 mm	2 mm
100	400	1056	460	950	290	760	610	125	17	1"1/2	1"1/4
200	450	1430	510	1335	290	1140	990	120	17	1"1/2	1"1/4
300	550	1551	610	1425	365	1165	1015	130	17	2"	1"1/4
500	650	1857	710	1715	385	1435	1285	135	17	3"	1"1/4
800	790	1937	850	1740	395	1445	1295	125	17	3"	1"1/2
1000	850	2221	910	2026	410	1710	1560	120	17	3"	1"1/2
1500	1000	2398	1040	2160	500	1800	1650	165		3"	2"
2000	1100	2730	1140	2480	505	2105	1955	155		3"	2"
2500	1250	2616	1290	2275	565	1865	1715	180		4"	2"
3000	1250	3061	1290	2775	565	2365	2215	180		4"	2"
4000	1400	3189	1440	2845	590	2390	2240	160		4"	2"
5000	1600	3319	1640	2885	600	2400	2250	140		4"	2"
6000	1800	2849	1840	2175	615	2215	2015	140		4"	2"
8000	1800	3880	1840	3415	615	2915	2715	140		4"	2"
10000	1800	4554	1840	4165	615	3665	3465	140		4"	2"

Buffer tanks: dimensions

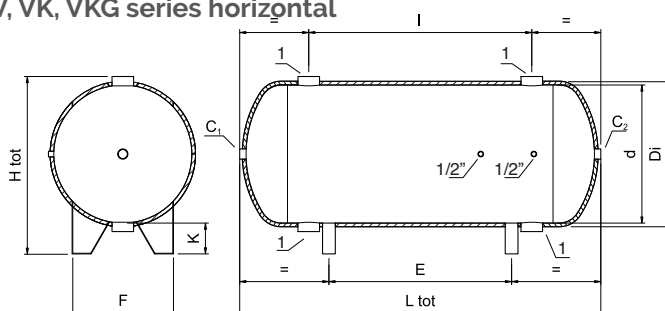
VKX series



VKG-HC series



V, VK, VKG series horizontal



V, VK, VKG series horizontal

cap. l	Ø mm	insul. mm	Htot mm	Ltot mm	E mm	F mm	I mm	K mm	C inch	1 inch
100	400	440	546	850	310	330	470	120	1 1/4	1 1/2
200	450	490	596	1240	700	350	850	120	1 1/4	1 1/2
300	550	590	715	1320	600	425	800	140	1 1/4	2"
500	650	690	875	1600	900	490	1050	190	1 1/4	3"
750	790	830	1015	1642	900	615	1050	190	1 1/2	3"
1000	850	890	1075	1932	1130	660	1300	190	1 1/2	3"
1500	1000	1040	1275	2010	950	775	1300	190	2"	3"
2000	1100	1140	1335	2356	1320	900	1600	200	2"	3"
2500	1200	1240	1460	2416	1180	950	1600	225	2"	4"
3000	1250	1290	1510	2626	1390	965	1800	225	2"	4"
4000	1400	1440	1660	2716	1380	1080	1800	225	2"	4"
5000	1600	1640	1680	2776	1380	1235	1800	225	2"	4"

VKX series

cap. l	Ø mm	Htot mm	R mm	A mm	B mm	C2 inch	C1 inch	1 inch
100	440	930	1029	265	735	1 1/4	1 1/4	2'
200	490	1400	1484	300	1150	1 1/4	1 1/4	2'
300	590	1425	1543	320	1170	1 1/4	1 1/4	2'
500	690	1880	2003	320	1620	1 1/4	1 1/4	2 1/2'
800	830	1850	2028	445	1495	1 1/4	1 1/4	2 1/2'
1000	890	2120	2300	455	1755	1 1/4	1 1/4	3'
1500	1040	2130	2371	465	1765	1 1/4	1 1/4	3'
2000	1240	2210	2487	500	1800	1 1/4	1 1/4	3'
2500	1240	2460	2778	500	2050	1 1/4	1 1/4	3'
3000	1290	2730	3020	515	2315	1 1/4	1 1/4	4'
4000	1440	2810	3158	550	2350	1 1/4	1 1/4	4'
5000	1640	2840	3280	550	2350	1 1/4	1 1/4	4'

VKG-HC series

cap. l	Ø mm	R mm	insul. mm	Ht mm	A mm	B mm	C mm	E mm	F mm	G mm	L mm	M mm	N mm	P mm	K mm	Øi mm	f mm	1 inch	2 inch	3 inch	4 inch
100	400	1056	460	950	285	445	-	605	765	395	-	/	655	-	125	424	17	1 1/2	1 1/2	1 1/4	1 1/4
200	450	1435	510	1341	320	580	-	850	1120	520	-	/	920	-	125	474	17	1 1/2	1 1/2	1 1/4	1 1/4
300	550	1552	610	1427	325	425	735	1035	1185	535	635	835	1010	1100	130	574	17	2'	1 1/2	1 1/4	1 1/4
500	650	1862	710	1721	380	690	885	1300	1450	620	785	985	1120	1220	140	670	17	3'	2'	1 1/4	1 1/4
800	790	1937	850	1741	395	685	885	1295	1445	610	820	1020	1115	1205	125	810	17	3'	2'	1 1/2	1 1/2
1000	850	2221	910	2026	410	950	1090	1560	1710	750	950	1150	1400	1500	120	870	17	3'	2'	1 1/2	1 1/2
1500	1000	2450	1100	2185	500	1040	1180	1650	1800	840	1020	1220	1510	1610	165	880	17x45	3'	2'	1 1/2	1 1/2
2000	1100	2780	1200	2505	505	1345	1450	1955	2105	885	1180	1380	1815	1915	155	980	17x45	3'	2'	1 1/2	1 1/2

Buffer tanks: Accessories

Electric resistor



* Equipped with a thermostat with incorporated settings. IP 40 protection. The others models are IP 65 protection.

Electric power W	Tension V	Number of elements	Diameter of couplings inch	Length mm	Code	price
1200*	230	1	1" 1/4	220	824100003	
1500*	230	1	1" 1/4	290	824100004	
2000*	230	1	1" 1/4	330	824100005	
1300	230/380	3	2"	220	824100008	
2000	230/380	3	2"	290	824100009	
2000	230/380	3	1" 1/4	300	824100053	
3000	230/380	3	2"	340	824100010	
3000	230/380	3	1" 1/4	300	824100011	
4000	230/380	3	2"	390	824100012	
4000	230/380	3	1" 1/4	400	824100072	
5000	230/380	3	2"	500	824100013	
5000	230/380	3	1" 1/4	450	824100073	
6000	230/380	3	2"	600	824100014	
7000	230/380	3	2"	580	824100015	
8000	230/380	3	2"	620	824100016	
10000	230/380	3	2"	770	824100017	



Description	code	price
anti-freeze resistor 200W	824100001	



Description	code	price
Thermometer for hot water	822050001	
Thermometer for cold water	822050004	



Description	code	price
Thermostat	822010004	



Description	code	price
Bithermostat	822050006	



Description	code	price
Anti-freeze bithermostat	822050007	

Buffer tanks: Accessories

Covered in aluminium sheets which make it possible to install the tank outside. It is obligatory to pack in wooden boxes because this guarantees a better protection of the product during transport.

Volume	code	price
100	ALL-100	*
200	ALL-200	*
300	ALL-300	*
500	ALL-500	*
800	ALL-800	*
1000	ALL-1000	*
1500	ALL-1500	*
2000	ALL-2000	*
2500	ALL-2500	*
3000	ALL-3000	*
4000	ALL-4000	*
5000	ALL-5000	*



Volume	code	price
Extra in case of man hole	GABBIA-BOCC	*

Volume	code	price
100	wood Box-100	*
200	wood Box-200	*
300	wood Box-300	*
500	wood Box-500	*
800	wood Box-800	*
1000	wood Box-1000	*
1500	wood Box-1500	*
2000	wood Box-2000	*
2500	wood Box-2500	*
3000	wood Box-3000	*
4000	wood Box-4000	*
5000	wood Box-5000	*

Wooden boxes
Guarantees a better protection of the product during transport.



*Ask for a quote

Hydronic kit

The VKB, HPT and HP 2.0 units are meant to optimize the performance of heating and cooling installations and to reduce the installation time.

The units have an integrated system, which contains all the needed components for an efficient functioning of the hydraulic circuit (or for the distribution of chilled water). They are designed, pre-assembled and every unit is tested in our factory. In this way we guarantee quality in our products and a fast and simple installation.

The kits are available with a broad range of Pump/Tank combinations which can be used with any kind of cooling device or heat pump. The units are made of materials and finished in a certain way which makes it possible to install outdoor. They can be customized according to the client's specific requirements.

Advantages

- ✓ Easy installation
- ✓ All units are tested
- ✓ Pre-assembled system
- ✓ Fast installation
- ✓ Excellent dimensions
- ✓ Low energy consumption



HPT
Unit with tank, pump
and accessories



VKB
Unit with tank
and accessories



HP 2.0
Unit with pump
and accessories



The units are in accordance with the directives emitted by the European Union and labelled with the CE mark.



In accordance with the ErP directive
Efficient usage of energy



Pre-assembled accessories
and tested for a fast and
secure installation

Tank units for chilled water

Hydronic systems: HPT



Carbon steel tank and tubes insulated with anti-condensate elastomere



The HPT units are hydraulic units with buffer tanks designed to reduce the production time of conditioning and cooling systems. They can be equipped with all different kinds of water coolers.

The HPT units are made of:

- carbon steel tank and tubes insulated with anti-condensate elastomere
- Centrifugal single or double pump with a shut-off valve
- Switchboard with possibility to alternate the pumps with every start-up (2 pump version), to start-up the backup pump in case of breakdown (2 pump version), magnetothermic protection, cleaned contact to signalise the distance between the pumps, protection category IP56
- Expansion vessel
- Safety valve
- Deaerator
- Fill-up/discharge valve
- Base in galvanized and coated steel sheets
- Self-supporting panels in galvanized and coated steel sheets for installations outside.

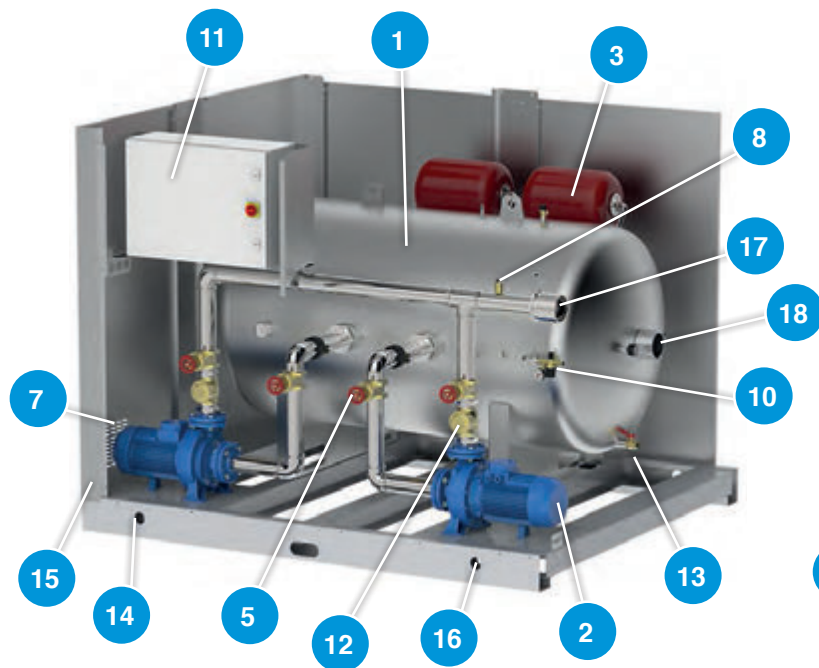
Available versions

The broad range of pump-tank combinations makes it possible to meet all requirements. Numerous versions are available: with a single or a double pump and with tanks with a capacity of 100, 200, 300, 500, 750, 1000, 1500 and 2500 liters.

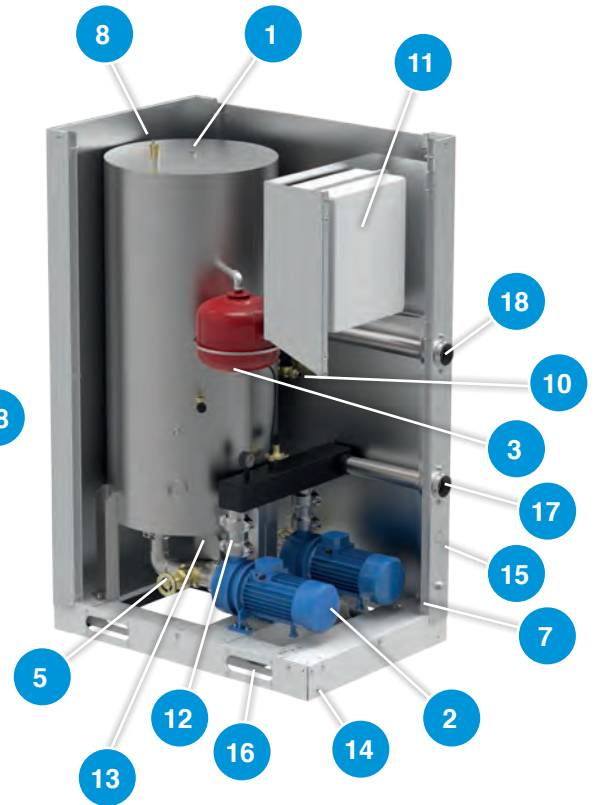
Hydronic systems

HPT: components

Horizontal HPT



Vertical HPT



Components

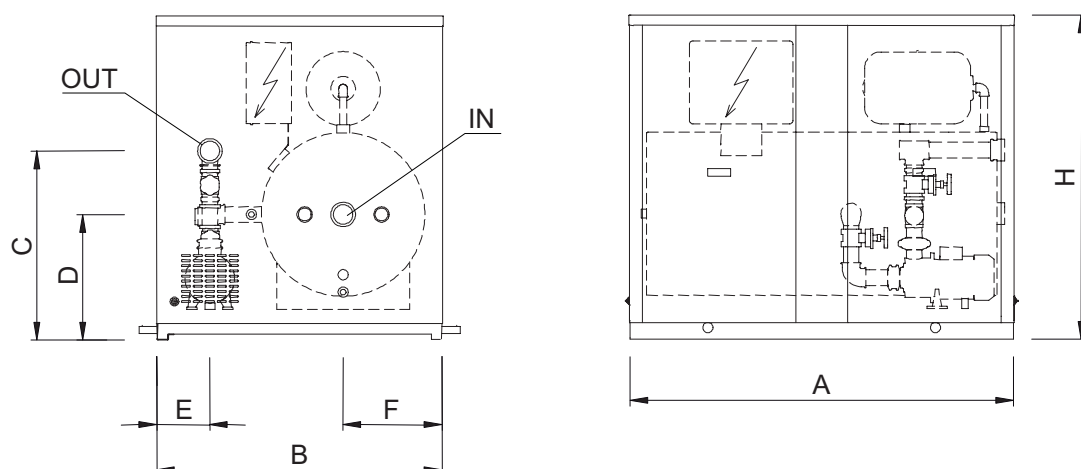
- 1 tank
- 2 circulator
- 3 expansion vessel
- 5 on-off valve
- 7 automatic ventilation system
- 8 pressure relief valve
- 9 filling tap
- 10 automatic filling unit
- 11 switchboard
- 12 Control valve (version with 2 pumps)
- 13 outlet
- 14 Anchoring point (4-6 holes M12/ Ø14)
- 15 inlet power grid
- 16 jacking points
- 17 Flow to the device
- 18 Return from the device

Components

- 1 tank
- 2 circulator
- 3 expansion vessel
- 5 on-off valve
- 7 automatic ventilation system
- 8 pressure relief valve
- 9 filling tap
- 10 automatic filling unit
- 11 switchboard
- 12 control valve (version with 2 pumps)
- 13 outlet
- 14 inlet power grid
- 15 jacking points
- 16 flow to the device
- 17 return from the device

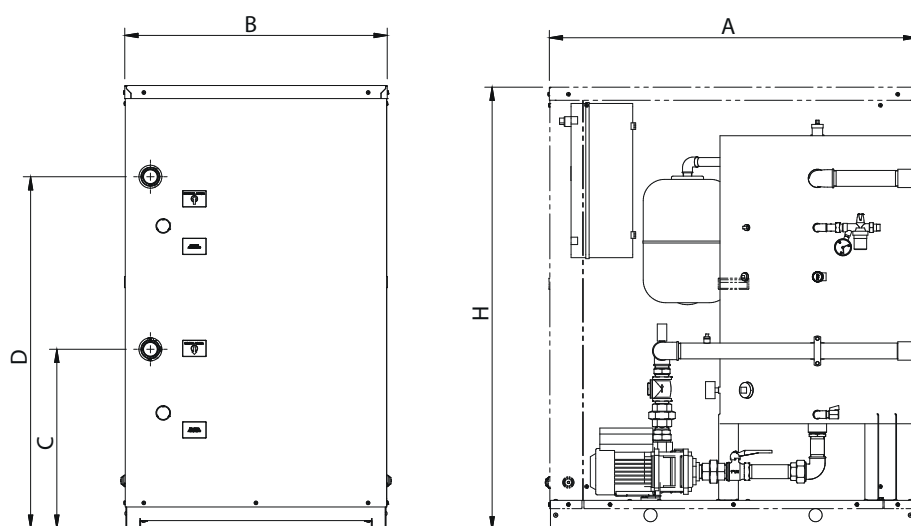
Hydronic systems

HPT: dimensions and connections



Horizontal HPT dimensions

capacity l	A mm	B mm	H mm	C mm	D mm	E mm	F mm	IN inch	OUT inch
300	1504	1120	1265	738	490	212	388	2" 1/2	2" 1/2
500	1504	1120	1265	738	490	212	388	2" 1/2	2" 1/2
750	2044	1200	1510	940	604	185	440	3"	3"
1000	2044	1200	1510	940	604	185	440	3"	3"
1500	2260	1900	1782	1145	829	262	703	4"	4"
2000	2260	1900	1782	1145	829	262	703	4"	4"



Vertical HPT dimensions

capacity l	A mm	B mm	H mm	C mm	D mm	E mm	P mm	IN inch	OUT inch
100	1120	800	1350	546	1002	100	45	1" 1/2	1" 1/2
200	1120	800	1350	546	1072	80	45	1" 1/2	1" 1/2
300	1100	760	1726	558	1008	60	-	1" 1/2	1" 1/2

HPT hydronic system: user's conditions

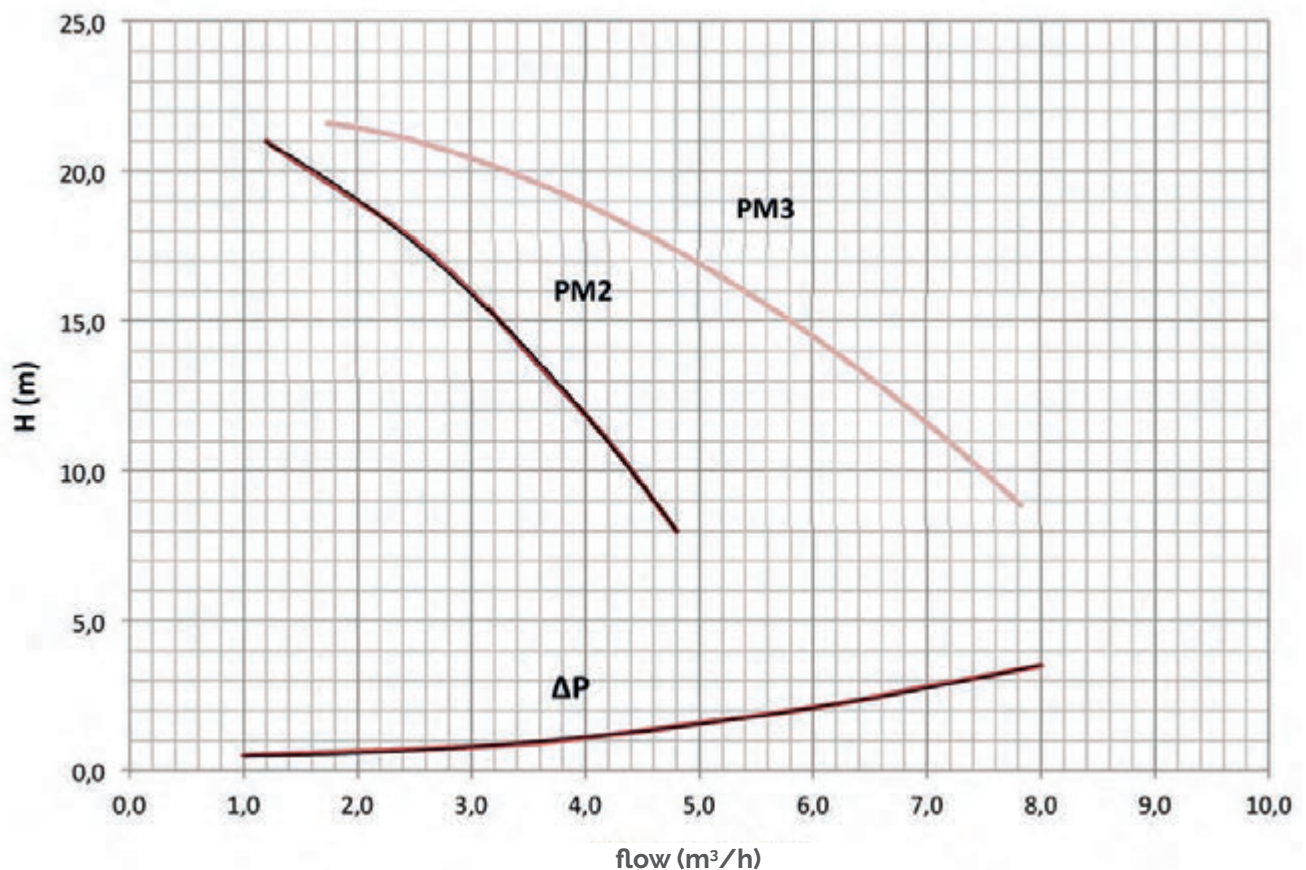
Normal user conditions

The tank is designed to be connected to a conditioning device, coupled with a chiller which takes heat from the device thanks to a standard nominal thermal leap (7-12°C). The average operating temperature is approximately 10°C and the operating pressure varies between 0.5 and 2.5 bar. The replacement of fluid in the tank depends on the functioning of the device or cooling unit, indicated by the intersection of the characteristic curve of the pump and of the device. The HPT unit is meant to be used with a heat pump, but can also function in relatively high temperatures, max 50°C and a max pressure of 3 bar. When the HPT is used in an environment with low winter temperatures, it is recommended to use anti-freeze liquid or resistance. Alternatively we recommend emptying the hydraulic circuit, to prevent the water from freezing.

Protective measures

The HPT is protected from possible functioning errors and incautious manoeuvres (!) through the installation of two devices: the differential pressure switch (optional) and the safety valve. A possible problem is the malfunctioning of the centrifugal pump, which can cause the vector fluid to stop flowing and consequently the freezing of the fluid. The use of a differential pressure switch (supplied on request), which blocks the compressor, prevents this inconvenience. The HPT is equipped, in the standard version, with an expansion vessel and a safety valve. In case of wrong manoeuvres, or other events that cause overpressure, the safety valve, calibrated at 3 bar, is automatically activated. The expansion vessel, preloaded, intervenes whenever an excessive dilation of the fluid occurs.

HPT-V 100-200

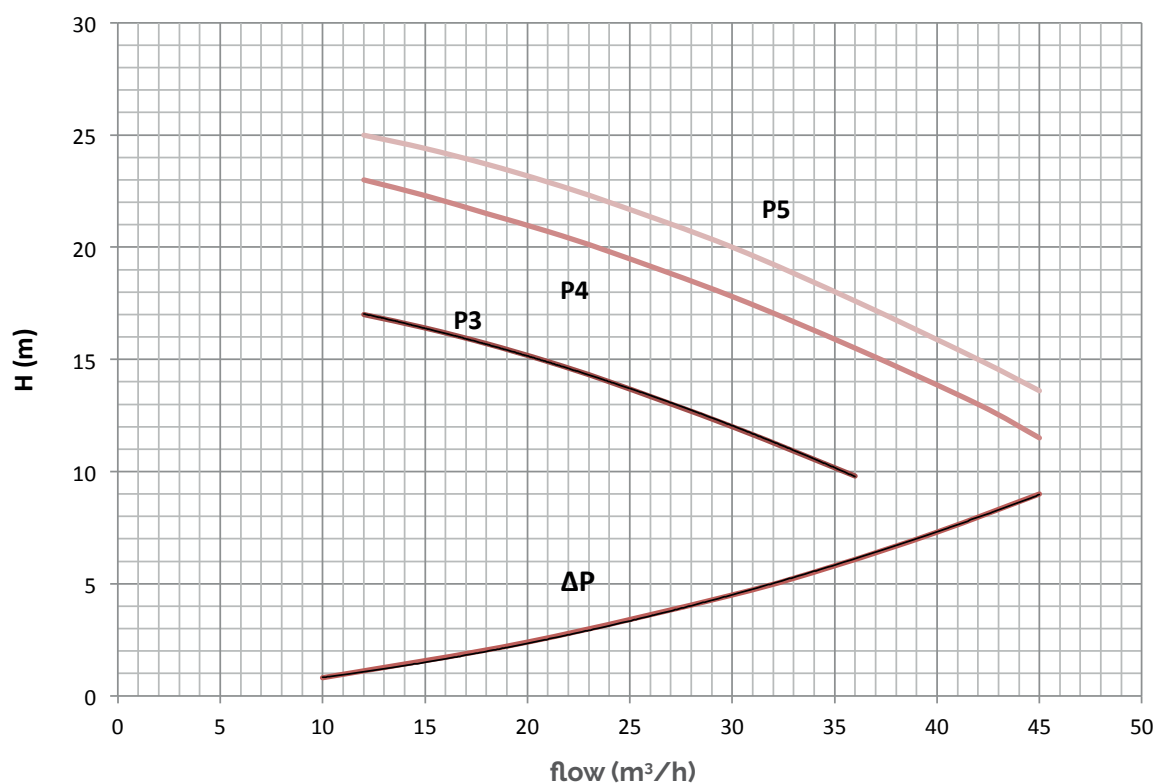
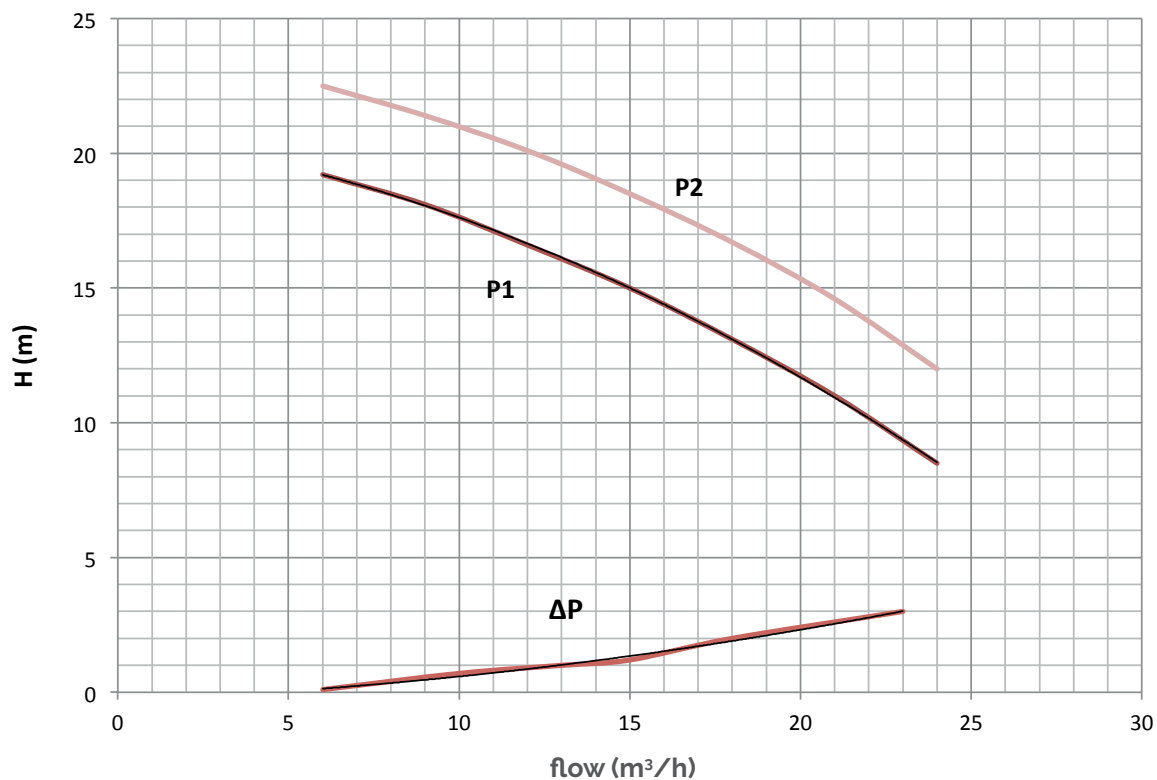


ΔP : pressure loss of the HPT unit

HPT hydronic systems

Prevalence and pressure loss curve

HPT 300-500

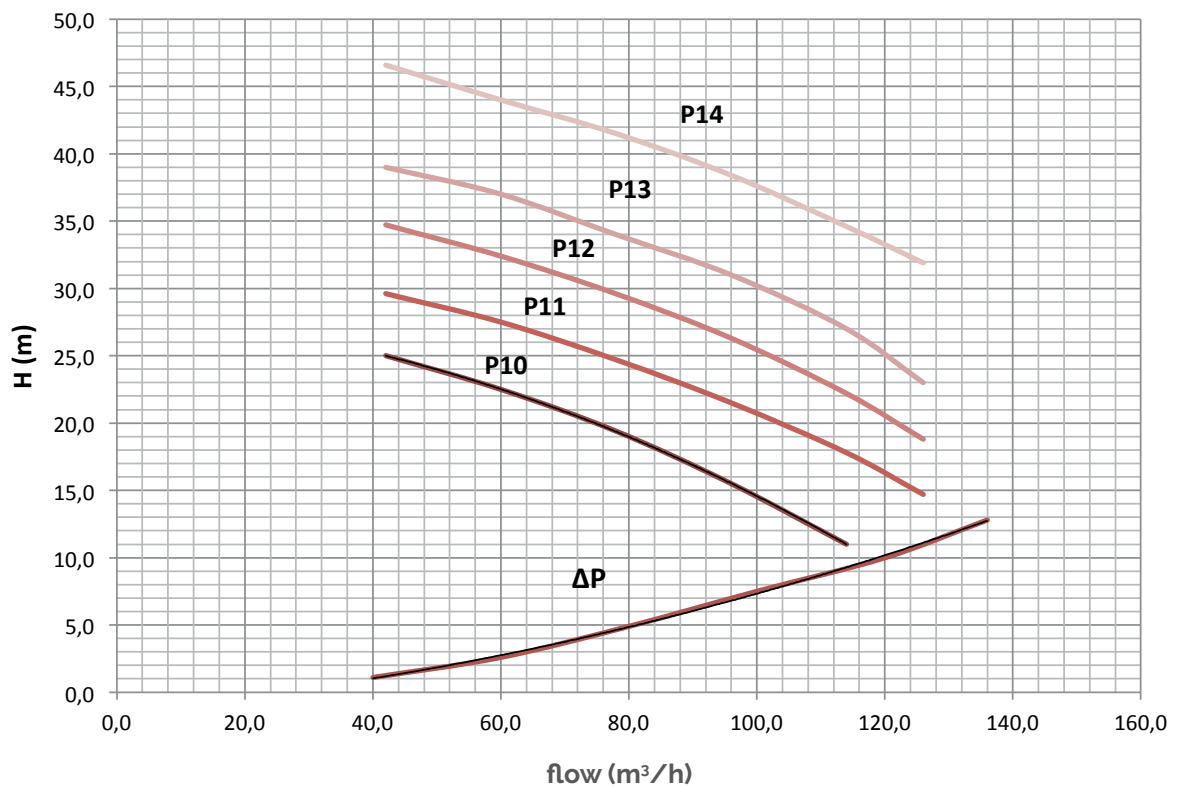
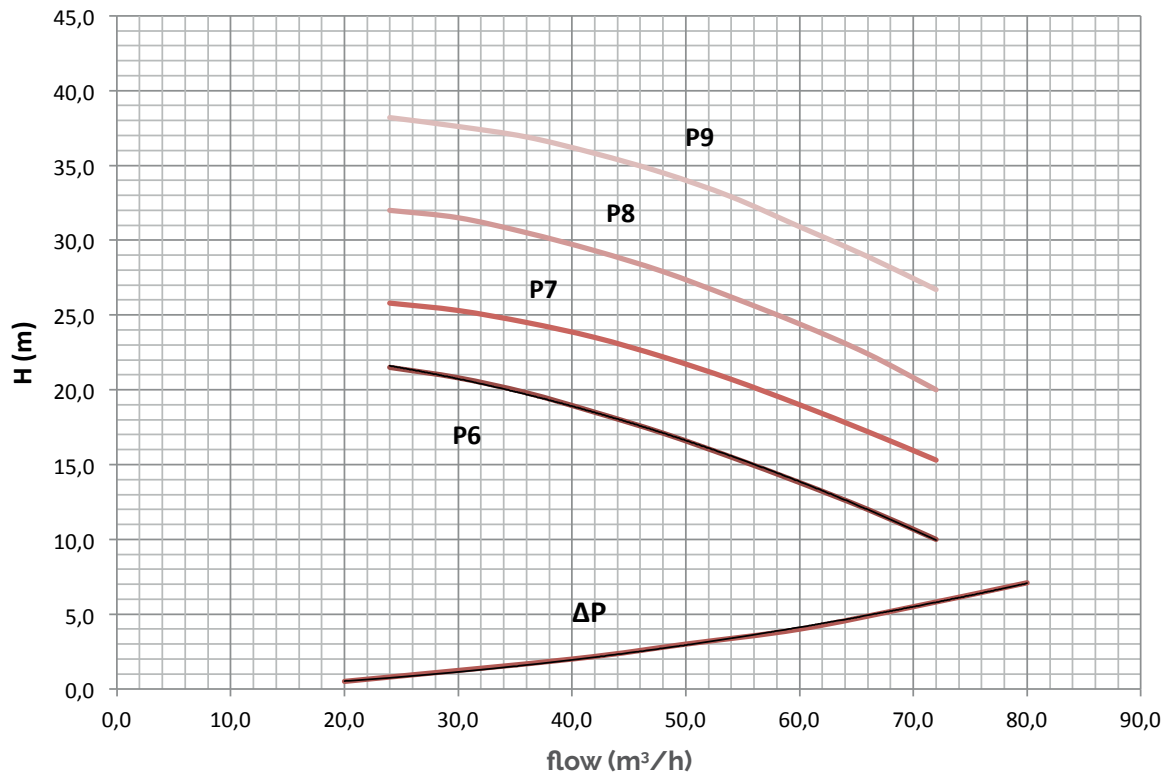


ΔP : pressure loss of the HPT unit

HPT hydronic systems

Prevalence and pressure loss curve

HPT 750-1000

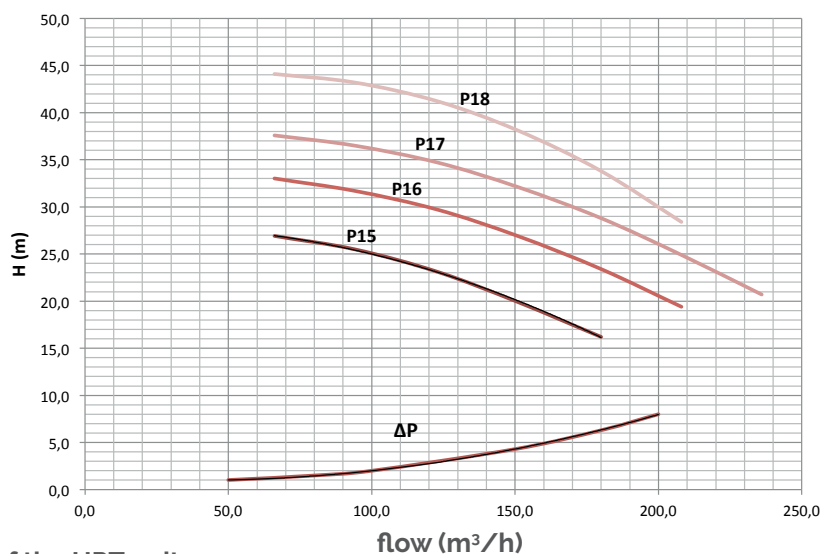
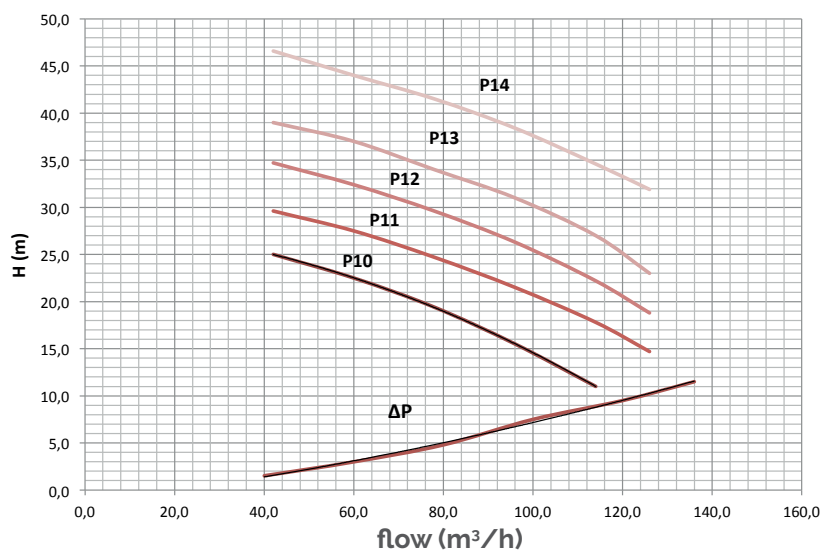
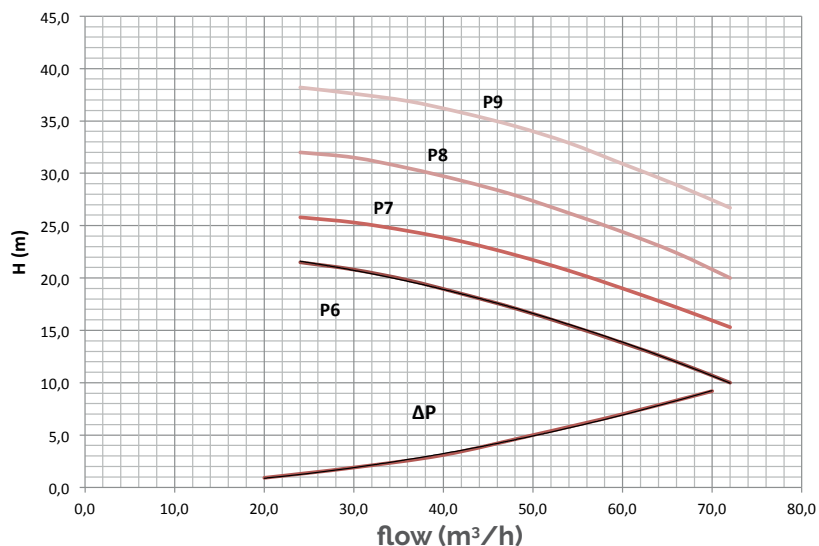


ΔP : pressure loss of the HPT unit

HPT hydronic systems

Prevalence and pressure loss curve

HPT 1500-2500



ΔP: pressure loss of the HPT unit

HPT hydronic systems

technical information

Pump model	Tank capacity l	Wsb1 kg	Wsb2 kg	F.L.I kW	F.L.A. (400/3/50) A	F.L.A. (230/1/50) A	Ve l
PM2	100			0,45		3,2	18
	200			0,45		3,2	18
PM3	100			0,45		3,2	18
	200			0,45		3,2	18
P1	300	186	216	1,1	2,5		25
	500	208	238	1,1	2,5		25
P2	300	188	220	1,5	3,2		25
	500	210	242	1,5	3,2		25
P3	300	188	220	1,5	3,4		25
	500	210	242	1,5	3,4		25
P4	300	191	225	2,2	4,8		25
	500	213	247	2,2	4,8		25
P5	300	194	231	3	5,6		25
	500	215	253	3	5,6		25
P6	750	341	428	3	6,1		25
	1000	364	455	3	6,1		25
	1500	513	586	3	6,1		3x25
	2500	565	638	3	6,1		3x25
P7	750	341	428	4	8,7		25
	1000	364	455	4	8,7		25
	1500	513	586	4	8,7		3x25
	2500	565	638	4	8,7		3x25
P8	750	370	485	5,5	10,4		25
	1000	392	512	5,5	10,4		25
	1500	565	696	5,5	10,4		3x25
	2500	613	732	5,5	10,4		3x25
P9	750	370	485	7,5	13,6		25
	1000	392	512	7,5	13,6		25
	1500	565	696	7,5	13,6		3x25
	2500	613	732	7,5	13,6		3x25
P10	750	373	493	5,5	10,4		25
	1000	396	520	5,5	10,4		25
	1500	569	696	5,5	10,4		3x25
	2500	617	740	5,5	10,4		3x25

HPT hydronic systems

technical information

Pump model	Tank capacity l	Wsb1 kg	Wsb2 kg	F.L.I kW	F.L.A. (400/3/50) A	Ve l
P11	750	377	501	7,5	13,6	25
	1000	400	528	7,5	13,6	25
	1500	569	696	7,5	13,6	3x25
	2500	617	740	7,5	13,6	3x25
P12	750	377	501	9,2	17,2	25
	1000	400	528	9,2	17,2	25
	1500	569	696	9,2	17,2	3x25
	2500	617	740	9,2	17,2	3x25
P13	750	377	501	11	21,3	25
	1000	400	528	11	21,3	25
	1500	569	696	11	21,3	3x25
	2500	617	740	11	21,3	3x25
P14	1500	628	814	15	27,7	3x25
	2500	680	866	15	27,7	3x25
P15	1500	628	814	11	20,2	3x25
	2500	680	866	11	20,2	3x25
P16	1500	634	826	15	26,6	3x25
	2500	686	878	15	26,6	3x25
P17	1500	646	850	18,5	33	3x25
	2500	698	902	18,5	33	3x25
P18	1500	660	878	22	40,4	3x25
	2500	712	930	22	40,4	3x25

Pve (bar) 1,5 Ps (ba) 3 T min (°C) -10

Legend

Wsb 1 Weight HPT with 1 pump (empty)
 Wsb 2 Weight HPT with 2 pumps (empty)
 FLI maximum absorbed power
 FLA Max absorbed current
 Ve capacity of the expansion vessel
 Pve Preload of the expansion vessel
 Ps Max operating pressure
 Tmin min temperature of the liquid

Hydronic systems

HPT codes

PUMPS		HPT MODEL								
		100 vertical	200 vertical	300 vertical	300	500	750	1000	1500	2500
PM2	1P	838011058X	838011062X							
PM2	2P	838011059X	838011063X							
PM3	1P	838011060X	838011064X							
PM3	2P	838011061X	838011065X							
P1	1P			838010891X	838010349	838010359				
P1	2P			838010896X	838010354	838010364				
P2	1P			838010892X	838010350	838010360				
P2	2P			838010897X	838010355	838010365				
P3	1P			838010893X	838010351	838010361				
P3	2P			838010898X	838010356	838010366				
P4	1P			838010894X	838010352	838010362				
P4	2P			838010899X	838010357	838010367				
P5	1P			838010895X	838010353	838010363				
P5	2P			838010900X	838010358	838010368				
P6	1P					838010879X	838010374	838010384	838010705	838010689
P6	2P					838011056X	838010379	838010389	838010458	838010682
P7	1P						838011384X	838011386X	838011388X	838011390X
P7	2P						838011385X	838011387X	838011389X	838011391X
P8	1P						838010375	838010385	838010704	838010688
P8	2P						838010380	838010390	838010630	838010681
P9	1P						838011392X	838011394X	838011396X	838011398X
P9	2P						838011393X	838011395X	838011397X	838011399X

Hydronic systems

HPT codes

PUMPS		HPT MODEL								
		100 vertical	200 vertical	300 vertical	300	500	750	1000	1500	2500
P10	1P						838010376	838010386	838010703	838010687
P10	2P						838010381	838010391	838010696	838010680
P11	1P						838010377	838010387	838010702	838010686
P11	2P						838010382	838010392	838010695	838010679
P12	1P						838011400X	838011402X	838011404X	838011406X
P12	2P						838011401X	838011403X	838011405X	838011407X
P13	1P						838010378	838010388	838010701	838010685
P13	2P						838010383	838010393	838010694	838010678
P14	1P								838010700	838010684
P14	2P								838010693	838010677
P15	1P								838011380X	838011382X
P15	2P								838011381X	838011383X
P16	1P								838010699	838010707
P16	2P								838010692	838010459
P17	1P								838010698	838010683
P17	2P								838010691	838010676
P18	1P								838010697	838010706
P18	2P								838010690	838010633

1P single pump
2P double pump

HPT hydronic systems: vertical

Distribution of the weight

Single pump unit

pump model	tank capacity l	W1 kg	W2 kg	W3 kg	W4 kg
PM2	100	50	115	86	199
	200	54	124	92	215
PM3	100	50	115	86	199
	200	56	129	96	223
P1	300	73	38	61	31
P2	300	74	38	61	31
P3	300	74	38	61	32
P4	300	75	39	62	32
P5	300	76	39	63	32

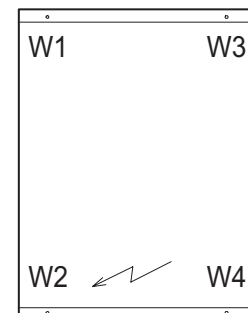
Double pump unit

pump model	tank capacity l	W1 kg	W2 kg	W3 kg	W4 kg
PM2	100	54	124	92	215
	200	55	129	95	222
PM3	100	54	125	93	216
	200	56	129	96	223
P1	300	59	59	59	59
P2	300	60	60	59	59
P3	300	60	60	60	60
P4	300	61	61	61	61
P5	300	63	63	62	62

Legend

PM2, PM3, PM4, PM5: Pump model

Top view

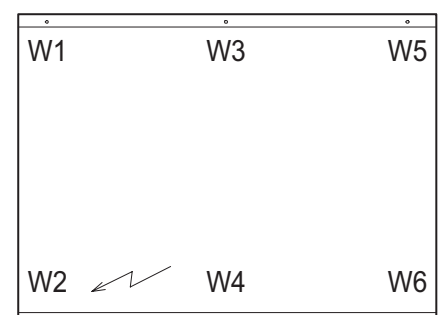


Horizontal HPT >

Legend

PM2, PM3...PM 18: Pump model

Top view



HPT hydronic systems: horizontal

Dimensions and connections

Single pump unit

pump model	tank capacity l	W1 kg	W2 kg	W3 kg	W4 kg	W5 kg	W6 kg
P1	300	148	96	154	102	-	/-
	500	219	134	226	141	-	-
P2	300	148	96	154	102	-	-
	500	219	134	226	141	-	-
P3	300	148	96	154	102	-	-
	500	219	134	226	141	-	-
P4	300	148	96	154	102	-	-
	500	219	134	226	141	-	-
P5	300	148	96	154	102	-	-
	500	219	134	226	141	-	-
P6	750	232	123	238	129	244	135
	1000	297	148	303	154	309	160
	1500	369	291	375	298	382	305
	2500	571	446	578	452	584	459
P7	750	232	123	238	129	244	135
	1000	297	148	303	154	309	160
	1500	369	291	375	298	382	305
	2500	571	446	578	452	584	459
P8	750	230	128	239	137	249	147
	1000	294	153	304	163	314	173
	1500	368	305	376	314	385	322
	2500	576	451	583	457	589	464
P9	750	230	128	239	137	249	147
	1000	294	153	304	163	314	173
	1500	368	305	376	314	385	322
	2500	576	451	583	457	589	464
P10	750	230	128	239	137	249	147
	1000	294	153	304	163	314	173
	1500	368	305	376	314	385	322
	2500	576	451	583	457	589	464
P11	750	230	128	239	137	249	147
	1000	294	153	304	163	314	173
	1500	368	305	376	314	385	322
	2500	576	451	583	457	589	464
P12	750	230	128	239	137	249	147
	1000	294	153	304	163	314	173
	1500	368	305	376	314	385	322
	2500	576	451	583	457	589	464
P13	750	235	133	244	142	254	152
	1000	292	159	305	172	318	185
	1500	365	315	377	327	389	338
	2500	571	459	581	469	591	479
P14	1500	365	318	379	331	392	345
	2500	570	470	581	482	593	499
P15	1500	365	318	379	331	392	345
	2500	570	470	581	482	593	499
P16	1500	365	318	379	331	392	345
	2500	570	470	581	482	593	499
P17	1500	367	320	381	333	394	347
	2500	572	472	583	484	595	501
P18	1500	370	323	384	336	397	350
	2500	575	475	586	487	598	504

Double pump unit

pump model	tank capacity l	W1 kg	W2 kg	W3 kg	W4 kg	W5 kg	W6 kg
P1	300	152	112	153	113	/	/
	500	227	153	227	153	/	/
P2	300	152	112	153	113	/	/
	500	227	153	227	153	/	/
P3	300	152	112	153	113	/	/
	500	227	153	227	153	/	/
P4	300	152	112	153	113	/	/
	500	227	153	227	153	/	/
P5	300	152	112	153	113	/	/
	500	227	153	227	153	/	/
P6	750	245	152	243	150	241	149
	1000	310	181	308	179	306	177
	1500	379	321	377	319	376	318
	2500	581	456	588	462	594	469
P7	750	245	152	243	150	241	149
	1000	310	181	308	179	306	177
	1500	379	321	377	319	376	318
	2500	581	456	588	462	594	469
P8	750	245	172	245	172	245	172
	1000	311	198	310	197	309	196
	1500	383	353	382	352	381	351
	2500	589	497	586	494	583	491
P9	750	245	172	245	172	245	172
	1000	311	198	310	197	309	196
	1500	383	353	382	352	381	351
	2500	589	497	586	494	583	491
P10	750	245	172	245	172	245	172
	1000	311	198	310	197	309	196
	1500	383	353	382	352	381	351
	2500	589	497	586	494	583	491
P11	750	245	172	245	172	245	172
	1000	311	198	310	197	309	196
	1500	383	353	382	352	381	351
	2500	589	497	586	494	583	491
P12	750	245	172	245	172	245	172
	1000	311	198	310	197	309	196
	1500	383	353	382	352	381	351
	2500	589	497	586	494	583	491
P13	750	255	182	255	182	255	182
	1000	314	215	313	214	312	212
	1500	382	377	381	376	380	375
	2500	587	519	584	516	581	513
P14	1500	388	388	387	387	386	386
	2500	587	546	584	543	581	539
P15	1500	388	388	387	387	386	386
	2500	587	546	584	543	581	539
P16	1500	390	390	389	389	388	388
	2500	587	546	584	543	581	539
P17	1500	394	394	393	393	392	392
	2500	591	550	588	547	585	543
P18	1500	399	399	398	398	397	397
	2500	596	555	593	552	590	548

HPT hydronic systems

capacity of the expansion vessel

Max water content in the device and the dimensions of the expansion vessel

On the first chart, the max water content in the hydraulic device which is compatible with the capacity of the expansion vessel (supplied with every HPT model) and with the start-up value of the safety valve (3 bar for all models) is indicated. If the actual water volume in the device, the storage tank included, is more than the operative conditions on the chart, more expansion vessels need to be installed.

Tav. 1

Hydraulic height H Preload of the expansion vessel		m bar	15 1,80	10 1,50
HPT 100	Max water capacity in the circuit in liters (1)		708	885
	Max water capacity in the circuit in liters (2)		453	567
HPT 200	Max water capacity in the circuit in liters (1)		708	885
	Max water capacity in the circuit in liters (2)		453	567
HPT 300	Max water capacity in the circuit in liters (1)		984	1230
	Max water capacity in the circuit in liters (2)		630	788
HPT 500	Max water capacity in the circuit in liters (1)		984	1230
	Max water capacity in the circuit in liters (2)		630	788
HPT 750	Max water capacity in the circuit in liters (1)		984	1230
	Max water capacity in the circuit in liters (2)		630	788
HPT 1000	Max water capacity in the circuit in liters (1)		984	1230
	Max water capacity in the circuit in liters (2)		630	788
HPT 1500	Max water capacity in the circuit in liters (1)		1964	2461
	Max water capacity in the circuit in liters (2)		1261	1576
HPT 2500	Max water capacity in the circuit in liters (1)		2953	3691
	Max water capacity in the circuit in liters (2)		1891	2363

Operative conditions

- (1) cooling
Min temp of fluid = 4°C
Max temp of fluid = 40°C
- (2) heating (heat pump)
Min temp of fluid = 4°C
Max temp of fluid = 50°C

Tav. 2

Water temperature				
Water/glycol mix.	max.	min.	Correction factor	Reference
10%	40	-2	0.507	(1)
10%	5	-2	0.686	(2)
20%	40	-4	0.434	(1)
20%	50	-4	0.604	(2)
30%	40	-6	0.393	(1)
30%	50	-6	0.555	(2)

HPT hydronic systems

Preload of the expansion vessel

The expansion vessel, of all models, is preloaded with a standard value of 1.5 bar. However, the value has to be adjusted to the height of the device H.

The formula used to calculate the preload value of the expansion vessel is:

$$P = (H / 10.2) + 0.3$$

Legend

H: height of the device in meters

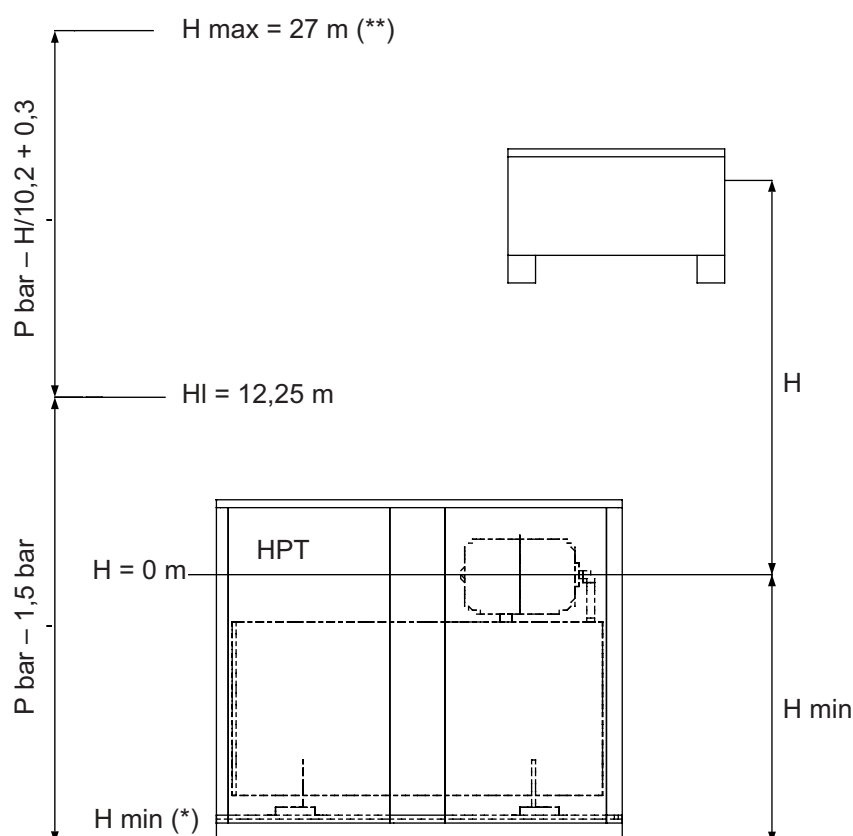
P: preload of the expansion vessel in bar

If the result of the preload value is less than the standard value, no steps should be taken. This means that for every installation with a height below 12.25 m, the preload of the expansion vessel should be 1.5 bar. In these cases the operator should only check the pressure value without carrying out any intervention.

Example:

You take a height H of 15.3 m. The preload value is:

$$P = (15,3/10,2) + 0,3 = 1,8 \text{ bar}$$



H height of the device

Hmax: max height of the device

H1: height when the preload of the expansion vessel is the same as the standard value

* verify that the lowest point of the device can support the device's pressure

** verify that the highest point of the device is not higher than $H_{max} = 27\text{ m}$

HPT hydronic systems

Accessories

Inverter

Every pump can be managed with an inverter. The units equipped with an inverter have a pressure sensor, 0-10 bar which communicates with the inverter through a 4-20 mA signal. All regulation parameters are preloaded during the testing phase in the factory. The user has only to select the set point value for the wanted pressure.

Kit with electric anti-freeze resistor

The kit is installed in the inside of the tank and has an electric resistor of 1300 W for tanks up to 1000l and two electric resistors of 1300 W for tanks with a larger capacity. The kit also contains a anti-freeze bithermostat (-35/+35°C) and is assembled, cabled and tested before delivery.

Timer for alternative pumps

In the version with double pump, the timer can be used to manage the shift between the pumps in intervals of a determined time. Without the timer, the shift between pumps is carried out with every start-up.

ATTENTION

If the system is active 24/7 the shift between pumps is not guaranteed by the standard group. In this case it is recommended to use a timer.

Differential pressure switch

This is a safety measure which makes it possible to verify the flow in the system. The device generates an alarm signal but does not automatically stop the device.

Soundproof covering

Soundproof covering is available and significantly decreases the sound emission by the device.

Anti-vibration feet

A set of anti-vibration feet which can be put on the supportive points of the device. They are supplied non-assembled.

Filter

Mesh filter, with 1000 micron holes, to be attached to the outside of the unit in order to protect the pump from any impurities of the devices.

Balancing valve

The valve is to be attached to the outside in order to regulate the flow in the circuit. It is especially recommended in devices with a variable pressure drop.

Packaging in a wooden case

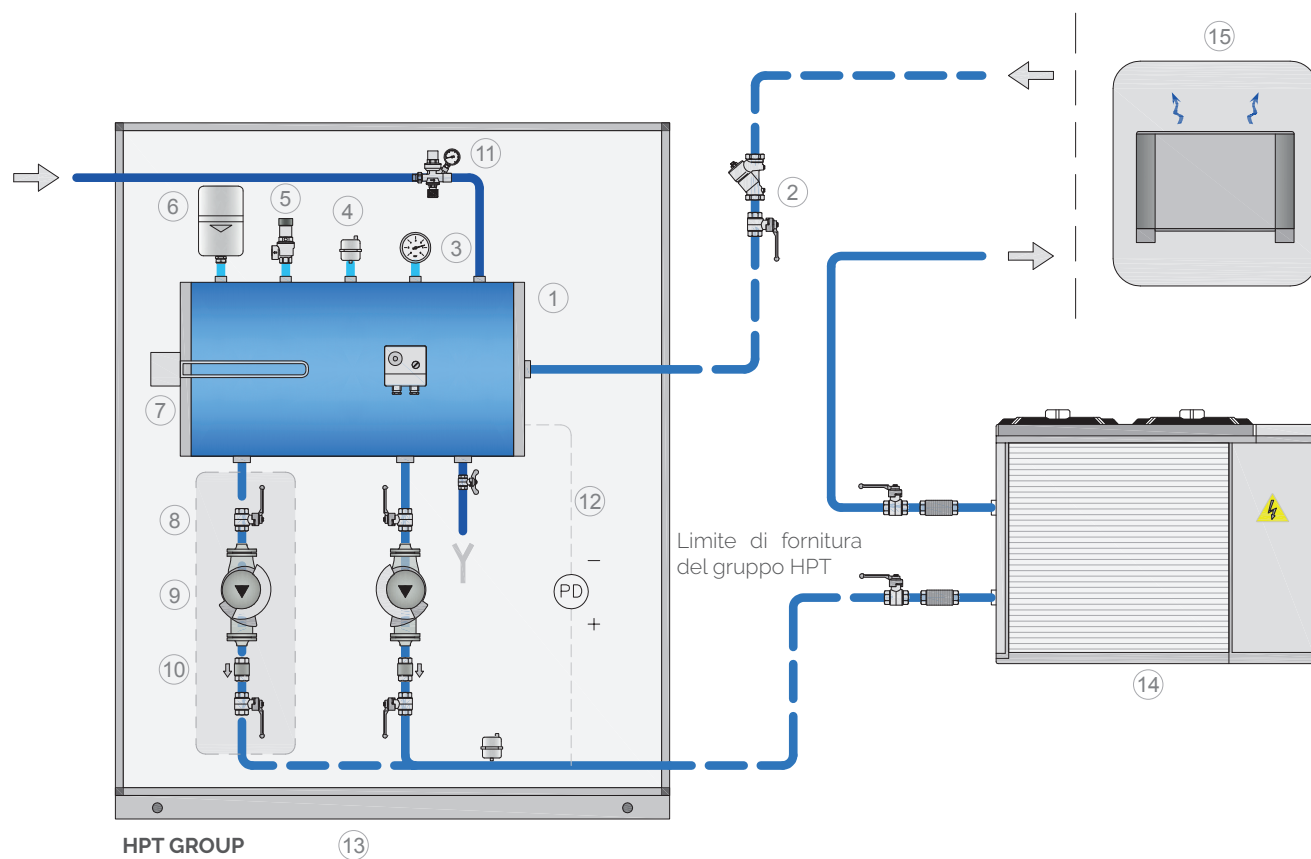
Protective packaging adapted to risky transport and long distances.

Package for overseas transport.

Extra packaging for maritime transport, with a wooden case in accordance with the international standards ISPM-15, a protective bag and hygroscopic salt.

HPT hydronic systems

Layout 1

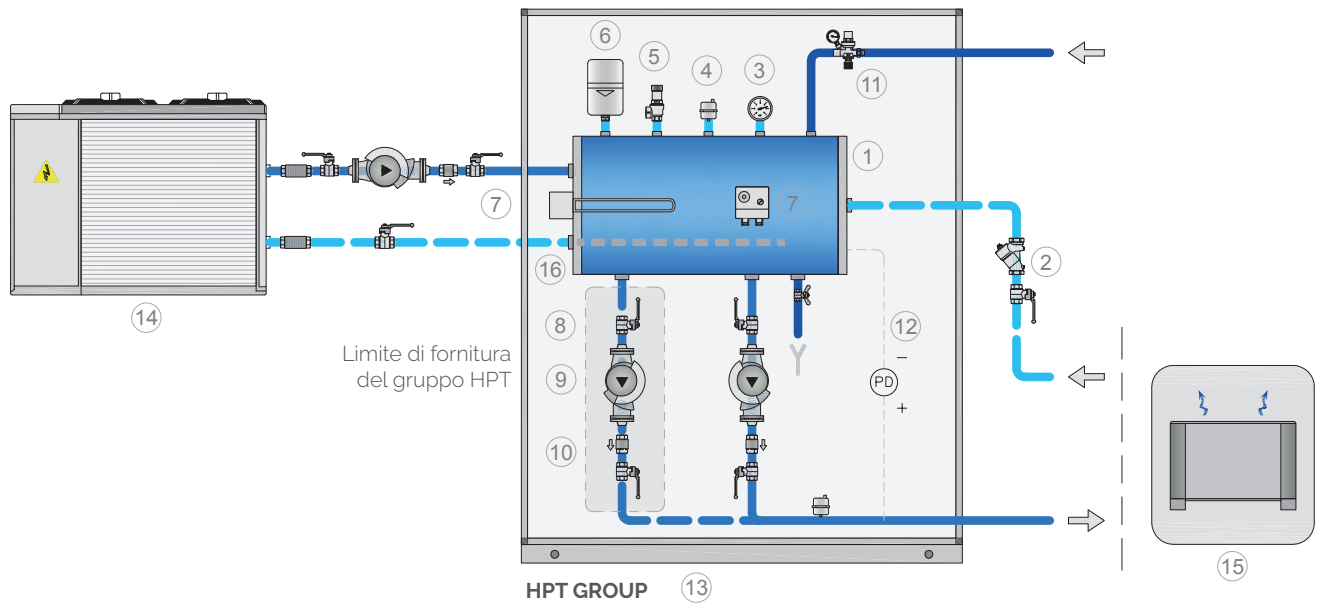


Legend

1. storage tank
2. Y filter. Optional, supplied non-assembled
3. Manometer
4. deaerator
5. Safety valve
6. Expansion vessel
7. Kit with electric anti-freeze resistance and anti-freeze thermostat (optional)
8. on-off valve
9. Circulator
10. Check valve (only version with 2 pumps)
11. automatic filling unit
12. differential pressure switch (optional)
13. self-supporting wooden structure for outside placement
14. Chiller
15. Device

HPT hydronic system

Layout 2



Legend

1. storage tank
2. Y filter. Optional, supplied non-assembled
3. Manometer
4. Deaerator
5. Safety valve
6. Expansion vessel
7. Kit with electric anti-freeze resistance and anti-freeze thermostat (optional)
8. on-off valve
9. circulator
10. check valve (only version with 2 pumps)
11. Automatic filling unit
12. Differential pressure switch (optional)
13. Self-supporting wooden structure for outdoor placement
14. Chiller
15. Device

HP 2.0

Hydronic system



Piping insulated with anti-condensate elastomere



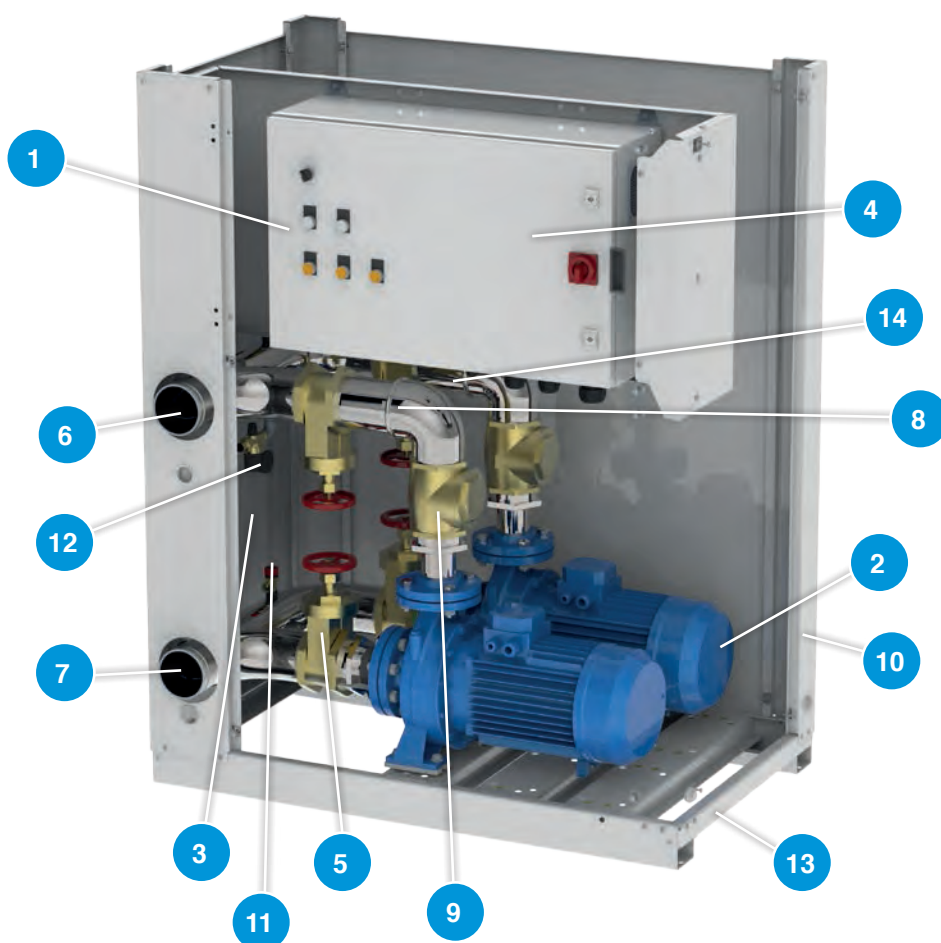
The HP 2.0 units are hydraulic stations meant to reduce the set-up time of the conditioning and cooling devices. They can be linked to any kind of water cooler.

The HP unit has:

- piping insulated with anti-condensate elastomere
- Single or double centrifugal pump with shut-off valve
- Power switchboard with device to alternate pumps with every start-up (version with two pumps), start-up of the back-up pump in case of breakdown (version with two pumps), magnetothermal protection, contacts to command the pumps from a distance, protection category IP55.
- Expansion vessel (optional)
- Safety valve
- Deaerator
- Manometer
- Fill-up/discharge valve
- Base in galvanized and coated steel sheets
- Self-supporting aluminium panels for outdoor installation
- Panels that can be quickly and easily removed
- Easy and quick access to the switchboard

The broad range of combinations offers a solution for every single type of installation.

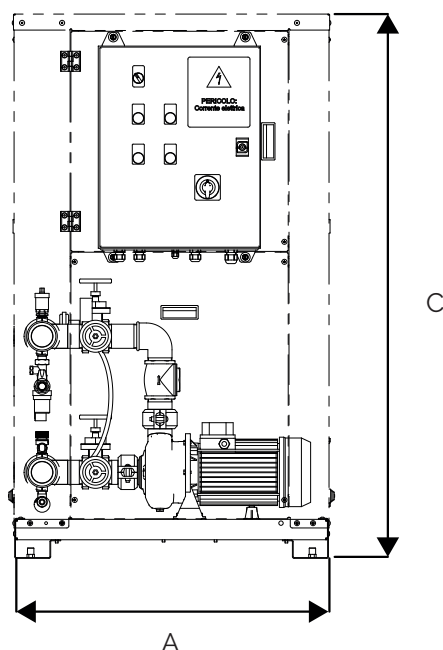
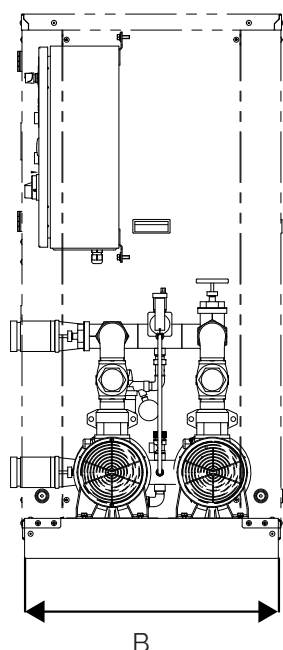
HP 2.0 hydronic system: components



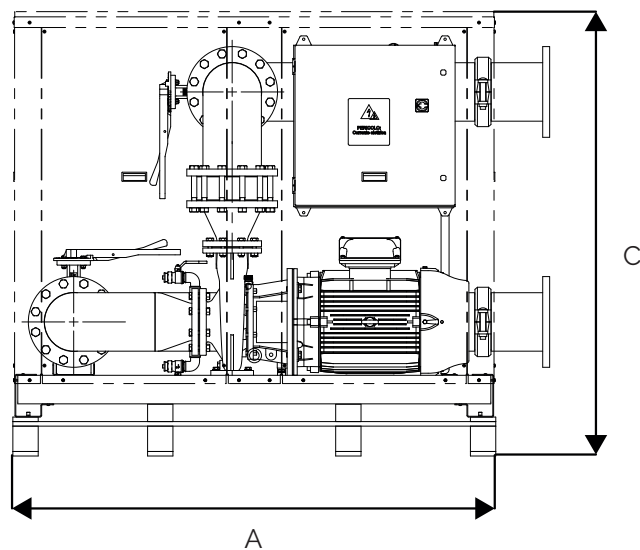
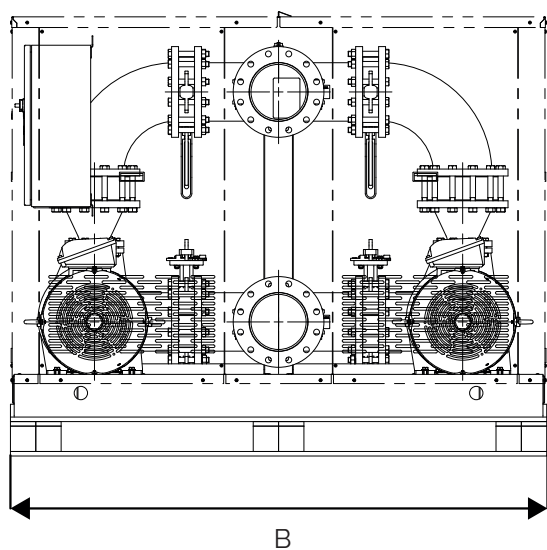
components

- | | |
|----|---|
| 1 | switchboard |
| 2 | circulation pump (version with double pump, optional) |
| 3 | removable bolted panel |
| 4 | hinged panel |
| 5 | shut-off valve |
| 6 | Water outlet |
| 7 | Water inlet |
| 8 | pressure transmitter (only version with inverter) |
| 9 | check valve (only version with double pump) |
| 10 | Ventilation grill |
| 11 | Safety valve |
| 12 | automatic filling unit |
| 13 | Base |
| 14 | automatic pressure relief |

HP 2.0 hydronic system: dimensions



TYPE A



TYPE B

Single pump

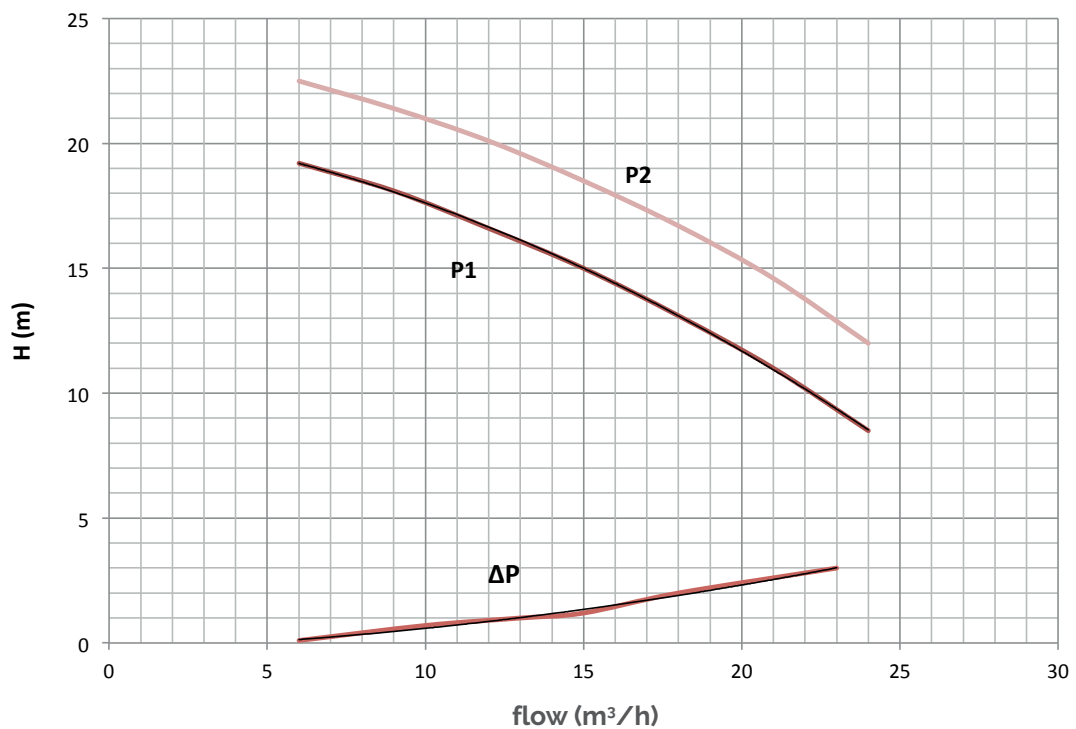
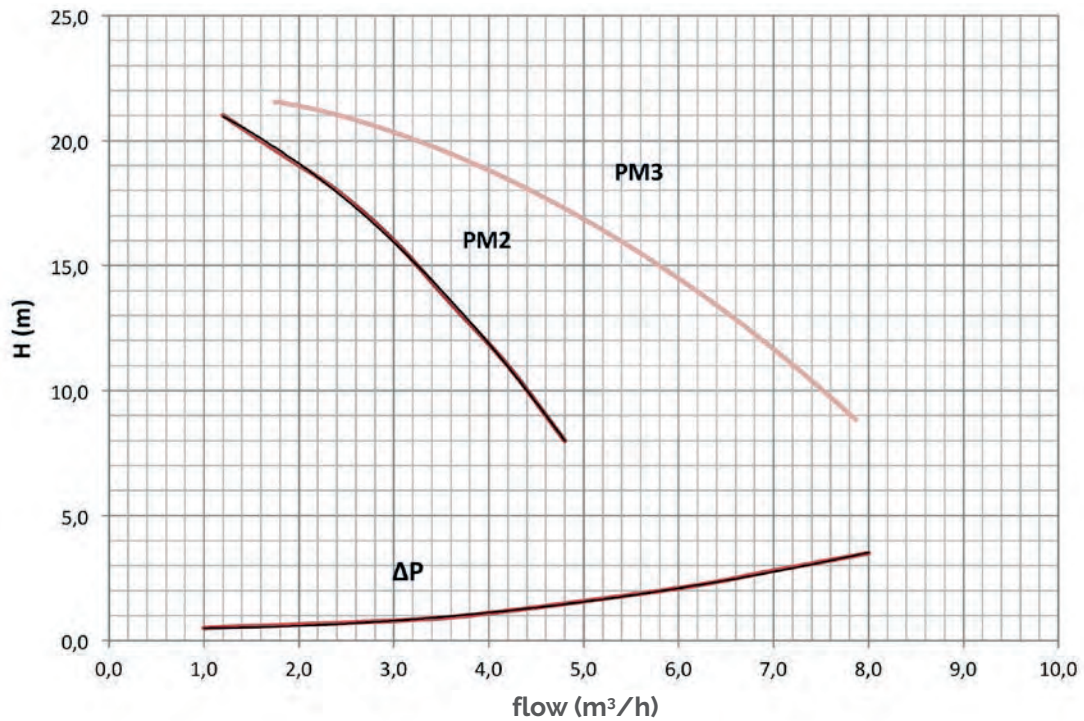
pump model	dimensions			type
	A mm	B mm	C mm	
PM2N PM3N P1N P2N P3N P4N P5N	650	790	1360	A
P6N P7N P8N P9N P10N P11N P12N P13N P14N P15N P16N P17N P18N	1116	790	1360	A
P19N P20N P21N	2000	1800	1500	B

Double pump

pump model	dimensions			type
	A mm	B mm	C mm	
PM2R PM3R P1R P2R P3R P4R P5R	650	790	1360	A
P6R P7R P8R P9R P10R P11R	1116	790	1360	A
P12R P13R P14R P15R P16R P17R P18R	1280	760	1600	A
P19R P20R P21R	2000	1800	1500	B

HP 2.0 Hydronic systems

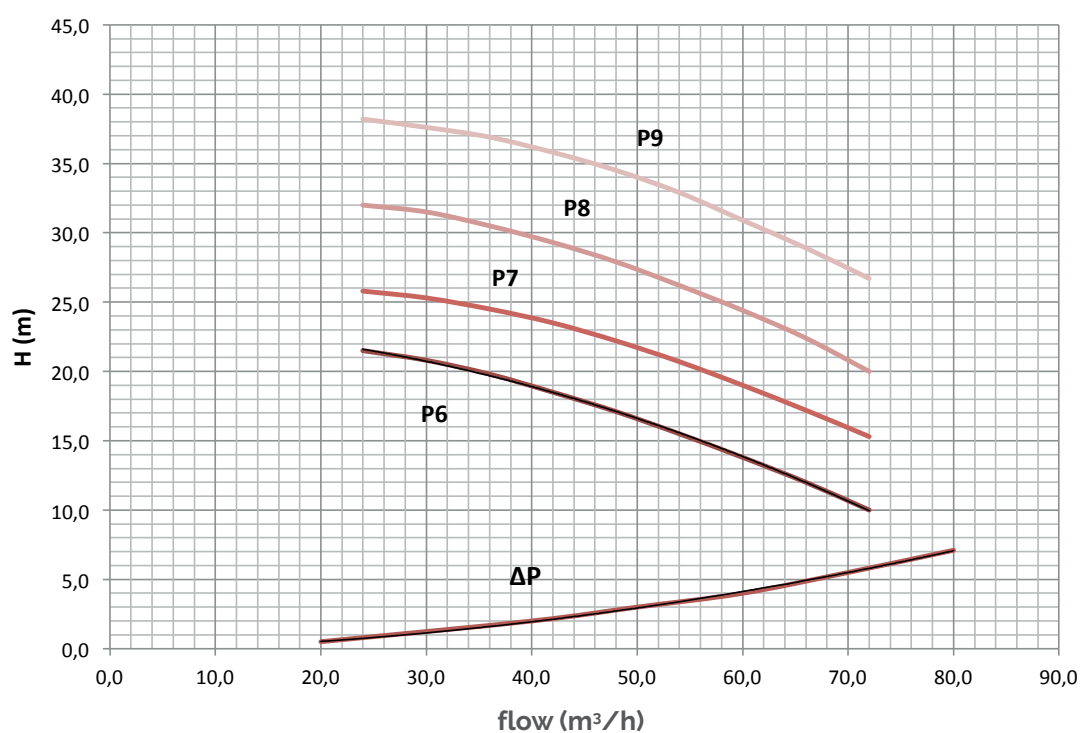
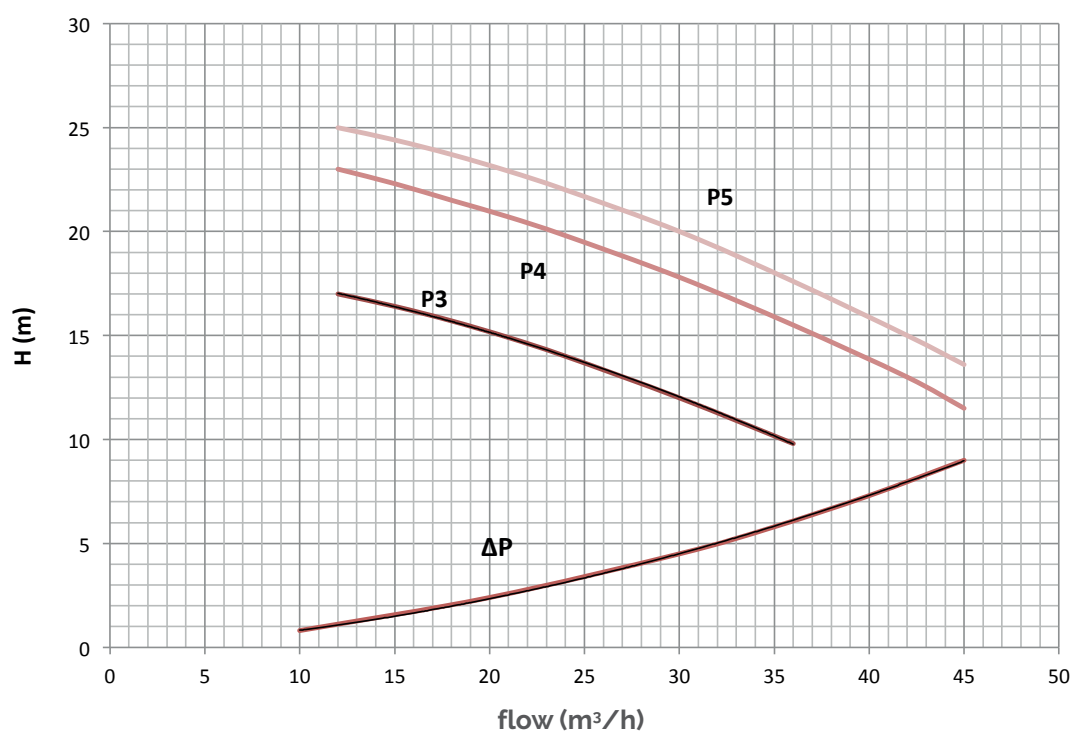
Prevalence and pressure loss curve



Pressure drop HP unit

HP 2.0 Hydronic systems

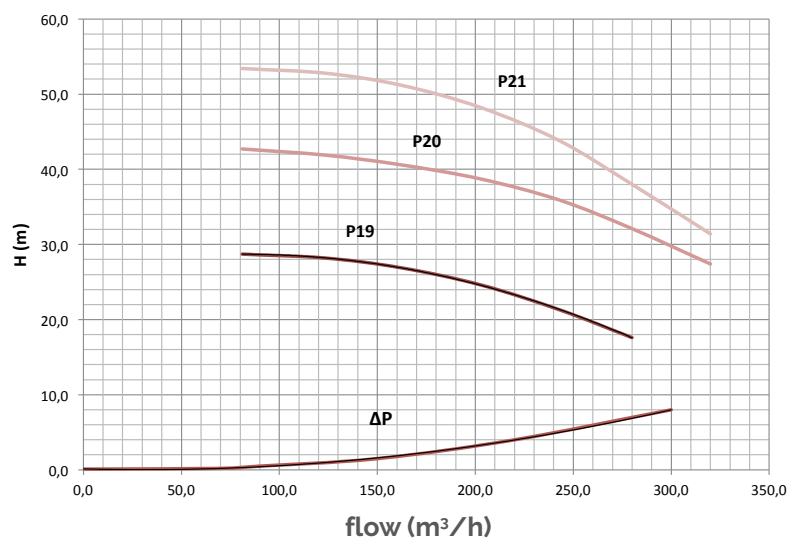
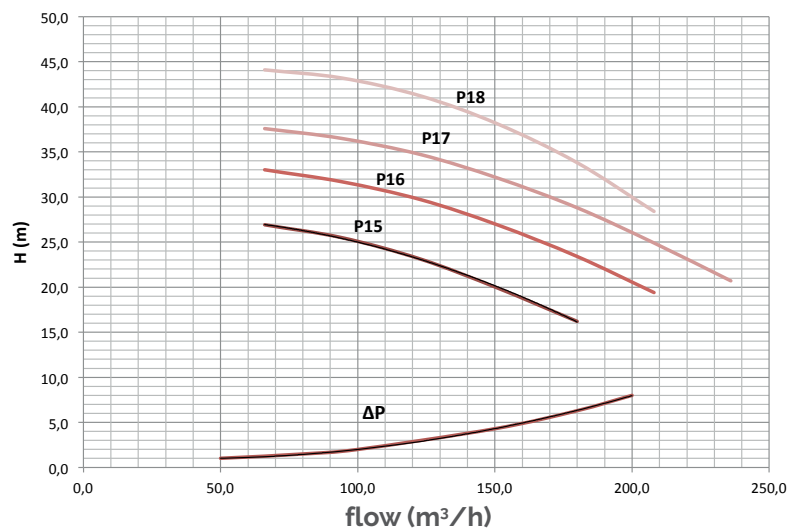
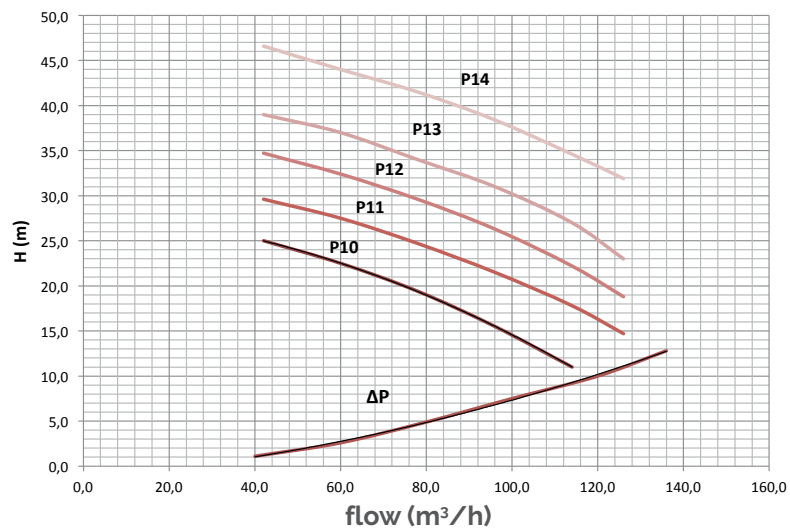
Prevalence and pressure loss curve



Pressure drop HP unit

HP 2.0 Hydronic systems

Prevalence and pressure loss curve



Pressure drop HP unit

HP 2.0 hydronic systems: technical information

pump model	connections inch	Wsb1 kg	Wsb2 kg	F.L.I. kW	F.L.A. (400/3/50) A	F.L.A. (230/1/50) A	Ve l	single pump		double pump	
								code	price	code	price
PM2	1 1/2			0,45		3,2	12	838060054X		838060055X	
PM3	1 1/2			0,45		3,2	12	838060057X		838060058X	
P1	2 1/2	89	118	1,1	2,5		12	838060129X		838060119X	
P2	2 1/2	90	119	1,5	3,2		12	838060130X		838060120X	
P3	2 1/2	91	121	1,5	3,4		12	838060131X		838060121X	
P4	2 1/2	93	125	2,2	4,8		12	838060132X		838060122X	
P5	2 1/2	96	131	3	5,6		12	838060133X		838060123X	
P6	3"	153	220	3	6,1		25	838060107X		838060193X	
P7	3"			4	8,7		25	838060108X		838060194X	
P8	3"	178	275	5,5	10,4		25	838060109X		838060195X	
P9	3"			7,5	13,6		25	838060110X		838060196X	
P10	3"	186	296	5,5	10,4		25	838060111X		838060197X	
P11	3"	190	304	7,5	13,6		25	838060112X		838060198X	
P12	3"			9,2	17,2		25	838060235X		838060236X	
P13	4"	224	398	11	21,3		25	838060183X		838060217X	
P14	4"	248	447	15	27,7		25	838060184X		838060218X	
P15	4"			11	20,2		25	838060227X		838060228X	
P16	4"	258	483	15	26,6		25	838060185X		838060219X	
P17	4"	270	504	18,5	33		25	838060186X		838060220X	
P18	4"	284	532	22	40,4		25	838060187X		838060221X	
P19	DN 200 UNI PN 16			18,5	33		50	838060229X		838060230X	
P20	DN 200 UNI PN 16			30	53,5		50	838060231X		838060232X	
P21	DN 200 UNI PN 16			37	65,6		50	838060233X		838060234X	

Pve (bar) 1,5 Ps (ba) 3 T min (°C) -10

Legend

Wsb1 Weight HPT with 1 pump (empty)
Wsb2 Weight HPT with 2 pumps (empty)
F.L.I. Max absorbed power
F.L.A. Max absorbed current
Ve capacity of expansion vessel
Pve Preload of expansion vessel
Ps Max operating pressure
Tmin Min temperature of the liquid

HP 2.0 hydronic systems: user conditions

Normal user conditions

The unit is designed to be connected with conditioning devices and coupled to a chiller which takes the heat from the device thanks to an increase in the thermal nominal standard (7-12°C). The average operating temperature is approximately 10°C and the operating pressure varies between 0.5 and 2.5 bar. The flow depends on the overall functioning of the installation – the cooling unit, indicated by the intersection between the characteristic curve of the pump and the characteristic curve of the installation. The HP 2.0 group is designed to function as a heat pump, but it can also function in relatively high temperatures, with a maximum of 50°C and with a max pressure of 3 bar. If the HP 2.0 is operative in an environment with low winter temperatures, it is recommended to use anti-freeze gel or resistance. Alternatively, we recommend the emptying of the hydraulic circuit, in order to prevent the water from being frozen.

Protective devices

The HP 2.0 is protected from possible functioning errors or incautious manoeuvres thanks to the installation of two devices: the differential pressure switch (optional) and the safety valve. A possible problem is a breakdown of the centrifugal pump, which causes the vector fluid to stop and eventually to freeze. The use of a differential pressure switch (supplied on demand), which blocks the compressor, prevents this inconvenient situation. The standard HP 2.0 is supplied with an expansion vessel and safety valve. In case of a wrong manoeuvre or other events which cause overpressure, the safety valve, calibrated at 3 bar, is automatically activated. The expansion vessel, appropriately preloaded, intervenes when there is an excessive dilation of the fluids in the installation.

HP 2.0 hydronic systems: Capacity of the circuit and the expansion vessel

Max water content in the device and dimensions of the expansion vessel

On chart 1 the max water volume in the hydraulic installation is indicated, compatible with the capacity of the expansion vessel and applicable to all HP 2.0 models. The safety valve also has a start-up value (3 bar for all models). If the effective water content in the device, as well as in the storage tank, exceeds the operating conditions in the chart, another/second expansion vessel should be installed to take the added water volume.

Tav. 1

Pump model	Hydraulic height	m	15	10
	Preload of the expansion vessel	bar	1,80	1,50
PM2 PM3 P1 P2 P3 P4 P5	Circuit's max water content (1)	l	492	615
	Circuit's max water content (2)	l	315	394
P6 - P18	Circuit's max water content (1)	l	984	1230
	Circuit's max water content (2)	l	630	788
P19 - P21	Circuit's max water content (1)	l	1968	2460
	Circuit's max water content (2)	l	1260	1576

Note: the expansion vessel is optional and should be ordered separately.

Operative conditions

- (1) cooling
Min temp of fluid = 4°C
Max temp of fluid = 40°C
- (2) heating (heat pump)
Min temp of fluid = 4°C
Max temp of fluid = 50°C

Tav. 2

Water/ glycol mix.	Water temperature		Correction factors	Reference value
	max °C	min °C		
10%	40	-2	0.507	(1)
10%	5	-2	0.686	(2)
20%	40	-4	0.434	(1)
20%	50	-4	0.604	(2)
30%	40	-6	0.393	(1)
30%	50	-6	0.555	(2)

Hydronic systems

HP 2.0 preload of the expansion vessel

The expansion vessel, of all models, is preloaded with a standard value of 1.5 bar.
The value has to be adapted though to the height H of the device.

The formula used to calculate the preload value of the expansion vessel is:

$$P = (H / 10.2) + 0.3$$

Legend

H: height of the device in meters

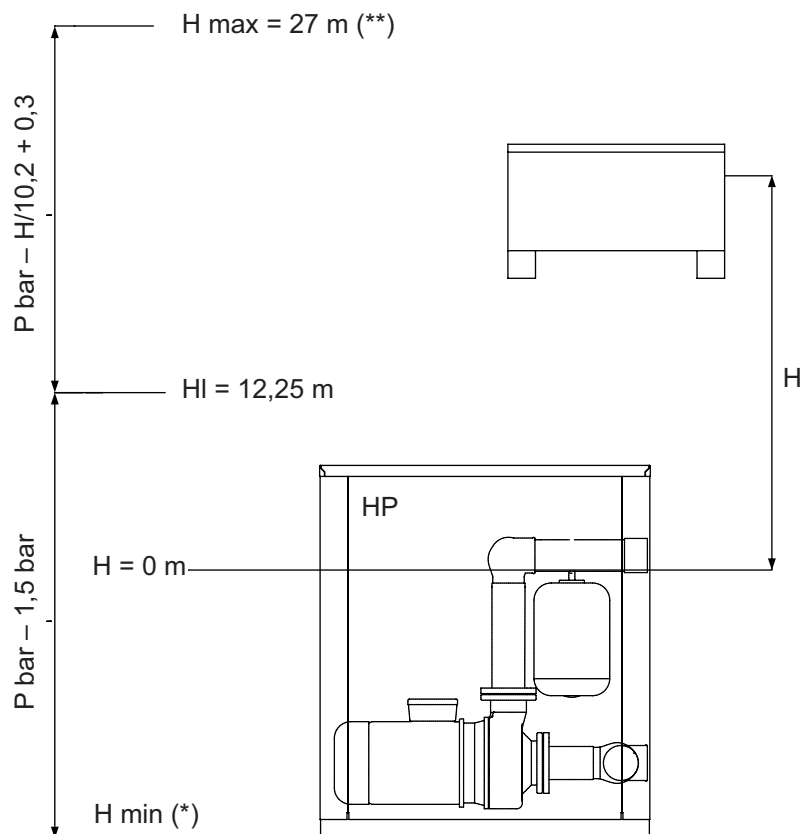
P: preload of the expansion vessel in bar

Should the preload value be less than the standard value, no intervention has to be carried out. This means that an installation with a height of less than 12.25 meters has a preload of 1.5 bar. In this case the operator should only check the pressure value and not intervene.

Example

We take a height H of 15.3. The preload value is:

$$P = (15.3 / 10.2) + 0.3 = 1.8 \text{ bar}$$



H: height of the device

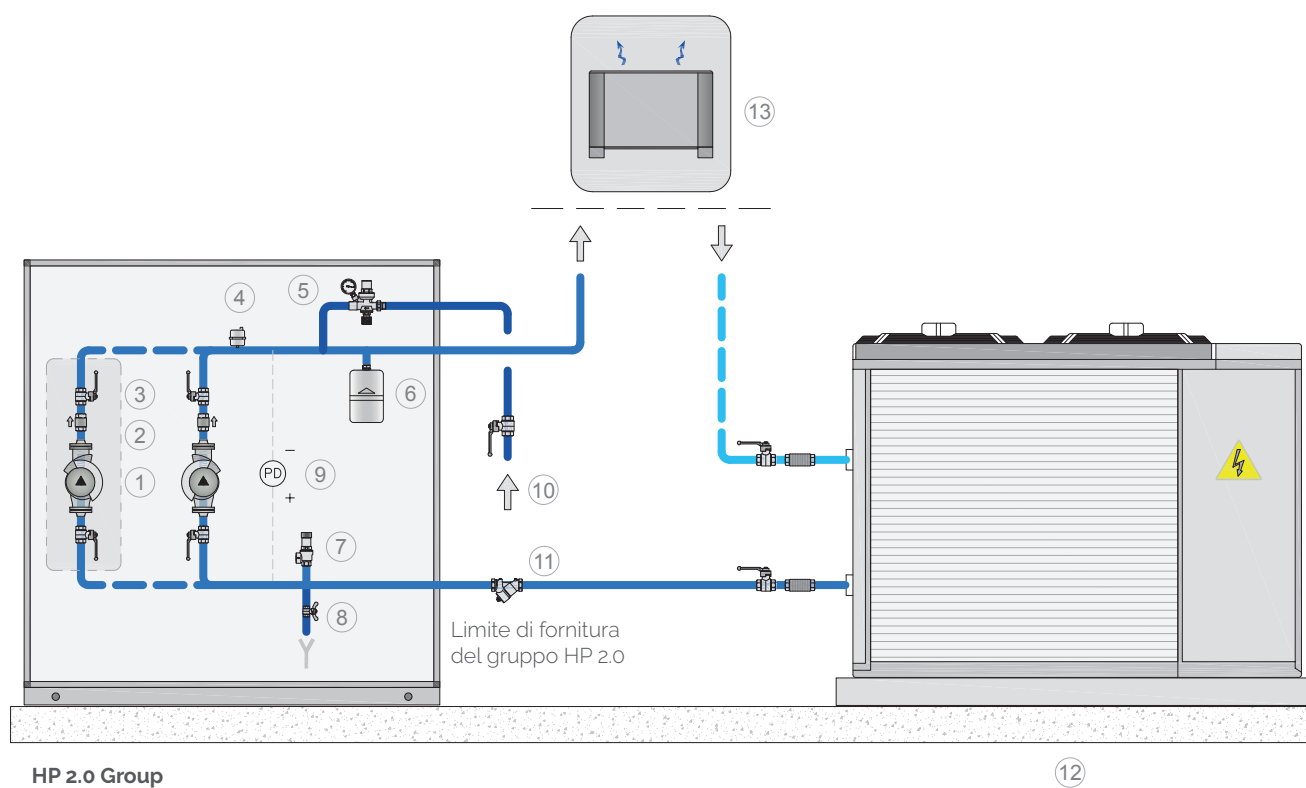
Hmax: max height of the device

H1: height when the preload of the expansion vessel is the same as the standard value

* verify that the lowest point of the device can support the pressure

** verify that the highest point of the device does not exceed the max height H max=27 m.

HP 2.0 hydronic systems: hydraulic chart



Legend

1. Circulator
2. Shut-off valve (only version with 2 pumps)
3. on-off valve
4. deaerator
5. automatic filling unit
6. expansion vessel (optional)
7. safety valve
8. outlet
9. differential pressure switch (optional)
10. inlet returning fluid
11. Y filter. Optional, supplied non-assembled
12. chiller
13. device

HP 2.0 hydronic system: accessories

Inverter

Every pump can be managed with an inverter. The units equipped with an inverter have a pressure sensor, 0-10 bar which communicates with the inverter through a 4-20 mA signal. All regulation parameters are preloaded during the testing phase in the factory. The user has only to select the set point value for the wanted pressure.

Kit with electric anti-freeze resistor

The kit is installed in the inside of the tank and has an electric resistor of 1300 W for tanks up to 1000l and two electric resistors of 1300 W for tanks with a larger capacity. The kit also contains a anti-freeze bithermostat (-35/+35°C) and is assembled, cabled and tested before delivery.

Timer for alternative pumps

In the version with double pump, the timer can be used to manage the shift between the pumps in intervals of a determined time. Without the timer, the shift between pumps is carried out with every start-up.

Attention

If the system is active 24/7 the shift between pumps is not guaranteed by the standard group. In this case it is recommended to use a timer.

Differential pressure switch

This is a safety measure which makes it possible to verify the flow in the system. The device generates an alarm signal but does not automatically stop the device.

Soundproof covering

Soundproof covering is available and significantly decreases the sound emission by the device.

Anti-vibration feet

A set of anti-vibration feet which can be put on the supportive points of the device. They are supplied non-assembled.

Filter

Mesh filter, with 1000 micron holes, to be attached to the outside of the unit in order to protect the pump from any impurities of the devices.

Balancing valve

The valve is to be attached to the outside in order to regulate the flow in the circuit. It is especially recommended in devices with a variable pressure drop.

Packaging in a wooden case

Protective packaging adapted to risky transport and long distances.

Package for overseas transport

Extra packaging for maritime transport, with a wooden case in accordance with the international standards ISPM-15, a protective bag and hygrosopic salt.

Kit to transform couplings

The kit contains two joints which transform the Victaulic coupling of the HP 2.0 unit in UNI-EN PN 16 flanged couplings. There is a version with the same diameter as the couplings and another version with a bigger diameter available.



Transformation to a flanged coupling

Original coupling Victaulic	Transformed coupling UNI-EN PN 16	Code	price
1 1/2"	DN40	838081247X	
	DN50	838081248X	
2"	DN50	838081249X	
	DN65	38081250X	
2 1/2"	DN65	838081251X	
	DN80	838081252X	
3"	DN80	38081253X	
	DN100	838081254X	
4"	DN100	838081255X	
	DN125	838081256X	

VKB hydronic systems



Tank insulated with anti-condensate elastomere



The VKB units are buffer storage tanks with accessories (without circulation pump) designed in order to significantly reduce the set-up time for the conditioning and cooling devices.

With all hydraulic components which are indispensable for the correct functioning of the hydraulic circuit for the distribution of chilled water. The components can be coupled with all kind of water coolers. The units consist of an insulated buffer tank, an expansion vessel, a safety valve, a deaerator, a fill/discharge valve and a manometer.

The VKB units are enveloped in a supporting structure in a varnished steel base and with varnished steel panels. They are designed to guarantee an easy inspection and maintenance of the components. The tank, which is hydraulically inserted between the cooling station and the fan-coils, makes the water content in the entire installation increase, by increasing the pause between the shutdown of the compressor and the next start-up. In this way, the number of start-ups is significantly reduced, which improves the life span and performance of the compressor. The broad range of storage tanks makes it possible to meet every requirement. Every unit is assembled in our factory and tested to guarantee our trustworthiness.

Available versions

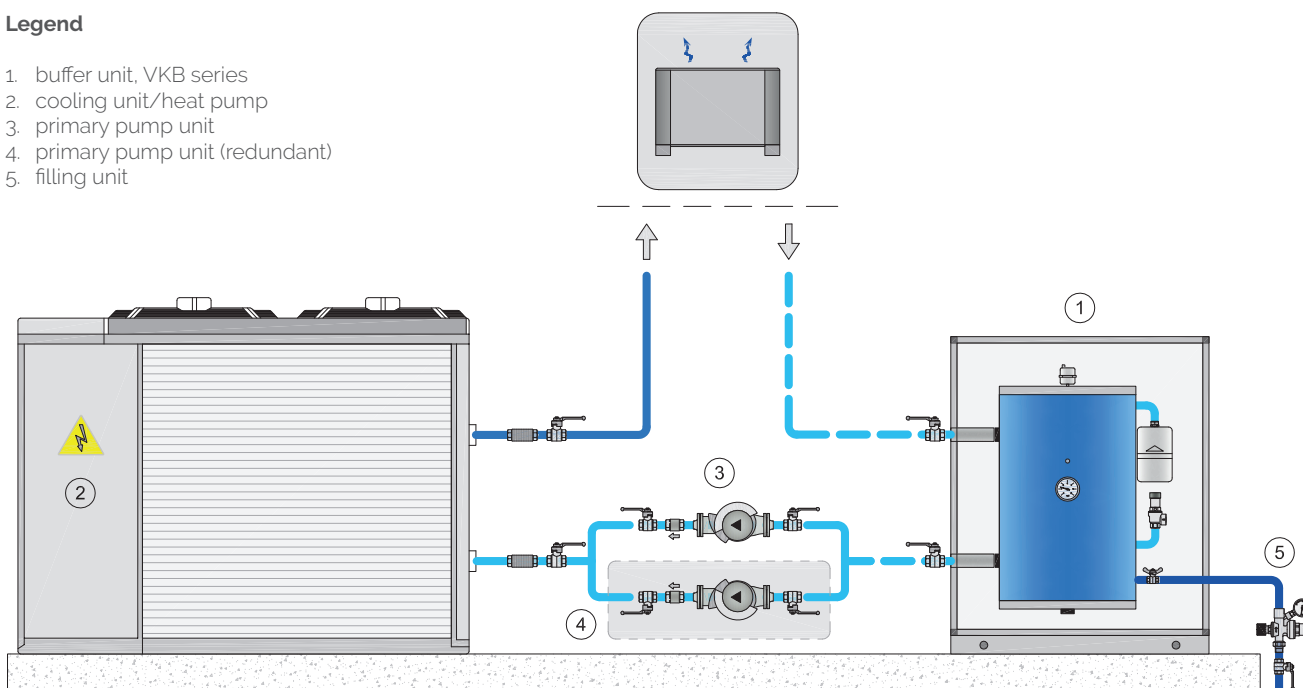
The VKB units are available with the following capacity: 200, 300, 500, 750, 1000 and 1500 liters.

Solutions with the VKB unit

Typical installation for conditioning devices. This makes it possible to optimize the functioning of the thermal source by stabilizing the return temperature in the cooling device.

Legend

1. buffer unit, VKB series
2. cooling unit/heat pump
3. primary pump unit
4. primary pump unit (redundant)
5. filling unit

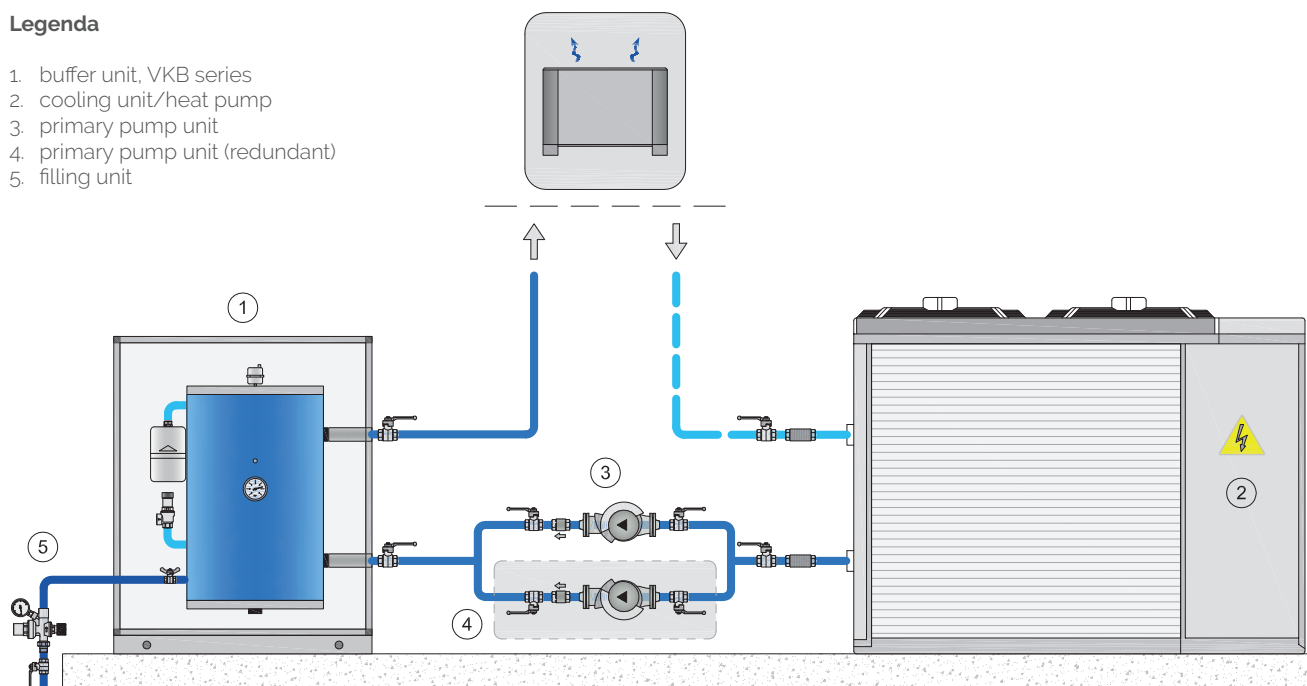


Solutions with the VKB unit

Typical installation for devices for industrial processes, in particular when a very accurate temperature control is needed.

Legenda

1. buffer unit, VKB series
2. cooling unit/heat pump
3. primary pump unit
4. primary pump unit (redundant)
5. filling unit



VKB hydronic systems

VKB Description of the main components

1. Storage tank

The storage tank is made of varnished carbon steel plates and is insulated with closed cell elastomere. This type of insulation, refinished in thick PVC, guarantees an excellent resistance to condensate formation.

2. Fill up valve

This valve refills the hydraulic circuit in the demand peak phase as well as during normal functioning.

3. Safety valve

Calibrated at 3 bar and with canalised discharge. It protects the unit from possible overpressure.

4. Automatic valve for air discharge

Placed on the upper part of the unit, it discharges air from the unit.

5. Discharge valve

It discharges air from the lowest point of the tank to make drainage possible.

6. Supporting structure

The base is made of thick steel plates varnished with RAL 7042. The frame is made from aluminium and the sides of galvanized and varnished steel plates which are resistant to atmospheric agents. All this makes it possible for the VKB to be installed in non-technical spaces and in places exposed to atmospheric agents.

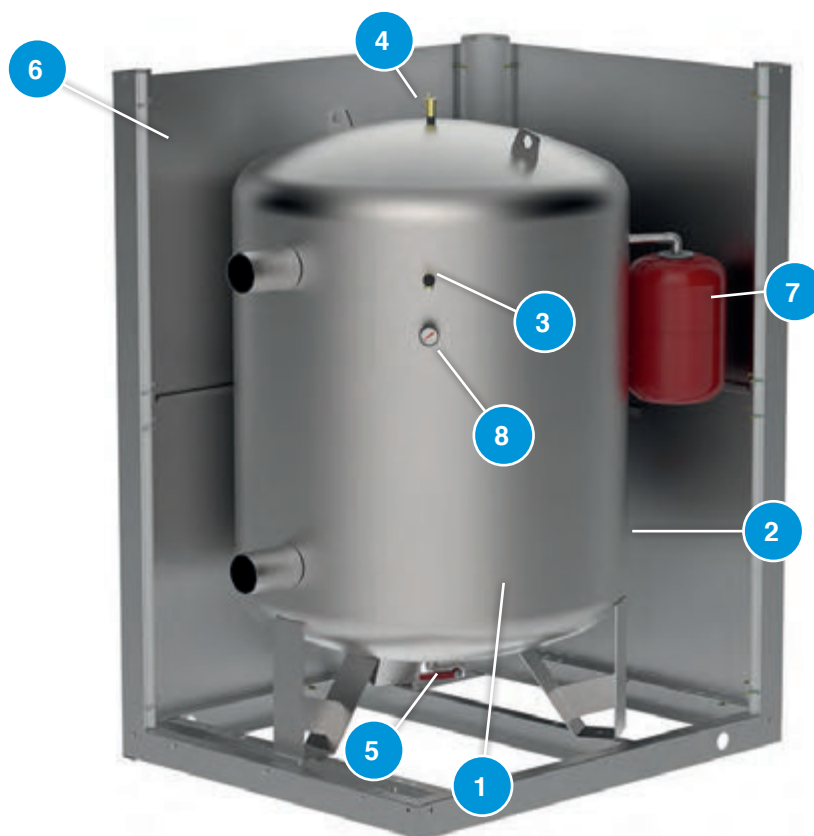
7. Expansion vessel

Supplied with a membrane, preloaded nitrogen and with dimensions that can absorb varying volumes of liquid derived from the various temperatures.

8. Manometer

This device is placed on the tank and indicates the internal pressure.

components	
1	storage tank
2	fill-up valve
3	safety valve
4	automatic discharge valve
5	discharge
6	supporting structure
7	expansion vessel
8	manometer

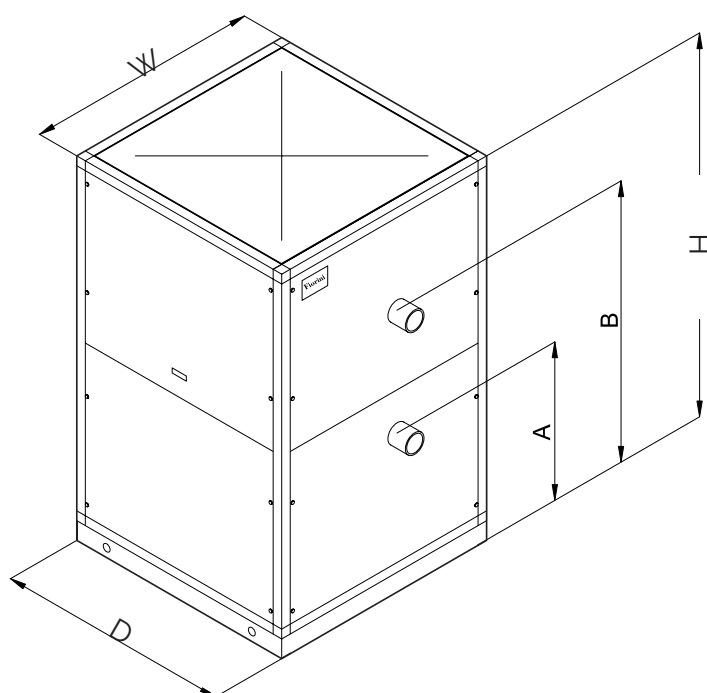


VKB

hydronic systems

capacity l	Capacity of the expansion vessel l	Calibration of the expansion vessel bar	Calibration of the discharge valve bar	Hydraulic couplings inch	H mm	W mm	D mm	A mm	B mm
200	8	1.5	3	2"	1576	684	684	230	990
300	8	1.5	3	2"	1950	1200	1200	450	1320
500	12	1.5	3	3"	1950	1200	1200	490	1540
750	24	1.5	3	3"	1950	1200	1200	490	1540
1000	24	1.5	3	4"	1950	1200	1450	640	1460
1500	2x24	1.5	3	4"	1950	1200	1450	640	1460

capacity l	codice	prezzo
200	838050011	
300	838050012	
500	838050013	
750	838050014	
1000	838050015	
1500	838050016	



VKB

hydronic systems

Normal user conditions

The unit is designed to be connected with conditioning devices and coupled to a chiller which takes the heat from the device thanks to an increase in the thermal nominal standard (7-12°C). The average operating temperature is approximately 10°C and the operating pressure varies between 0.5 and 2.5 bar. The flow depends on the overall functioning of the installation – the cooling unit, indicated by the intersection between the characteristic curve of the pump and the characteristic curve of the installation. The VKB group is designed to function as a heat pump, but it can also function in relatively high temperatures, with a maximum of 50°C and with a max pressure of 3 bar. If the VKB is operative in an environment with low winter temperatures, it is recommended to use anti-freeze gel or resistance. Alternatively, we recommend the emptying of the hydraulic circuit, in order to prevent the water from being frozen.

Protective devices

The VKB is protected from possible functioning errors thanks to the installation of two devices, also in the standard version: the expansion vessel and the safety valve. The expansion vessel, preloaded, intervenes when there is an excessive dilation of the fluid in the installation. In case of a wrong manoeuvre or other events which cause overpressure, the safety valve, calibrated at 3 bar, is automatically activated.

Purpose

This type of buffer tank is designed for medium-sized cooling systems. It is installed between a refrigerator and the device and can be used in installation in places exposed to bad weather.

Operating load

The operating load of the tank is determined on the grounds of the external weather conditions and the specific requirements of the client. Those are taken in consideration during the design phase of the unit.





Hot water systems

Contents

Treatments, user conditions, regulation	96
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Domestic hot water	102
Storage tanks	184
Accessories	237



Hot water systems

A broad range of options which make it possible to efficiently produce Domestic Hot Water for both domestic and professional use and to manage water for technical use in heating systems.

We have numerous series of products dedicated to the production and storage of hot water. Those products meet people's needs and bring comfort to users, in individual housing, as well as public and private residential structures, the tertiary sector and the industrial sector. Our product lines consist of DHW systems, hot water storage tanks, thermal solar power systems and gas water heaters which are designed to efficiently operate in all different applications.

Our products are well-thought-out. We try to come up with new conceptual solutions and to think over the materials we use. In this way we aim for:

- high performance
- a minimum heat loss
- high quality and a long life span

Energy labels

All products for hot water production are provided with an energy label in accordance with the CE directive and the specific regulations for the devices. The label certifies the energy efficiency class which helps the professionals and the users consciously choose the most efficient solution to their requirements.

Special materials and internal treatment of the tanks

We offer products with a finishing touch adapted to every possible application: high quality stainless steel and glass lining (enamel vitrified at a temperature of more than 800°C) which ensure a maximum hygiene and life span even when the water tempera-

ture is elevated. Moreover there is Bluetech, an innovative and efficient treatment with high elasticity. It is made from thermosetting resins and ensures a 100 % cleanliness of water for domestic use.

Insulation

The following types of insulation are available:

- rigid polyurethane foam, high density, thermal insulation, conductivity coefficient of 0.023 W/mK
- Thick flexible polyurethane, also for large tanks (up to 10.000 litres) or for special projects
- Other materials, on the client's request

Protective equipment

There are sets with protective equipment which guarantee the safety and correct use of the products, such as protection against overpressure, safety valves, expansion vessels, protection against water hammering, antifreeze protection, cathodic protection against corrosion, etc... If necessary, our clients can solicit the help of the consultancy service provided by our staff during the design and selection phase. They will help you look for the perfect solution to your problem and will send you the information needed to properly and efficiently manage the product and/or the device.

You can find more details in the following part of the brochure.



Tank treatments

Bluetech

Bluetech is an innovative treatment, which is obtained from thermo-setting resins. It offers a lot of advantages in comparison to traditional treatments:

- excellent resistance and stability under high temperature
- excellent adhesion to the carbonized steel and high elasticity
- hermetically closed
- effective barrier against cathodic delamination
- long life span

It is specifically designed for coating the inside of our water heaters and Domestic Hot Water tanks (DHW) and can be used with drinking water. (Bluetech is conform with DM 174/2004 and therefore suitable for use with drinking water as prescribed by DLgs 31/2001 (att.dir. 98/83/CE).

Properties

The following data apply to a coating on 3 mm thick carbonized steel sheets as in the standard conditions.

Application	Electrostatic
Firing	20 min/200°C
Film thickness	100 ÷ 140 µm
Look	Smooth / Glossy
Pencil hardness	H ÷ 2 H
Color	Blue RAL 5002

Stainless steel

In some cases when chlorides are present, even stainless steel can be damaged due to corrosion. In order to eliminate this risk our water heaters are made with special austenitic steel, such as AISI 316L (low carbon) and for more aggressive water, AISI 316 Ti (with Titanium). We use AISI 316L .4404 EN 10088-2 steel for installations with drinking water (suitable for drinking water in accordance with DM 174/2004).

Glass-lining

The solution guarantees protection against corrosion. The enamel is vitrified, by firing it at more than 800°C. The enamel is different from other kinds, i.e. the chemical composition is inorganic (no carbon) and there are chemical links. Glass-lining is only applied to tanks of a medium capacity. The enamel is inorganic (DIN 4753.3) and therefore suitable for use with drinking water (DM 174/2004)

Rigid insulation covered in PVC

The insulation is made of rigid polyurethane (which does not contain fluorocarbons), has a density of 40 kg/m³ and a thickness of 50 to 70 mm. The insulation is directly attached to the storage tank with $\lambda = 0.023$ W/m °C (in accordance with DPR 412/93 which implements L10/91). When used in systems with chilled water, it not only ensures thermal insulation, but also anti-condensate protection.

Soft insulation covered in PVC

The insulation is made of thick, soft polyurethane with a conductivity coefficient of $\lambda = 0,0456$ W/m °C and is covered in coloured pvc. It ensures thermal insulation and limits energy loss.



User conditions

If you want to properly use the storage tanks and prevent malfunctions or damage, you should respect the following limitations:

- a) the storage tank has to be equipped with an efficient cathodic protection.
- b) The quality requirements for drinking and food-grade water has to be in accordance with DLgs 31/01 (att. Dir 98/83/CE) and in particular they should respect the following parameters.

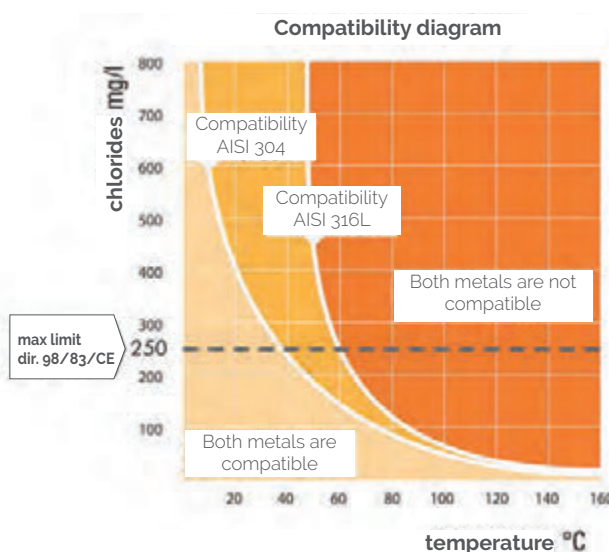
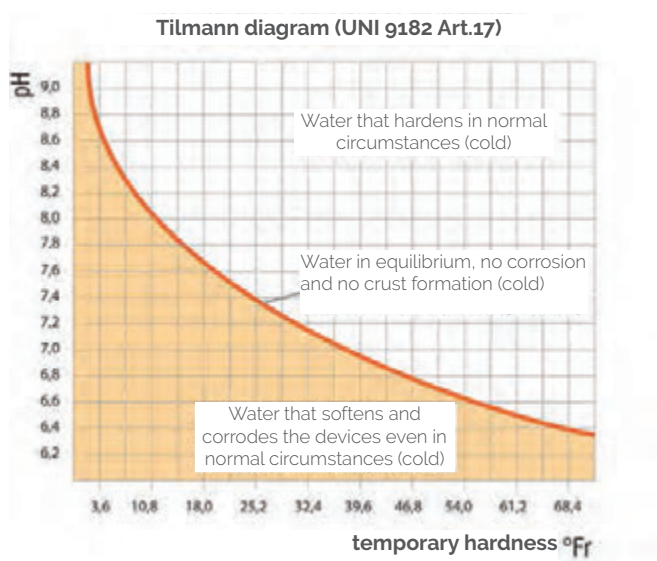
Hydrogen-Ion concentration pH (*)	6,5 ÷ 9,5
Electrical conductivity $\mu\text{S cm}^{-1}$ (a 20°C)	< 2500
Chlorides mg/L Cl	< 250
Sulphates mg/L SO_4	< 250
Total hardness °Fr (*)	required min. 15

(*) The water is treated according to the Tillmann diagram to satisfy the hygienic requirements and to ensure an equilibrium (no crust formation, no hardness). The prescribed treatments (UNI 8065) cannot hinder the use of the water for food preparation and have to be carried out with the right devices. In case of softening or desalination the total hardness of the treated water cannot be less than 15°Fr (DM 443/90)

- c) The max operating temperature should always be respected. It should be kept in mind that the water aggressiveness soars when the temperature increases, especially above 60°C.

Water and usage

The different types of water, hard water and soft water, are classified on the basis of their Ph value and their temporary hardness. The compatibility of AISI 304/316L steel is based on the presence of chlorides and the water temperature.



Available protection equipment

Overpressure protection

To prevent undesirable effects caused by overpressure, it is recommended to use protective devices, such as a safety valve. Since water is incompressible and it expands when heated, an adequate expansion system should be installed which can prevent a rupture in the water heater. We suggest you respect the ISPEL norms (collection R-Cap R.1A) which state that expansion systems in heaters with water for consumption can be created with a pressure relieve valve, a counterweight or a spring with a diameter calculated with the following formula:

$$d \geq \sqrt{\frac{V}{5}}$$

V = volume of the heater in litres
D = diameter of the valve orifice (minimum 15 mm)

N.B. The valve's calibration pressure should not exceed the max operating pressure of the water heater.

Expansion vessel. To prevent a continuous drainage by the safety valve, chalk formation and strain on the water heater, you should also provide a closed expansion vessel with a non-toxic valve (for food-grade water). The volume should not exceed 10 % of the storage tank's volume.

Device to soften water hammering.

When the water flow is stopped brusquely or suddenly, that can cause "pressure waves", which can damage or rupture the device. Because of this, all systems for chilled and hot water distribution have to be equipped with a device to soften water hammering, either mechanical (with a spring) or even better hydro pneumatic (permanent or resettable air cushion) (UNI 9182 Art. 15).

Antifreeze protection.

If the storage tank is exposed to temperatures below zero for extended periods, the device should be protected with heating devices or a continuous flow which makes sure that the water does not stay still. (UNI 9182 Art. 20.4.3.)

Electrical protection

To protect the users against possible fault currents, the metallic mass should be properly floor-grounded. (as by law L46/90)

Cathodic Protection against corrosion

Corrosion is an electro-chemical phenomenon which especially affects water heaters because in water tanks which are constantly refilled the softness of water increases very much when the temperature increases (especially above 60°C). Therefore, it is recommended to provide 'cathodic protection'.

Magnesium Anodes

In order to make the storage tanks cathodically protected, one or more sacrificial magnesium anodes are supplied. Those protect the structure against corrosion. Our anodes are produced in a particular Magnesium alloy of the AZ 63 type and guarantee physiological innocuousness, electrode potential (≤ -0.9 V) and loss of mass ($\leq 30 \text{ g} \cdot \text{m}^{-2} \cdot \text{d}^{-1}$) in accordance with the DIN 4753-6 norms.

Correx® Impressed Current Anode

Permanent cathodic protection can be realized with a Correx Impressed Current Anode. Since the Correx is not subject to corrosion, it is strongly advised to use it for the protection of ZANI tanks and heaters that work with highly aggressive water (even those which are already installed). An electrical socket near the water heater is required and, in case of a power outage, the current should be re-engaged and sustained. Cables cannot be tampered with or modified. An instruction manual is supplied with the product.



Regulation and precaution

Below the suggestions and information are described on how to properly manage and use the devices in accordance with the 46/90 art. 7 law.

Hot water storage

Heat generators used for the production of hot water for hygienic and domestic use by various users in a residential environment have to have particular dimensions in accordance with the UNI 9182 technical norms. They have to be equipped with a hot water storage tank with an adequate capacity (DPR 412/93 Art. 5.7.)

Water for food preparation

The quality requirements for drinking water used for food preparation have to be in accordance with D Lgs 31/01 (Dir. 98/83/CE)

Tanks

The tanks for fuel and diesel for thermal installations have to be in accordance with the norms emitted by the Department of the Interior 28-04-05.

Couplings

The couplings between the piping and the devices (water heater, storage tank...) have to be equipped with flanges or with a three piece union coupling (UNI 9182 Art. 20.3.7)

Storage tank dimensions

(UNI 9182 Art. 9.3.1) The dimensions have to be considered based on: the total amount of water during the peak period, the duration of the pre-heating period, the temperature of the cold water, the distributed hot water and the stored hot water.

Separate generators

The central production of thermal energy for the air conditioning of places and the production of hot water for hygienic and domestic use by various users have to be executed by separate heat exchangers (DPR 412/93 Art. 5.6)

Floor-grounded

Electrical devices have to be floor-grounded and have to be equipped with differential circuit breakers or an equivalent protective system (L. 46/90 Art. 7.2)

Anti-legionella protection

To eliminate the presence of the legionella bacterium the World Health Organization has suggested as follows (WHO Bulletin OMS, vol.681990)

- heat the water with a storage temperature of 60°C
- ensure that the water never reaches a temperature below 50°C.

Antifreeze protection

Because frozen water has a greater volume, the internal pressure in the closed storage tanks would cause damage and ruptures. In order to prevent this possibility the device has to be produced and managed in such a way that the temperature never hits below 0°C.

Recirculation

In case of central distribution, a recirculation system has to be provided. In this way the water is continuously in movement and the consequences of heat loss in case of stagnation are prevented.

Distribution temperature

The heat exchangers for the central production of hot water for hygienic and domestic use by various users in a residential setting have to be designed and managed in a way to ensure that the water temperature, measured at the entry point of the distribution system, does not go above 48°C, with a 5°C tolerance. (DPR 412/93 Art. 5.7)

Storage temperature

(UNI 9182 – appendix L) Even though the norms recommend storage temperatures of up to 65°C, we advise not to exceed 60°C in order to save energy, prevent chalk formation and reduce electrochemical corrosion. In order to not exceed the desired temperature, the boiler has to have the right dimensions. Moreover, (appendix U) it is forbidden to send water with a temperature over 60°C through galvanized steel tubes.

Energy label

All our products for heating and DHW production are in accordance with the requirements for the reduction of energy consumptions (Ecodesign, 2009/125/CE).

These requirements help the European Union reach its objectives determined in the 20-20-20 plan. This plan aims to lower the CO₂ emissions by 20%, to increase the use of renewable energy by 20% and to increase the energy efficiency by 20% by 2020.

Our products are supplied (as prescribed) with an energy label and a technical chart which highlight the energy performance and efficiency class in a clear and transparent way.

Thanks to this label the consumer and the professional can look for the solution with the best performance and adapted to their own needs.

The products and systems which are supplied with an energy label are:

- generators for heating and DHW production with power of up to 70kW
- water heaters and hot water storage tanks with a temperature above 50°C.

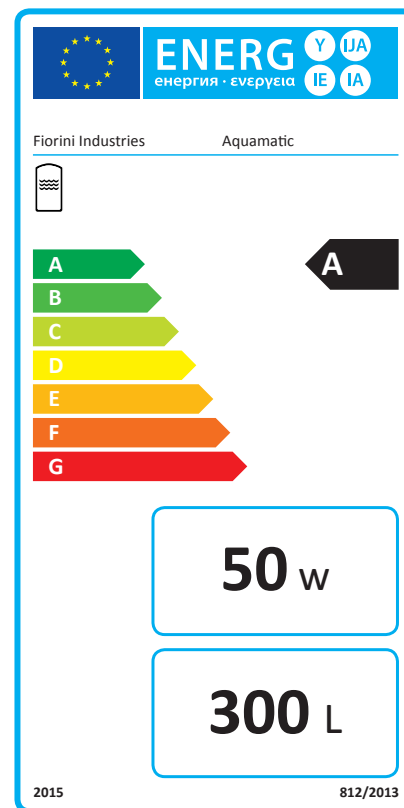
However, products which do not have to be supplied with an energy label, are also designed and produced following numerous criteria to meet the efficiency requirements and to save energy.

Product and system label

The 'product' energy label indicates the performance of the products in terms of consumption, while the 'system' energy label indicates the efficiency specifications of the heating or conditioning system. The energy classes are expressed on a scale from A to G and have to be supplied with every single product. The manufacturer has to make sure that the label is clearly visible.

The energy label on our products carry the following information:

- I. name and trademark of the company
- II. model identification
- III. reference to the heating or DHW production function
- IV. efficiency class
- V. nominal thermal power of the device and/or dispersion (based on the kind of product)
- VI. sound power in dB
- VII. Functioning during the hours when the device is not activated.



Notes

Hot water

Domestic hot water

Contents

DHW inertial tanks

FLEXY	104
FLEXY BLUE	106
FLEXY INOX	108

Water heater with fixed heat exchanger

SMART 1	110
SMART 2	114
SMART 2 SOLAR KIT	118
SMART HP	122
SMART INOX 1	126
SMART INOX 2	130

Water heater with extractible heat exchanger

BOIL	134
BOIL BLUE	136
BOIL INOX	138
BOIL CUSTOM	142

Fast production unit

AFK, AFK-INOX	148
AFW, AFW-INOX	150
AFK-HD	158

Instantaneous production unit

SET 2.0 pensile	162
SET 2.0 a Basamento	172

Inertial tanks for Domestic Hot Water

FLEXY

The FLEXY gamma consists of inertial tanks for domestic hot water with several capacities, from 200 up to 1000 liters. They are equipped with very powerful rigid or flexible insulation, externally covered with PVC and provided with a magnesium anode for protection against galvanic currents and an inspection flange which makes access for control or maintenance easy. The tanks up to 500 litres are equipped with adjustable feet (easier to place and more stable).

Features

✓ **Material:** ST 235 JR carbon steel

✓ **Treatment for internal protection**

Inorganic glass lining in accordance with DIN 4753.3

✓ **Insulation**

200 to 300 litres: high-density rigid polyurethane with a thickness of 75 mm

500 to 1000 litres: flexible polyurethane with a thickness of 100 mm, removable (easier installation in a smaller space)

✓ **Optional accessories (on request)**

Thermometer, thermostat, impressed current electronic anode, electrical resistance, external plate heat exchanger kit.

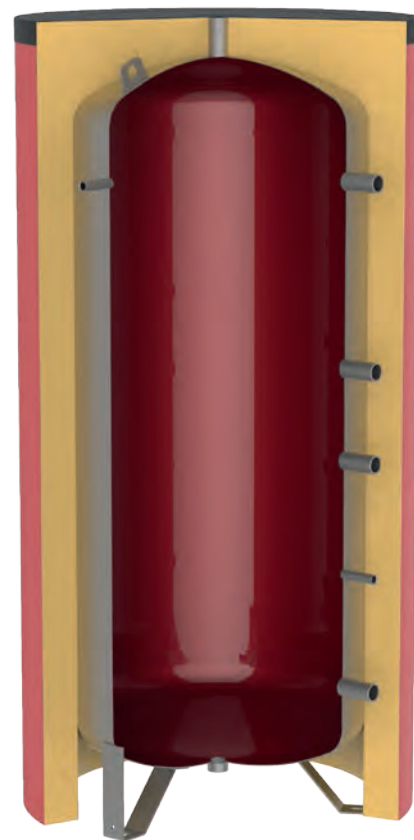
✓ **Supplied accessories**

Adjustable feet for tanks up to 500l

Safety valve

Thermometer

N1 magnesium sacrificial anode for tanks up to 300l and N2 anode for larger tanks

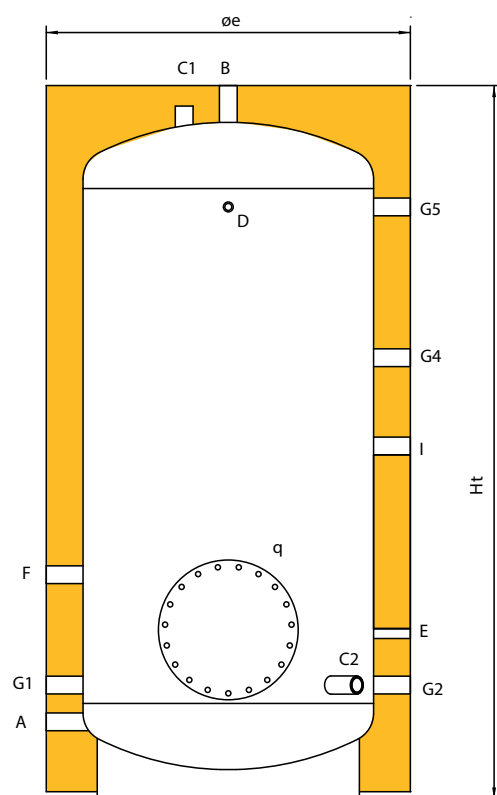


capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
200	817060015X*		C	75x75x125	90,5
300	817060016X*		C	75x75x150	100,5
500	817060017X*		D	80x80x209	134,292
800	817060018X*			105x105x214	260,792
1000	817060019X*			105x105x245	296,264
1500	817060020X*			115x115x283	411,784

*can be coupled with the Boil custom (pag 142)

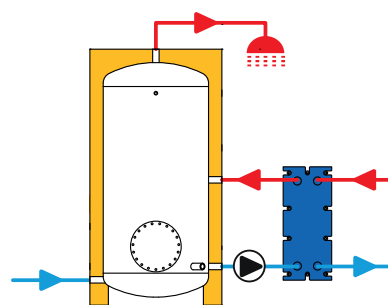
max. temperature	max. pressure
95°C	10 bar

Inertial tanks for Domestic Hot Water FLEXY



Legend couplings

A	domestic water inlet
B	domestic water outlet
C1	anode
C2	anode
D	thermometer
E	thermostat
F	recirculation
G1	auxiliary
G2	auxiliary
G4	auxiliary
G5	auxiliary
I	electrical resistor
q	inspection hole



Coupling chart

capacity l	A inch	B inch	C1 inch	C2 inch	D inch	E inch	F inch	G1 inch	G2 inch	G4 inch	G5 inch	I inch	q mm
200	1 1/4	1 1/4	1 1/4	-	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	Ø 220/300
300	1 1/4	1 1/4	1 1/4	-	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	Ø 220/300
500	1 1/4	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	Ø 220/300
800	1 1/4	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	Ø 300/380
1000	1 1/4	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	Ø 300/380

Height chart

capacity l	øe mm	Ht mm	R* mm	A mm	C2 mm	D mm	E mm	F mm	G1 mm	G2 mm	G3 mm	G4 mm	G5 mm	q mm
200	700	1100	1304	130	-	884	320	420	220	130	540	660	970	330
300	700	1340	1512	130	-	1120	320	420	220	840	540	660	1060	330
500	800	1940	2099	150	250	1640	380	480	250	250	945	1090	1640	360
800	990	1990	2223	210	310	1610	460	610	310	310	960	1150	1610	460
1000	990	2300	2505	210	310	1910	460	610	310	310	915	1150	1910	460

R*: reversal quota

Inertial tanks for Domestic Hot Water

FLEXY BLUE

The FLEXY BLUE gamma consists of inertial tanks for domestic hot water, available in various capacities, from 500l up to 10000l. They are equipped with very powerful flexible insulation, externally covered in PVC, provided with a magnesium anode for protection against galvanic currents and an inspection flange, which makes access for control or maintenance easier.

Features

✓ Special versions

The FLEXY BLUE tanks can be manufactured with special features on demand: customized dimensions, flange couplings, customized couplings, thicker insulation, thick aluminium coating, etc.

✓ Material: ST 235 JR carbon steel

✓ Treatment for internal protection

Bluetech enamelling with thermosetting resins suitable for use with drinking or food grade water

✓ Insulation

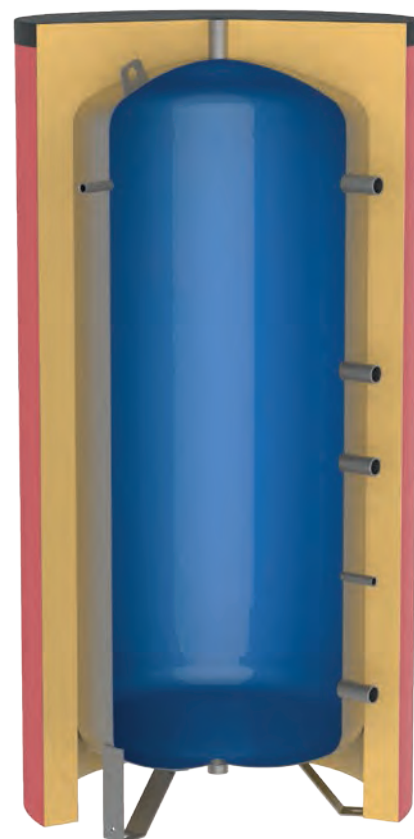
All tanks are insulated with flexible polyurethane with a thickness of 100mm. The insulation can be removed, which makes it possible to install the tanks in small spaces.

✓ Optional accessories

Thermometer, thermostat, impressed current electronic anode, electrical resistance, external plate heat exchanger kit.

✓ Supplied accessories

Magnesium sacrificial anode



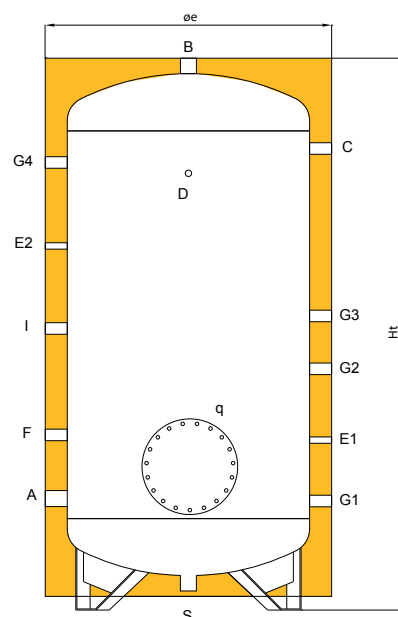
max. temperature	max. pressure
80°C	6 bar

with inspection hole				packed		without inspection hole				packed	
cap. l	code	price	energy label	dimensions cm	weight kg	code	price	energy label	dimensions cm	weight kg	
500	817080109X*		D	88x88x192,5	103,55	817080095X		D	88x88x192,5	98,05	
800	817080110X*			102x102x221	158,71	817080096X			102x102x221	148,21	
1000	817080111X*			107x107x224	180,43	817080097X			107x107x224	170,03	
1500	817080112X*			123x123x237,5	229,06	817080098X			123x123x237,5	218,76	
2000	817080099X*			132x132x269,5	280,20	817080115X			132x132x269,5	270,1	
2500	817080100X*			147x147x277,5	316,89	817080116X			147x147x277,5	306,79	
3000	817080101X*			147x147x299	349,99	817080117X			147x147x299	339,99	
4000	817080102X*			163x163x306	508,02	817080118X			163x163x306	498,02	
5000	817080103X*			183x183x310	597,72	817080119X			183x183x310	587,72	
6000	817080120X*			282x203x217,5	746,56	-					
8000	817080121X*			352x203x217,5	882,40	-					
10000	817080122X*			427x203x217,5	1032,34	-					

*can be coupled with the Boil custom (pag 142)

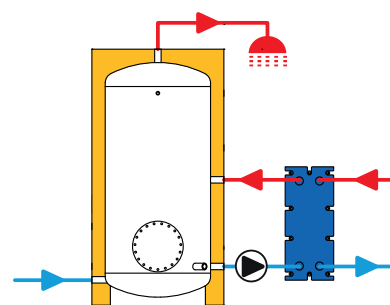
Inertial tanks for Domestic Hot Water

FLEXY BLUE



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E1	thermostat
E2	thermostat
F	recirculation
G1	auxiliary
G2	auxiliary
G3	auxiliary
G4	auxiliary
I	electrical resistor
S	discharge
q	inspection hole



Coupling chart

capacity l	A inch	B inch	C inch	D inch	E1 inch	E2 inch	F inch	G1 inch	G2 inch	G3 inch	G4 inch	I inch	S inch	q mm
500	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	-	1 1/2	1 1/4	Ø 220/300
800	1 1/2	1 1/2	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	-	1 1/2	1 1/4	Ø 300/380
1000	1 1/2	1 1/2	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	-	1 1/2	1 1/4	Ø 300/380
1500	2"	2"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	-	1 1/2	1 1/4	Ø 300/380
2000	2"	2"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	-	1 1/2	1 1/4	Ø 350/430
2500	2 1/2	2 1/2	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	-	1 1/2	1 1/4	Ø 350/430
3000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	-	1 1/2	1 1/4	Ø 350/430
4000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	-	1 1/2	1 1/4	Ø 350/430
5000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	-	1 1/2	1 1/4	Ø 350/430
6000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	Ø 400/480
8000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	Ø 400/480
10000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	Ø 400/480

capacity l	Øe mm	Ht mm	R* mm	A mm	C mm	D mm	E1 mm	E2 mm	F mm	G1 mm	G2 mm	G3 mm	G4 mm	I mm	q mm
500	850	1805	1996	375	1445	1445	675	1145	675	375	975	1215	-	845	445
800	950	2090	2296	390	1720	1720	710	1420	710	390	1010	1230	-	1160	500
1000	1050	2120	2366	400	1720	1720	700	1420	755	400	1000	1240	-	1140	510
1500	1200	2255	2555	500	1810	1810	805	1515	805	500	1100	1340	-	1230	600
2000	1300	2575	2885	505	2115	2115	805	1805	805	505	1105	1345	-	1505	620
2500	1400	2655	3002	565	2150	2150	865	1850	850	565	1165	1405	-	1550	680
3000	1450	2870	3216	575	2350	2350	800	2050	850	575	1050	1415	-	1750	690
4000	1600	2940	3348	600	2380	2380	900	2080	870	600	1200	1440	-	1780	715
5000	1800	2980	3482	610	2385	2385	910	2085	885	610	1210	1450	-	1785	725
6000	2000	2820	3458	630	2230	2230	930	1470	880	630	1470	1930	2080	1230	770
8000	2000	3520	4049	630	2830	2830	930	1610	830	630	1470	2130	2680	1180	770
10000	2000	4270	4716	630	3580	3580	930	1610	830	630	1470	2880	3430	1180	770

R*: reversal quota

Inertial tanks for Domestic Hot Water

FLEXY INOX

The FLEXY INOX gamma consists of inertial tanks for domestic hot water in stainless steel which is highly resistant against corrosion. The tanks are available in several capacities from 200 to 5000 litres. They are equipped with very powerful flexible insulation, externally covered in PVC and provided with a magnesium anode for protection against galvanic currents and an inspection flange for easy access during the control or maintenance phase.

Features

✓ Special versions

The FLEXY INOX tanks can be manufactured with special features on demand: customized dimensions, flange couplings, customized couplings, thicker insulation, thick aluminium coating, etc.

✓ **Material:** AISI 316 stainless steel

✓ **Treatment for internal protection:** Pickling and passivation

✓ Insulation

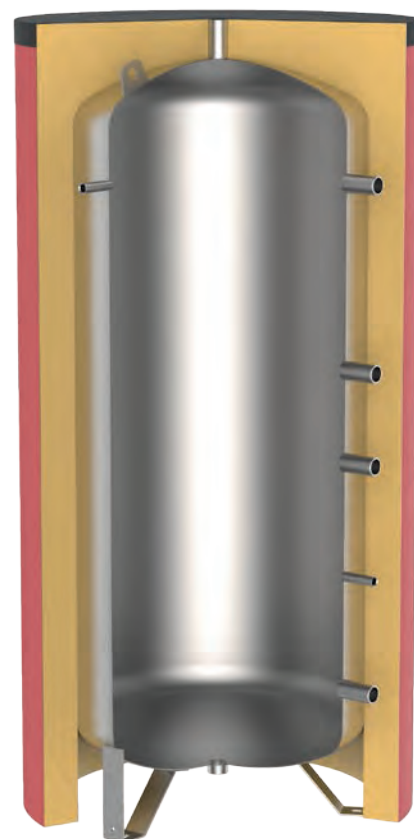
All tanks are insulated with flexible polyurethane with a thickness of 100 mm. The insulation can be removed, which makes the installation in small spaces easier.

✓ Optional accessories

Thermometer, thermostat, impressed current electronic anode, electrical resistance, external plate heat exchanger kit.

✓ Supplied accessories

Magnesium sacrificial anode



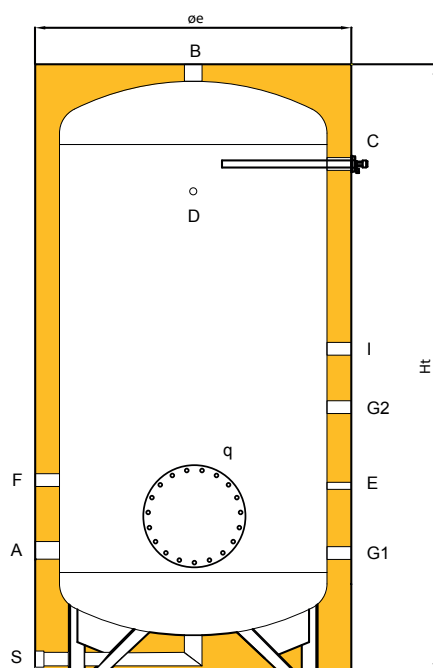
max. temperature	max. pressure
95°C	6 bar

cap. l	with inspection hole				without inspection hole			
	code	price	energy label	dimensions cm	code	price	energy label	dimensions cm
200	817040107X		C	68x68x159	817040025		C	68x68x159
300	817040108X		C	78x78x163	817040026		C	78x78x163
500	817040109X		D	83x83x207	817040027		D	83x83x207
800	817040110X			102x102x204	817040028			102x102x204
1000	817040111X			103x103x231	817040029			103x103x231
1500	817040112X			123x123x232	817040030			123x123x232
2000	817040113X			143x143x240	817040031			143x143x240
2500	817040114X			143x143x265	817040032			143x143x265
3000	817040115X			148x148x292	817040033			148x148x292
4000	817040116X			163x163x300	817040034			163x163x300
5000	817040117X			183x183x303	817040035			183x183x303

*can be coupled with the Boil custom (pag 142)

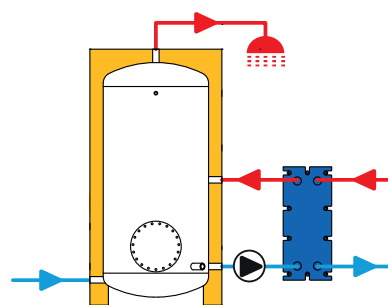
Inertial tanks for Domestic Hot Water

FLEXY INOX



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E	thermostat
F	recirculation
G1	auxiliary
G2	auxiliary
I	electrical resistor
S	discharge
q	inspection hole



Coupling chart

capacity l	A inch	B inch	C inch	D inch	E inch	F inch	G1 inch	G2 inch	I inch	S inch	q mm
200	1"	1"	1 1/4"	1/2"	1/2"	1"	1 1/4"	1 1/4"	1 1/2"	1"	Ø 220/300
300	1"	1"	1 1/4"	1/2"	1/2"	1"	1 1/4"	1 1/4"	1 1/2"	1"	Ø 220/300
500	1"	1"	1 1/4"	1/2"	1/2"	1"	1 1/4"	1 1/4"	1 1/2"	1"	Ø 220/300
800	1 1/4"	1 1/4"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/4"	Ø 300/380
1000	1 1/4"	1 1/4"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/4"	Ø 300/380
1500	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	Ø 300/380
2000	2"	2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	Ø 350/430
2500	2"	2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	Ø 350/430
3000	2"	2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	Ø 350/430
4000	2 1/2"	2 1/2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2 1/2"	Ø 350/430
5000	2 1/2"	2 1/2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2 1/2"	Ø 350/430

Height chart

capacity l	Øe mm	Ht mm	R' mm	A mm	C mm	D mm	E mm	F mm	G1 mm	G2 mm	I mm	q mm
200	650	1470	1608	275	1195	1195	275	725	275	1115	915	375
300	750	1510	1687	295	1215	1215	295	745	295	1135	965	395
500	800	1950	2108	270	1690	1690	270	970	270	1110	1410	370
800	990	1920	2161	395	1550	1550	395	970	395	1235	1385	535
1000	1000	2190	2408	405	1805	1805	405	1105	405	1245	1445	545
1500	1200	2200	2506	425	1815	1815	425	1115	425	1265	1455	555
2000	1400	2280	2676	460	1850	1850	460	1150	460	1300	1490	615
2500	1400	2530	2892	460	2100	2100	460	1275	460	1300	1600	615
3000	1450	2800	3154	475	2365	2365	475	1415	475	1315	1645	630
4000	1600	2880	3295	530	2400	2400	530	1450	530	1370	1680	665
5000	1800	2910	3422	530	2400	2400	530	1450	530	1370	1680	665

R': reversal quota

Glass lined water heater with fixed internal heat exchanger – SMART 1

The Smart 1 gamma consists of water heaters for the production of domestic hot water with a single fixed heat exchanger, available in several capacities, from 200 to 3000 litres. They are equipped with very thick high-density rigid polyurethane insulation, external metal-coloured PVC coating, a magnesium anode for protection against galvanic currents and an inspection flange to make access in the control and maintenance phase easier. The tanks up to 500 litres are supplied with a safety valve and adjustable feet (easier to place and more stable).

Features

✓ **Material:** ST 235 JR carbon steel

✓ **Treatment for internal protection:**

The boilers up to 1000l are treated with food grade inorganic glass lining in accordance with DIN 4753.3. The tanks with a capacity between 1500 and 3000 litres are varnished with Bluetech.

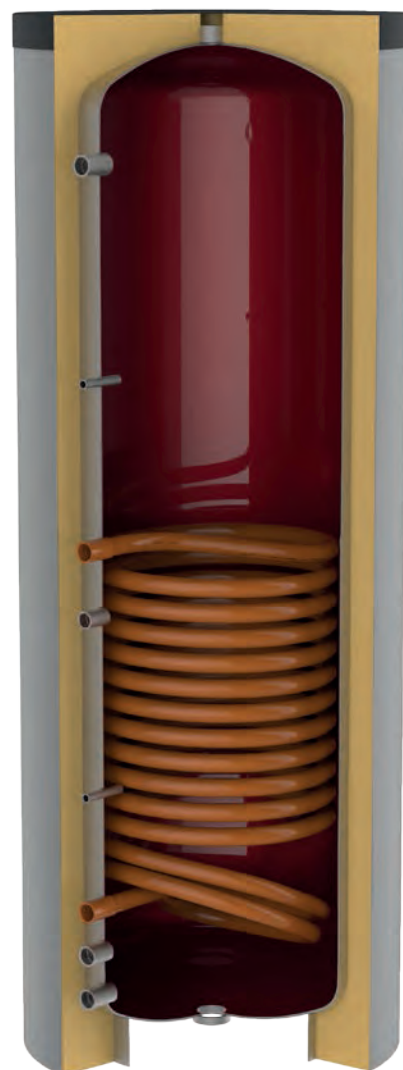
✓ **Insulation:**

The boilers with a capacity between 200 and 1000 litres are insulated with high-density rigid polyurethane with a thickness of 75 mm

The boilers with a capacity between 1500 and 3000 litres are insulated with high-density soft polyurethane with a thickness of 100mm

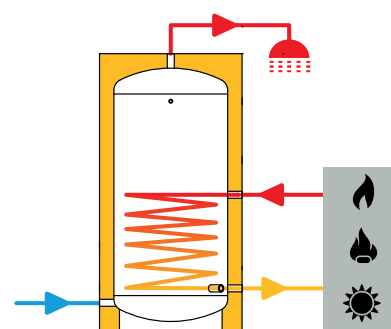
✓ **Optional accessories:**

Thermometer, thermostat, impressed current electronic anode, electrical resistance.

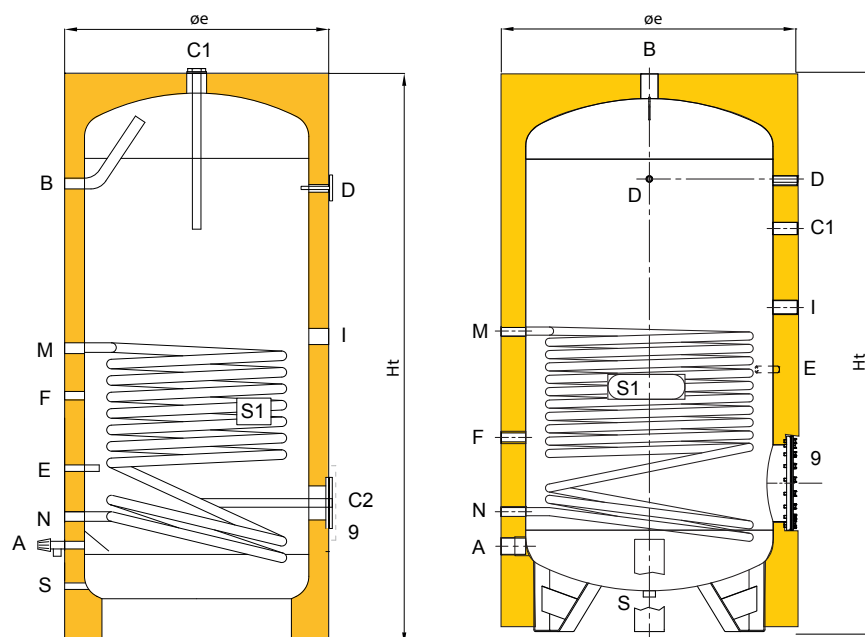


	Storage		Primary circuit	
	temperature max.	pressure max.	temperature max.	pressure max.
V≤1000 l	95°C	10 bar	110°C	12 bar
1500≤V≤5000 l	80°C	6 bar	110°C	12 bar

capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
200	819060107X		C	75x75x120	99
300	819060108X		C	75x75x168	115
400	819060109X		D	75x75x180	147
500	819060110X		D	75x75x204	168
750	819060111X			97x97x229	249
1000	819060112X			115x115x215	347
1500	819080001X			123x123x237,5	255
2000	819080002X			132x132x269,5	325
3000	819080005X			147x147x299	411



Glass lined water heater with fixed internal heat exchanger – SMART 1



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E	probe
F	recirculation
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
S	discharge
q	inspection hole

Coupling chart

capacity l	A inch	B inch	C1 inch	C2	D mm	E mm	F inch	I inch	M inch	N inch	S inch	q mm
200	1"	1"	2"	M8	1/2"	Ø 16 mm	3/4"	1 1/2	1"	1"	1"	Ø 115/180
300	1"	1"	2"	M8	1/2"	Ø 16 mm	3/4"	1 1/2	1"	1"	1"	Ø 115/180
400	1"	1"	2"	M8	1/2"	Ø 16 mm	3/4"	1 1/2	1"	1"	1"	Ø 115/180
500	1"	1"	2"	M8	1/2"	Ø 16 mm	3/4"	1 1/2	1"	1"	1"	Ø 115/180
750	1"	1"	2"	M8	1/2"	Ø 16 mm	3/4"	1 1/2	1"	1"	1"	Ø 115/180
1000	1"	1"	2"	M8	1/2"	Ø 16 mm	3/4"	1 1/2	1"	1"	1"	Ø 115/180
1500	2"	2"	1 1/4	-	1/2"	1/2"	1 1/4	1 1/2	1"	1"	1 1/4	Ø 300/380
2000	2"	2"	1 1/4	-	1/2"	1/2"	1 1/4	1 1/2	1"	1"	1 1/4	Ø 300/380
3000	3"	3"	1 1/4	-	1/2"	1/2"	1 1/4	1 1/2	1"	1"	1 1/4	Ø 300/380

Height chart

capacity l	Øe mm	Ht mm	R* mm	A mm	B mm	E mm	F mm	M mm	N mm
200	670	1100	1288	210	860	435	680	790	290
300	670	1360	1517	210	1135	435	650	750	290
400	700	1660	1802	240	1420	570	770	870	320
500	700	1890	2016	240	1650	530	850	970	320
750	855	2050	2222	350	1770	650	910	1030	430
1000	1055	1960	2226	370	1590	600	750	1000	450
1500	1200	2255	2555	345	2255	1060	785	1215	485
2000	1300	2575	2885	345	2575	1165	815	1325	490
3000	1450	2870	3216	400	2870	1375	875	1540	550

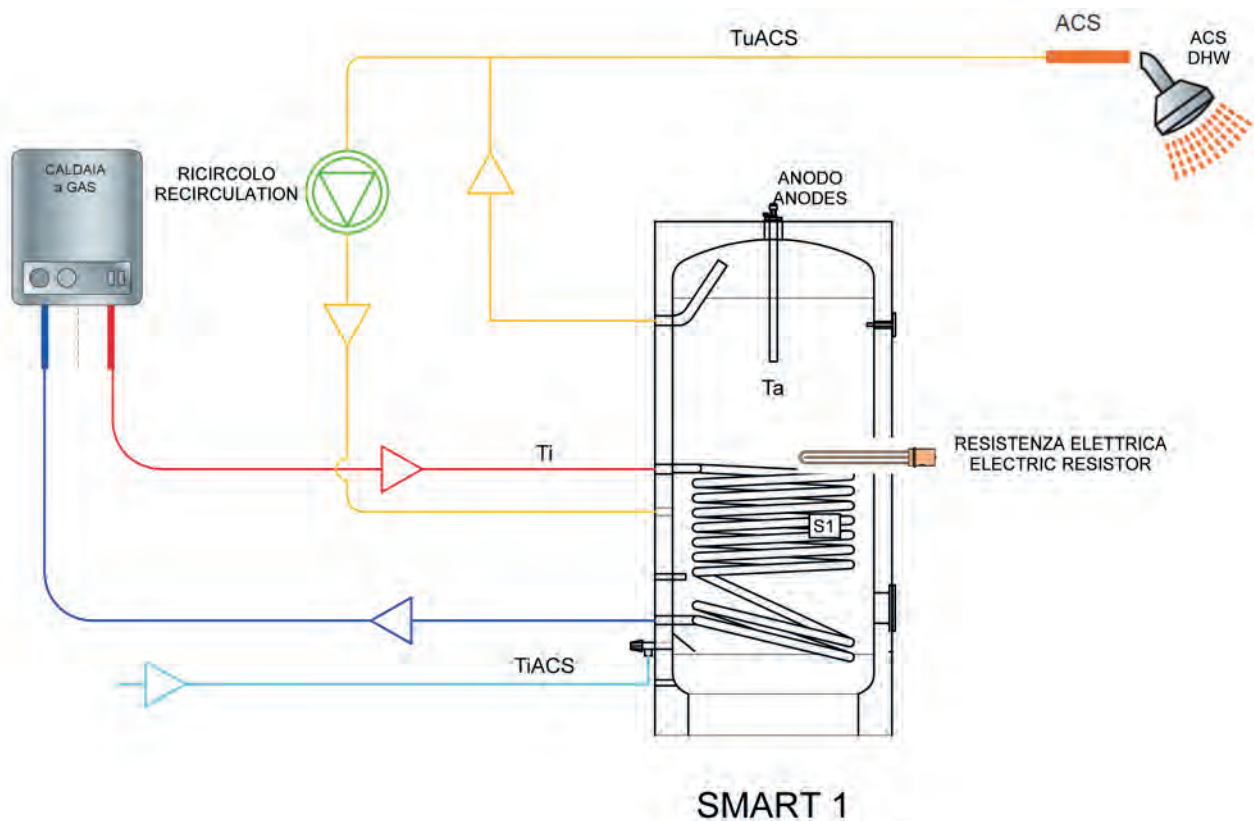
R*: reversal quote

Technical information for SMART 1 series

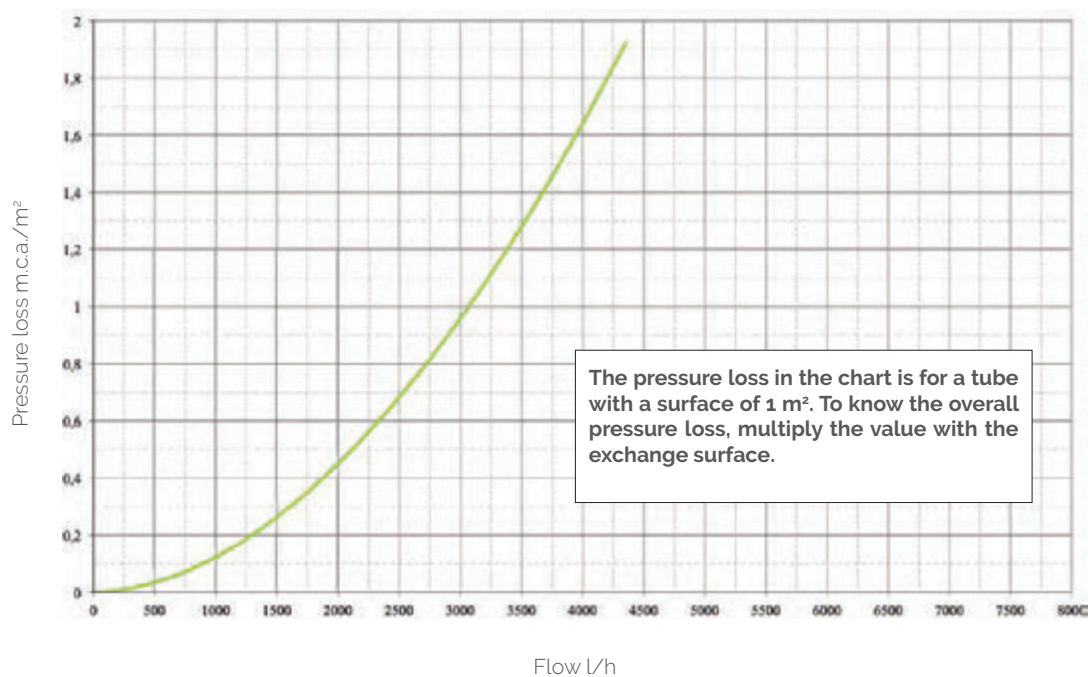
DHW production TiACS = 10°C								Exchanger	
capacity	Ti	TuACS= 45°C		TuACS = 60°C		Ta = 50°C TuACS = 45°C	Ta = 60°C TuACS = 45°C	Surface area	Nominal flow
l	°C	l/h (a)	kW (b)	l/h (c)	kW (d)	l/10 min. (e)	l/10 min. (f)	m²	mc/h
200	70	810	33	395	23	347	390	1.4	3
	80	1081	44	602	35	392	435		
	90	1253	51	739	43	421	464		
300	70	810	33	395	23	454	517	1.4	3
	80	1081	44	602	35	499	563		
	90	1253	51	739	43	527	591		
400	70	1056	43	516	30	601	686	1.8	3
	80	1400	57	774	45	658	743		
	90	1646	67	963	56	699	784		
500	70	1179	48	584	34	728	834	2	3
	80	1572	64	877	51	793	900		
	90	1842	75	1083	63	838	945		
750	70	1400	57	688	40	1031	1190	2.4	3
	80	1867	76	1032	60	1109	1268		
	90	2186	89	1290	75	1162	1321		
1000	70	1572	64	774	45	1325	1538	2.7	3
	80	2113	86	1169	68	1415	1628		
	90	2481	101	1462	85	1477	1690		
1500	70	2137	87	1049	61	1951	2271	3.7	4
	80	2874	117	1599	93	2074	2393		
	90	3390	138	1995	116	2160	2479		
2000	70	2506	102	1221	71	2545	2970	4.3	4
	80	3341	136	1840	107	2684	3110		
	90	3931	160	2287	133	2782	3208		
3000	70	3022	123	1479	86	3695	4333	5.2	4
	80	4029	164	2236	130	3862	4501		
	90	4717	192	2786	162	3977	4615		

- a continuous DHW flow with TuACS= 45°C
- b power of the exchanger with TuACS=45°C
- c continuous DHW flow with TuACS= 60°C
- d power of the exchanger with TuACS=60°C
- e amount of DHW at 45°C in the first 20 min. with a storage temperature of 50°C
- f amount of DHW at 45°C in the first 10 min. with a storage temperature of 60°C
- Exchanger capacity: 7.10 Lt/mq

Technical information for SMART 1 series



Pressure loss fixed heat exchanger



Glass lined water heater with fixed internal heat exchanger – SMART 2

The Smart 2 gamma consists of Water heaters for the production of domestic hot water with a double fixed heat exchanger, available in several capacities (from 200 up to 3000 litres). They are equipped with very thick high-density rigid polyurethane insulation, external metal-coloured PVC coating, a magnesium anode for protection against galvanic currents, an inspection flange for easy access during the control and maintenance phase. The tanks of up to 500 litres are supplied with a safety valve and adjustable feet (easier placement and more stability).

Features

✓ **Material:** ST 235 JR carbon steel

✓ **Treatment for internal protection:**

The boilers with a capacity of up to 1000 l are treated with food grade inorganic glass lining in accordance with DIN 4753.3, those with a capacity of 1500 to 3000 l with Bluetech.

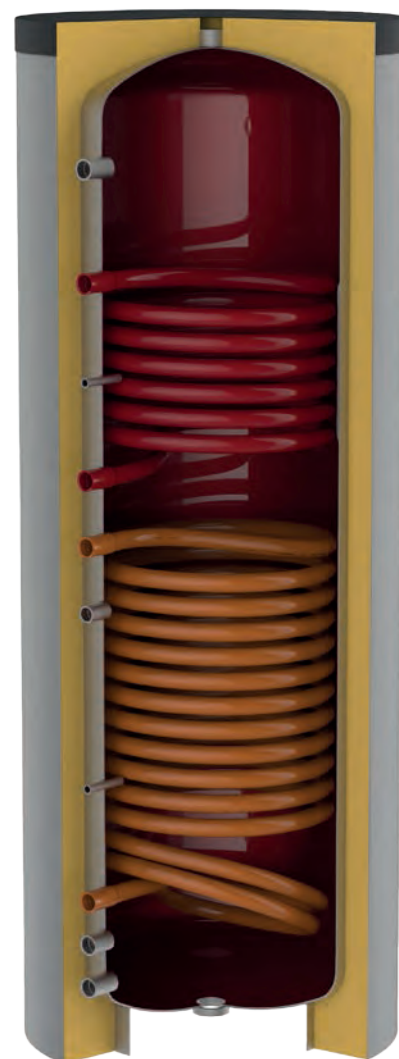
✓ **Insulation:**

The boilers with a capacity of 200 to 1000 litres are insulated with high-density rigid polyurethane with a thickness of 75 mm

The boilers with a capacity of 1500 to 3000 litres are insulated with soft polyurethane with a thickness of 100 mm.

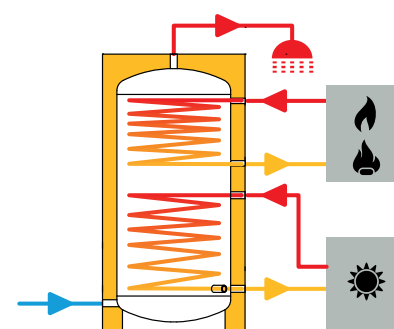
✓ **Optional accessories:**

Thermometer, thermostat, impressed current electronic anode, electrical resistance.

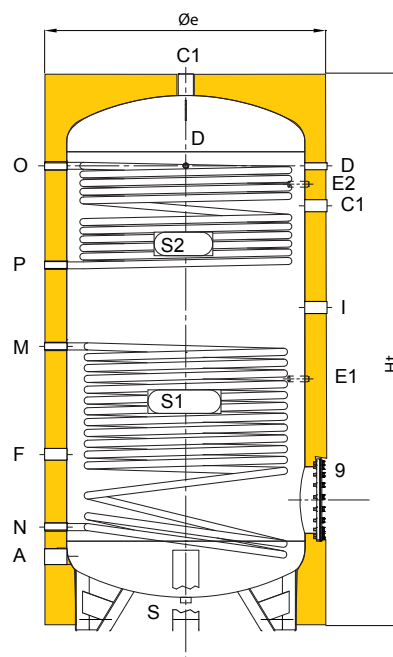
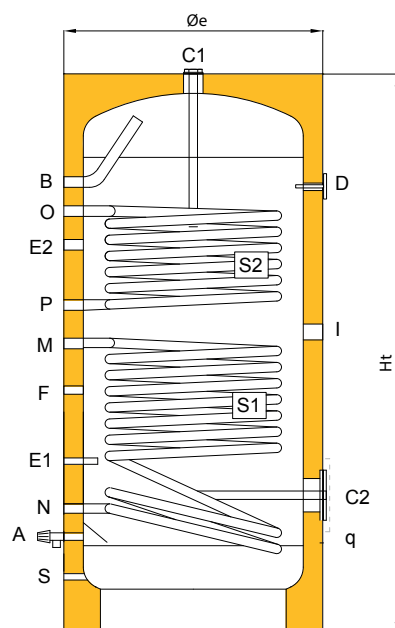


	Storage		Primary circuit	
	temperature max.	pressure max.	temperature max.	pressure max.
V≤1000 l	95°C	10 bar	110°C	12 bar
1500≤V≤5000 l	80°C	6 bar	110°C	12 bar

capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
200	819060114X		C	75x75x120	972
300	819060115X		C	75x75x168	1155
400	819060116X		D	75x75x180	1365
500	819060117X		D	75x75x204	1497
750	819060118X			97x97x229	2310
1000	819060119X			115x115x215	2888
1500	819080003X			123x123x237,5	281
2000	819080004X			132x132x269,5	366
3000	819080006X			147x147x299	454



Glass lined water heater with fixed internal heat exchanger – SMART 2



Legend couplings

A	domestic water inlet
B	domestic water outlet
C1	anode
C2	anode
D	thermometer
E1	probe
E2	probe
F	recirculation
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
O	superior exchanger inlet
P	superior exchanger outlet
S	discharge
q	inspection hole

Coupling chart

capacity l	A inch	B inch	C1 inch	C2	D mm	E1 mm	E2 mm	F inch	I inch	M inch	N inch	O inch	P inch	S inch	q mm
200	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
300	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
400	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
500	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
750	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
1000	1"	1"	2"	M8	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180
1500	2"	2"	1 1/4"	-	1/2"	1/2"	-	1 1/4"	1 1/2"	1"	1"	1"	1"	1 1/4"	Ø 300/380
2000	2"	2"	1 1/4"	-	1/2"	1/2"	-	1 1/4"	1 1/2"	1"	1"	1"	1"	1 1/4"	Ø 300/380
3000	3"	3"	1 1/4"	-	1/2"	1/2"	-	1 1/4"	1 1/2"	1"	1"	1"	1"	1 1/4"	Ø 300/380

Height chart

capacity l	Øe mm	Ht mm	R' mm	A mm	B mm	E1 mm	E2 mm	F mm	M mm	N mm	O mm	P mm
200	670	1140	1323	130	975	345	780	450	580	210	895	685
300	670	1450	1598	210	1260	440	1015	650	760	290	1190	845
400	700	1660	1802	240	1410	570	1150	650	870	320	1330	980
500	700	1890	2016	240	1650	530	1260	850	970	320	1440	1090
750	855	2050	2222	350	1770	650	1330	910	1030	430	1480	1180
1000	1055	1960	2226	370	1590	600	1250	750	1000	450	1400	1100
1500	1200	2255	2555	345	2255	1060	1740	785	1215	485	1830	1430
2000	1300	2575	2885	345	2575	1165	2065	815	1325	490	2150	1690
3000	1450	2870	3216	400	2870	1375	2225	875	1540	550	2410	1680

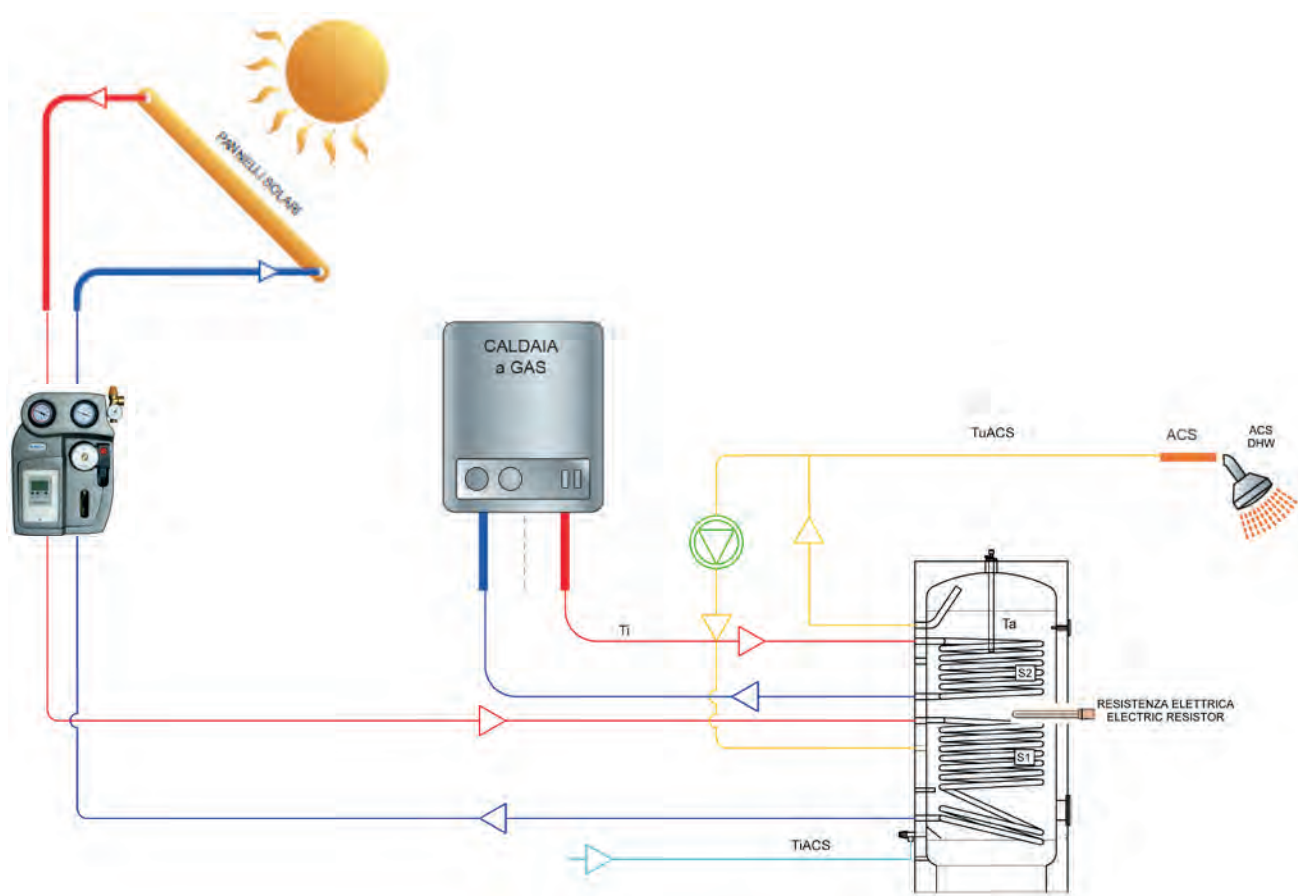
R': reversal quota

Technical information for SMART 2 series

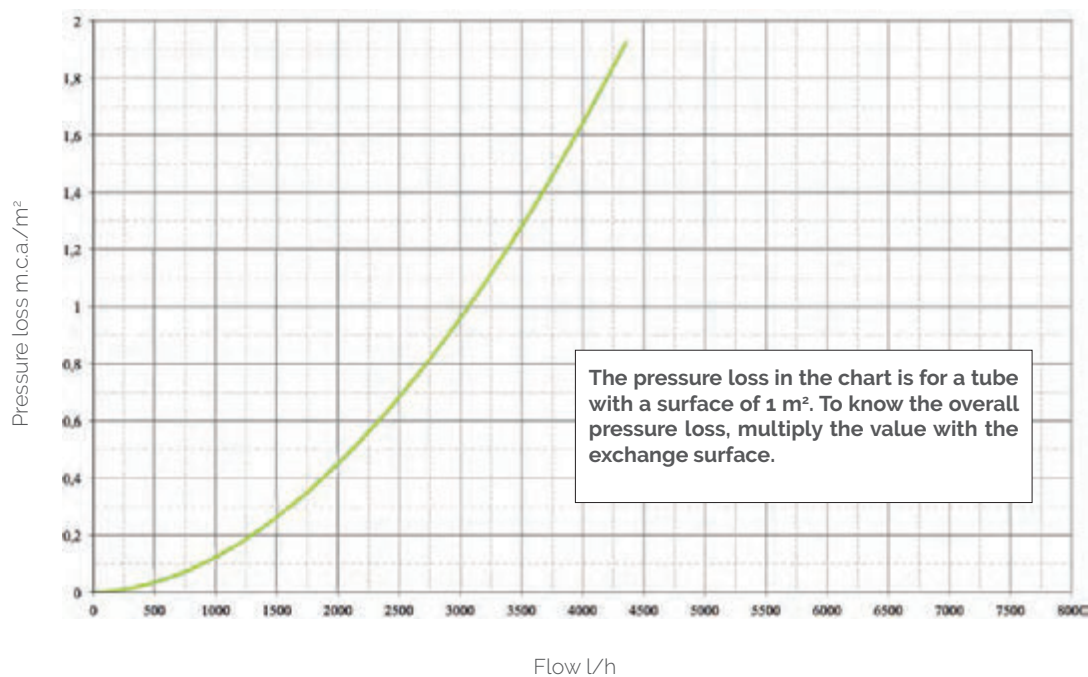
Capacity	Ti	DHW production TiACS = 10°C						Upper Exchanger	Lower Exchanger	Nominal flow
		TuACS= 45°C		TuACS = 60°C		Ta = 50°C TuACS = 45°C	Ta = 60°C TuACS = 45°C	Surface area	Surface area	
		L/h (a)	kW (b)	L/h (c)	kW (d)	L/10 min. (e)	L/10 min. (f)	m²	m²	mc/h
200	70	417	17	206	12	282	324	0,7	1	3
	80	540	22	292	17	302	345			
	90	614	25	361	21	315	357			
300	70	638	26	309	18	425	489	1,1	1,4	3
	80	860	35	481	28	462	526			
	90	1007	41	584	34	486	550			
400	70	638	26	309	18	531	616	1,1	1,8	3
	80	860	35	481	28	568	653			
	90	1007	41	584	34	593	678			
500	70	638	26	309	18	638	744	1,1	2	3
	80	860	35	481	28	675	781			
	90	1007	41	584	34	699	806			
750	70	688	28	344	20	912	1072	1,2	2,4	3
	80	933	38	516	30	953	1112			
	90	1081	44	636	37	978	1137			
1000	70	884	36	430	25	1211	1423	1,5	2,7	3
	80	1179	48	653	38	1260	1473			
	90	1376	56	808	47	1293	1505			
1500	70	1326	54	653	38	1816	2135	3,7	2,3	6,0
	80	1793	73	980	57	1894	2213			
	90	2113	86	1238	72	1947	2267			
2000	70	1744	71	860	50	2418	2843	4,3	3,0	8,0
	80	2334	95	1290	75	2516	2942			
	90	2727	111	1599	93	2582	3007			
3000	70	2211	90	1083	63	3559	4198	5,2	3,8	8,0
	80	2948	120	1634	95	3682	4321			
	90	3440	140	2029	118	3764	4403			

- a continuous DHW flow with TuACS= 45°C
- b power of the exchanger with TuACS=45°C
- c continuous DHW flow with TuACS= 60°C
- d power of the exchanger with TuACS=60°C
- e amount of DHW at 45°C in the first 10 min. with a storage temperature of 50°C
- f amount of DHW at 45°C in the first 10 min. with a storage temperature of 60°C
- Exchanger capacity: 710 Lt/mq

Technical information for SMART 2 series



Pressure loss fixed heat exchanger



Glass lined water heater with a solar power station – SMART 2 SOLAR KIT

Water heater for the production of domestic hot water with a double fixed heat exchanger and a solar power station S2 SOLAR 30 - 25/6. The capacity is 300l. The water heater is equipped with very thick high-density rigid polyurethane insulation, external metal-coloured PVC coating, a magnesium anode for protection against galvanic currents, an inspection flange for easier access during the inspection and maintenance phase, a safety valve and adjustable feet (easier placement and more stability).

Features

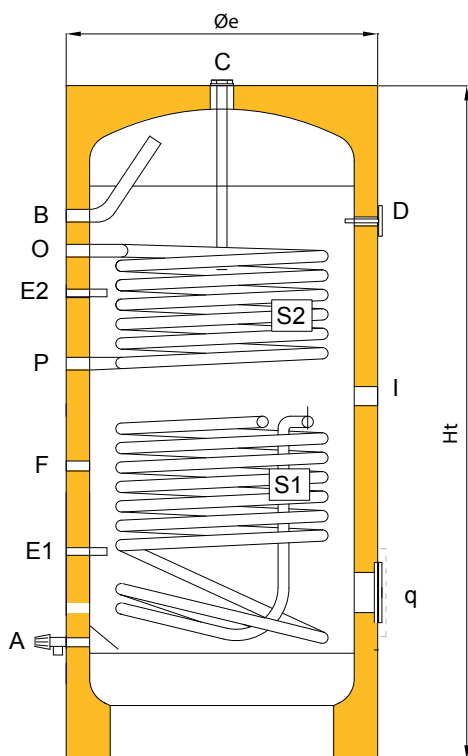
- ✓ **Material:** ST 235 JR carbon steel
- ✓ **Treatment for internal protection:**
Food grade inorganic glass lining according to DIN 4753.3
- ✓ **Insulation:**
High-density rigid polyurethane with a thickness of 75 mm
- ✓ **Optional accessories:**
Thermometer, thermostat, impressed current electronic anode, electrical resistance.



Storage		Primary circuit	
max. temperature	max. pressure	max. temperature	max. pressure
95°C	10 bar	110°C	12 bar

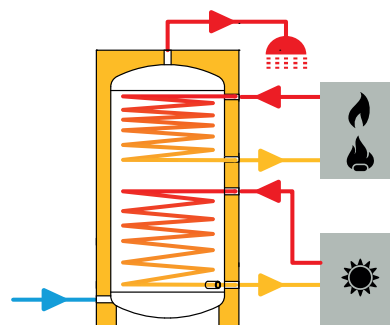
capacity l	code	price	energy label
300	838110066X		C

Glass lined water heater with a solar power station – SMART 2 SOLAR KIT



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E1	probe
E2	probe
F	recirculation
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
O	superior exchanger inlet
P	superior exchanger outlet
S	discharge
q	inspection hole



Coupling chart

capacity l	A inch	B inch	C inch	D mm	E1 mm	E2 mm	F inch	I inch	M inch	N inch	O inch	P inch	S inch	q mm
300	1"	1"	2"	1/2"	Ø 16	Ø 16	3/4"	1 1/2"	1"	1"	1"	1"	1"	Ø 115/180

Height chart

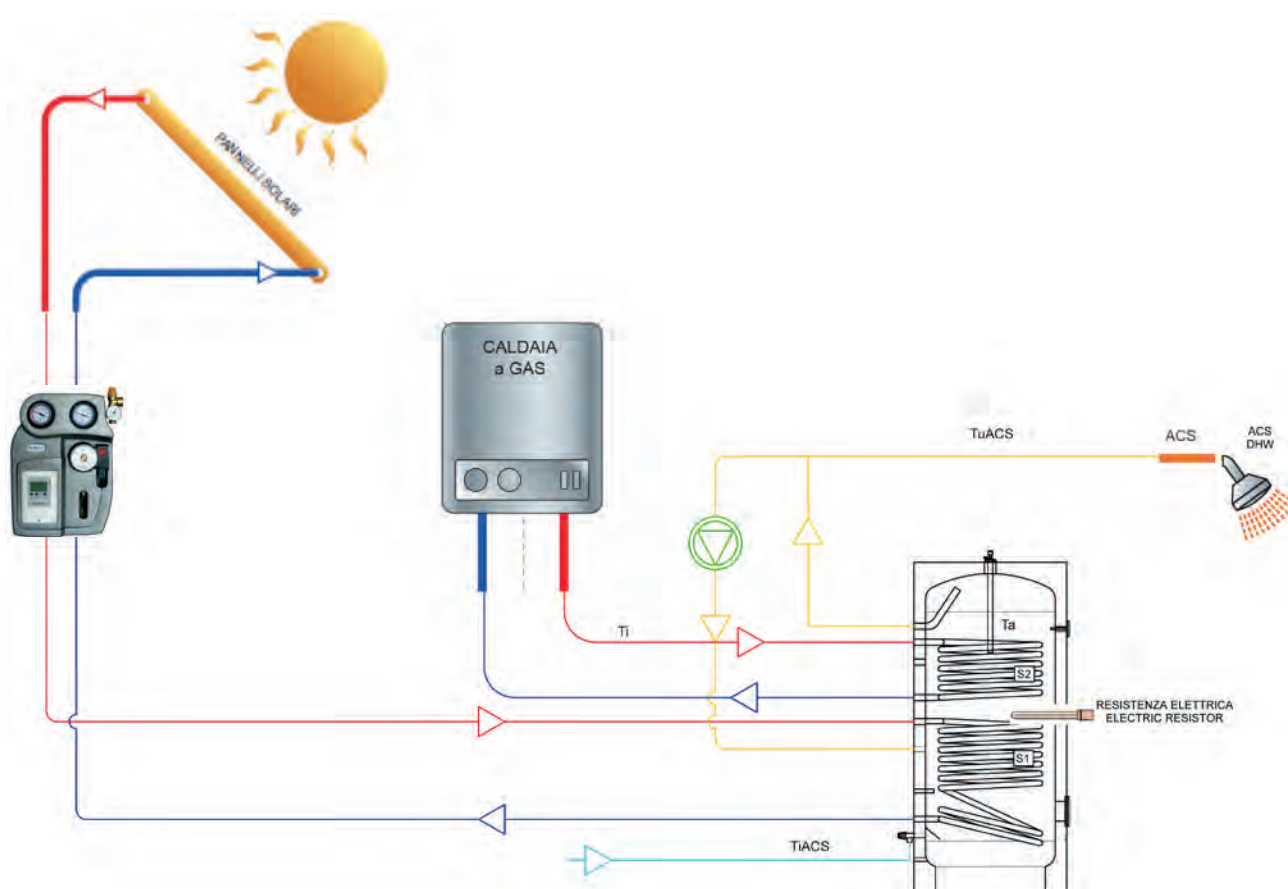
capacity l	Øe mm	Ht mm	R* mm	A mm	B mm	D mm	E1 mm	E2 mm	F mm	M mm	N mm	O mm	P mm	q mm
300	670	1360	1517	210	1250	950	385	1005	600	700	700	1175	1005	290

R*: reversal quota

Technical information for SMART 2 SOLAR KIT series

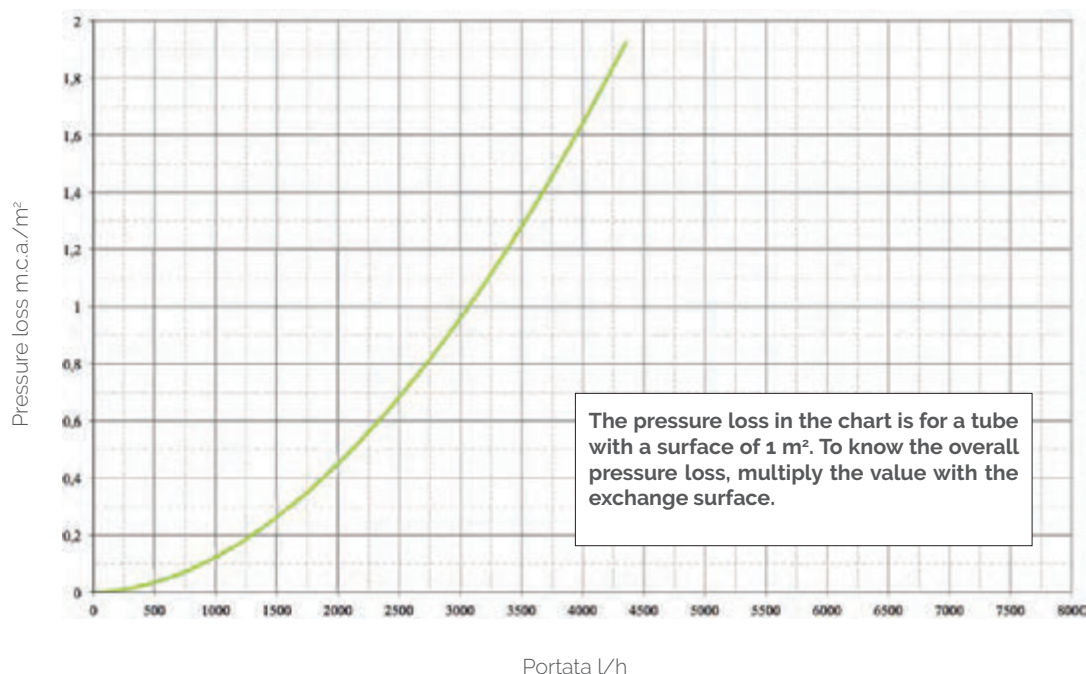
Capacity	Ti	DHW production TiACS = 10°C						Upper Exchanger	Lower Exchanger	Nominal flow
		TuACS= 45°C		TuACS = 60°C		Ta = 50°C TuACS = 45°C	Ta = 60°C TuACS = 45°C	Surface area	Surface area	
		L/h (a)	kW (b)	L/h (c)	kW (d)	L/10 min. (e)	L/10 min. (f)	m²	m²	
300	70	638	26	309	18	425	489	1,1	1,4	3
	80	860	35	481	28	462	526			
	90	1007	41	584	34	486	550			

- a continuous DHW flow with TuACS= 45°C
- b power of the exchanger with TuACS=45°C
- c continuous DHW flow with TuACS= 60°C
- d power of the exchanger with TuACS=60°C
- e amount of DHW at 45°C in the first 10 min. with a storage temperature of 50°C
- f amount of DHW at 45°C in the first 10 min. with a storage temperature of 60°C
- Exchanger capacity: 7.10 Lt/mq



Technical information for SMART 2 SOLAR KIT series

Pressure loss fixed heat exchanger



S2 SOLAR 30 solar unit

The S2 SOLAR 30 solar unit is the ideal option for small and medium-sized installations of which the components are tested and pre-assembled to guarantee the quality of the performance and the easy installation. The electronic control unit of the solar unit MTDC is an integral part of the kit and comes cabled and with a probe for measuring the temperature. The kit is insulated in polystyrene.

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Glass lined water heater with a fixed heat exchanger for Heat pumps – SMART HP

The HP gamma consists of water heaters for the production of domestic hot water with a single heat fixed heat exchanger and a double spiral with a large surface, to be coupled with a heat pump. The heaters are available in several capacities, from 300 to 1000 l and are insulated with very thick high density rigid polyurethane, externally covered with metal-coloured PVC and provided with a magnesium anode to protect against galvanic currents and an inspection flange for easy access during the inspection and maintenance phase. The tanks with a capacity of up to 500 litres are supplied with a safety valve and adjustable feet (easier to place and more stable).

Features

✓ **Material:** ST 235 JR carbon steel

✓ **Treatment for internal protection:**

Food grade inorganic glass lining according to DIN 4753.3

✓ **Insulation:**

high-density rigid polyurethane with a thickness of 75 mm

✓ **Optional accessories:**

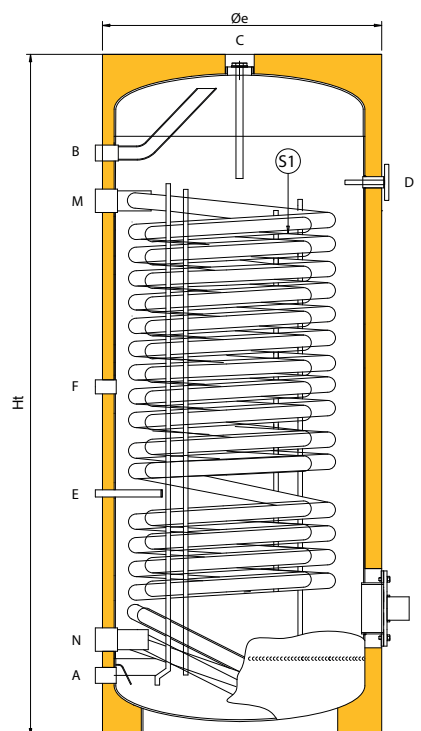
Thermometer, thermostat, impressed current electronic anode, electrical resistance.



Storage		Primary circuit	
max. temperature	max. pressure	max. temperature	max. pressure
95°C	10 bar	110°C	12 bar

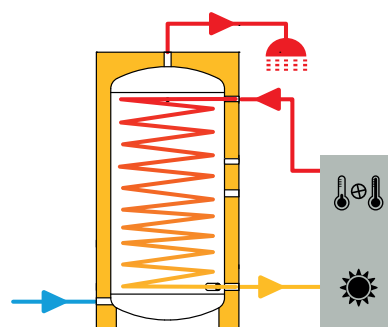
capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
300	819060121X		C	75x75x168	177
400	819060122X		C	75x75x180	206
500	819060123X		D	75x75x204	239
750	819060124X			97x97x229	318
1000	819060125X			115x115x215	409

Glass lined water heater with a fixed heat exchanger for Heat pumps – SMART HP



Legend couplings

- A domestic water inlet
- B domestic water outlet
- C anode
- D thermometer
- E probe
- F recirculation
- I electrical resistor
- M primary circuit inlet
- N primary circuit outlet
- q inspection hole



Coupling chart

capacity l	A inch	B inch	C inch	D mm	E mm	F inch	I inch	M inch	N inch	q mm
300	1"	1"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180
400	1"	1"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180
500	1"	1"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180
750	1 1/4"	1 1/4"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180
1000	1 1/4"	1 1/4"	1 1/4"	1/2"	Ø 16 mm	3/8"	1 1/2"	1 1/4"	1 1/4"	Ø 115/180

Height chart

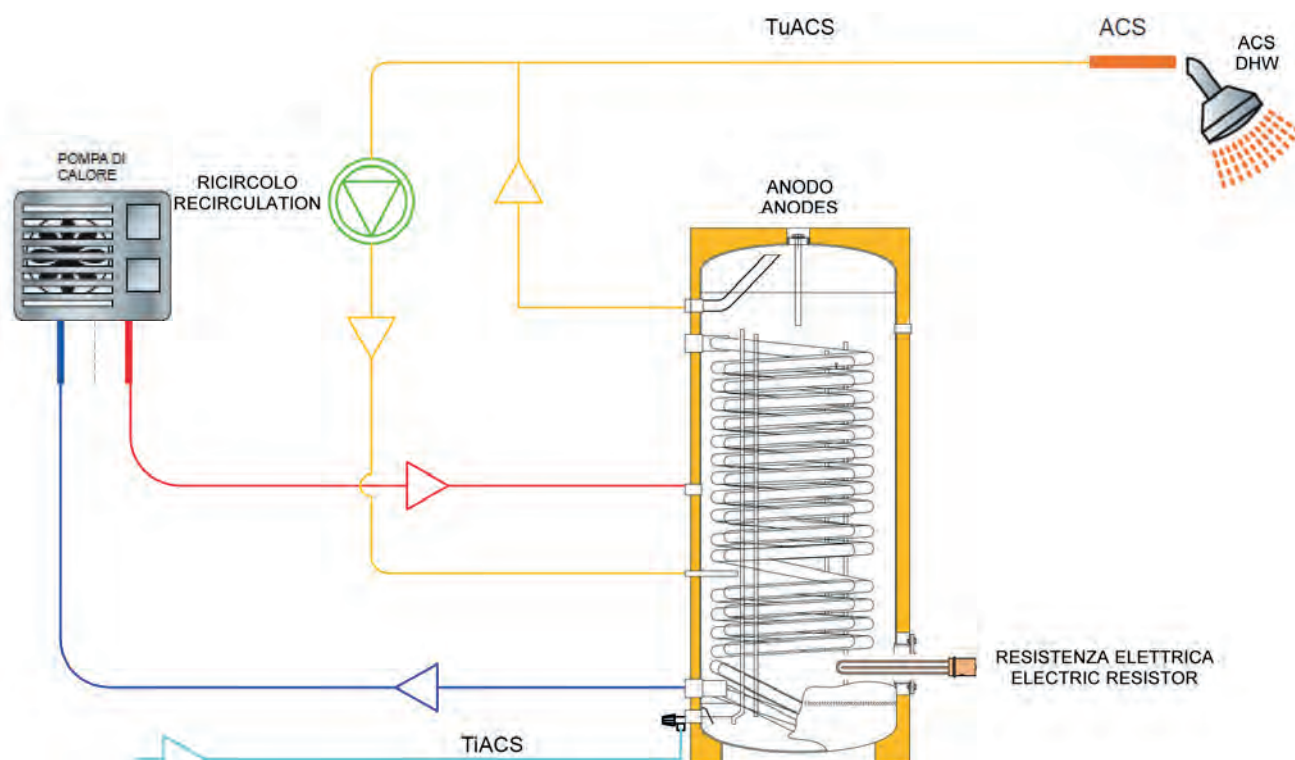
capacity l	Øe mm	Ht mm	R* mm	A mm	B mm	E mm	F mm	M mm	N mm
300	670	1450	1598	130	1240	550	770	1035	215
400	700	1620	1765	150	1400	560	840	1285	235
500	700	1850	1979	150	1640	560	840	1385	235
750	855	2140	2305	250	1750	670	1270	1390	370
1000	1055	2050	2306	210	1570	690	1125	1245	375

R*: reversal quota

Technical information for SMART HP series

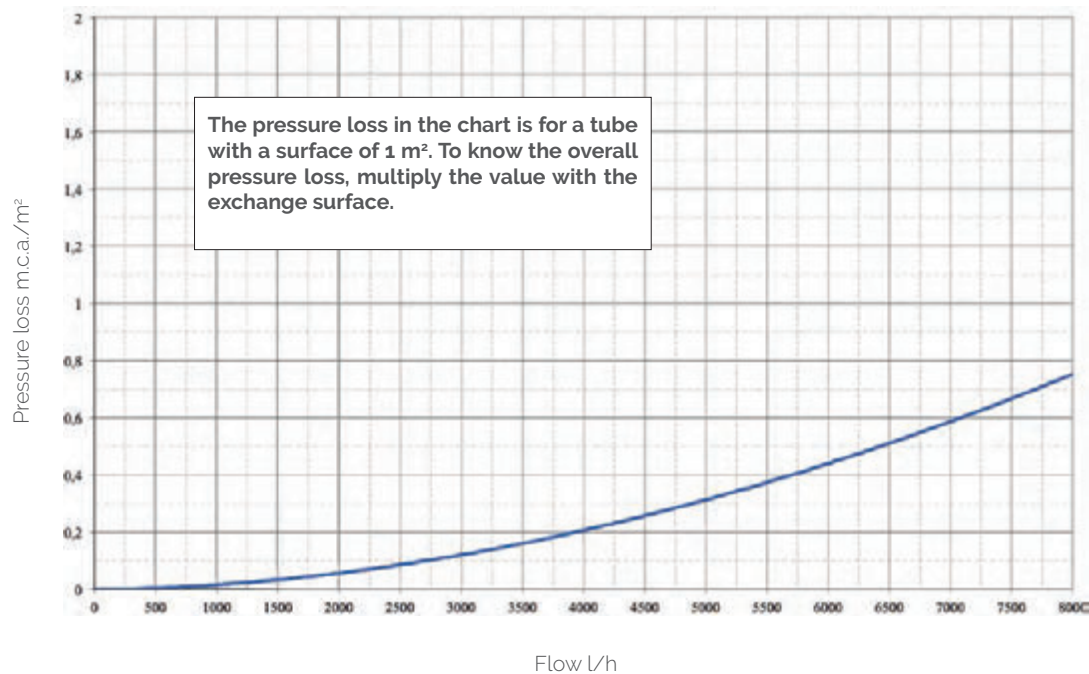
Capacity	Ti	DHW production $T_{iDHW} = 10^{\circ}\text{C}$			Exchanger	
		$T_{uDHW} = 45^{\circ}\text{C}$		$T_a = 50^{\circ}\text{C}$ $T_{uDHW} = 45^{\circ}\text{C}$	Surface area	Nominal flow
		L/h (a)	kW (b)	L/10 min. (e)	m ²	mc/h
300	50	688	28	433	3,8	4,0
	80	2236	91	691		
400	50	860	35	568	5	4,0
	80	2334	95	814		
500	50	958	39	691	6	4,0
	80	2432	99	937		
750	50	982	40	961	6,5	4,0
	80	3390	138	1362		
1000	50	982	40	1227	6,5	4,0
	80	3390	138	1628		

- a continuous DHW flow with $T_{uDHW} = 45^{\circ}\text{C}$
- e amount of DHW at 45°C in the first 10 min. with a storage temperature of 50°C
- Exchanger capacity: 7.10 Lt/mq



Technical information for SMART HP series

Pressure loss fixed heat exchanger



Stainless steel water heater with fixed heat exchanger - SMART INOX 1

The SMART INOX 1 gamma consists of water heaters for the production of sanitary hot water with a single fixed heat exchanger. They are available in several capacities, from 200 up to 3000 litres and are insulated with very thick high density rigid polyurethane, externally covered in red PVC and equipped with a magnesium anode for the protection against galvanic currents, an inspection flange for the easy access during the inspection and maintenance phase and a safety valve.

Features

✓ Special versions:

The SMART INOX 1 water heaters can be customized on request in order to meet specific requirements, such as: customized dimensions, flanged couplings, customized couplings, thicker insulation, thick aluminium coating or other needs.

✓ Material: AISI 316 stainless steel

✓ Insulation:

All tanks are insulated with flexible polyurethane with a thickness of 100mm. The insulation can be removed, which makes it easier to install the tank in small spaces.

✓ Accessories on request:

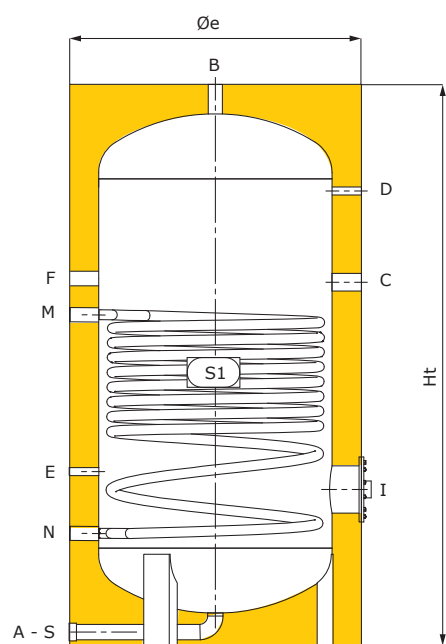
Thermometer, thermostat, impressed current electronic anode, resistance



Storage		Primary circuit	
max. temperature	max. pressure	max. temperature	max. pressure
95°C	6 bar	95°C	16 bar

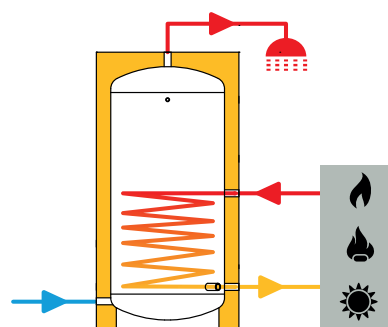
capacity l	code	price	energy label	packed dimensions cm
200	819040060X		C	75x75x120
300	819040061X		C	75x75x168
400	819040062X		C	75x75x180
500	819040063X		D	75x75x204
600	819040084X			75x75x204
800	819040064X			97x97x229
1000	819040065X			115x115x215
1500	819040066X			123x123x237,5
2000	819040067X			132x132x269,5
2500	819040089X			147x147x299
3000	819040090X			147x147x299

Stainless steel water heater with fixed heat exchanger - SMART INOX 1



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E	probe
F	recirculation
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
S	discharge
q	inspection hole



Coupling chart

capacity l	A inch	B inch	C inch	D inch	E inch	F inch	I inch	M inch	N inch	S inch	q mm
200	1"	1"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	3/4"	3/4"	1"	100/160
300	1"	1"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1"	1"	1"	100/160
400	1"	1"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1"	1"	1"	100/160
500	1"	1"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1"	1"	1"	100/160
600	1"	1"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1"	1"	1"	100/160
800	1 1/4"	1 1/4"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	100/160
1000	1 1/4"	1 1/4"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	160/220
1500	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/2"	220/300
2000	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/2"	220/300
2500	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/2"	220/300
3000	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/2"	220/300

Height chart

capacity l	Øe mm	Ht mm	R* mm	E mm	F mm	I mm	M mm	N mm	q mm
200	650	1470	1608	425	870	870	770	265	385
300	750	1510	1687	445	965	965	790	285	405
400	800	1700	1879	420	930	1050	765	260	380
500	800	1950	2108	420	1050	1060	885	260	380
600	850	2050	2220	500	1130	1130	1060	340	460
800	990	1920	2161	545	1185	1185	1005	395	505
1000	1000	2190	2408	555	1335	1335	1155	405	515
1500	1200	2200	2506	565	1295	1315	1115	415	545
2000	1400	2280	2676	600				450	580
2500	1400	2530	2892	600				450	580
3000	1450	2800	3154	615	1345	1645	1265	465	595

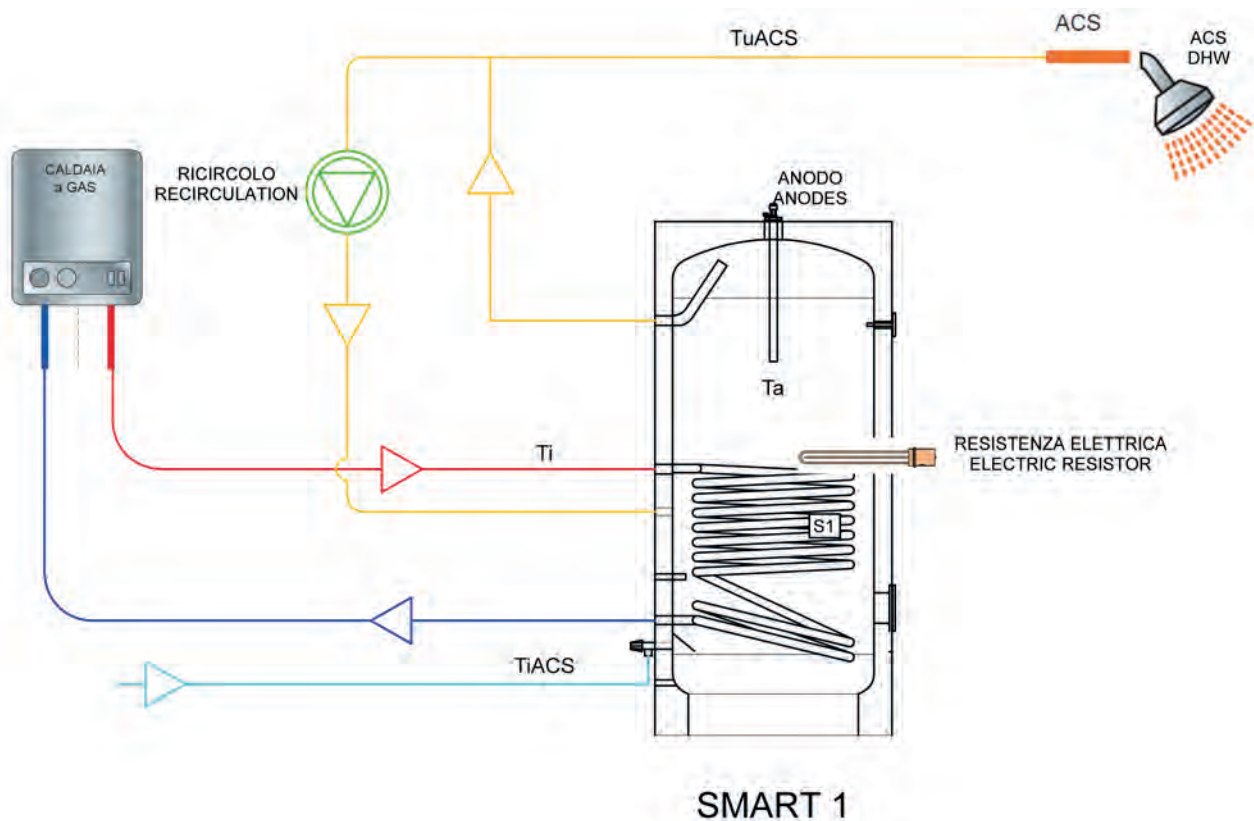
R*: reversal quota

Technical information for SMART INOX 1 series

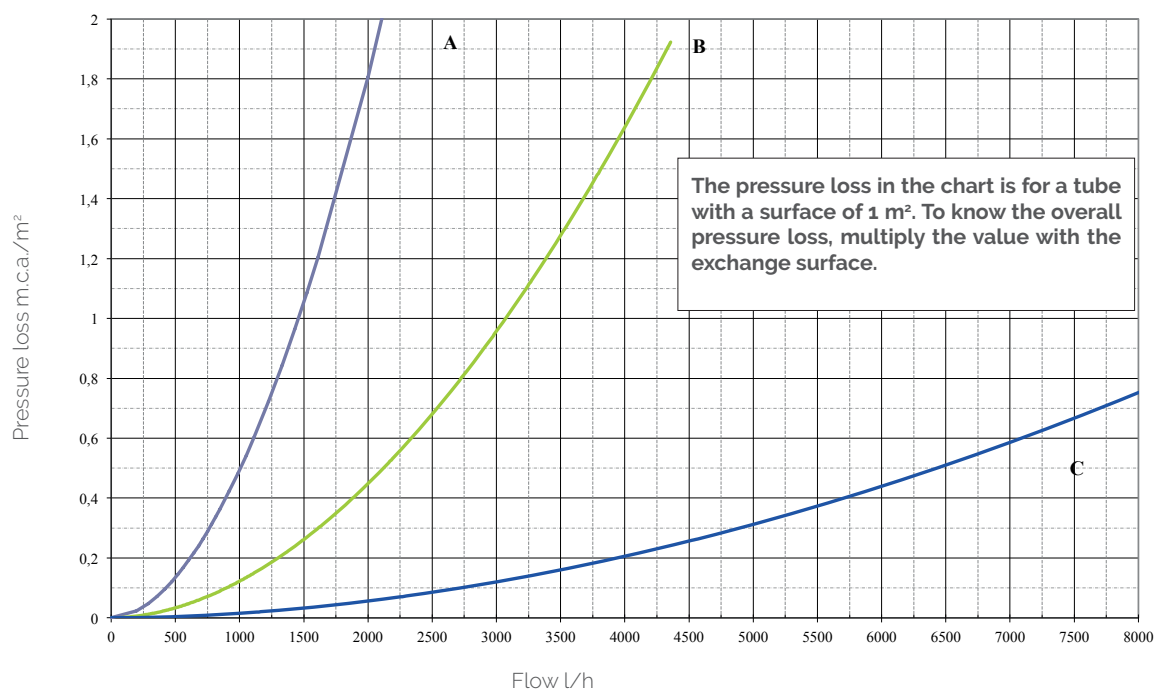
DHW production TiDHW = 10°C								Exchanger	
Capacity	Ti	TuDHW = 45°C		TuDHW = 60°C		Ta = 50°C TuDHW = 45°C	Ta = 60°C TuDHW = 45°C	Surface area	Nominal flow
l	°C	l/h (a)	kW (b)	l/h (c)	kW (d)	l/10 min. (e)	l/10 min. (f)	m²	mc/h
200	70	565	23	275	16	306	349	1,0	3,0
	80	761	31	430	25	339	382		
	90	884	36	516	30	360	402		
300	70	737	30	361	21	441	505	1,3	3,0
	80	982	40	550	32	482	546		
	90	1154	47	670	39	511	575		
400	70	761	31	361	21	552	637	1,3	3,0
	80	1007	41	550	32	593	678		
	90	1179	48	688	40	622	707		
500	70	1105	45	550	32	716	822	1,9	3,0
	80	1474	60	825	48	777	883		
	90	1744	71	1014	59	822	928		
600	70	1105	45	533	31	822	950	1,9	3,0
	80	1474	60	808	47	883	1011		
	90	1720	70	1014	59	924	1052		
800	70	1400	57	688	40	1084	1254	2,4	4,0
	80	1867	76	1032	60	1162	1332		
	90	2186	89	1290	75	1215	1385		
1000	70	1842	75	911	53	1370	1583	3,2	6,0
	80	2481	101	1376	80	1477	1690		
	90	2924	119	1720	100	1551	1763		
1500	70	2309	94	1135	66	1980	2299	4,0	6,0
	80	3120	127	1720	100	2115	2434		
	90	3661	149	2150	125	2205	2525		
2000	70	2801	114	1376	80	2594	3020	4,8	8,0
	80	3734	152	2064	120	2749	3175		
	90	4373	178	2562	149	2856	3282		
2500	70	3292	134	1634	95	3208	3740	5,6	8,0
	80	4398	179	2442	142	3392	3924		
	90	5160	210	3027	176	3519	4051		
3000	70	3734	152	1823	106	3813	4452	6,4	8,0
	80	4963	202	2752	160	4018	4656		
	90	5823	237	3440	200	4161	4800		

- a continuous DHW flow with TuDHW = 45°C
- b exchanger power with TuDHW = 45°C
- c continuous DHW flow with TuDHW = 60°C
- d exchanger power with TuDHW = 60°C
- e amount of DHW at 45°C in the first 10 min. with a storage temperature of 50°C
- f amount of DHW at 45°C in the first 10 min. with a storage temperature of 60°C
- Exchanger capacity: 7.10 Lt/mq

Technical information for SMART INOX 1 series



Pressure loss fixed heat exchanger



Stainless steel water heater with fixed heat exchanger - SMART INOX 2

The SMART INOX 2 gamma consists of water heaters for the production of domestic hot water with a double fixed heat exchanger. They are available in several capacities, from 200 up to 3000 litres and are insulated with very thick high density rigid polyurethane, externally covered in red PVC and equipped with a magnesium anode for the protection against galvanic currents, an inspection flange for the easy access during the inspection and maintenance phase and a safety valve.

Features

✓ Special versions:

The SMART INOX 1 water heaters can be customized on request in order to meet specific requirements, such as: customized dimensions, flanged couplings, customized couplings, thicker insulation, thick aluminium coating or other needs.

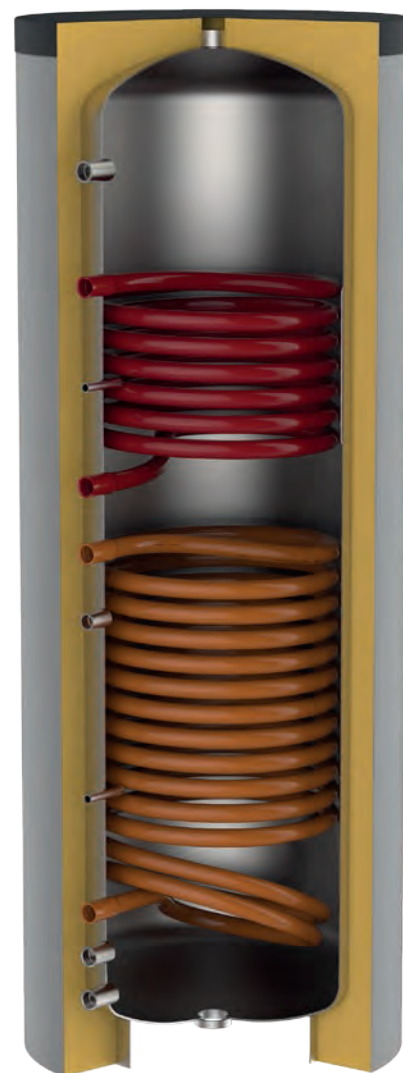
✓ Material: AISI 316 stainless steel

✓ Insulation:

All tanks are insulated with flexible polyurethane with a thickness of 100mm. The insulation can be removed, which makes it easier to install the tank in small spaces.

✓ Accessories on request:

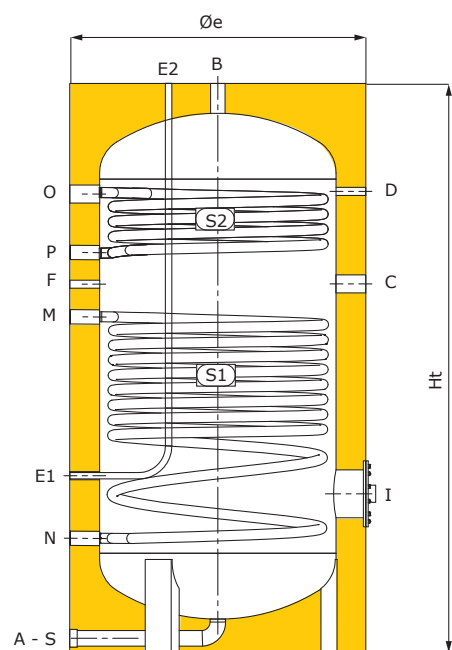
Thermometer, thermostat, impressed current electronic anode, resistance



Storage		Primary circuit	
max. temperature	max. pressure	max. temperature	max. pressure
95°C	6 bar	95°C	16 bar

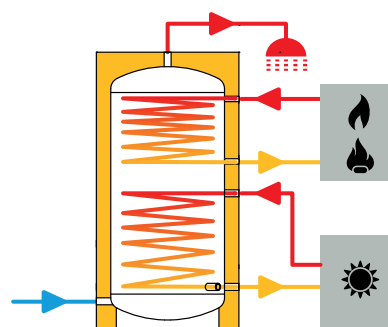
capacity l	code	price	energy label	packed dimensions cm
200	819040068X		C	75x75x120
300	819040069X		C	75x75x168
400	819040070X		C	75x75x180
500	819040071X		D	75x75x204
600	819040097X			75x75x204
800	819040072X			97x97x229
1000	819040073X			115x115x215
1500	819040074X			123x123x237.5
2000	819040075X			132x132x269.5
2500	819040102X			147x147x299
3000	819040103X			147x147x299

Stainless steel water heater with fixed heat exchanger - SMART INOX 2



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E1	probe
E2	probe
F	recirculation
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
O	upper exchanger inlet
P	upper exchanger outlet
S	discharge
q	inspection hole



Coupling chart

capacity l	A inch	B inch	C inch	D inch	E1-E2 mm	F inch	I inch	M inch	N inch	O inch	P inch	S inch	q mm
200	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	3/4"	3/4"	3/4"	3/4"	1"	100/160
300	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1"	1"	1"	1"	1"	100/160
400	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1"	1"	1"	1"	1"	100/160
500	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1"	1"	1"	1"	1"	100/160
600	1"	1"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1"	1"	1"	1"	1"	100/160
800	1 1/4"	1 1/4"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	100/160
1000	1 1/4"	1 1/4"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	160/220
1500	1 1/2"	1 1/2"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	220/300
2000	1 1/2"	1 1/2"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	220/300
2500	1 1/2"	1 1/2"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	220/300
3000	1 1/2"	1 1/2"	1 1/4"	1/2"	21,3	1/2"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	220/300

Height chart

capacity l	Øe mm	Ht mm	R* mm	E1 mm	F mm	I mm	M mm	N mm	O mm	P mm	q mm
200	650	1470	1608	425	870	870	770	265	1170	990	385
300	750	1510	1687	445	965	965	790	285	1190	1040	405
400	800	1700	1879	420	930	1050	765	260	1420	1270	380
500	800	1950	2108	420	1050	1060	885	260	1670	1445	380
600	850	2050	2220	500	1130	1130	1060	340	1745	1525	460
800	990	1920	2161	545	1185	1185	1005	395	1540	1360	505
1000	1000	2190	2408	555	1335	1335	1155	405	1800	1560	515
1500	1200	2200	2506	565	1295	1315	1115	415			545
2000	1400	2280	2676	600				450			580
2500	1400	2530	2892	600				450			580
3000	1450	2800	3154	615	1345	1645	1265	465	2365	2060	595

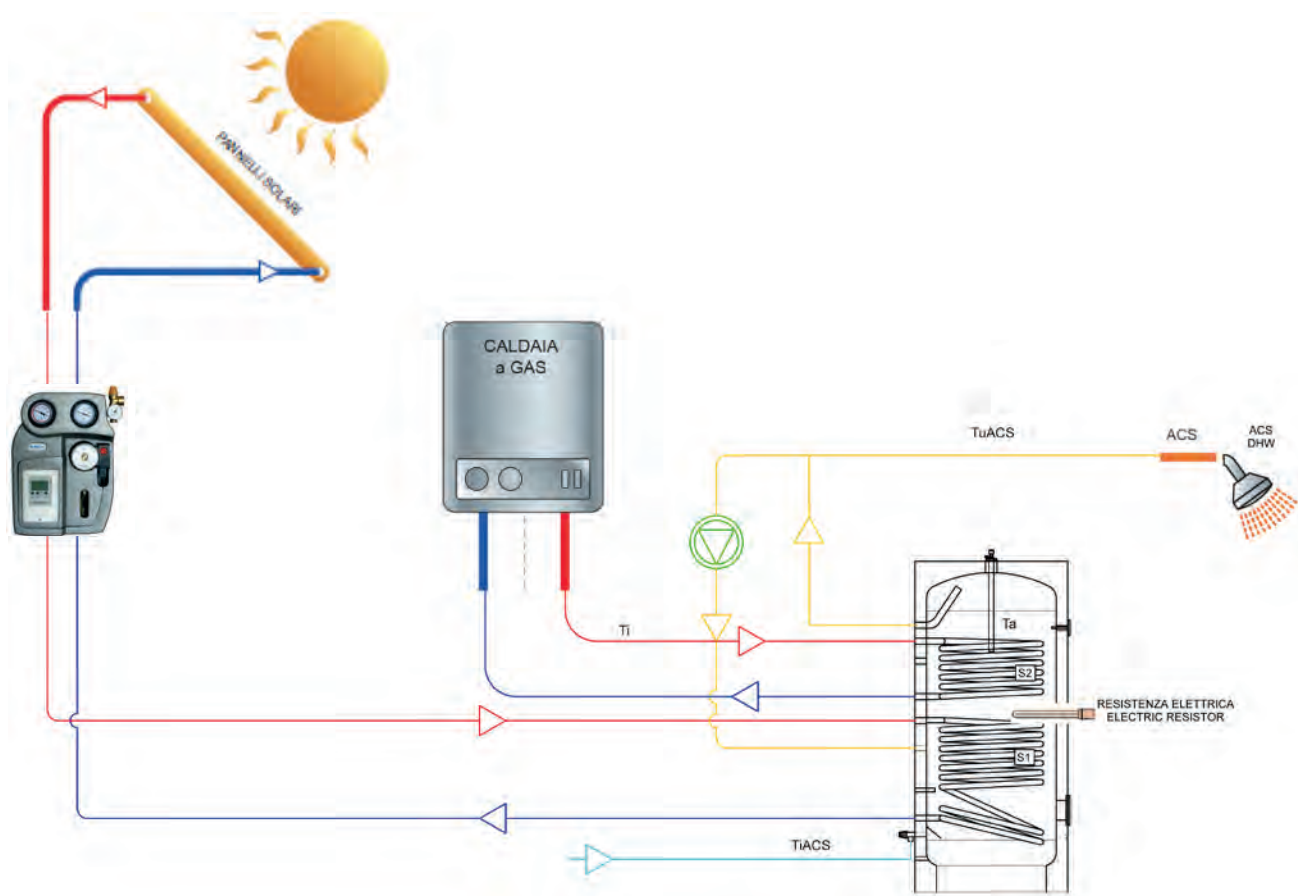
R*: reversal quota

Technical information for SMART INOX 2 series

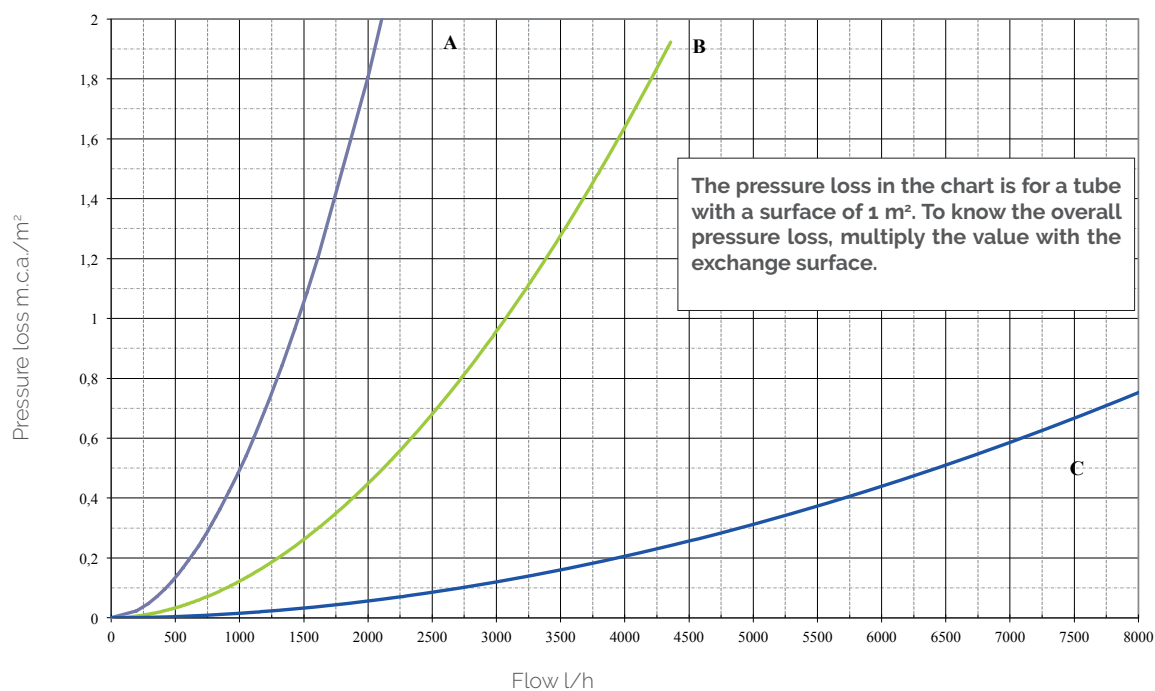
Capacity	Ti	DHW production TiDHW = 10°C						Upper exchanger	Lower exchanger	Nominal flow
		TuDHW= 45°C		TuDHW = 60°C		Ta = 50°C TuDHW = 45°C	Ta = 60°C TuDHW = 45°C	Surface area	Surface area	
		L/h (a)	kW (b)	L/h (c)	kW (d)	L/10 min. (e)	L/10 min. (f)	m²	m²	mc/h
200	70	270	11	137	8	257	300	1,0	0,5	3,0
	80	368	15	206	12	274	316			
	90	442	18	258	15	286	328			
300	70	344	14	154	9	376	440	1,3	0,6	3,0
	80	442	18	258	15	392	456			
	90	516	21	309	18	405	468			
400	70	344	14	172	10	482	567	1,3	0,6	3,0
	80	466	19	258	15	503	588			
	90	540	22	309	18	515	600			
500	70	589	24	292	17	630	736	1,9	1,0	3,0
	80	786	32	430	25	662	769			
	90	909	37	533	31	683	789			
600	70	565	23	275	16	732	860	1,9	1,0	3,0
	80	761	31	430	25	765	892			
	90	909	37	533	31	789	917			
800	70	688	28	344	20	965	1135	2,4	1,2	4,0
	80	933	38	516	30	1006	1176			
	90	1081	44	636	37	1031	1201			
1000	70	688	28	344	20	1178	1391	3,2	1,2	6,0
	80	933	38	516	30	1219	1432			
	90	1081	44	636	37	1243	1456			
1500	70	909	37	447	26	1747	2066	4,0	1,6	6,0
	80	1228	50	688	40	1800	2119			
	90	1449	59	860	50	1837	2156			
2000	70	1154	47	567	33	2319	2745	4,8	2,0	8,0
	80	1548	63	860	50	2385	2811			
	90	1818	74	1066	62	2430	2856			
2500	70	1400	57	688	40	2892	3424	5,6	2,4	8,0
	80	1867	76	1049	61	2970	3502			
	90	2211	90	1290	75	3028	3559			
3000	70	1400	57	688	40	3424	4063	6,4	2,4	8,0
	80	1867	76	1032	60	3502	4140			
	90	2186	89	1290	75	3555	4194			

- a continuous DHW flow with TuDHW= 45°C
- b exchanger power with TuDHW=45°C
- c continuous DHW flow with TuDHW= 60°C
- d exchanger power with TuDHW=60°C
- e amount of DHW at 45°C in the first 10 min. with a storage temperature of 50°C
- f amount of DHW at 45°C in the first 10 min. with a storage temperature of 60°C
- Exchanger capacity: 7.10 Lt/mq

Technical information for SMART INOX 2 series



Pressure loss fixed heat exchanger



A) 200 l tank B) 300 - 600 l tank C) 800 - 3000 l tank

Glass lined water heater with tube heat exchanger – BOIL

The BOIL gamma consists of water heaters with a tube heat exchanger for the production of domestic hot water. There are several capacities, from 200 up to 1000 litres. They are equipped, depending on the capacity, with very thick rigid or flexible insulation, an external cover in red PVC and a magnesium anode for the protection against galvanic currents.

Features

✓ Special versions:

The BOIL gamma can also be customized on request: customized dimensions, flanged couplings, customized couplings, thicker insulation, thick aluminium coating etc...

✓ Materials:

The boilers are made from high quality materials such as:

Tank: carbon steel ST235 JR

Tube heat exchanger: galvanized stainless steel ST235

Exchanger head: galvanized carbon steel ST235 JR

✓ Internal protective treatment:

Food grade inorganic glass lining according to DIN 4753.3

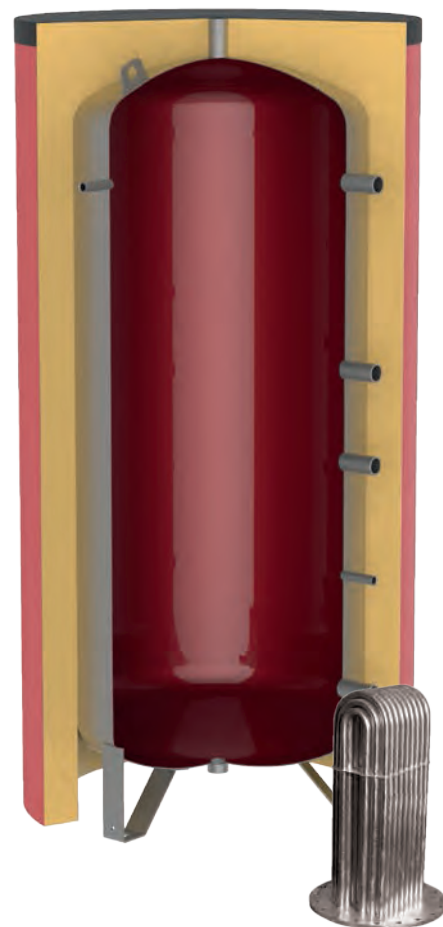
✓ Insulation:

The water heaters with a capacity from 200 to 300 litres are insulated with thick polyurethane with a thickness of 70mm.

The water heater with a capacity of 500 to 1000 litres are insulated with flexible polyurethane with a thickness of 100mm. The latter can be removed, which makes it possible to install the device in small spaces.

✓ Accessories on request:

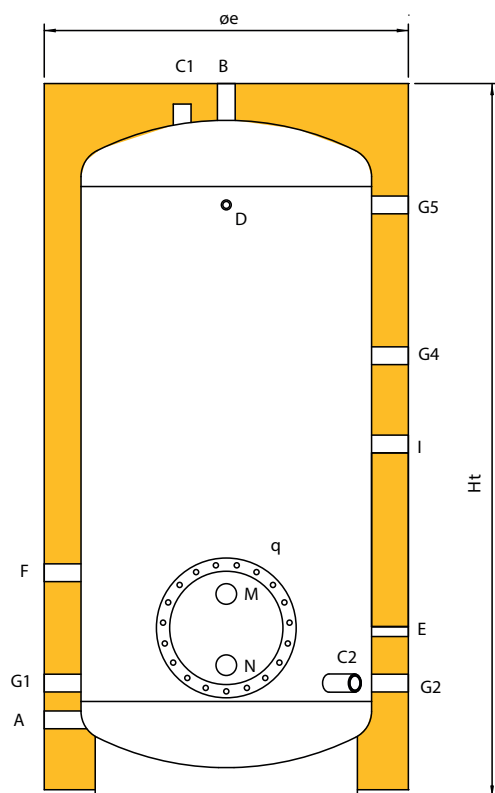
Tube heat exchanger for steam or superheated water, external plate heat exchanger kit, impressed current electronic anode, electrical resistance.



capacity l	Storage		Primary circuit	
	max. temperature	max. pressure	max. temperature	max. pressure
< 1000 l	95°C	10 bar	110°C	12 bar

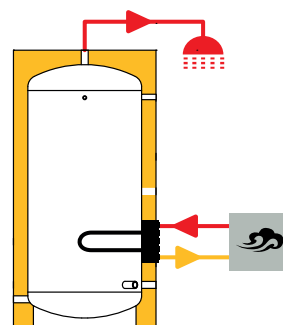
capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
200	818060068X		C	75x75x125	101
300	818060069X		C	75x75x150	113
500	818060070X		D	80x80x209	148
800	818060071X			105x105x214	283
1000	818060072X			105x105x245	322
				115x115x283	445

Glass lined water heater with tube heat exchanger – BOIL



Legend couplings

A	domestic water inlet
B	domestic water outlet
C1	anode
C2	anode
D	thermometer
E	thermostat
F	recirculation
G1	auxiliary
G2	auxiliary
G4	auxiliary
G5	auxiliary
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
q	inspection hole



Coupling chart

capacity l	A inch	B inch	C1 inch	C2 inch	D inch	E1 mm	F inch	G1 inch	G2 inch	I inch	G4 inch	G5 inch	M inch	N inch	q mm
200	1 1/4	1 1/4	1 1/4	-	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/4	1"	1"	220/300
300	1 1/4	1 1/4	1 1/4	-	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/4	1"	1"	220/300
500	1 1/4	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/4	1"	1"	220/300
800	1 1/4	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/4	2"	2"	300/380
1000	1 1/4	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/2	1 1/4	1 1/4	2"	2"	300/380

Height chart

capacity l	Øe mm	Ht mm	R* mm	A mm	C2 mm	D mm	E mm	F mm	G1 mm	G2 mm	G3 mm	G4 mm	G5 mm	M mm	N mm	q mm
200	700	1100	1304	130	-	884	320	420	220	130	540	660	970	390	270	330
300	700	1340	1512	130	-	1120	320	420	220	840	540	660	1060	390	370	330
500	800	1940	2099	150	250	1640	380	480	250	250	945	1090	1640	450	330	360
800	990	1990	2223	210	310	1610	460	610	310	310	960	1150	1610	532.5	387.5	460
1000	990	2300	2505	210	310	1910	460	610	310	310	915	1150	1910	532.5	387.5	460

R*: reversal quota

Water heater with tube heat exchanger, internal treatment with Bluetech – BOIL BLUE

The BLUE BOIL gamma consists of water heaters with tube heat exchanger for the production of domestic hot water. They are available in several capacities, from 500 up to 5000 litres. Depending on their capacity, they are equipped with very thick rigid or flexible insulation, external cover in red PVC and a magnesium anode for the protection against galvanic currents.

Features

✓ Special versions:

The BOIL BLUE gamma can also be customized on request: customized dimensions, flanged couplings, customized couplings, thicker insulation, thick aluminium coating etc...

✓ Materials:

The boilers are made from high quality materials such as:

Tank: carbon steel ST235 JR

Tube heat exchanger: AISI 304 stainless steel

Exchanger head: galvanized carbon steel ST235 JR

✓ Internal protective treatment:

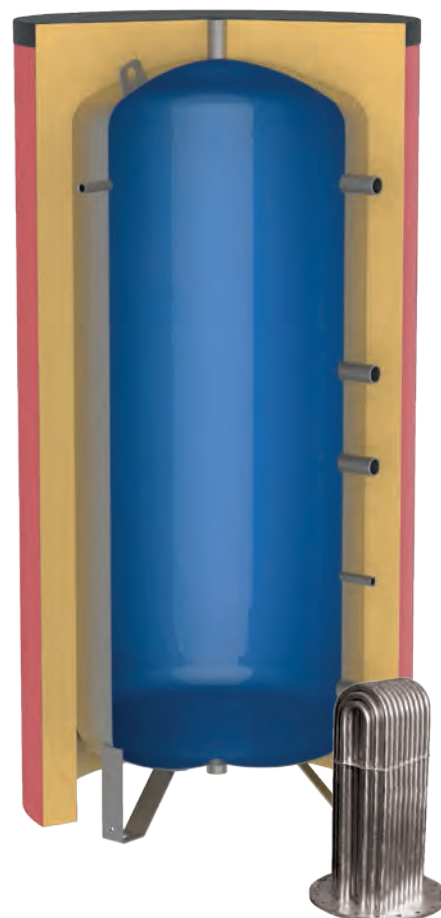
The water heaters are treated with Bluetech varnish, made of thermo-setting resins, and suited for use with drinking water and food.

✓ Insulation:

The water heaters are insulated with flexible polyurethane with a thickness of 100mm. The insulation can be removed, which makes it possible to install the device in small spaces.

✓ Accessories on request:

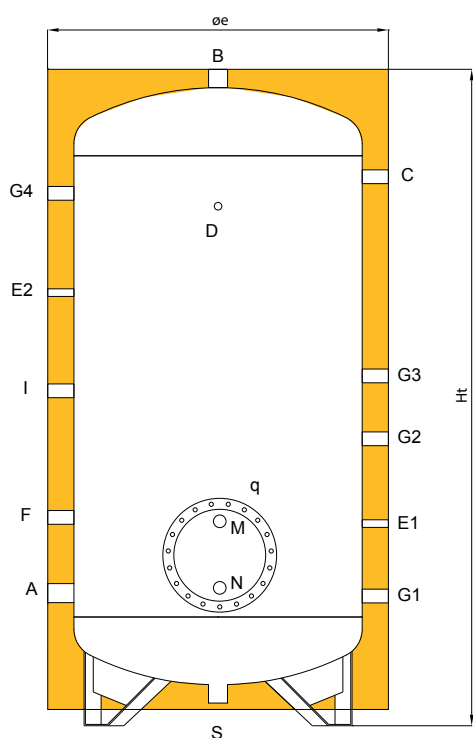
Tube heat exchanger for steam or superheated water, external plate heat exchanger kit, impressed current electronic anode, electrical resistance.



Storage		Primary circuit	
max. temperature	max. pressure	max. temperature	max. pressure
80°C	6 bar	110°C	12 bar

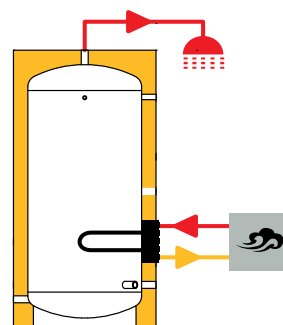
capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
500	818080372X		D	88x88x192,5	118
800	818080373X			102x102x221	181
1000	818080374X			107x107x224	206
1500	818080375X			123x123x237,5	262
2000	818080361X			132x132x269,5	324
2500	818080362X			147x147x277,5	368
3000	818080363X			147x147x299	409
4000	818080364X			163x163x306	582
5000	818080365X			183x183x310	687

Water heater with tube heat exchanger, internal treatment with Bluetech – BOIL BLUE



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E1	thermostat
E2	thermostat
F	recirculation
G1	auxiliary
G2	auxiliary
G3	auxiliary
G4	auxiliary
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
S	discharge
q	inspection hole



Coupling chart

capacity l	A pollici	B pollici	C pollici	D pollici	E1 mm	E2 mm	F pollici	G1 pollici	G2 pollici	G3 pollici	G4 pollici	G5 pollici	I pollici	M pollici	N pollici	S pollici	q mm
500	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	\	1 1/2	1"	1"	1 1/4	220/300
800	1 1/2	1 1/2	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	\	1 1/2	2"	2"	1 1/4	300/380
1000	1 1/2	1 1/2	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	\	1 1/2	2"	2"	1 1/4	300/380
1500	2"	2"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	\	1 1/2	2"	2"	1 1/4	300/380
2000	2"	2"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	\	1 1/2	2"	2"	1 1/4	350/430
2500	2 1/2	2 1/2	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	\	1 1/2	2"	2"	1 1/4	350/430
3000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	\	1 1/2	2"	2"	1 1/4	350/430
4000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	\	1 1/2	2"	2"	1 1/4	350/430
5000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	\	1 1/2	2"	2"	1 1/4	350/430

Height chart

capacity l	Øe mm	Ht mm	R* mm	A mm	C mm	D mm	E1 mm	E2 mm	F mm	G1 mm	G2 mm	G3 mm	G4 mm	I mm	M mm	N mm	q mm
500	850	1805	1996	375	1445	1445	675	1145	675	375	975	1215	-	845	505	385	445
800	950	2090	2296	390	1720	1720	710	1420	710	390	1010	1230	-	1160	572,5	427,5	500
1000	1050	2120	2366	400	1720	1720	700	1420	755	400	1000	1240	-	1140	582,5	437,5	510
1500	1200	2255	2555	500	1810	1810	805	1515	805	500	1100	1340	-	1230	672,5	527,5	600
2000	1300	2575	2885	505	2115	2115	805	1805	805	505	1105	1345	-	1505	715	525	620
2500	1400	2655	3002	565	2150	2150	865	1850	850	565	1165	1405	-	1550	775	585	680
3000	1450	2870	3216	575	2350	2350	800	2050	850	575	1050	1415	-	1750	785	595	690
4000	1600	2940	3348	600	2380	2380	900	2080	870	600	1200	1440	-	1780	810	620	715
5000	1800	2980	3482	610	2385	2385	910	2085	885	610	1210	1450	-	1785	820	630	725

R*: reversal quota

Water heater with tube heat exchanger

BOIL INOX

The BOIL INOX gamma consists of water heaters with tube heat exchanger for the production of domestic hot water. They are available in several capacities, from 200 up to 5000 litres and equipped with very thick flexible insulation, external cover in red PVC and a magnesium anode for protection against galvanic currents.

Features

✓ Special versions:

The BOIL INOX gamma can also be customized on request: customized dimensions, flanged couplings, customized couplings, thicker insulation, thick aluminium coating etc...

✓ Materials:

The boilers are made from high quality materials such as:

Tank: AISI 316T stainless steel

Tube heat exchanger: AISI 316 stainless steel

Exchanger head: galvanized carbon steel ST235 JR

✓ Insulation:

The water heaters are insulated with flexible polyurethane with a thickness of 100mm. The insulation can be removed, which makes it possible to install the device in small spaces.

✓ Accessories on request:

Tube heat exchanger for steam or superheated water, external plate heat exchanger kit, impressed current electronic anode, electrical resistance.

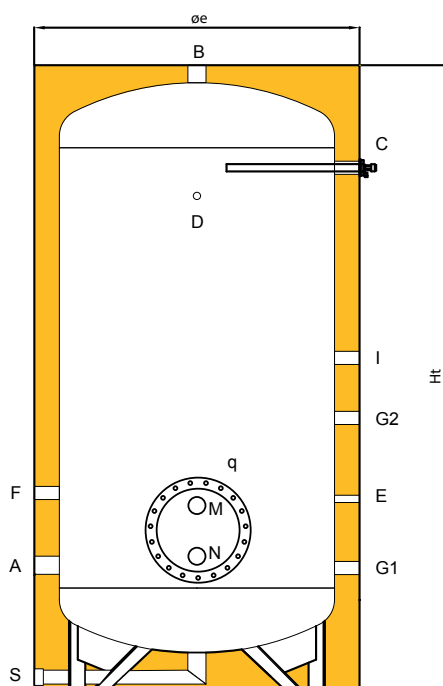


Storage		Primary circuit	
max. temperature	max. pressure	max. temperature	max. pressure
95°C	6 bar	110°C	12 bar

capacity l	code	price	energy label	packed dimensions cm
200	818040067X		C	68x68x159
300	818040068X		C	78x78x163
500	818040069X		D	83x83x207
800	818040070X			102x102x204
1000	818040071X			103x103x231
1500	818040072X			123x123x232
2000	818040073X			143x143x240
2500	818040074X			143x143x265
3000	818040075X			148x148x292
4000	818040076X			163x163x300
5000	818040077X			183x183x303

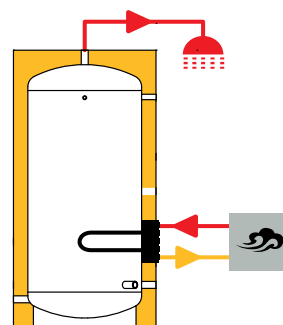
Water heater with tube heat exchanger

BOIL INOX



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E	thermostat
F	recirculation
G1	auxiliary
G2	auxiliary
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
S	discharge
q	inspection hole



Coupling chart

capacity l	A inch	B inch	C inch	D inch	E mm	F inch	G1 inch	G2 inch	I inch	M inch	N inch	S inch	q mm
200	1"	1"	1 1/4"	1/2"	1/2"	1"	1 1/4"	1 1/4"	1 1/2"	1"	1"	1"	220/300
300	1"	1"	1 1/4"	1/2"	1/2"	1"	1 1/4"	1 1/4"	1 1/2"	1"	1"	1"	220/300
500	1"	1"	1 1/4"	1/2"	1/2"	1"	1 1/4"	1 1/4"	1 1/2"	1"	1"	1"	220/300
800	1 1/4"	1 1/4"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	2"	1 1/4"	300/380
1000	1 1/4"	1 1/4"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	2"	1 1/4"	300/380
1500	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	2"	1 1/2"	300/380
2000	2"	2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	2"	2"	350/430
2500	2"	2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	2"	2"	350/430
3000	2"	2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	2"	2"	350/430
4000	2 1/2"	2 1/2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	2"	2 1/2"	350/430
5000	2 1/2"	2 1/2"	1 1/4"	1/2"	1/2"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	2"	2"	2 1/2"	350/430

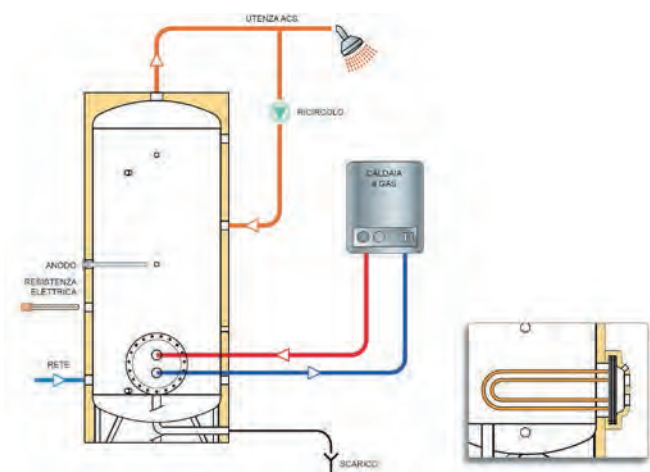
Height chart

capacity l	Øe mm	Ht mm	R* mm	A mm	C mm	D mm	E mm	F mm	G1 mm	G2 mm	I mm	M mm	N mm	q mm
200	650	1470	1608	275	1195	1195	275	725	275	1115	870	435	315	375
300	750	1510	1687	295	1215	1215	295	745	295	1135	965	455	335	395
500	800	1950	2108	270	1690	1690	270	970	270	1110	1050	430	310	370
800	990	1920	2161	395	1550	1550	395	970	395	1235	1185	607.5	462.5	535
1000	1000	2190	2408	405	1805	1805	405	1105	405	1245	1445	617.5	472.5	545
1500	1200	2200	2506	425	1815	1815	425	1115	425	1265	1455	627.5	482.5	555
2000	1400	2280	2676	460	1850	1850	460	1150	460	1300	1490	710	520	615
2500	1400	2530	2892	460	2100	2100	460	1275	460	1300	1350	710	520	615
3000	1450	2800	3154	475	2365	2365	475	1415	475	1315	1645	725	535	630
4000	1600	2880	3295	530	2400	2400	530	1450	530	1370	1680	760	570	665
5000	1800	2910	3422	530	2400	2400	530	1450	530	1370	1680	760	570	665

R*: reversal quota

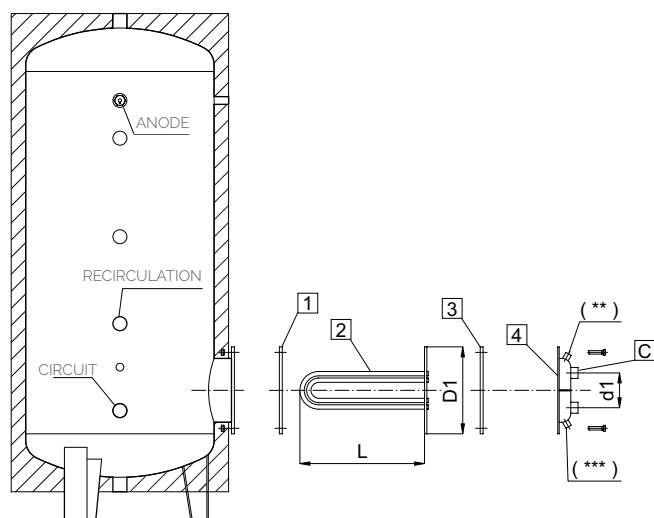
Technical information for BOIL series

DHW production TiDHW = 10°C								Exchanger		
Capacity	Ti	TuDHW = 45°C		TuDHW = 60°C		Ta = 50°C TuDHW = 45°C	Ta = 60°C TuDHW = 45°C	Surface area	Capacity	Nominal flow
l	°C	L/h (a)	kW (b)	L/h (c)	kW (d)	L/10 min. (e)	L/10 min. (f)	m²	l	mc/h
200	70	196	8.0	96	5.6	258	315	0.5	2	5
	80	247	10.0	137	8.0	266	323			
	90	297	12.1	175	10.2	273	330			
300	70	290	11.8	143	8.3	384	470	0.75	2.8	5
	80	366	14.9	203	11.8	395	480			
	90	440	17.9	259	15.1	405	491			
500	70	383	15.6	189	11.0	620	763	1	3.6	5
	80	482	19.6	269	15.6	632	775			
	90	580	23.6	342	19.9	644	787			
800	70	562	22.9	278	16.2	983	1212	1.5	5.9	10
	80	707	28.8	395	23.0	1001	1229			
	90	849	34.6	502	29.2	1018	1247			
1000	70	732	29.8	365	21.2	1224	1510	2	7.2	10
	80	921	37.5	517	30.0	1245	1531			
	90	1106	45.0	656	38.1	1266	1552			
1500	70	1054	42.9	530	30.8	1837	2266	3	10.9	10
	80	1322	53.8	746	43.4	1869	2297			
	90	1585	64.5	944	54.9	1899	2328			
2000	70	1348	54.9	684	39.7	2421	2992	4	14.7	20
	80	1688	68.7	959	55.7	2454	3026			
	90	2020	82.2	1210	70.3	2488	3059			
2500	70	1620	65.9	828	48.1	3014	3728	5	18.5	20
	80	2022	82.3	1156	67.2	3053	3767			
	90	2416	98.3	1455	84.6	3091	3805			
3000	70	1620	65.9	828	48.1	3577	4434	6	22	20
	80	2022	82.3	1156	67.2	3614	4471			
	90	2416	98.3	1455	84.6	3650	4507			
4000	70	2308	93.9	1209	70.3	4775	5918	8	30.1	20
	80	2863	116.5	1666	96.8	4824	5967			
	90	3407	138.6	2080	120.9	4872	6015			
5000	70	2681	109.1	1426	82.9	5938	7366	10	36.4	20
	80	3314	134.9	1949	113.3	5990	7419			
	90	3932	160.0	2422	140.8	6042	7470			



- a continuous DHW flow with TuDHW = 45°C
- b exchanger power with TuDHW = 45°C
- c continuous DHW flow with TuDHW = 60°C
- d exchanger power with TuDHW = 60°C
- e amount of DHW at 45°C in the first 10 min. with a storage temperature of 50°C
- f amount of DHW at 45°C in the first 10 min. with a storage temperature of 60°C
- Exchanger capacity: 7.10 Lt/mq

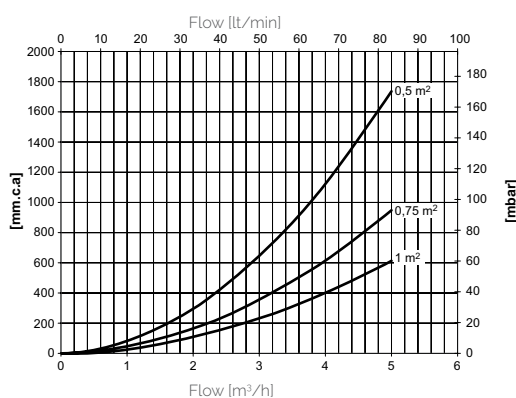
Technical information for BOIL series



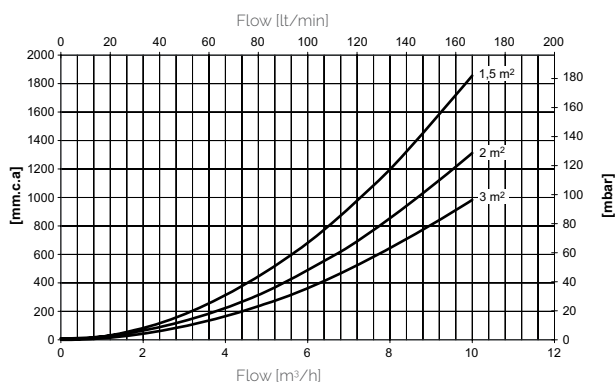
Legend couplings

- 1 gaskets S/T
black rubber (**)
asbestos free (***)
- 2 tube heat exchanger
- 3 gaskets C/T
black rubber (**)
asbestos free (***)
- 4 head

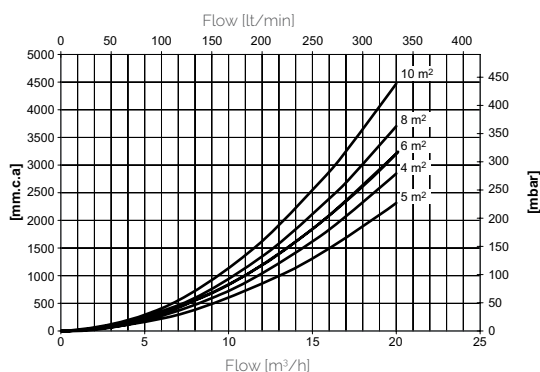
(**) = functioning with water
(***) = functioning with steam



0,5 - 0,75 - 1 m²



1,5 - 2 - 3 m²

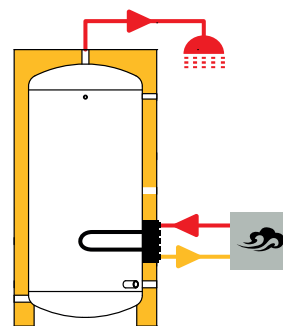


4 - 5 - 6 - 8 - 10 m²

Tube heat exchanger (copper or AISI 304 stainless steel)					
Capacity l	surface m ²	D1	L	d1	C
200	0,5	300	400	120	1°F
300	0,75	300	430	120	1°F
500	1	300	430	120	1°F
750	1,5	380	590	150	2°F
1000	2	380	590	150	2°F
1500	3	380	720	150	2°F
2000	4	430	750	200	2°F
2500	5	430	780	200	2°F
3000	6	430	1000	200	2°F
4000	8	430	1250	200	2°F
5000	10	430	1520	200	2°F

Hot water

Customized water heater with extractible exchanger – BOIL Custom – 1 inspection hole



2



exchanger with copper spiral

1



tube heat exchanger

The concept of the Boil custom gamma was introduced to give the user the possibility of composing their own system for domestic hot water production by coupling it with several types of storage tanks and exchangers. This enables the conception of flexible solutions for every type of storage tank, volume or power of the exchanger. The option with one hole makes it possible to couple the storage tanks listed below with a tube heat exchanger or an exchanger with copper spiral. The following pages discuss the possible combinations.

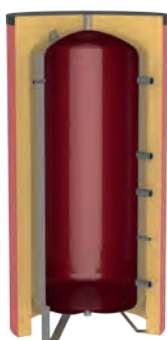
Storage tanks with one inspection hole.

Available options:

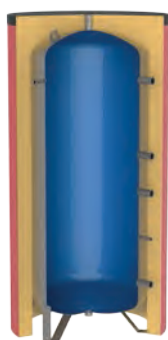
FLEXY glass lined version (see p. 104)

FLEXY BLUE (version with inspection hole): version with Bluetech enameling (see p. 106)

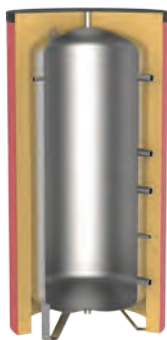
FLEXY INOX version in AISI 316 stainless steel (vedi p. 108)



FLEXY



FLEXY
BLUE



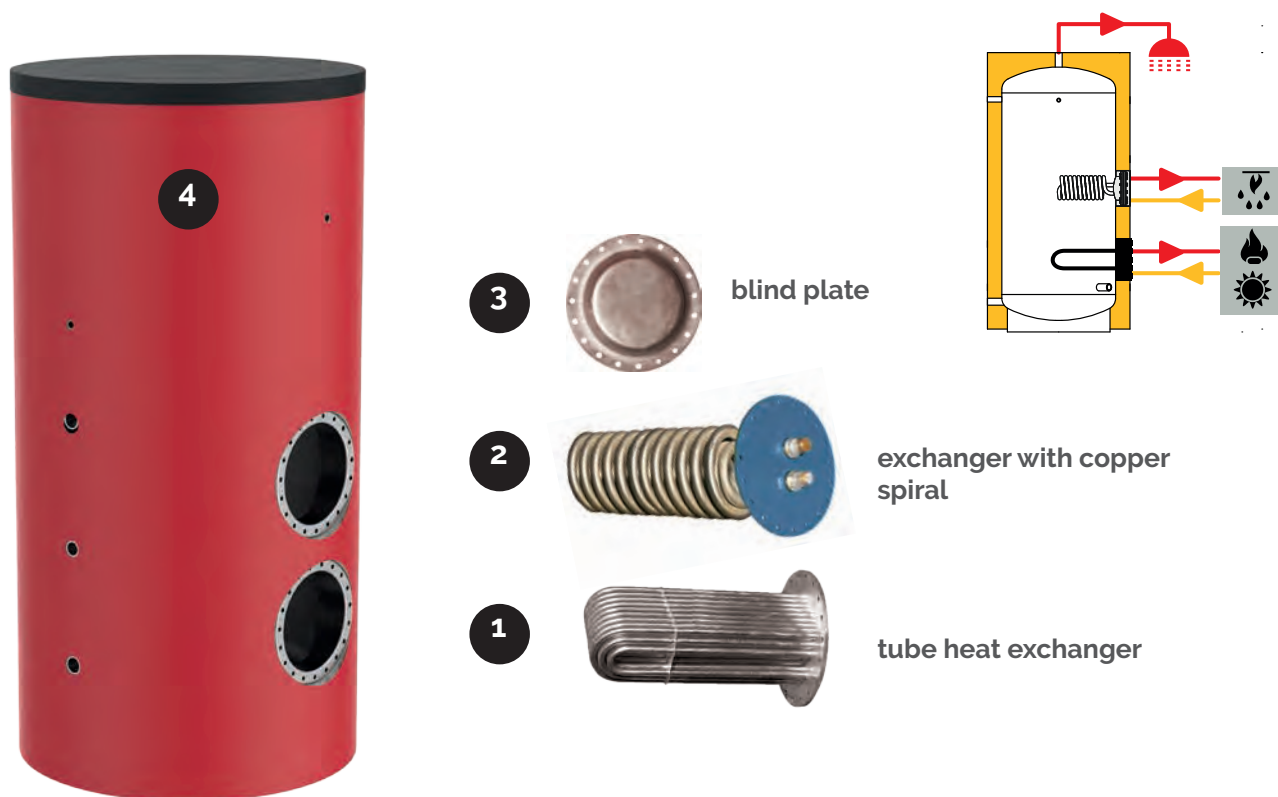
FLEXY
INOX

❖ how to compose a Boil custom installation

- 1) take the code of the Flexy storage tank with inspection hole
 2. Add the code of the exchanger
- You can choose between the following:
- Tube heat exchanger (p.145)
 - Exchanger with copper spiral (p.146)

BOIL CUSTOM CODE =
Storage tank code
exchanger code

Customized water heater with extractible exchanger – BOIL Custom – 2 inspection holes



The concept of the Boil custom gamma was introduced to give the user the possibility of composing their own system for domestic hot water production by coupling it with several types of storage tanks and exchangers. This enables the conception of flexible solutions for every type of storage tank, volume or power of the exchanger. The option with two inspection holes makes it possible to couple the storage tank with:

- ✓ Two tube heat exchangers
- ✓ Two exchangers with a copper spiral
- ✓ A tube heat exchanger and an exchanger with a copper spiral
- ✓ One of the two heat exchangers and a blind plate that guarantees an easy inspection.

❖ Come comporre il Boil Custom

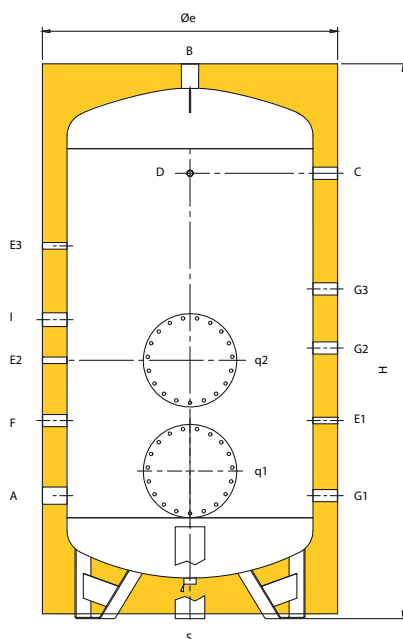
1) take the code of the storage tank with two inspection holes
2) add the code of the exchanger
You can choose between
- tube heat exchanger (see p. 145)
- heat exchanger with a copper spiral (see p. 146)

Boil custom code =
code of storage tank +
code of exchanger

Codes and prices of the tanks with two inspection holes

capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
200	817080134X		C	68x68x155,5	55
300	817080135X		C	78x78x164	80
500	817080136X		D	88x88x192,5	105
800	817080137X			102x102x221	160
1000	817080138X			107x107x224	180
1500	817080139X			123x123x237,5	230
2000	817080140X			132x132x269,5	280
2500	817080141X			147x147x277,5	315
3000	817080142X			147x147x299	350
4000	817080143X			163x163x306	505
5000	817080144X			183x183x310	595

Customized water heater with extractible exchanger – BOIL Custom – 2 inspection holes



Legend couplings

A	domestic water inlet
B	domestic water outlet
C	anode
D	thermometer
E 1	thermostat
E 2	thermostat
E 3	thermostat
F	recirculation
G1	auxiliary
G2	auxiliary
G3	auxiliary
I	electrical resistor
M	primary circuit inlet
N	primary circuit outlet
S	discharge
q1	inspection hole
q2	inspection hole

Features

✓ Material:

ST 235 JR carbon steel

✓ Internal protective treatment:

Bluetech enamelling with thermosetting resins, suited for domestic water

✓ Insulation:

All tanks are insulated with flexible polyurethane with a thickness of 100 mm. The insulation can be removed.

✓ Available accessories:

Thermometer, thermostat, current impressed electronic anode, safety valve, electrical resistance, external plate heat exchanger kit.

✓ Supplied accessories:

Sacrificial magnesium anode

Coupling chart

capacity l	A inch	B inch	C inch	D inch	E1 inch	E2 inch	E3 inch	F inch	G1 inch	G2 inch	G3 inch	I inch	M inch	N inch	S inch	q1 / q2
200	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1"	1"	1 1/4	Ø 220/300
300	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1"	1"	1 1/4	Ø 220/300
500	1 1/4	1 1/4	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1"	1"	1 1/4	Ø 220/300
800	1 1/2	1 1/2	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	2"	1 1/4	Ø 300/380
1000	1 1/2	1 1/2	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	2"	1 1/4	Ø 300/380
1500	2"	2"	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	2"	1 1/4	Ø 300/380
2000	2"	2"	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	2"	1 1/4	Ø 350/430
2500	2 1/2	2 1/2	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	2"	1 1/4	Ø 350/430
3000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	2"	1 1/4	Ø 350/430
4000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	2"	1 1/4	Ø 350/430
5000	3"	3"	1 1/4	1/2"	1/2"	1/2"	1/2"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	2"	2"	1 1/4	Ø 350/430

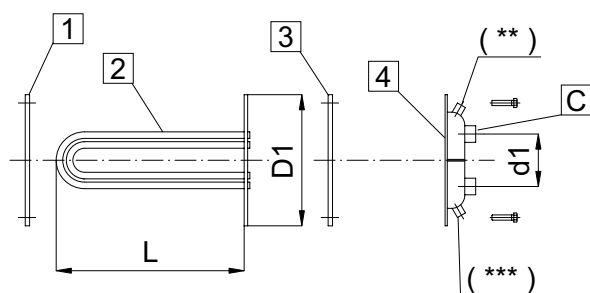
Height chart

capacity l	Øe mm	Ht mm	R* mm	A mm	C mm	D mm	E1 mm	E2 mm	E3 mm	F mm	G1 mm	G2 mm	G3 mm	I mm	q1 mm	q2 mm
200	650	1435	1576	310	**	1150	620	730	-	440	310	930	1150	555	380	730
300	750	1520	1695	355	**	1195	655	775	-	485	355	955	1195	625	425	775
500	850	1805	1996	375	1445	1445	675	795	1145	675	375	975	1215	960	445	795
800	950	2090	2296	390	1720	1720	710	980	1420	710	390	1010	1230	1160	500	980
1000	1050	2120	2366	400	1720	1720	700	960	1420	755	400	1000	1240	1140	510	960
1500	1200	2255	2555	500	1810	1810	805	1050	1515	805	500	1100	1340	1230	600	1050
2000	1300	2575	2885	505	2115	2115	805	1150	1805	805	505	1105	1345	1505	620	1150
2500	1400	2655	3002	565	2150	2150	865	1210	1850	850	565	1165	1405	1550	680	1210
3000	1450	2870	3216	575	2350	2350	800	1220	2050	850	575	1050	1415	1750	690	1220
4000	1600	2940	3348	600	2380	2380	900	1245	2080	870	600	1200	1440	1780	715	1245
5000	1800	2980	3482	610	2385	2385	910	1255	2085	885	610	1210	1450	1785	725	1255

R*: reversal quota

**for the 200 and 300 L tanks, the anode is placed in the G2 coupling.

Customized water heater with extractible heat exchanger – BOIL custom – tube heat exchanger



Legend couplings

1	gasket without cross-beam
2	tube heat exchanger
3	gasket with cross-beam
4	head

Compatibility between (1) the tube heat exchanger and (4) the storage tank

Capacity l	Surface m²										
	0,5	0,75	1	1,5	2	2,5	4	5	6	8	10
200	✓	✓	✓								
300	✓	✓	✓								
500	✓	✓	✓								
800				✓	✓	✓					
1000				✓	✓	✓					
1500				✓	✓	✓					
2000							✓	✓	✓		
2500							✓	✓	✓		
3000							✓	✓	✓	✓	
4000							✓	✓	✓	✓	✓
5000							✓	✓	✓	✓	✓

✓ Combination is possible

surf. m ²	Version 1 INOX AISI 304		Version 2 INOX AISI 316		Version with steam P ≤ 6 bar			Version with steam P ≤ 12 bar		
	code	price	code	price	code	price	cat. P.E.D.	code	price	cat. P.E.D.
0,5	821030379X		821030393X		821030285X		Art.3 par.3	821030405X		Cat. I
0,75	821030380X		821030394X		821030286X		Art.3 par.3	821030406X		Cat. I
1	821030381X		821030395X		821030287X		Art.3 par.3	821030407X		Cat. I
1,5	821030382X		821030396X		821030288X		Cat. I	821030408X		Cat. I
2	821030383X		821030397X		821030289X		Cat. I	821030409X		Cat. I
3	821030385X		821030399X		821030291X		Cat. I	821030411X		Cat. I
4	821030386X		821030400X		821030292X		Cat. I	821030412X		Cat. II
5	821030387X		821030401X		821030293X		Cat. I	821030413X		Cat. II
6	821030388X		821030402X		821030294X		Cat. I	821030414X		Cat. II
8	821030389X		821030403X		821030296X		Cat. I	821030416X		Cat. II
10	821030390X		821030404X		821030298X		Cat. II	821030418X		Cat. II

Version 1: AISI 304 stainless steel tube heat exchanger, assembled on a varnished plate

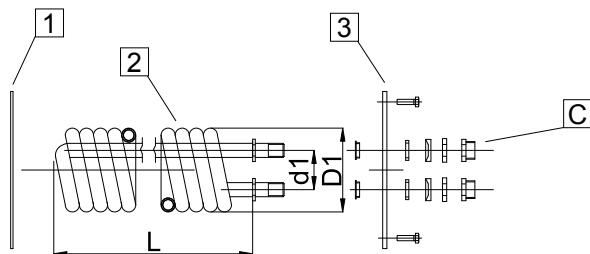
Version 2 and version with steam: AISI 306 stainless steel tube heat exchanger, assembled on a stainless steel plate

Technical information tube heat exchanger

Surface area m ²	Power kW	D1 mm	L mm	d1 mm	C inch	Volume l
0,5	12,2	300	400	120	1"F	3,15
0,75	18,4	300	430	120	1"F	4,15
1	24,5	300	430	120	1"F	5,15
1,5	36,7	380	590	150	2"F	8,43
2	49	380	590	150	2"F	10,43
3	73,5	380	720	150	2"F	13,43
4	98	430	750	200	2"F	18,1
5	122,5	430	780	200	2"F	21,6
6	147	430	1000	200	2"F	23,9
8	196	430	1250	200	2"F	33,1
10	245	430	1520	200	2"F	40,1

Performance calculated with the following temperatures: primary 80°C and domestic water 10-45°C

Customized water heater with extractible heat exchanger – BOIL custom with copper spiral coil



Legend couplings

- 1 gasket without cross-beam
- 2 copper spiral coil
- 3 assembly plate

Compatibility chart for (2) copper spiral coil and (4) storage tank

Capacity l	Surface area m ²							
	0,82	1,38	1,53	2,27	3,1	4,54	5,26	6,34
200	✓	✓	✓	✓	✓			
300	✓	✓	✓	✓	✓			
500	✓	✓	✓	✓	✓			
800	✓	✓	✓	✓	✓	✓	✓	✓
1000	✓	✓	✓	✓	✓	✓	✓	✓
1500	✓	✓	✓	✓	✓	✓	✓	✓
2000	✓	✓	✓	✓	✓	✓	✓	✓
2500	✓	✓	✓	✓	✓	✓	✓	✓
3000	✓	✓	✓	✓	✓	✓	✓	✓
4000	✓	✓	✓	✓	✓	✓	✓	✓
5000	✓	✓	✓	✓	✓	✓	✓	✓

Copper spiral coil

✓ Combination is possible

Surface area m ²	Assembled on a plate ø 300 (D1)		Assembled on a plate ø 380 (D1)		Assembled on a plate ø 430 (D1)	
	code	price	code	price	code	price
0,82	821040017		821040254X		821040259X	
1,38	821040019		821040255X		821040260X	
1,53	821040020		821040256X		821040261X	
2,27	821040252X		821040021		821040262X	
3,1	821040253X		821040022		821040263X	
4,54	-	-	821040023		821040027	
5,26	-	-	821040257X		821040024	
6,34	-	-	821040258X		821040025	

The copper coils are supplied with plates, bolts, nuts and gaskets

Technical information copper spiral coil

Surface area m ²	Type of coil	D1 mm	d1 mm	L mm	C inch	Internal volume l	Thermal efficiency (*) kW	Dp kPa
0,82	SS	160	75	380	3/4"	0,7	15	25
1,38	SS	170	75	420	3/4"	1,2	21,6	30
1,53	SS	170	75	450	3/4"	1,4	24	35
2,27	SS	170	75	570	3/4"	2	27	35
3,1	SD	180	90	550	1"1/4	2,7	35	26
4,54	SD	242	120	570	1"1/4	3,9	55	35
5,26	SD	242	120	660	1"1/4	4,5	57,5	35
6,34	SD	242	120	780	1"1/4	5,5	61,5	35

*Performance calculated with the following temperatures: primary 80°C and domestic water 10-45°C

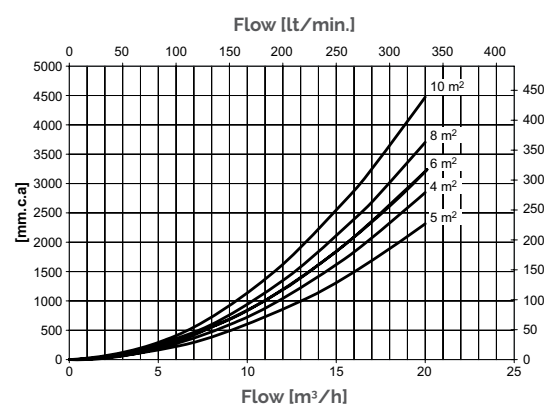
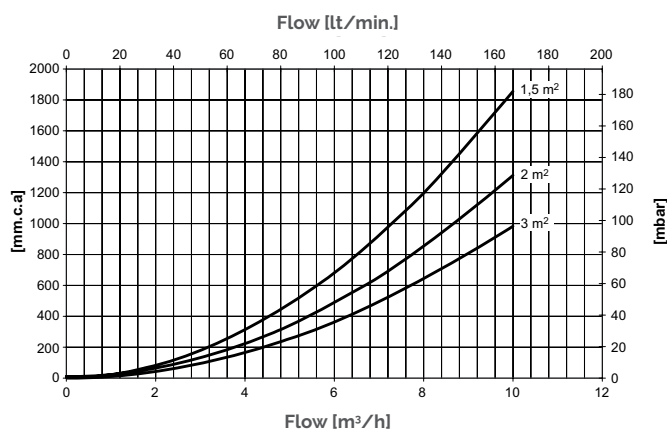
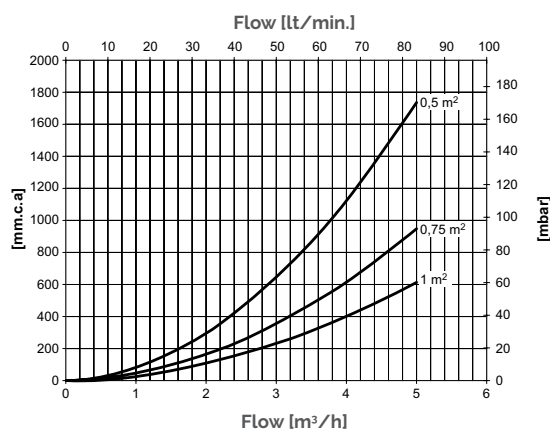
SS single coil with one tube

SD double coil with two tubes connected in parallel

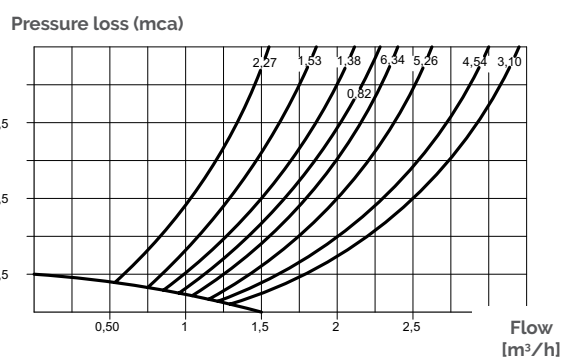
Customized water heater with extractible heat exchanger – BOIL custom

Curve: pressure loss

Pressure loss tube heat exchanger



Pressure loss copper spiral coil



Accessories



Diameter mm	Without crossbeam		With crossbeam	
	Code	Price	Code	Price
300	808020050		808020045	
380	808020051		808020046	
430	808020052		808020047	

The copper coils have a gasket without cross-beam with the same diameter as the assembly plate.

The tube heat exchangers have two gaskets: one with and one without a cross-beam. Both have the same diameter as the closing head.

The blind closing heads have one gasket without cross-beam with the same diameter as the assembly plate.



Diameter mm	Code	Price
300	843030018X	
380	843030019X	
430	843030020X	

The heads are made of carbon steel, varnished for alimentary use. They are supplied with nuts, bolts and gaskets.

Hot water cylinder for DHW

AFK, AFK-INOX

The AFK and AFK INOX systems for the fast production of domestic hot water are composed of two parts: a Flexy or Boil storage tank with a capacity of up to 2000l and an AFK kit. The AFK kit consists of a high efficiency gasketed plate thermal exchange unit and a circulation pump on the domestic water circuit. Because of the possibility of combining the AFK kit with a large number of storage tanks, we can come up with many options for the fast production of domestic hot water in small and medium-sized buildings (houses, restaurants, hotels, sport centres, etc.). It is also possible to couple the storage tank with an external heat exchanger. This reduces the stress on the system and optimizes the equilibrium between the power of the heater (or heat generator) and the performance of the heat exchanger.

This makes it possible to:

- ✓ opt for a smaller tank than with a traditional water heater
- ✓ customize the combination of the storage tank's volume and the thermal capacity of the heat exchanger

With the SLC electronic control unit you can manage the system by using the pre-set hydraulic schemes, which makes it possible to optimize and control the functioning of the system.



❖ How to compose the AFK system you want?

1. take the code of the AFK kit with the desired power
2. take the code of the storage tank or the water heater you want to connect (see Flexy and Boil sections)
3. if desired, choose one of the accessories

The AFK kits consist of:

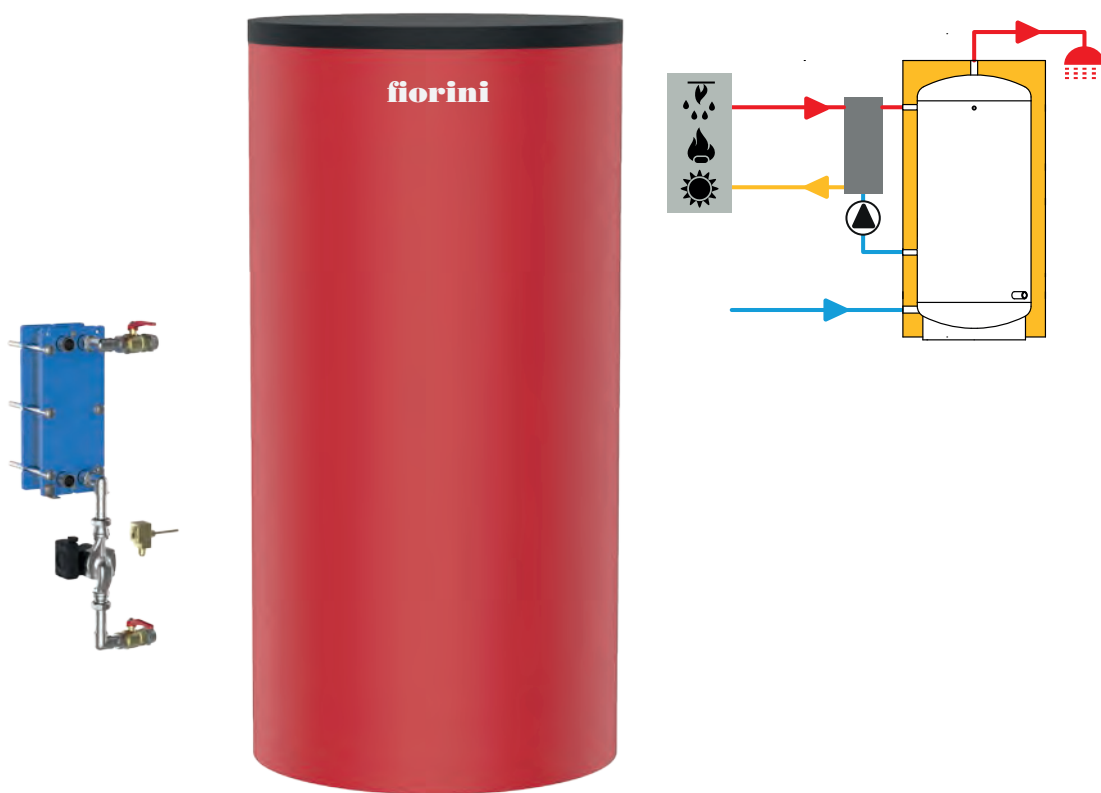
- ✓ a K042 gasketed plate heat exchanger with a various number of plates depending on the power which has to be exchanged
- ✓ high efficiency recirculation pump
- ✓ chrome-plated brass pipe fittings

✓ Materials

The heat exchange unit, i.e. the K042 heat exchanger, is made of corrugated AISI 316 stainless steel plates, encased in a carbon steel frame. The frame is varnished with epoxy dust and closed with galvanized steel bolts and nuts.

The plates are separated with NBR or EPDM (on demand) gaskets. The body of the storage tank, the internal protective treatments and the available insulation are indicated in the sections on the Flexy and the Boil water heaters in this catalogue.

Hot water cylinder for DHW AFK, AFK-INOX



Kit AFK

Flexy series p.104
Flexy Blue series p. 106
Flexy Inox series p. 108

Size of the exchanger l	Power kW	Continuous DHW production l/h	dP Primary kPa	Couplings inch	Min-max power of the pump W	Tension V/Hz/ph	Min-max current A
K042/09	35 14*	859	18	1"1/4	3-140	230/50/1	0,04-1,1
K042/15	70 24*	1717	24	1"1/4	3-140	230/50/1	0,04-1,1
K042/21	115 34*	2862	33	1"1/4	3-140	230/50/1	0,04-1,1
K042/25	150 40*	3721	39	1"1/4	3-140	230/50/1	0,04-1,1
K042/33	200 53*	4866	39	1"1/4	3-140	230/50/1	0,04-1,1

Performance calculated with the following temperatures:

primary 80-60 °C and domestic water 10-45°C * primary 55-50 and domestic water 35-45 °C

Size of the exchanger	Code	Price	Packed Dimensions cm	Weight kg
K042/09	841060038X		105x41x27	38
K042/15	841060039X		105x41x27	40
K042/21	841060040X		105x41x27	42
K042/25	841060041X		105x41x27	43
K042/33	841060042X		105x41x27	45

Code	Accessory	Price
822120028	SLC electronic control unit (see. P. 238)	
843090014X	AFK insulation kit for heat exchanger and pipe fittings	

Hot water cylinder for DHW AFW, AFW-INOX

The AFW and AFW-INOX systems for the fast production of domestic hot water are composed of: a Flexy or Boil storage tank with a capacity of up to 2000l and an AFW kit. The AFW kit consists of a high efficiency brazed plate heat exchanger and a circulation pump on the domestic water circuit. Because of the possibility of combining the AFW kit with any kind of storage tank, we have a broad range of options for the fast production of domestic hot water in small or medium-sized buildings (houses, restaurants, hotels, sport centres, etc.). It is also possible to couple the storage tank with an external heat exchanger. This reduces the stress on the system and optimizes the equilibrium between the power of the heater (or heat generator) and the performance of the heat exchanger.

This makes it possible to:

- ✓ opt for a smaller tank than with a traditional water heater
- ✓ customize the combination of the storage tank's volume and the thermal capacity of the heat exchanger

With the SLC electronic control unit you can manage the system by using the pre-set hydraulic schemes, which makes it possible to optimize and control the functioning of the system.



❖ How to compose the AFW system you want?

1. take the code of the AFW kit with the desired power
2. take the code of the storage tank or the water heater you want to connect (see Flexy and Boil sections)
3. if desired, choose one of the accessories

The AFW kits consist of:

- ✓ a P4 brazed plate heat exchanger with a various number of plates depending on the power which has to be exchanged
- ✓ high efficiency recirculation pump
- ✓ chrome-plated brass pipe fittings

✓ Materials

The heat exchange unit, i.e. the brazed P4 heat exchanger, is made of corrugated AISI 316 stainless steel plates, soldered with pure copper. The body of the storage tank, the internal protective treatments and the available insulation are indicated in the sections on the Flexy and the Boil water heaters in this catalogue.

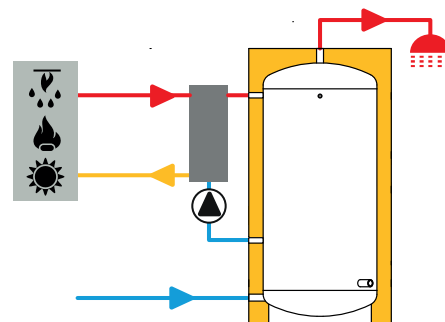
Hot water cylinder for DHW AFW, AFW-INOX



Kit AFW



Flexy series p.104
Flexy Blue series p. 106
Flexy Inox series p. 108



Size of the exchanger l	Power kW		Continuous DHW production l/h	dP Primary kPa	Couplings inch	Min-max power of the pump W	Tension V/Hz/ph	Min-max current A
P4/14	35	14*	859	18	1"1/4	3-140	230/50/1	0,04-1,1
P4/20	70	24*	1717	24	1"1/4	3-140	230/50/1	0,04-1,1
P4/30	115	34*	2862	33	1"1/4	3-140	230/50/1	0,04-1,1
P4/40	150	40*	3721	39	1"1/4	3-140	230/50/1	0,04-1,1
P4/50	200	53*	4866	39	1"1/4	3-140	230/50/1	0,04-1,1

Performance calculated with the following temperatures:
primary 80-60 °C and domestic water 10-45 °C * primary 55-50 and domestic water 35-45 °C

Size of the exchanger	Code	Price	Packed Dimensions cm	Weight kg
K042/09	841060043X		105x41x27	12
K042/15	841060044X		105x41x27	12
K042/21	841060045X		105x41x27	12
K042/25	841060046X		105x41x27	12
K042/33	841060047X		105x41x27	12

Code	Accessory	Price
822120028	SLC electronic control unit (see. P. 238)	
843090015X	AFW insulation kit for heat exchanger and pipe fittings	

Technical information - DHW fast production units – AFK and AFW series

Dimensions

The AFKX DHW production station is different from regular water heaters because of the presence of a high efficiency plate heat exchanger. This feature ensures that the available power from the energy source is fully used even when the temperature in the storage tank increases. Because of all this, smaller storage tanks can be used instead of the larger ones that would be used with a normal water heater with tube heat exchanger. To select the right DHW production unit the following data are needed:

P_p	Power available from the primary source
T_{in}	Water temperature of the circuit
T_p	Temperature of the primary source
T_u	Temperature of the DHW
V_p	DHW flow to be distributed during the sampling period
T_{punta}	Duration of the sampling period
T_{rip}	Time available to restore the temperature in the storage tank

In the following pages there are a series of charts which indicate the DHW production when the sampling period lengthens and when the temperature varies in time, with the zero use. The graphics can help you with the selection of the correct model for your application.

Example

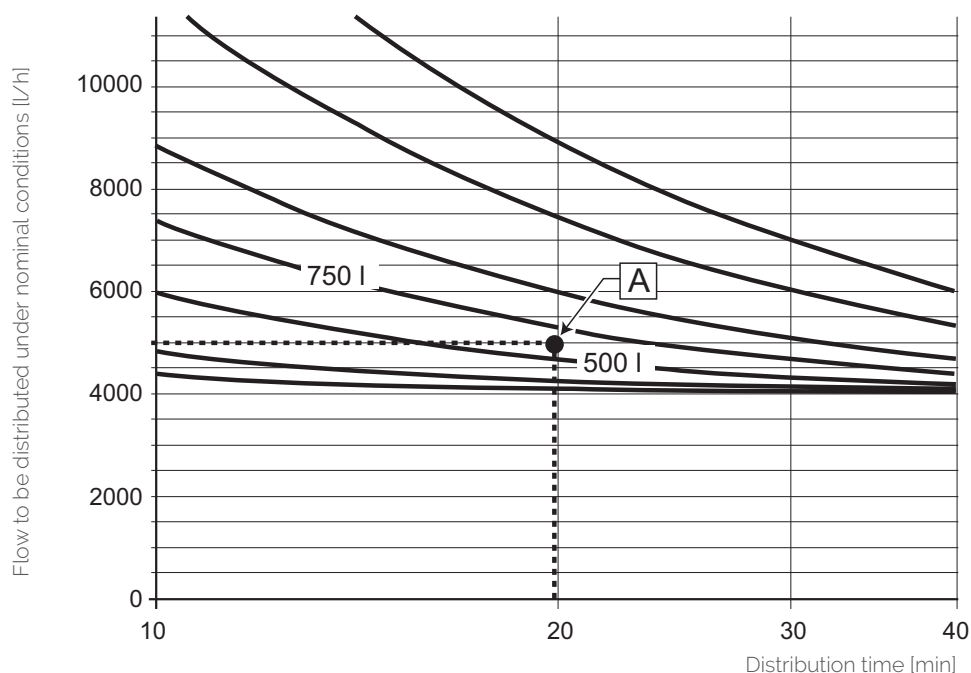
You have to distribute a DHW flow of 5000 L/h at 40°C for a sampling period of 20 min. The inlet temperature of the circuit is 15°C and the available power from the heater is 150 kW with a flow at 80°C.

Determining the volume

We use the graphic in which the nominal power of the heat exchanger is equal to or inferior to the power of the heater. Therefore, we select a K042 with 25 plates. We look at the axis with the abscissas with the duration of the sampling period (20 min). Then, we vertically move the line until we cross the straight line with the flow. This is point A. Near that point there is the 750 L storage tank with a 5250 L/h flow for 20 min, while the 500 L storage tank has a 4100 L/h flow for 20 min. You should choose the boiler with the features that are the most similar to the project data.

Determining the heat exchanger

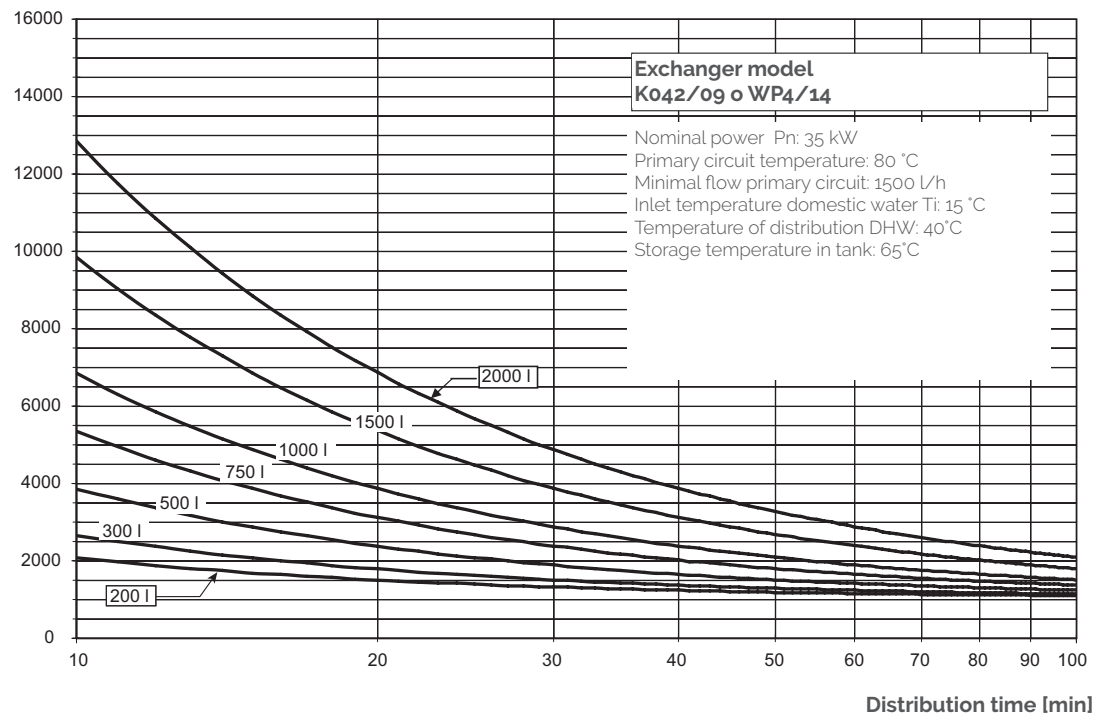
The correct heat exchanger should guarantee a thermal exchange equal to or superior to the power destined for the DHW production. Very important when choosing the heat exchanger is the flow temperature of the heat generator.



Technical information - DHW fast production units – AFK and AFW series

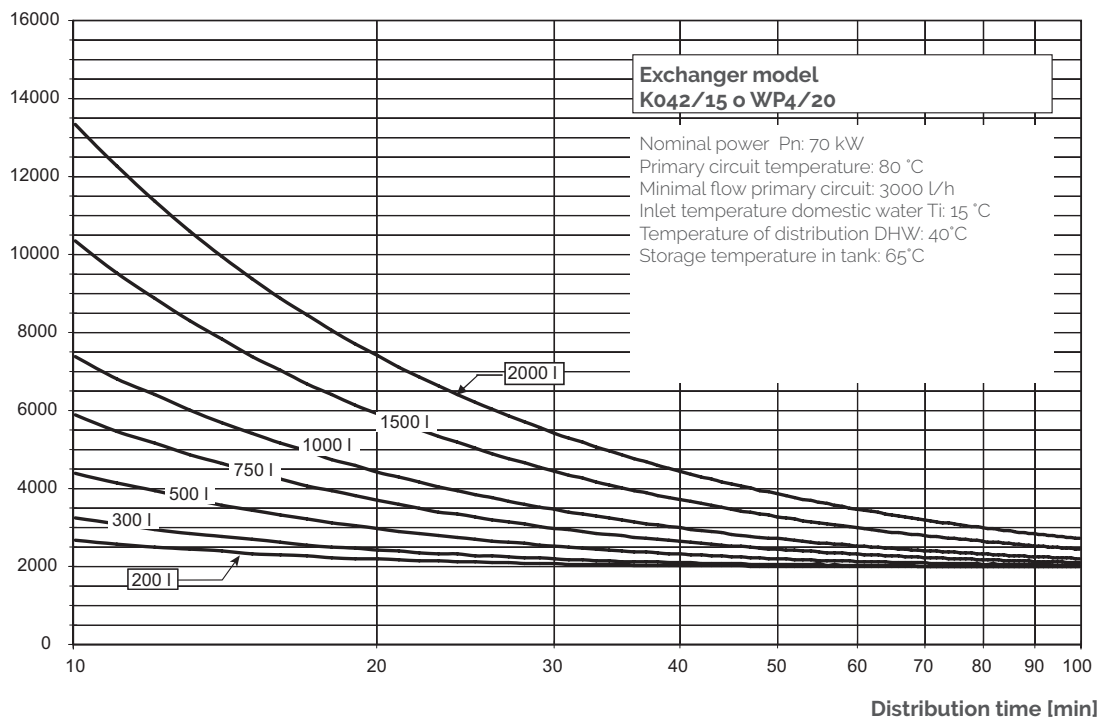
Performance with K042/09 plate heat exchanger

Flow to be distributed under nominal conditions [L/h]



Performance with K042/15 plate heat exchanger

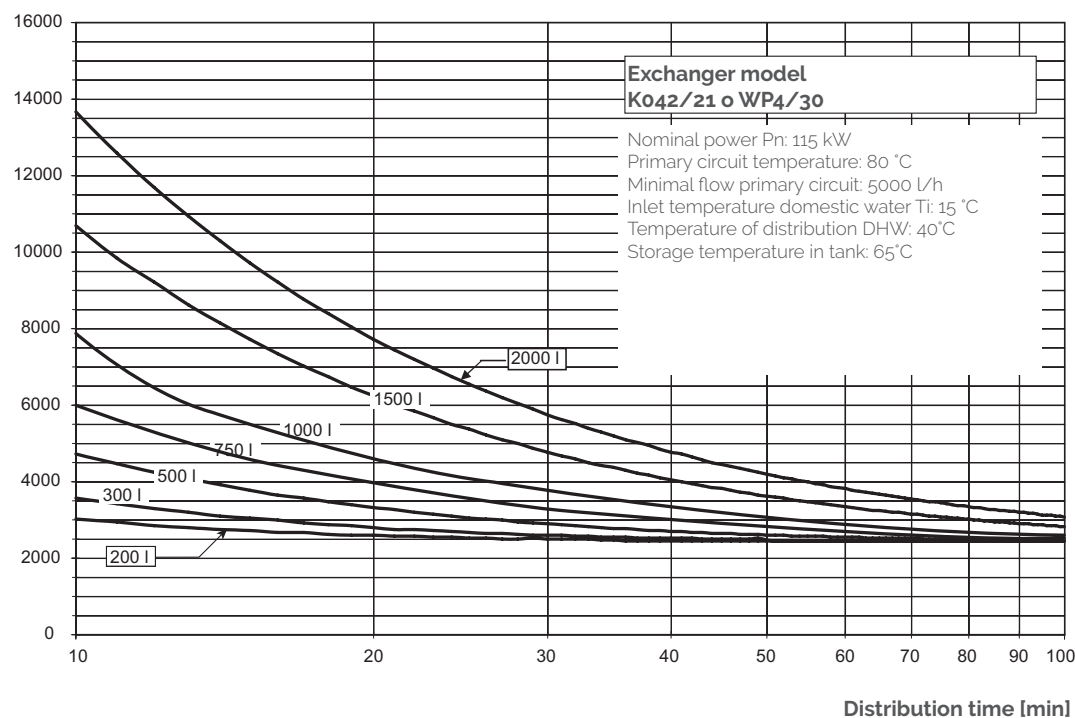
Flow to be distributed under nominal conditions [L/h]



Technical information - DHW fast production units – AFK and AFW series

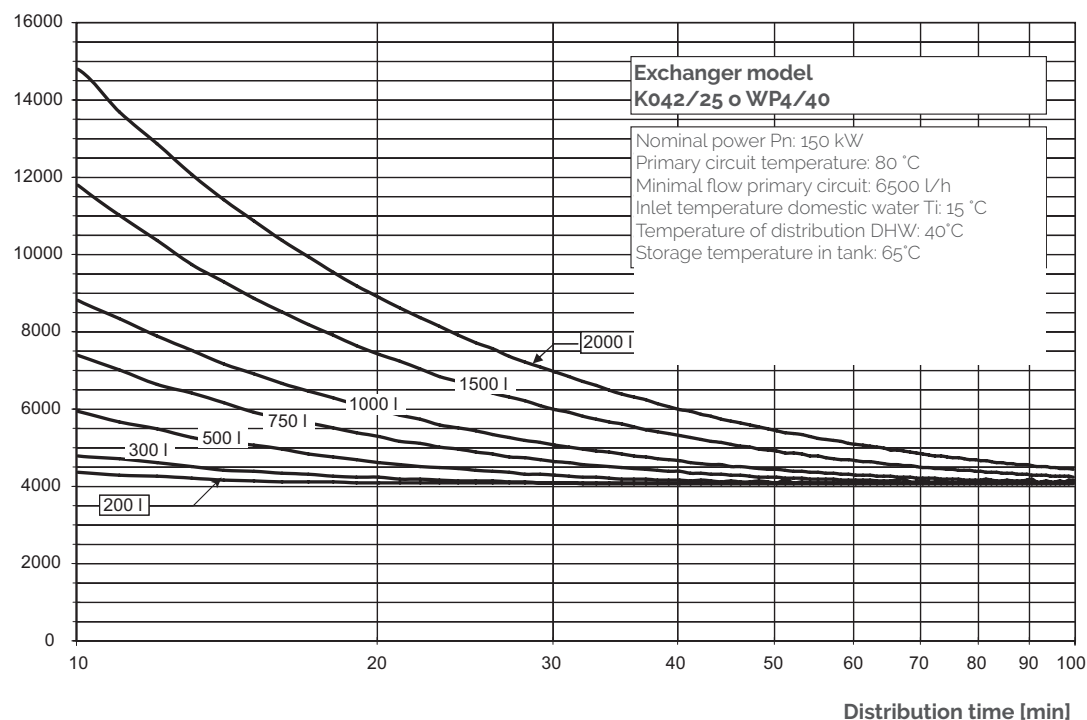
Performance with K042/21 plate heat exchanger

Flow to be distributed under nominal conditions [L/h]



Performance with K042/25 plate heat exchanger

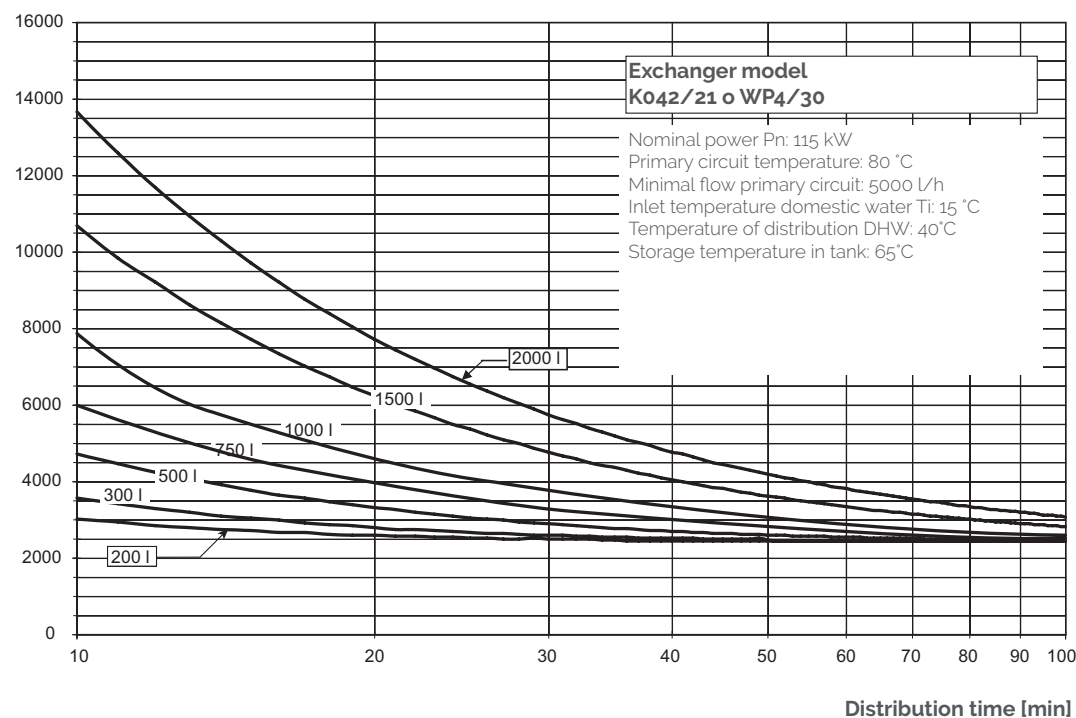
Flow to be distributed under nominal conditions [L/h]



Technical information - DHW fast production units – AFK and AFW series

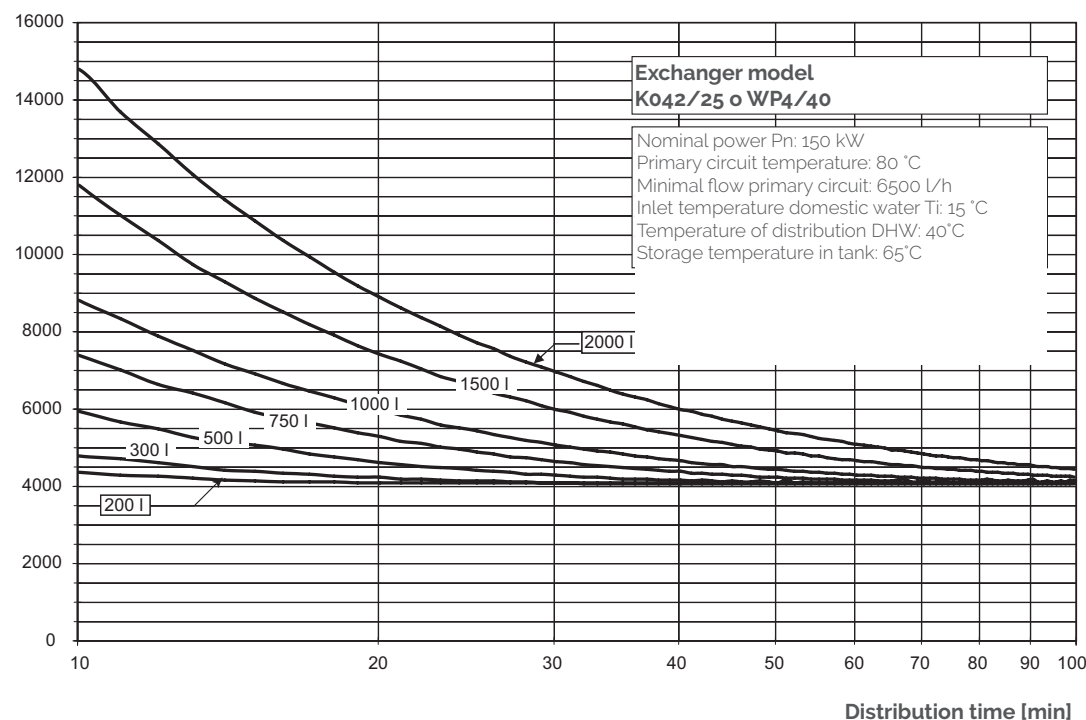
Performances with K042/21 plate heat exchanger

Flow to be distributed under nominal conditions [L/h]



Performances with K042/25 plate heat exchanger

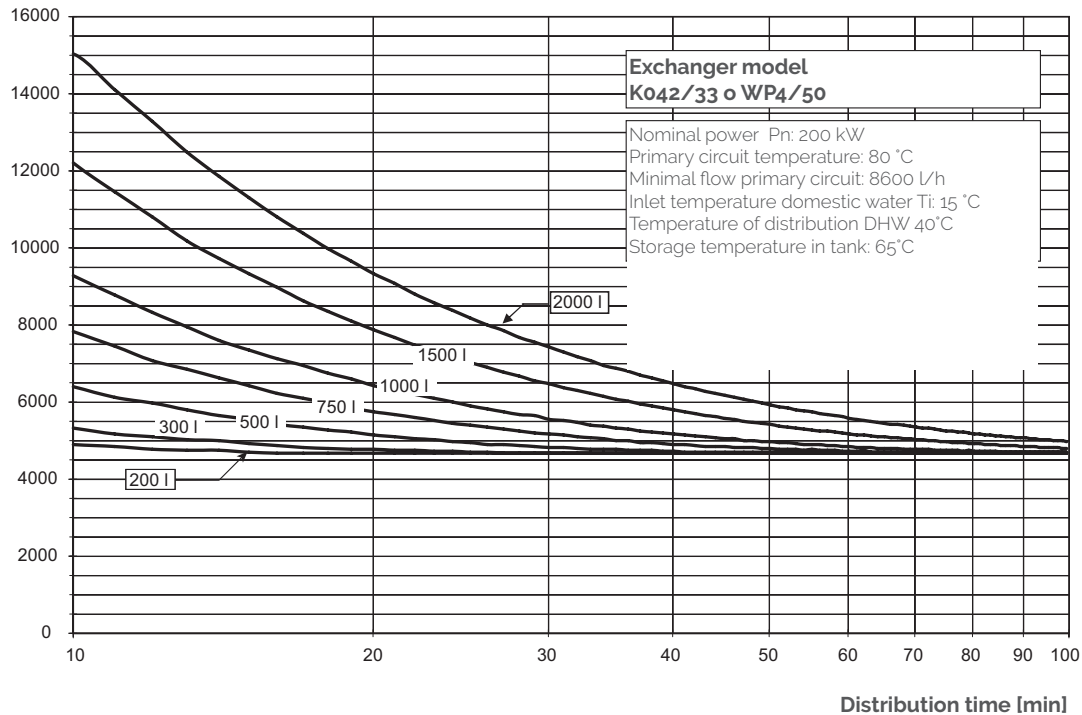
Flow to be distributed under nominal conditions [L/h]



Technical information - DHW fast production units – AFK and AFW series

Performance with K042/33 plate heat exchanger

Flow to be distributed under nominal conditions [L/h]



Technical information - DHW fast production units – AFK and AFW series

Chart for fast selection

The two charts below can help you with the selection of the AFKX unit in some standard circumstances.

Hotel rooms

Exchanger model	Storage tank capacity						
	200 l	300 l	500 l	750 l	1000 l	1500 l	2000 l
K042/ 9 / WP4/14	6	8	13	14	16	*	*
K042/15 / WP4/20	12	16	22	23	25	28	*
K042/21 / WP4/30	16	22	28	29	30	34	38
K042/25 / WP4/40	30	40	51	51	52	54	58
K042/33 / WP4/50	35	47	60	60	60	62	65

Consumption in the room during the peak period: 130 l

Duration of the peak period: 1.5 h

Inlet temperature T_i : 15°C

DHW distribution temperature: 40°C

Initial storage temperature: 65°C

Max recovery time: 2h

Synchronism coefficient: 1

*: recovery time more than 2h

Residential setting

Exchanger model	Storage tank capacity						
	200 l	300 l	500 l	750 l	1000 l	1500 l	2000 l
K042/ 9 / WP4/14	7	10	14	16	18	*	*
K042/15 / WP4/20	13	17	23	24	25	28	*
K042/21 / WP4/30	16	22	28	29	30	33	36
K042/25 / WP4/40	28	37	47	47	48	49	52
K042/33 / WP4/50	31	42	53	53	53	55	58

Consumption in the room during the peak period: 260 l

Duration of the peak period: 1.5 h

Inlet temperature T_i : 15°C

DHW distribution temperature: 40°C

Initial storage temperature: 65°C

Max recovery time: 2h

Synchronism coefficient: table synchronism coefficients

*: recovery time more than 2h

Synchronism coefficient

N° rooms	Coeff.	N° rooms	Coeff.
<5	1	36 ÷ 40	0,48
6 ÷ 15	0,61	41 ÷ 45	0,47
16 ÷ 20	0,54	46 ÷ 50	0,46
21 ÷ 25	0,52	51 ÷ 55	0,45
26 ÷ 30	0,51	56 ÷ 60	0,44
31 ÷ 35	0,49		

Heat exchanger group for domestic hot water production – AFK-HD

The AFK-HD system for the fast preparation of Domestic Hot Water can be coupled with storage tanks that are already installed in small, medium-sized and large settings. The available thermal exchange units can be coupled with all storage tank of the FLEXY, FLEXY INOX, BOIL and BOIL INOX series.

The AFK-HD system consists of:

- ✓ Gasketed plate heat exchanger – AISI 316L stainless steel, model K042 or K080;
- ✓ Stainless steel self-supporting base with adjustable feet;
- ✓ Stainless steel recirculation pump on the tap water side;

Available accessories

All exchangers can be installed with the following accessories (on request)

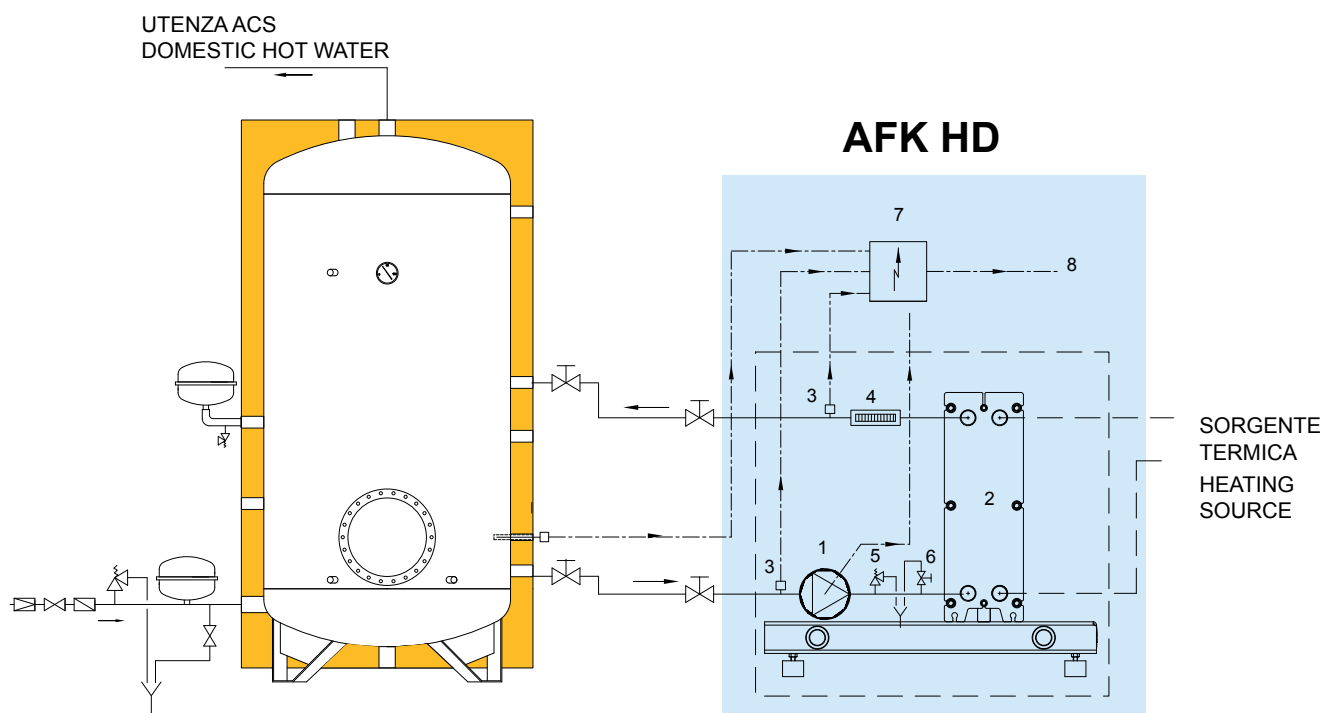
- ✓ Removable heat exchanger insulation (optional);
 - ✓ Thermostat for primary circuit (optional);
 - ✓ control unit SLC (see p. 238)
- Available on request, for versions up to the AFK HD 200.

Primary circuit		Secondary circuit	
Max temperature	Max pressure	Max temperature	Max pressure
95°C	16 bar	195°C	6 bar



Codes and accessories

AFK-HD



model	exchanger	code	price	packed	
				dimensions cm	weight kg
AFK-HD 35	K042/09	841060019X		28x49x105	51
AFK-HD 70	K042/15	841060020X		28x49x105	53
AFK-HD 115	K042/21	841060021X		28x49x105	55
AFK-HD 150	K042/25	841060022X		28x49x105	56
AFK-HD 200	K042/33	841060018X		28x49x105	59
AFK-HD 250	K080H/23	841060023X		105x33x95	126
AFK-HD 300	K080H/29	841060024X		105x33x95	129
AFK-HD 350	K080H/33	841060025X		105x33x95	131
AFK-HD 400	K080H/39	841060026X		105x33x95	140

List of components
1. Stainless steel recirculation pump
2. Gasketed plate heat exchanger
3. Flow rate regulator
4. Probe holder
5. Safety valve
6. drain valve
7. Electronic control panel (optional)
8. Output signal for primary circuit

code	accessories	price
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822120028 SLC electronic control unit (see p. 238)

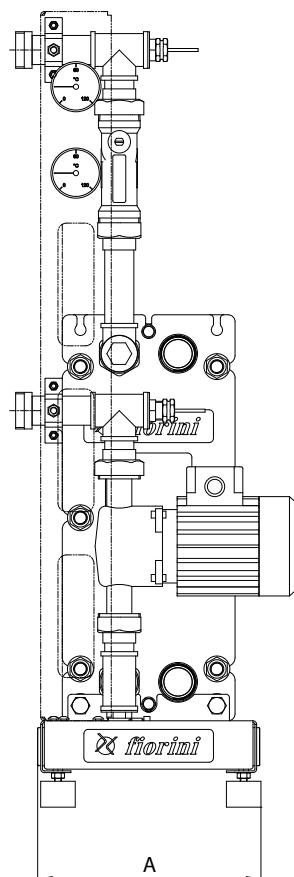
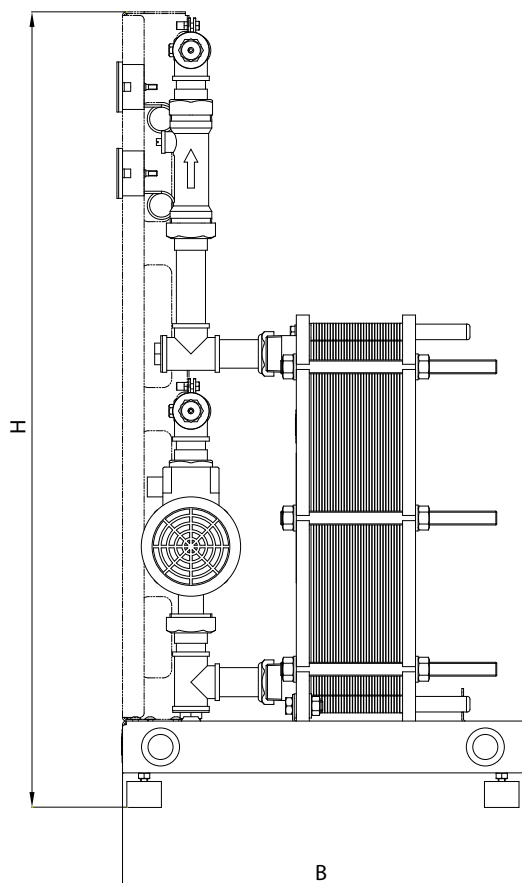
Insulation kit AFK HD			
K042		K080	
code	price	code	price

821080037X

821080038X

Technical information

AFK-HD



Technical information

Model	Exchanger	Power kW	Flow primary L/h	Pdc primary kPa	Electrical features pump		A	B	H	Couplings inch
					Tension V/Hz/ph	Min-max current A				
SIZE 1										
AFK-HD 35	K042/09	30"/10"	1500"/1800"	18"/25"	230/50/1	0,04-1,1	305	464	921	1 1/4
AFK-HD 70	K042/15	70"/22"	3000"/3900"	24"/40"	230/50/1	0,04-1,1	305	464	921	1 1/4
AFK-HD 115	K042/21	110"/33"	5000"/5800"	33"/45"	230/50/1	0,04-1,1	305	464	921	1 1/4
AFK-HD 150	K042/25	150"/39"	6500"/6800"	39"/45"	230/50/1	0,04-1,1	305	464	921	1 1/4
AFK-HD 200	K042/33	200"/50"	8600"/8700"	39"/43"	230/50/1	0,04-1,1	305	464	921	1 1/4
SIZE 2										
AFK-HD 250	K080H/23	250"/165"	8800"/8800"	49"/49"	400/50/3	1,03	305	1031	829	1 1/2
AFK-HD 300	K080H/29	300"/170"	10500"/10500"	48"/48"	400/50/3	1,03	305	1031	829	1 1/2
AFK-HD 350	K080H/33	350"/210"	12500"/12500"	47"/47"	400/50/3	1,03	305	1031	829	1 1/2
AFK-HD 400	K080H/39	400"/250"	14100"/14100"	46"/46"	400/50/3	1,03	305	1031	829	1 1/2

* Primary 80°C, Secondary 10/45°C ** Primary 55°C, Secondary 10/45°C

Performance

AFK-HD

capacity l	k042/09	k042/15	k042/21	k042/25	k042/33	ko80h/23	ko80h/29	ko80h/33	ko80h/39
200	330/500 1100/859	440/725 2000/1717	500/1300 2900/2862	730/2075 4150/3721	810/2330 4900/4866	1055/1995 5765/5650	1340/2570 7485/7370	1505/2895 8465/8350	1830/3550 10430/10320
300	430/600 1300/859	535/1200 2000/1717	590/1400 2905/2862	800/2125 4200/3721	880/2375 4900/4866	1110/2055 5820/5650	1400/2625 7540/7370	1560/2955 8525/8350	1890/3610 10490/10320
500	665/800 1500/859	730/1475 2100/1717	785/1660 2910/2862	990/2310 4175/3721	1060/2560 4910/4866	1225/2165 5935/5650	1510/2740 7655/7370	1675/3070 8640/8350	2005/3725 10605/10320
800	900/1030 1750/859	980/1835 2300/1717	1030/2025 2920/2862	1230/2625 4175/3721	1300/2860 4915/4866	1395/2340 6105/5650	1685/2910 7825/7370	1845/3240 8810/8350	2175/3895 10775/10320
1000	1130/1300 1900/859	1220/2200 2500/1414	1280/2385 2930/2862	1470/300 4300/3721	1540/3200 4920/4866	1510/2455 6220/5650	1800/3025 7940/7370	1960/3355 8925/8350	2290/4010 10890/10320
1500	1630/1830 2490/859	1725/2950 2975/1717	1780/3125 3350/2862	1965/3710 4675/3721	2025/3925 5150/4866	1795/2740 6505/5650	2085/3310 8225/7370	2245/3640 9210/8350	2575/4295 11175/10320
2000	2160/2300 300/859	2220/3700 3450/1717	2280/3860 3825/2862	2465/4450 5100/3721	2500/4650 5550/4866	2080/3025 6790/5650	2370/3600 8510/7370	2535/3925 9595/8350	2860/4580 11460/10320

DHW distribution in liters in the first 10/20/60 minutes and continuous distribution flow in l/h (primary 80°C, distribution 45°C)

SET 2.0 suspended fresh Water Stations

A plug and play system for transferring heat from the technical water storage tank with a programmable control unit and a circulator. The SET 2.0 unit ensures the DHW production with a limited formation of chalk and at a temperature chosen by the user. The heat exchange is carried out by the AISI 316 stainless steel plate heat exchanger in a high performance and hygienic manner. The unit, connected to the water storage tank from which it takes energy, is composed of all necessary parts. Through a control unit with a graphical display the user can monitor the functioning or easily impose user parameters. The heart of the SET 2.0 unit is the special electronic control unit which keeps up the imposed DHW temperature by modulating the flow in the primary circuit.

In this way the following is guaranteed:

- ✓ max heat drop in the primary circuit in order to optimize the efficiency of the generator (solar thermal power, heat pump, biomass, etc.)
- ✓ precise and trustworthy management

Thanks to the high efficiency heat exchanger the unit is ideal for installations with heat pumps or solar panels that use water storage tanks for low temperatures (50-55°C)

Plus

- ✓ temperature management of the hot water
- ✓ easy and cheap in use
- ✓ high efficiency circulation pump (in accordance with the 2005-35/CE directive) and with an electronic control of the number of turns
- ✓ synoptically graphical display with the indication of the temperatures in the installation and of the power
- ✓ easy Plug and Play installation
- ✓ insulated pipe fittings
- ✓ vessel with a metal structure and thermoform panels for mounting to the wall
- ✓ possibility to manage the sanitary recirculation pump
- ✓ two models are available: one with an electronic entry level (S) and one with electronics with more options (L)



Available versions

Fiorini offers two versions of the SET 2.0 fresh water station. The difference between the two is in the control unit: one version with a limited number of functions (SET 2.0 S) and another version with many functions and control settings (SET 2.0 L).

Below the main features of the two units are indicated.

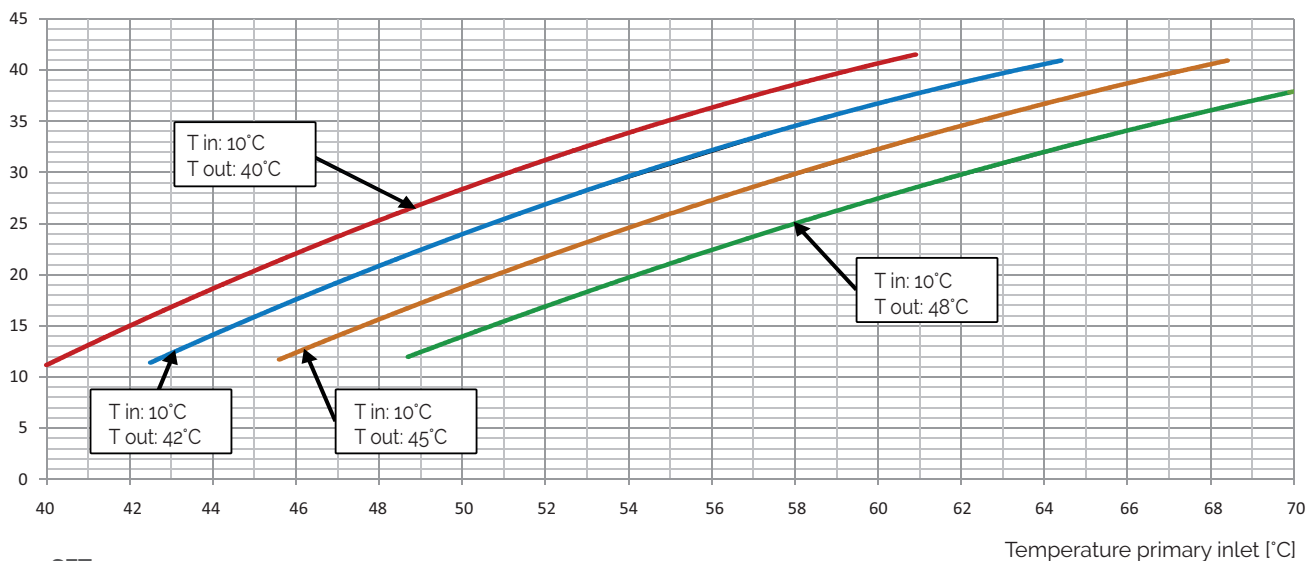
	SET 2.0	
	S	L
Efficient, electronic regulation of the velocity of the pump	✓	✓
Graphical display	✓	✓
Imposing the temperature of the DHW	✓	✓
Imposing the max temperature of the DHW. This is a safety option which stops the unit in case the max value is reached.	✓	✓
Management kit in series		✓
Management kit Mixing valve on the primary circuit		✓
Management kit stratification of the tank		✓
Possibility to control the recirculation pump for sanitary purposes by fixing the activation times of the pump and the temperature of the recirculation circuit	✓	✓
Anti-legionella: carry out anti-legionella treatments through thermal shocks along the DHW adduction line	✓	✓
AL heating: activation of an integrative heat source when the anti-legionella treatment is carried out		✓
Comfort function: when activated, the exchanger is kept warm in order to guarantee a fast recuperation	✓	✓
Anti-chalk protection: when activated, the circulator keeps on running even when the DHW distribution time is up in order to reduce chalk formation	✓	✓
Solar: control and command the circulator of a solar power device		✓
Management of the heat generator: activate and deactivate a heat generator when the temperature in the tank is below the set point		✓



SET 2.0 (S and L) thermal performance

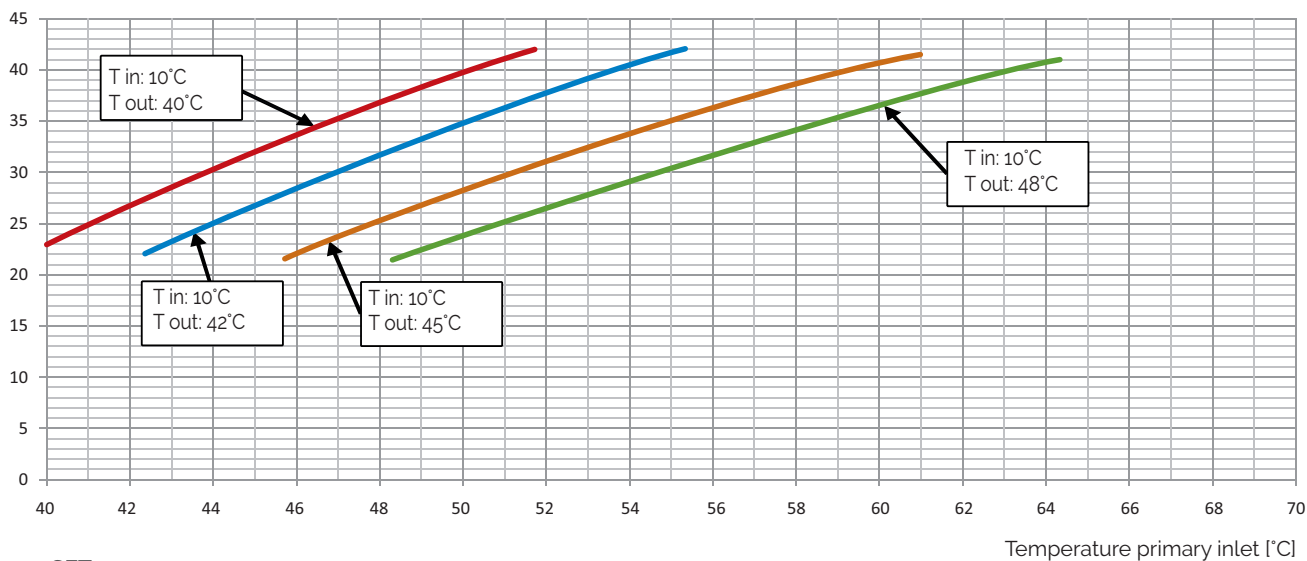
SET 2.0 - 25

Flow of DHW to be distributed [L/min]



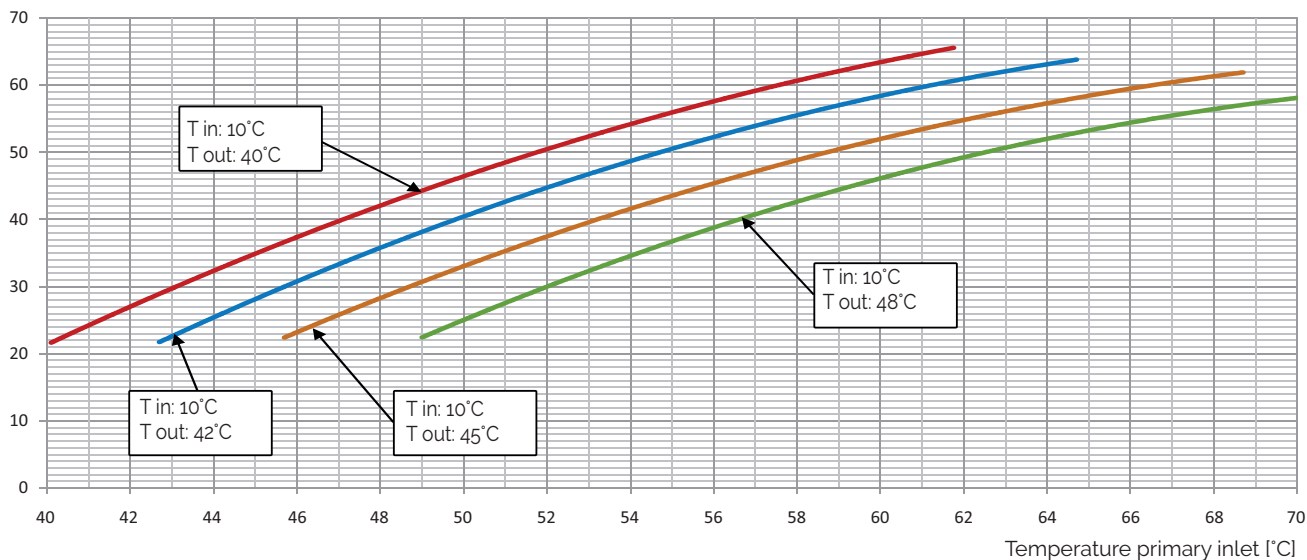
SET 2.0 - 35

Flow of DHW to be distributed [L/min]

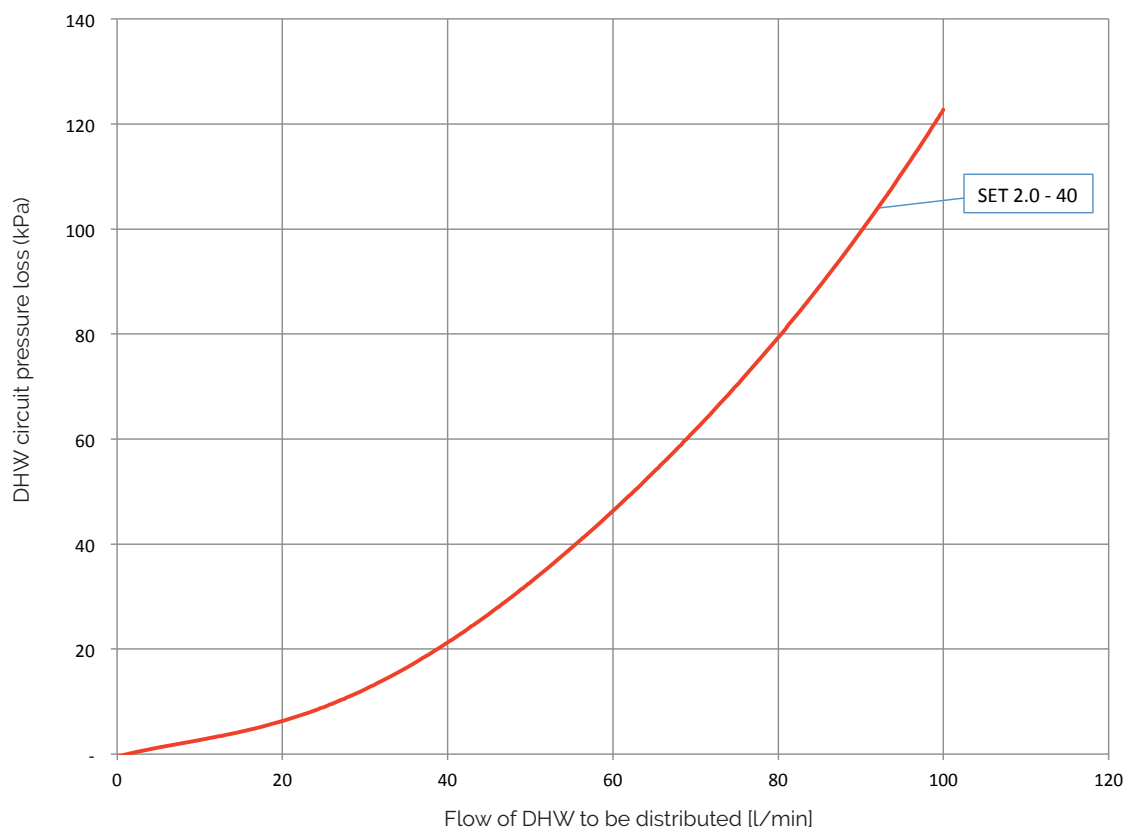
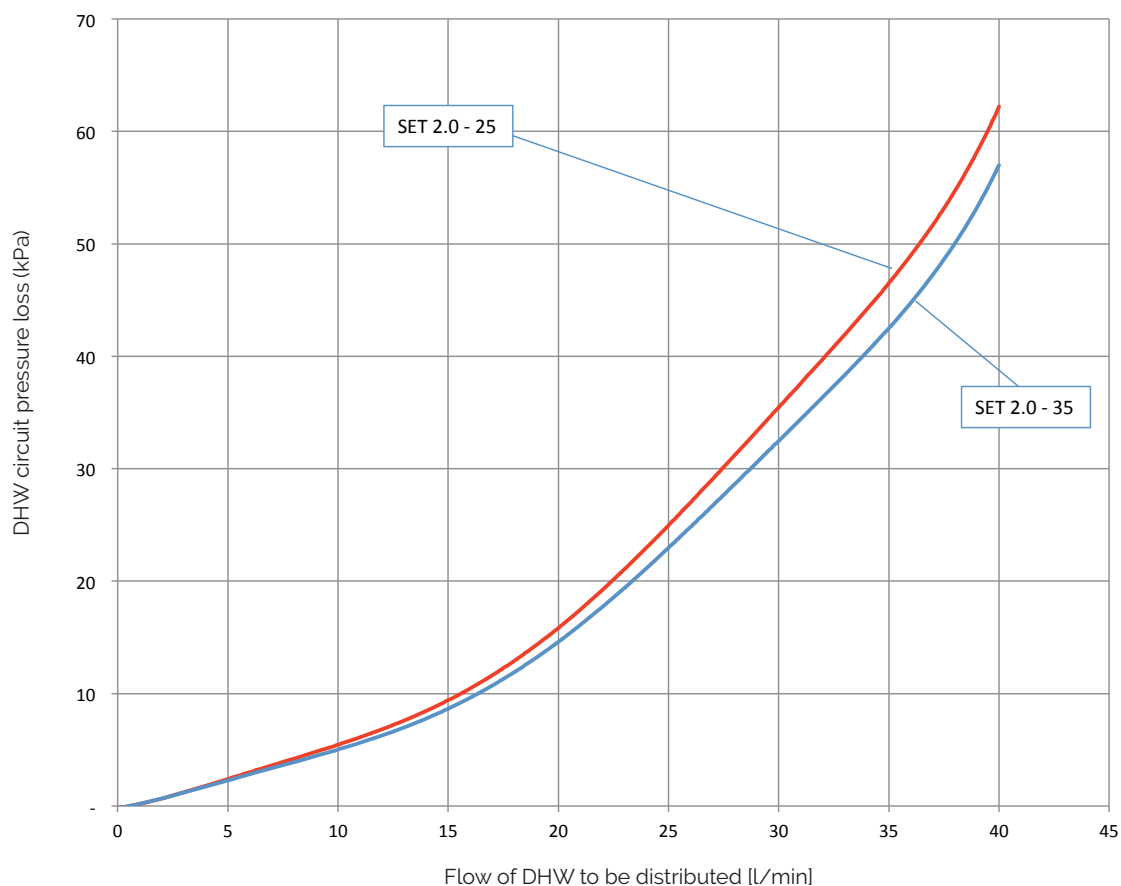


SET 2.0 - 40

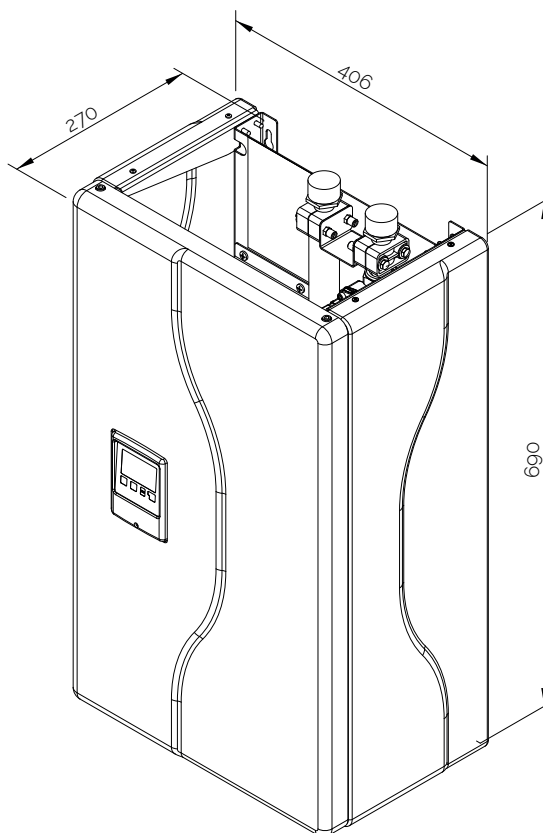
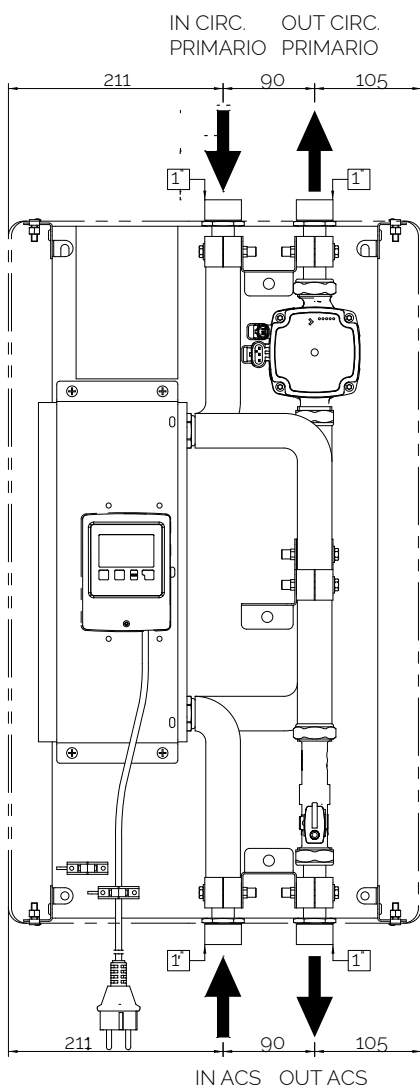
Flow of DHW to be distributed [L/min]



SET 2.0 (S and L) thermal performance

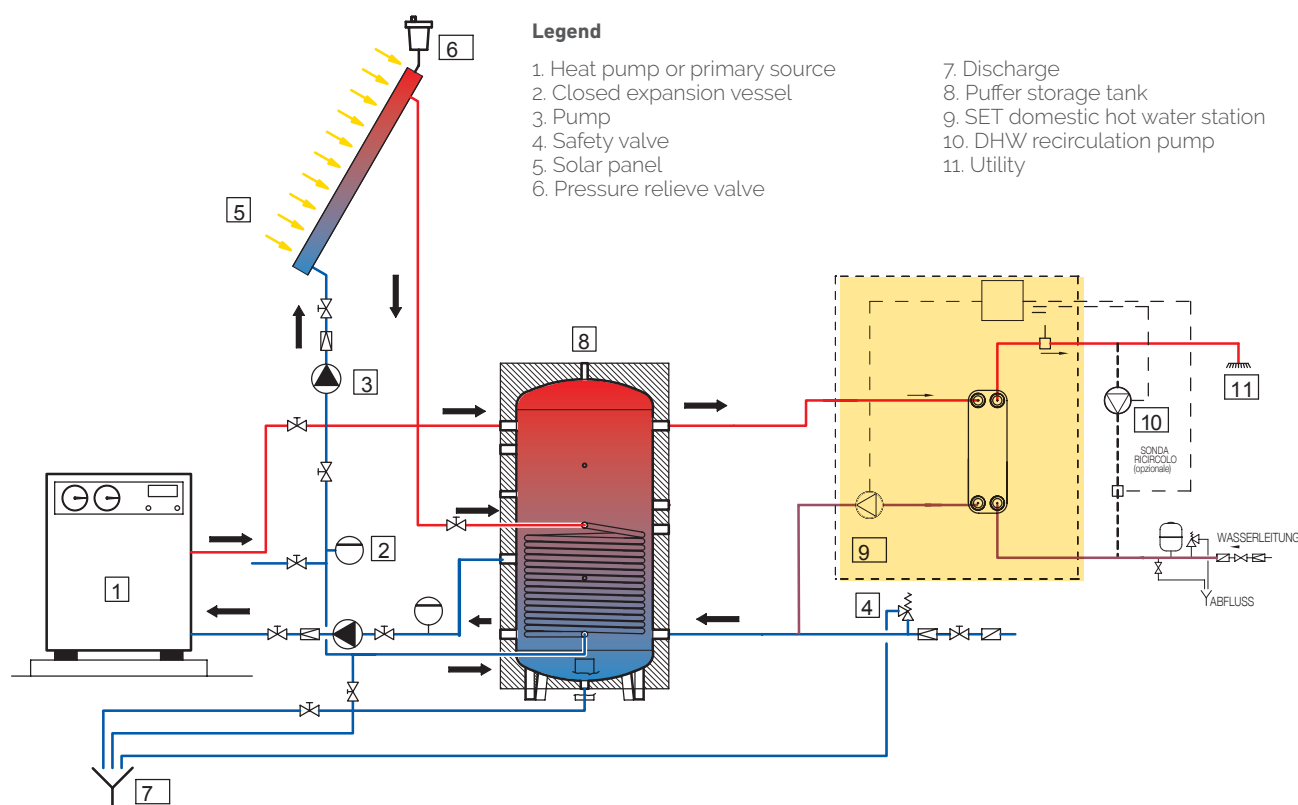


Dimensions



technical information	SET 2.0 (S e L)		
	25	35	40
Electrical supply	230V / 50 hz / 1 ph		
Power of primary pump min/max (W)	2/52		
Absorption of primary pump min/max (A)	0.04/0.52		
Max power of the recirculation pump (can be managed from the control unit)(pump not supplied)	185		
Primary flow (litri/h)	2000	2800	2800
Residual prevalence of the primary circuit (m.c.a.)	2,0	2,5	1,0
Weight unpacked/packed (kg)	15/22	18/25	20/27
Volume of the primary circuit (l)	1,1	1,62	1,6
Volume of the domestic circuit (l)	0,85	1,75	1,4
Max operating pressure (bar)	6		
Couplings primary circuit (inch)	1" GAS M		
Couplings secondary circuit (inch)	1" GAS M		
Max operating temperature (°C)	95		
Category of electrical protection	IP40		
Type of plug (electrical connection)	Schuko 10-16A/250V		
Length of the electric cable (m)	1,5		
Min DHW ignition flow (L/min)	2	2	5
Max DHW flow (L/min)	40	40	100

Installation chart in combination with the water storage tank



Equipment

The SET 2.0 fresh water station is delivered in a cardboard box with:

- ✓ Fresh water station with electric cable with a Schuko plug
- ✓ Template to facilitate making the holes in the wall for anchoring the fresh water station
- ✓ Pegs and screws to anchor the fresh water station to the wall

Accessories on request

Several accessory kits are available that can be combined with the SET 2.0 fresh water station. Some can only be coupled with the SET 2.0L. Below you can consult the compatibility chart.

Description	Set 2.0 S	Set 2.0 L
kit to connect the SET in series		✓
recirculation kit	✓	✓
kit with mixing valve on the primary circuit		✓
kit with stratification valve for the storage tank		✓

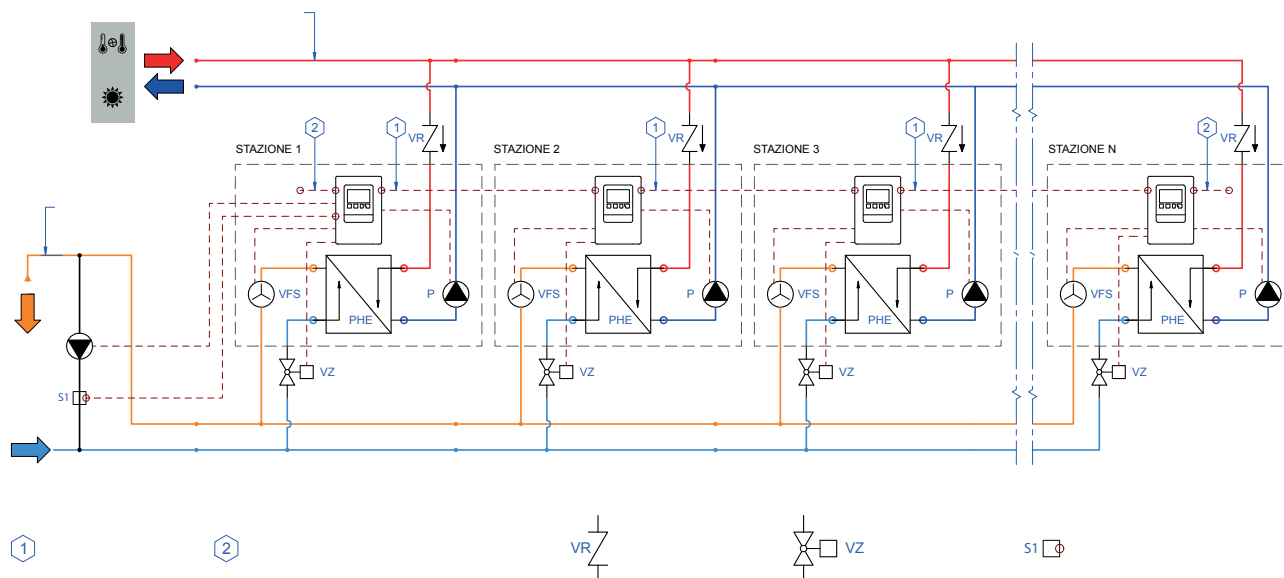
Kit to connect the SET in series

The kit to connect the SET in series is the option for all applications in which the need for Domestic hot water is very variable. In this way it is possible to connect max 8 fresh water stations and ensure a DHW production of min 2 L/m and max 800 L/min*. The electronic control units that are mounted on every fresh water station enables communication between the stations via Modbus (only the L version). As such, the electronics decide how many and which fresh water stations are activated, depending on the user conditions.

Advantages and benefits:

- ✓ variable DHW production: from 2 to 800 L/min*
- ✓ trustworthy. Because the control unit carries out diagnoses by itself, in case of malfunctioning of one of the stations, the station is automatically deactivated and another station is activated. In this way the DHW distribution continues.
- ✓ regulation of the temperature is even more precise. The regulation makes it possible to activate the right number of fresh water stations based on the flow and the temperature of the DHW. In this way, every fresh water station always operates in circumstances that approach the nominal circumstances and the precision and efficiency of the regulation is improved.
- ✓ The system with the fresh water system in series can be expanded. You can add more units, even after the initial installation.
- ✓ The programmed maintenance of the fresh water stations can be executed without interrupting the DHW distribution.
- ✓ every fresh water station operates for an equal number of hours which guarantees a long life span of the system.

Installation chart



Installation of the Kit

Install one kit for every fresh water station. The kit is supplied in parts, non-assembled and is composed of:

- ✓ one motorized zone valve with a fast 230V motor
- ✓ one pipe fitting for the coupling
- ✓ one CanBus cable
- ✓ the instructions

* The production by several SET connected in series depends on the temperature in the primary circuit and the DHW production. The flow of DHW to be distributed by the stations connected in series equals the sum of the flow of the fresh water stations indicated in the section hydraulic performance

Recirculation kit

The recirculation kit offers multiple possibilities for the electronic control unit to control the pump of the sanitary recirculation circuit (circulator not supplied).

Possible settings

- ✓ Programming the recirculation in time slots. The recirculation pump is activated only during the indicated time slots and when the recirculation temperature is below the programmed temperature
- ✓ recirculation pump is always activated
- ✓ activation of the recirculation pump after a brief sampling period. This option activates the recirculation pump only when strictly necessary, as such heating the domestic circuit without wasting drinking water.

Composition of the kit

The kit is supplied in parts, non-assembled and is composed of:

- ✓ temperature probe to be put on the recirculation ring
- ✓ instructions

Recirculation pump

The recirculation pump is not supplied with the kit because the pump has to be selected on the basis of the specifics of your installation.

However, because the pump is to be controlled by the SET regulator, it has to have the following features

- ✓ power supply 230V/50hz/1ph
- ✓ max power 185 W

Kit with mixing valve on the primary circuit

The kit helps regulate the temperature at the entrance of the fresh water station. In this way, especially in installations that can reach high temperatures in the primary circuit, the precision of the regulation is improved, which guarantees better comfort.

Composition of the kit

The kit is supplied in parts, non-assembled and is composed of:

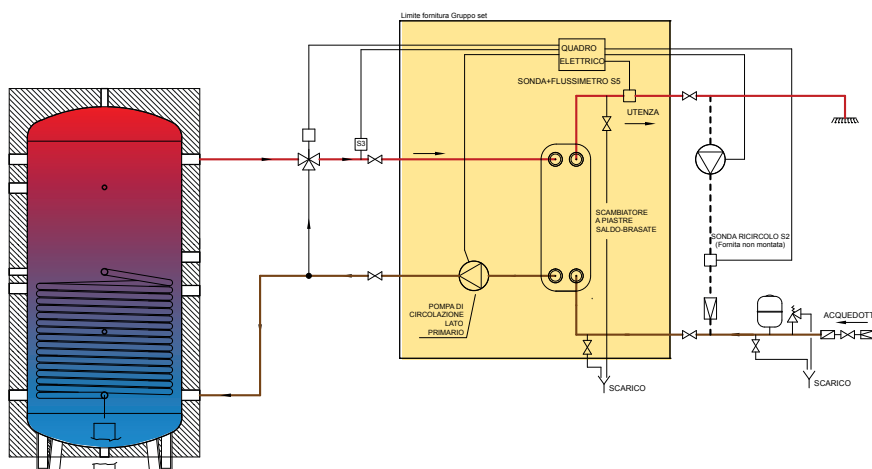
- ✓ S3 temperature probe to be placed at the entrance of the exchanger on the primary circuit
- ✓ instructions

Mixing valve

The mixing valve is not supplied with the kit because it should be selected on the basis of the specifics of your installation.

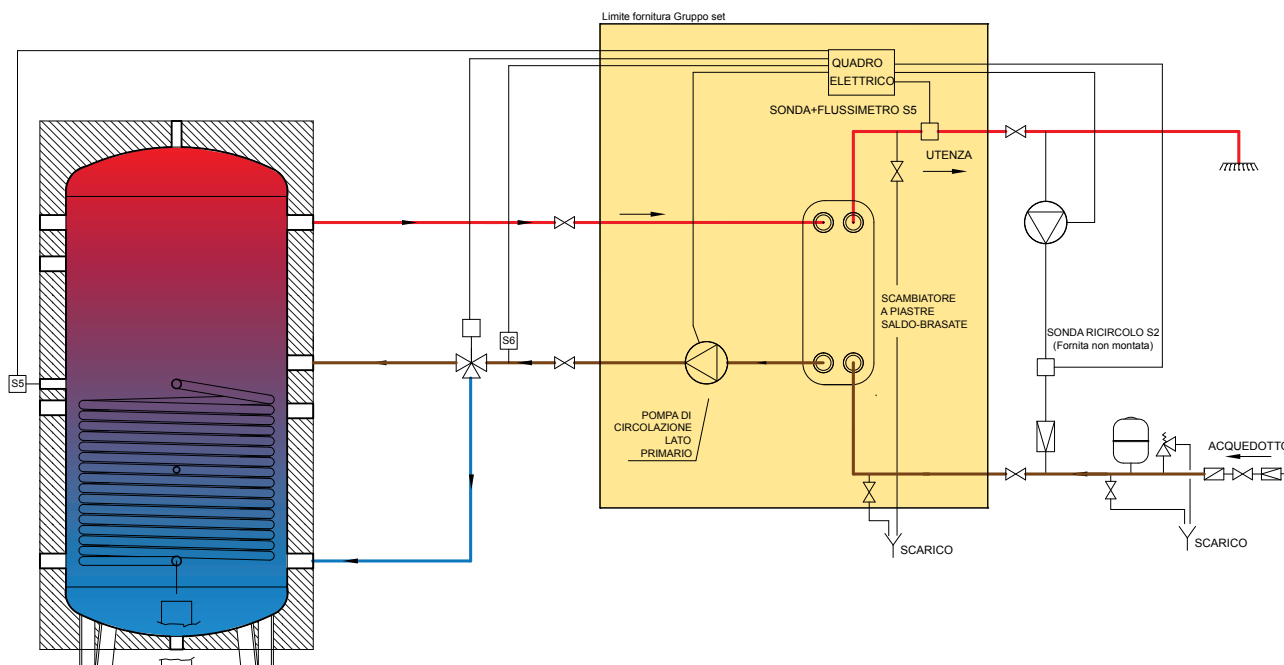
However, because it is controlled by the SET regulator, it should have the following features:

- ✓ power supply 230V/50hz/1ph
- ✓ Three way regulation
- ✓ fast motor, runs at a time less than 10s
- ✓ kvs value compatible with the residual prevalence of the fresh water system and the pressure loss of the device



Kit with stratification valve for the storage tank

The kit makes it possible to direct the return from the fresh water station to the lower part instead of the mid part of the storage tank. Because of this, the stratification phenomenon in the storage tank is favoured and the efficiency of the entire heating system is maximized.



Composition of the kit

The kit is supplied in parts, non-assembled and is composed of:

- ✓ S5 temperature probe to be placed in the middle of the storage tank
- ✓ S6 temperature probe on the return of the primary circuit
- ✓ instructions

Stratification valve

The valve is not supplied with the kit because it should be selected on the basis of the specifics of your installation.

However, because it is controlled by the SET regulator, it should have the following features

- ✓ three way deviation valve
- ✓ 230V/50hz/1ph power supply
- ✓ relay with spring return
- ✓ kvs value compatible with the residual prevalence of the fresh water station and the pressure loss of the device

Codes

SET 2.0 (S)

code	description	price	packed	
			dimensions cm	weight kg
842030034X	SET 2.0 (S) - 25		77x45x39	25
84203A018X	SET 2.0 (S) - 35		77x45x39	28
842030035X	SET 2.0 (S) - 40		77x45x39	31

SET 2.0 (L)

code	description	price	packed	
			dimensions cm	weight kg
842030090X	SET 2.0 (L) - 25		77x45x39	25
84203A024X	SET 2.0 (L) - 35		77x45x39	28
842030088X	SET 2.0 (L) - 40		77x45x39	31

Kits with external accessories		price
842030089X	External kit in series	
842030099X	External kit recirculation SET 2.0	
842030097X	External kit mixing valve set 2.0	
842030095X	External kit deviation valve set 2.0	

Mounted SET 2.0

DHW fresh water station

A plug and play system for transferring heat from the technical water storage tank with a programmable control unit and a circulator. The SET 2.0 unit ensures the DHW production with a limited formation of chalk and at a temperature chosen by the user. The heat exchange is carried out by the AISI 316 stainless steel plate heat exchanger in a high performance and hygienic manner. The unit, connected to the water storage tank from which it takes energy, is composed of all necessary parts. Through a control unit with a graphical display the user can monitor the functioning or easily impose user parameters. The heart of the SET 2.0 unit is the special electronic control unit which keeps up the imposed DHW temperature by modulating the flow in the primary circuit.



The mounted SET 2.0 unit is available in several sizes (60, 70, 80, 100, 120 and 200*)

*: DHW production of 10 to 45°C with a temperature of 55°C in the primary circuit

The innovative and qualifying element of the SET 2.0 unit is the electronic control unit which guarantees the DHW temperature through the modulation of the flow in the primary circuit.

In this way the following is guaranteed:

- ✓ max heat drop in the primary circuit in order to optimize the efficiency of the generator (solar thermal power, heat pump, biomass, etc.)
- ✓ precise and trustworthy management

Thanks to the high efficiency heat exchanger the unit is ideal for installations with heat pumps or solar panels that use water storage tanks for low temperatures (50-55°C)

Plus

- ✓ regulation of the hot water temperature
- ✓ easy and cheap in use
- ✓ high efficiency circulation pump (in accordance with the 2005-35/CE directive) and with an electronic control of the number of turns
- ✓ synoptically graphical display with the indication of the temperatures in the installation and of the power
- ✓ easy Plug and Play installation
- ✓ insulated pipe fittings
- ✓ vessel with a metal structure and thermoform panels for mounting to the wall
- ✓ possibility to manage the sanitary recirculation pump

Functions of the regulator

The SET 2.0 fresh water station is equipped with a regulator that can execute the following functions:

Efficient, electronic regulation of the velocity of the pump

Graphical display

Imposing the temperature of the DHW

Imposing the max temperature of the DHW. This is a safety option which stops the unit in case the max value is reached.

Management kit in series

Management kit Mixing valve on the primary circuit

Management kit stratification of the tank

Possibility to control the recirculation pump for sanitary purposes by fixing the activation times of the pump and the temperature of the recirculation circuit

Anti-legionella: carry out anti-legionella treatments through thermal shocks along the DHW adduction line

AL heating: activation of an integrative heat source when the anti-legionella treatment is carried out

Comfort function: when activated, the exchanger is kept warm in order to guarantee a fast recuperation

Anti-chalk protection: when activated, the circulator keeps on running even when the ACS distribution time is up in order to reduce chalk formation

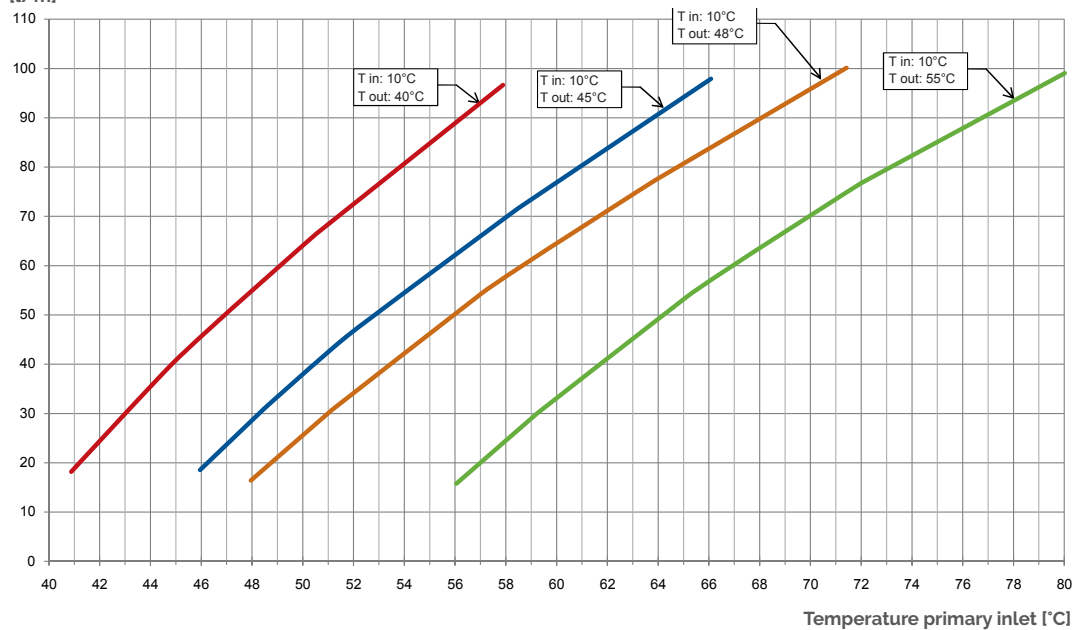
Solar: control and command the circulator of a solar power device

Management of the heat generator: activate and deactivate a heat generator when the temperature in the tank is below the set point

Mounted SET 2.0 thermal performance

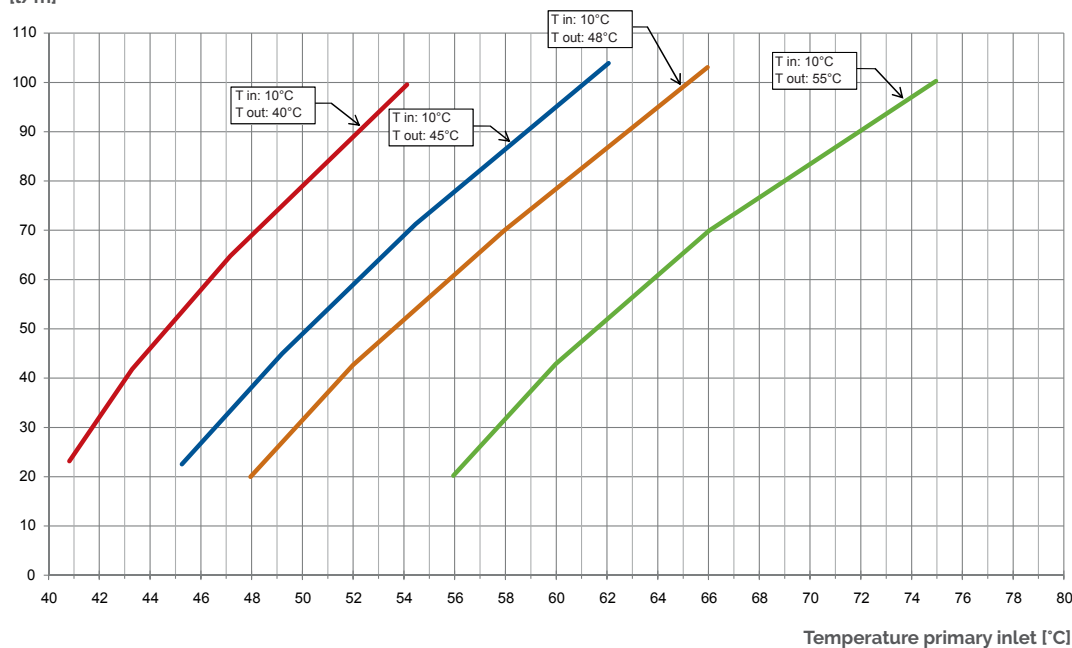
SET 60 performance

Flow of DHW to be distributed
[L/m]



SET 70 performance

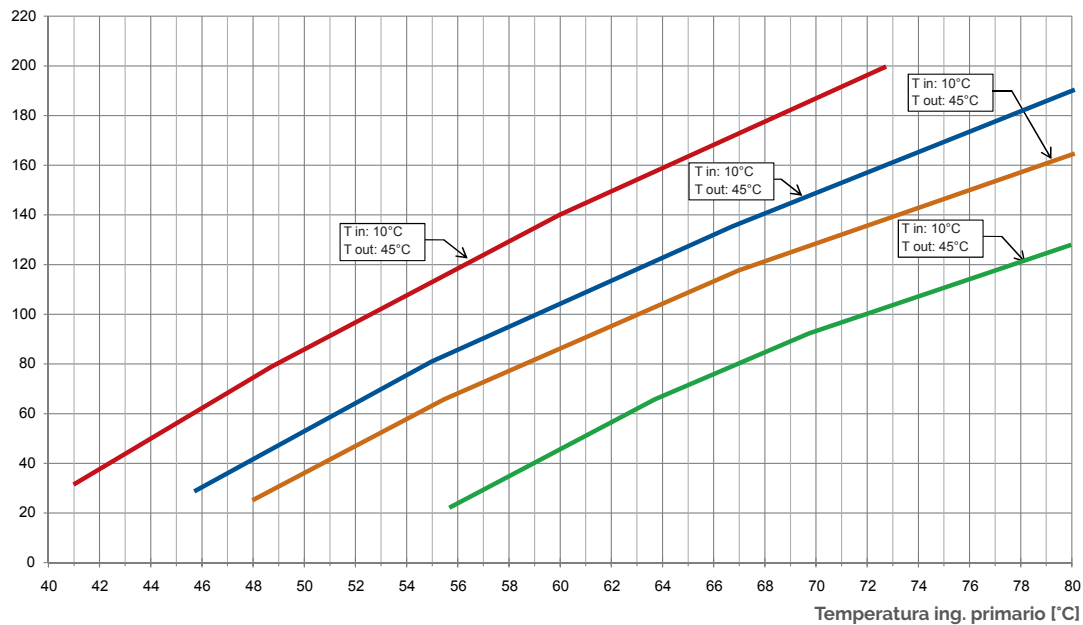
Flow of DHW to be distributed
[L/m]



Mounted SET 2.0 thermal performance

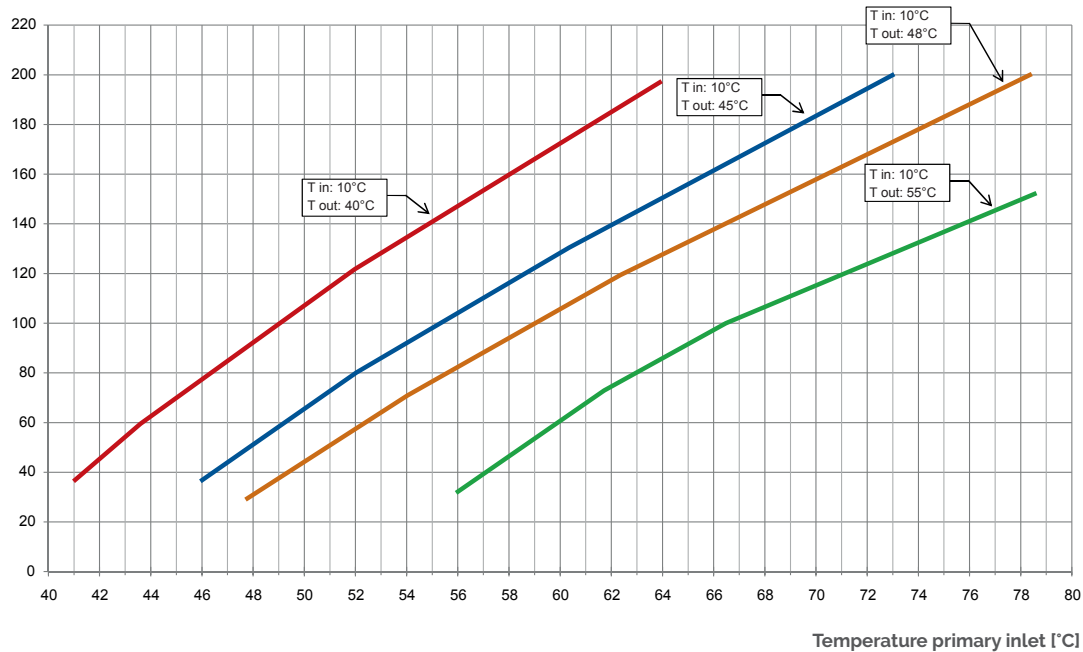
SET 80 performance

Flow of DHW to be distributed
[L/m]



SET 100 performance

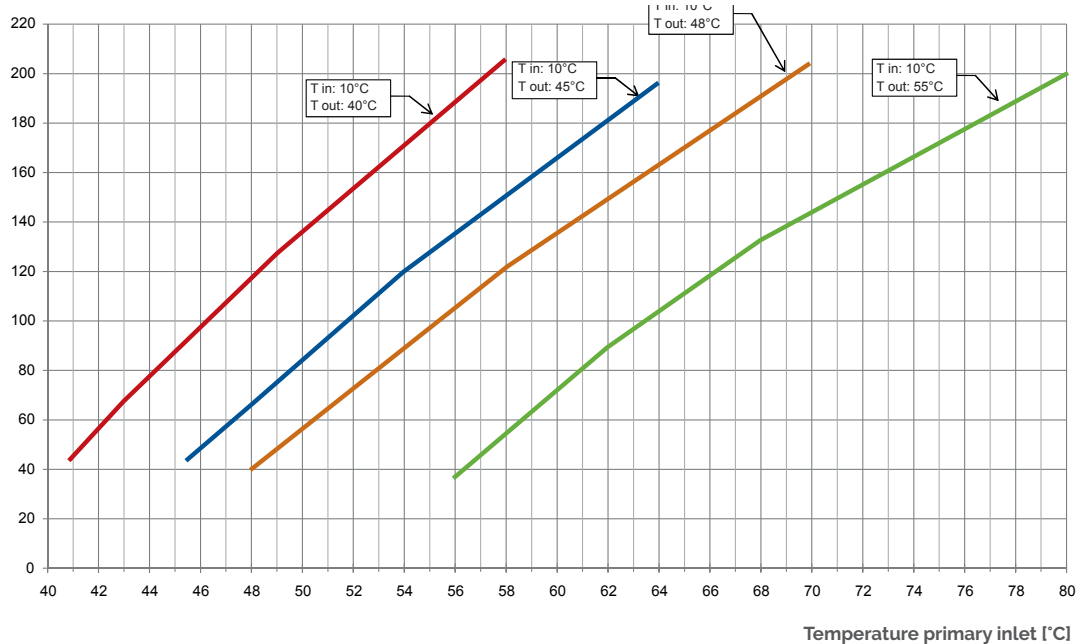
Flow of DHW to be distributed
[L/m]



Mounted SET 2.0 thermal performance

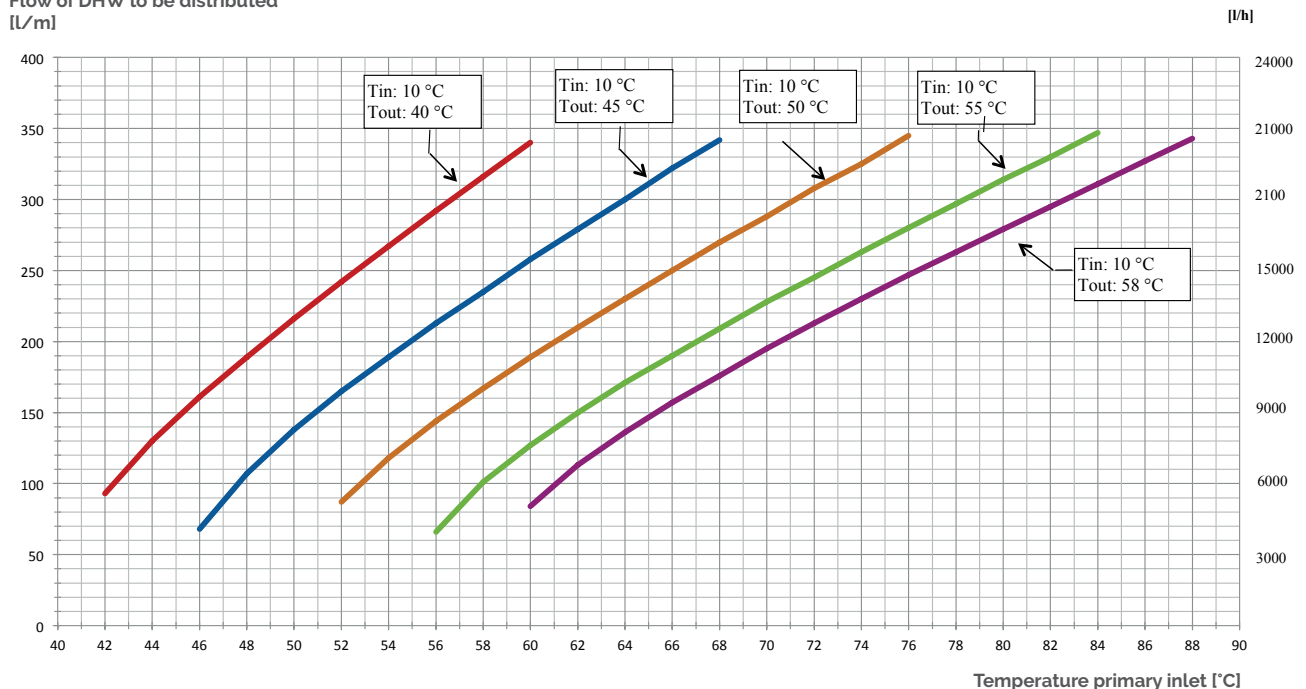
SET 120 performance

Flow of DHW to be distributed
[L/m]

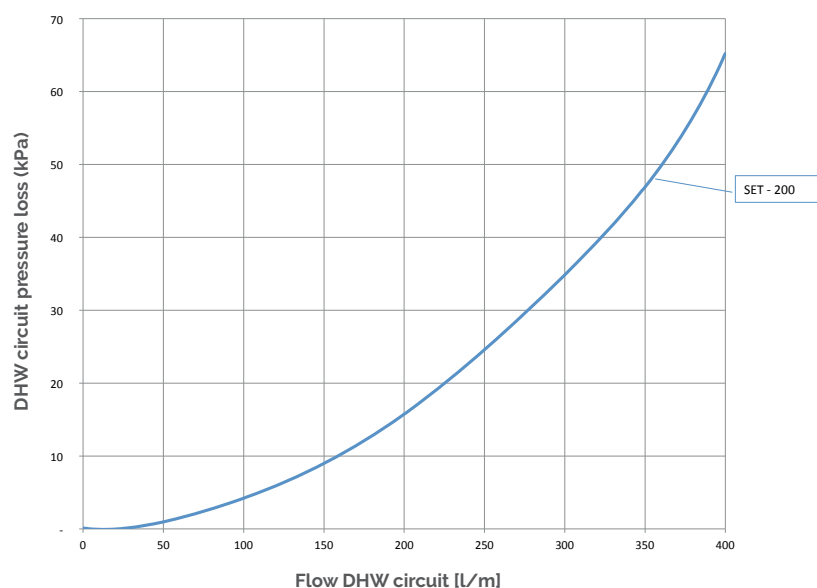
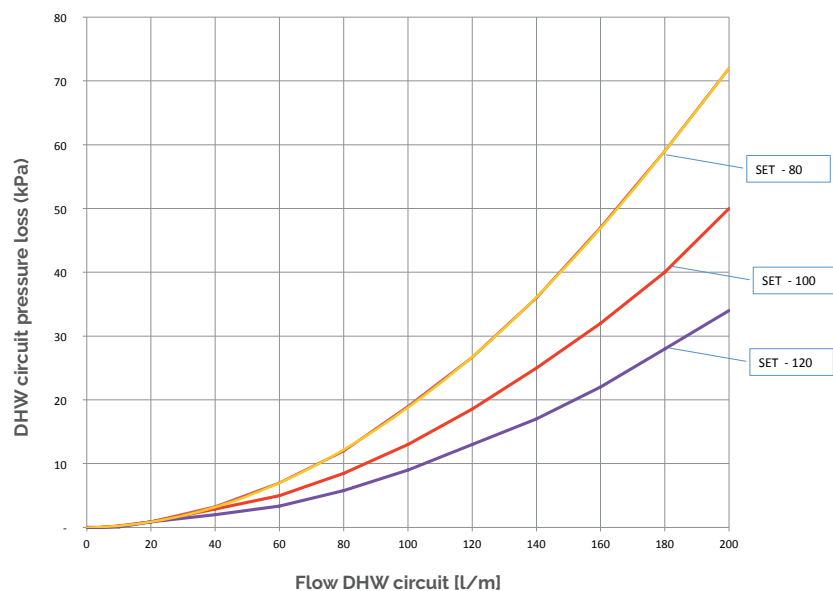
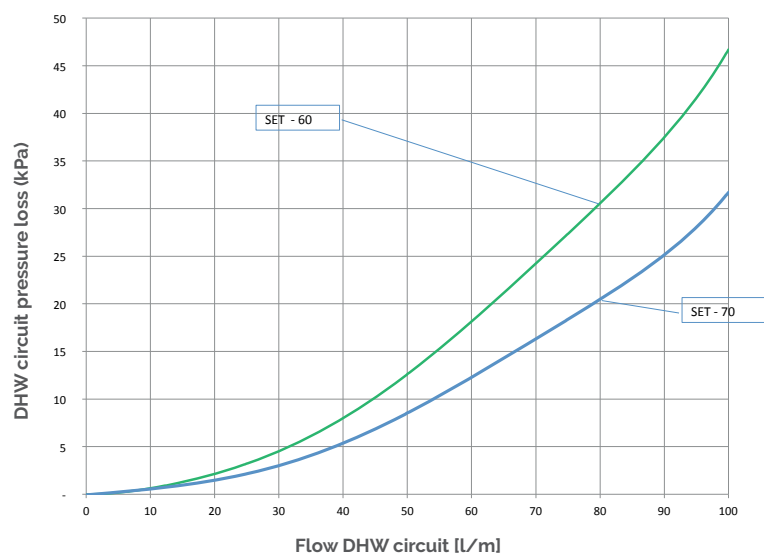


SET 200 performance

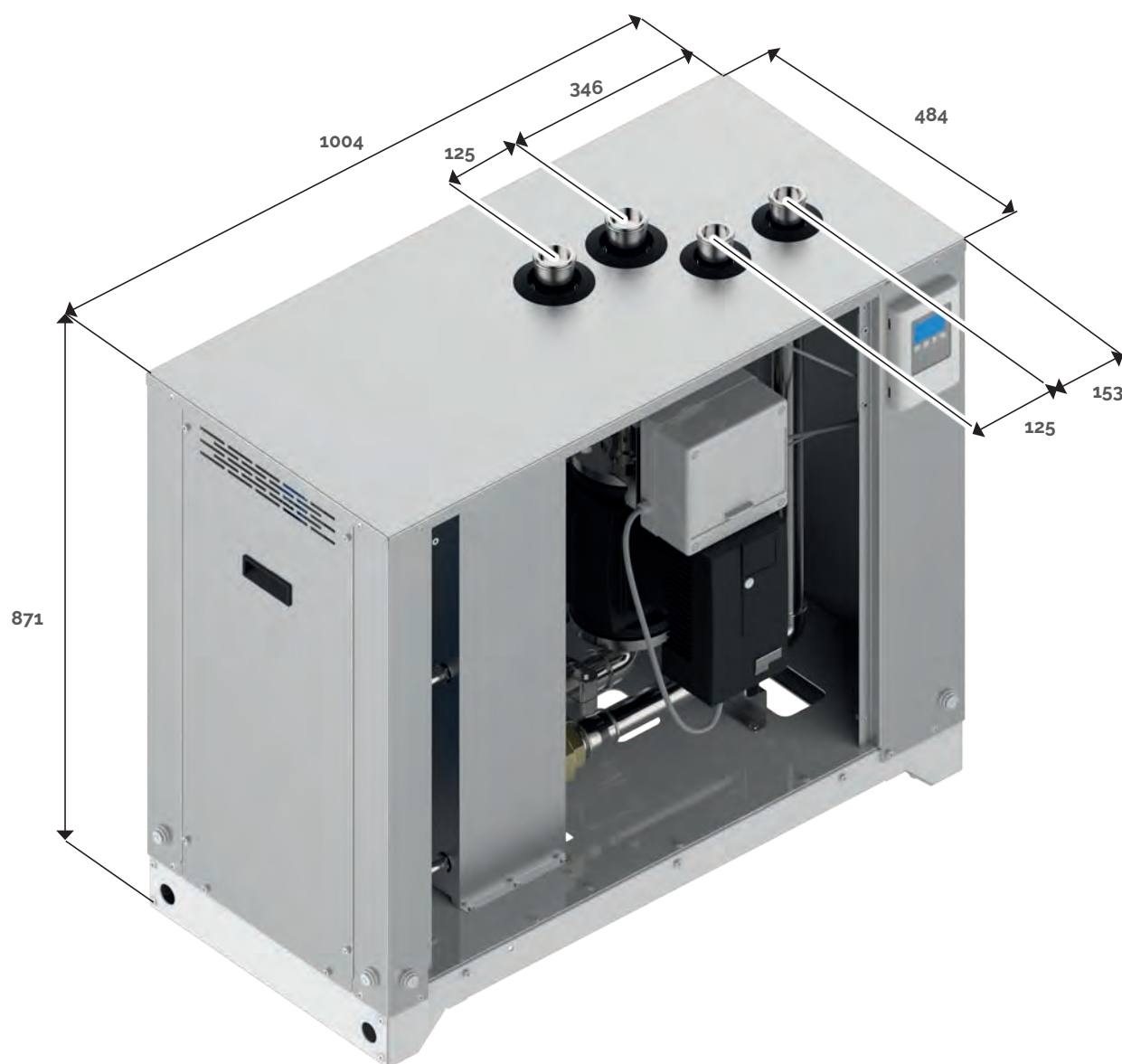
Flow of DHW to be distributed
[L/m]



Hydraulic performance (SET 2.0 S and L)



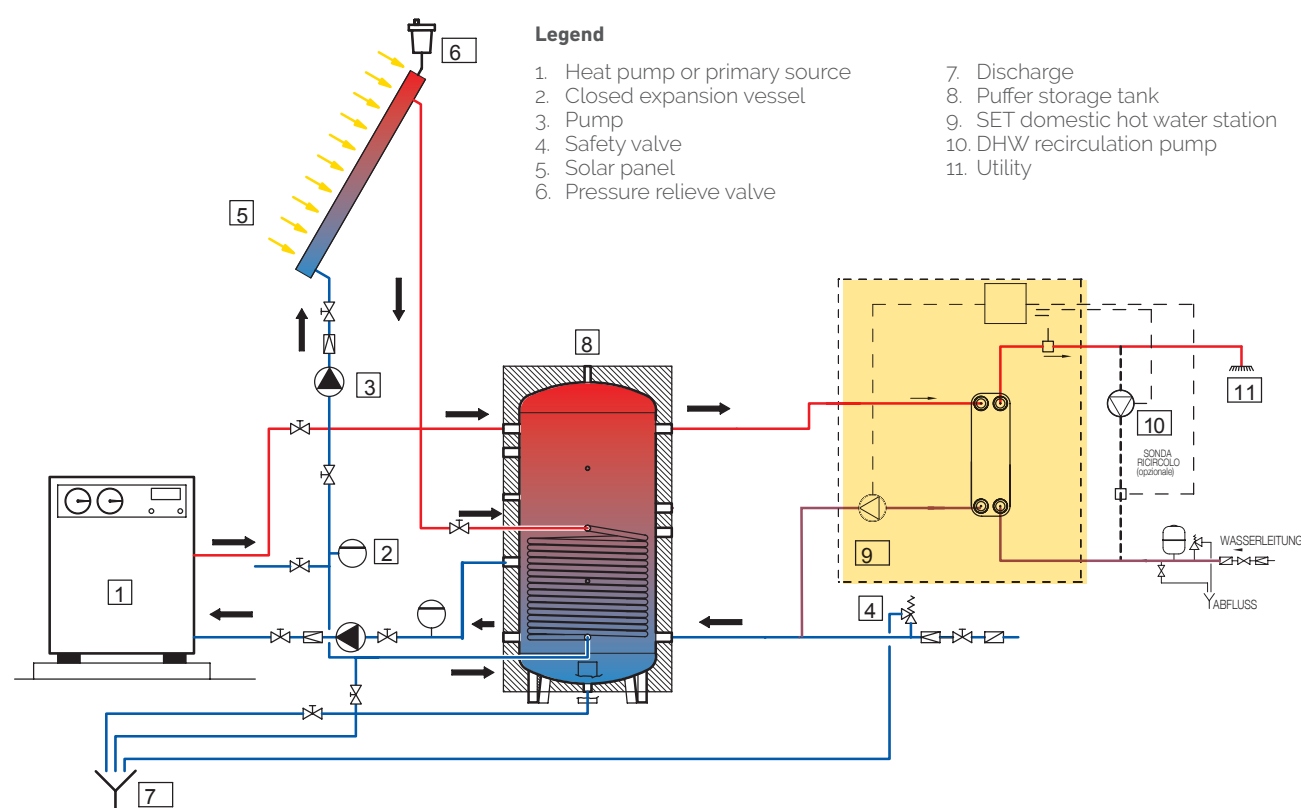
Dimensions



Technical information	MOUNTED SET					
	60	70	80	100	120	200
Electrical supply	230V / 50 hz / 1 ph					
Power of primary pump max (W)		310		450		600
Absorption of primary pump max (A)		1,37		2,01		2,7
Max power of the recirculation pump (can be managed from the control unit)(pump not supplied)	185					
Primary flow (liters/h)	6700	8200	9000	11000	14000	22000
Residual prevalence of the primary circuit (m.c.a.)	2,0	4,0	2,0	2,0	4,0	2,0
Volume of the primary circuit (l)	2,66	2,90	3,15	3,87	4,84	6,55
Volume of the domestic circuit (l)	2,54	2,14	3,06	3,77	4,71	6,37
Max operating pressure (bar)	6					
Couplings primary circuit (pollici)	1" 1/2 GAS M					
Couplings secondary circuit (pollici)	1" 1/4 GAS M					
Max operating temperature (°C)	95					
Category of electrical protection	IP40					
Min DHW ignition flow (L/min)	5	5	10	10	10	20
Max DHW flow (L/min)	100	100	200	200	200	400

Installation chart

In combination with the water storage tank



Equipment

The mounted SET 2.0 fresh water station is delivered in a cardboard box with:

- ✓ Fresh water station with electric switchboard for connection to the electric grid
- ✓ User guide

Accessories on request

Several accessory kits are available that can be combined with the SET 2.0 fresh water station.

Description	
kit to connect the SET in series	✓
recirculation kit	✓
kit with mixing valve on the primary circuit	✓
kit with stratification valve for the storage tank	✓

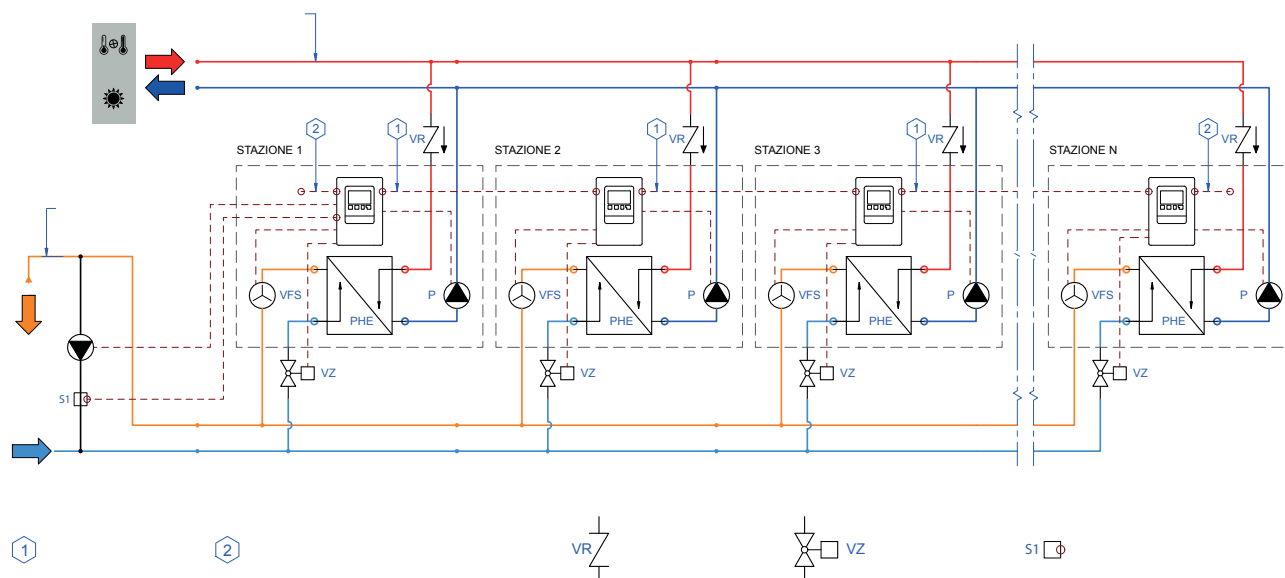
Kit to connect the SET in series

The kit to connect the SET in series is the option for all applications in which the need for domestic hot water is very variable, for example in sport centres, etc. In this way it is possible to connect max 8 fresh water stations and ensure a DHW production of min 5 l/m and max 3200 l/min*. The electronic control units that are mounted on every fresh water station enables communication between the stations via Modbus. As such, the electronics decide how many and which fresh water stations are activated, depending on the user conditions.

Advantages and benefits

- ✓ variable DHW production: from 5 to 3200 l/min
- ✓ The production by several SET connected in series depends on the temperature in the primary circuit and the production of DHW. The DHW flow that is to be distributed by a system in series is equal to the sum of the flow of all fresh water station as indicated in the graphic Hydraulic Performance
- ✓ trustworthy. Because the control unit carries out diagnoses by itself, in case of malfunctioning of one of the stations, the station is automatically deactivated and another station is activated. In this way, every fresh water station always operates in circumstances that approach the nominal circumstances and the precision and efficiency of the regulation is improved.
- ✓ The installation with the fresh water system in series can be expanded. You can add more units, even after the initial installation.
- ✓ The programmed maintenance of the fresh water stations can be executed without interrupting the DHW distribution.
- ✓ Every fresh water station operates for an equal number of hours which guarantees a long life span of the system.
- ✓ Regulation of the temperature is even more precise. The regulation makes it possible to activate the right number of fresh water station based on the flow and the temperature of the DHW.

Installation chart



Installation of the Kit

Install one kit for every fresh water station. The kit is supplied in parts, non-assembled and is composed of:

- ✓ one motorized zone valve with a fast 230V motor
- ✓ one CanBus cable
- ✓ the instructions

Recirculation kit

The recirculation kit makes it possible to opt for one of the multiple option offered by the electronic control station to control the pump of the sanitary recirculation circuit (circulator not supplied).

Possible settings

- ✓ Programming the recirculation in time slots. The recirculation pump is activated only during the indicated time slots and when the recirculation temperature is below the programmed temperature
- ✓ recirculation pump is always activated
- ✓ activation of the recirculation pump after a brief sampling period.

This option activates the recirculation pump only when strictly necessary, as such heating the domestic circuit without wasting drinking water.

Composition of the kit

The kit is supplied in parts, non-assembled and is composed of:

- ✓ temperature probe to be put on the recirculation ring
- ✓ instructions

Recirculation pump

The recirculation pump is not supplied with the kit because the pump has to be selected on the basis of the specifics of your installation. However, because the pump is to be controlled by the SET regulator, it has to have the following features

- ✓ power supply 230V/50hz/1ph
- ✓ max power 185 W

Kit with mixing valve on the primary circuit

The kit helps regulate the temperature at the entrance of the fresh water station. In this way, especially in installations that can reach high temperatures in the primary circuit, the precision of the regulation is improved, which guarantees higher comfort.

Composition of the kit

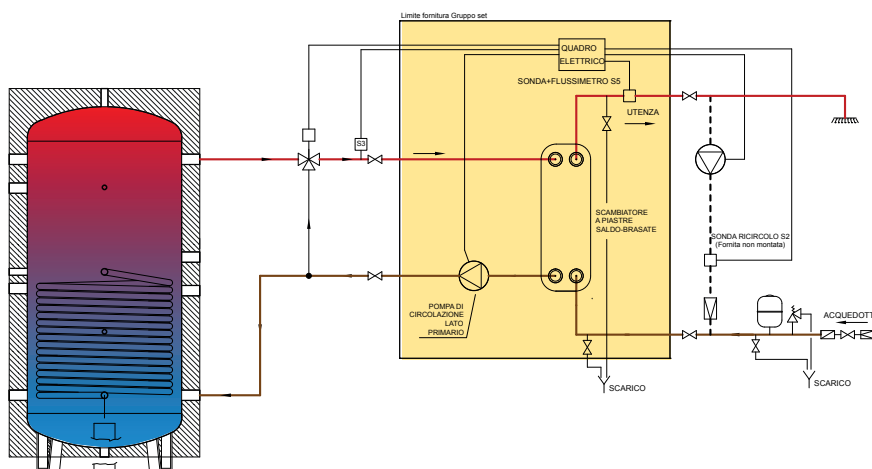
The kit is supplied in parts, non-assembled and is composed of:

- ✓ S3 temperature probe to be placed at the entrance of the exchanger on the primary circuit
- ✓ instructions

Mixing valve

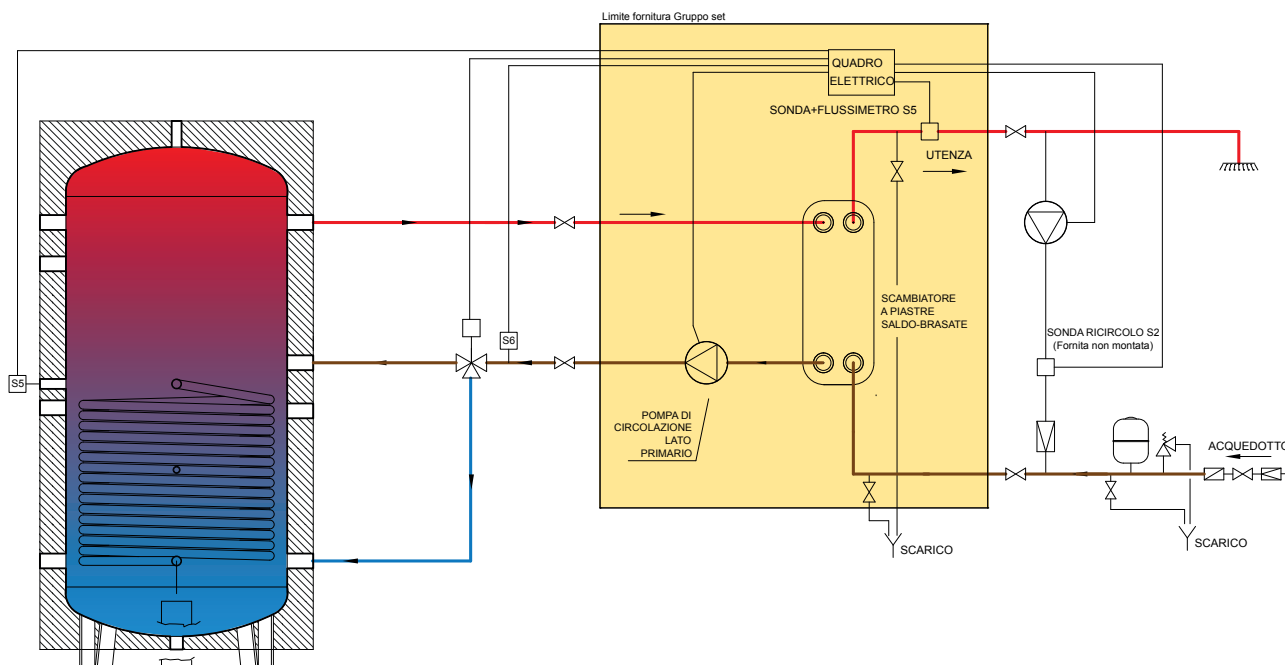
The mixing valve is not supplied with the kit because it should be selected on the basis of the specifics of your installation. However, because it is controlled by the SET regulator, it should have the following features:

- ✓ power supply 230V/50hz/1ph
- ✓ Three way regulation
- ✓ fast motor, runs at a time less than 10s
- ✓ kvs value compatible with the residual prevalence of the fresh water system and the pressure loss of the device



Kit with stratification valve for the storage tank

The kit makes it possible to direct the return from the fresh water station to the lower part instead of the mid part of the storage tank. Because of this, the stratification phenomenon in the storage tank is favoured and the efficiency of the entire heating system is maximized.



Composition of the kit

The kit is supplied in parts, non-assembled and is composed of:

- ✓ S6 temperature probe to be placed in the middle of the storage tank
- ✓ S6 temperature probe on the return of the primary circuit
- ✓ instructions

Stratification valve

The valve is not supplied with the kit because it should be selected on the basis of the specifics of your installation.

However, because it is controlled by the SET regulator, it should have the following features

- ✓ three way deviation valve
- ✓ 230V/50hz/1ph power supply
- ✓ relay with spring return
- ✓ kvs value compatible with the residual prevalence of the fresh water station and the pressure loss of the device

Codes

code	description	price	packed	
			dimensions cm	weight kg
842030004X	SET 60 - Fresh water station		110x60x100	166
842030005X	SET 70 - Fresh water station		110x60x100	168
842030006X	SET 80 - Fresh water station		110x60x100	189
842030007X	SET 100 - Fresh water station		110x60x100	193
842030008X	SET 120 - Fresh water station		110x60x100	198
842030016X	SET 200 - Fresh water station		139,2x63,4x125	200

Kits with external accessories		prezzo
842030092X	External kit in series SET 2.0 DN32	
842030099X	External kit recirculation SET 2.0	
842030096X	External kit mixing valve set 2.0	
842030098X	External kit deviation valve set 2.0	

* please contact Fiorini to evaluate the series of SET 200

Water storage tanks

Contents

Puffer water storage tanks	
PUFFER	186
Combined water storage tank	
COMBI PLUS	190

PUFFER

Water storage tanks

The Puffer tanks are inertial tanks for heating installations which store non-domestic hot water. They are used in all devices powered by discontinuous power sources (e.g. solar panels, wood burners, boiler stoves, etc.) or wherever the volume of water stored in the device must be increased (e.g. devices with heat pumps, combined heat and power units, biomass burners, etc.). Several versions are available, to be used with one or more energy sources:

PFA Regular storage tank

PFB Storage tank fitted with smooth tube heat exchanger to add an additional power source (e.g. solar).

PFC Storage tank fitted with two smooth tube heat exchangers to add two additional power sources (e.g. solar and boiler stove).

✓ Materials

All storage tanks are made of carbon steel sheets, externally varnished

✓ Insulation

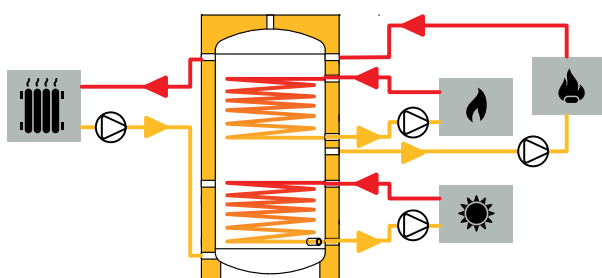
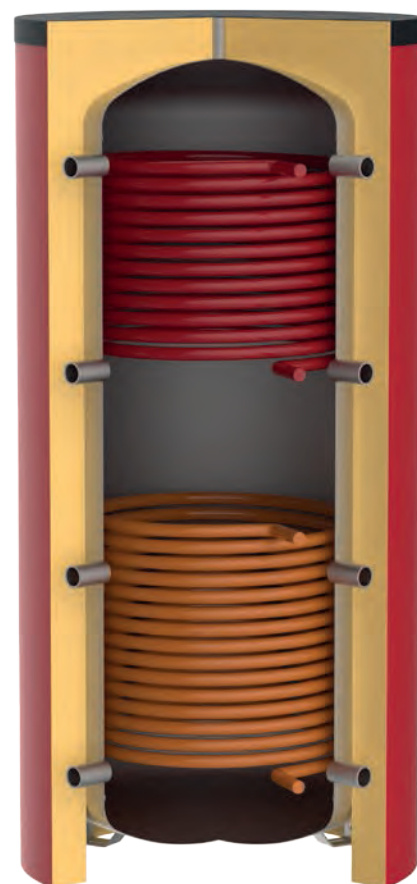
Up to 500l: Rigid foam with a thickness of 50mm (cannot be removed).
Larger tanks: flexible polyurethane with a thickness of 100mm (can be removed). Covered with coloured PVC.

✓ Available accessories

The following accessories can be supplied on demand: thermometer, thermostat, current impressed electronic anode, electrical resistor.

✓ Special versions

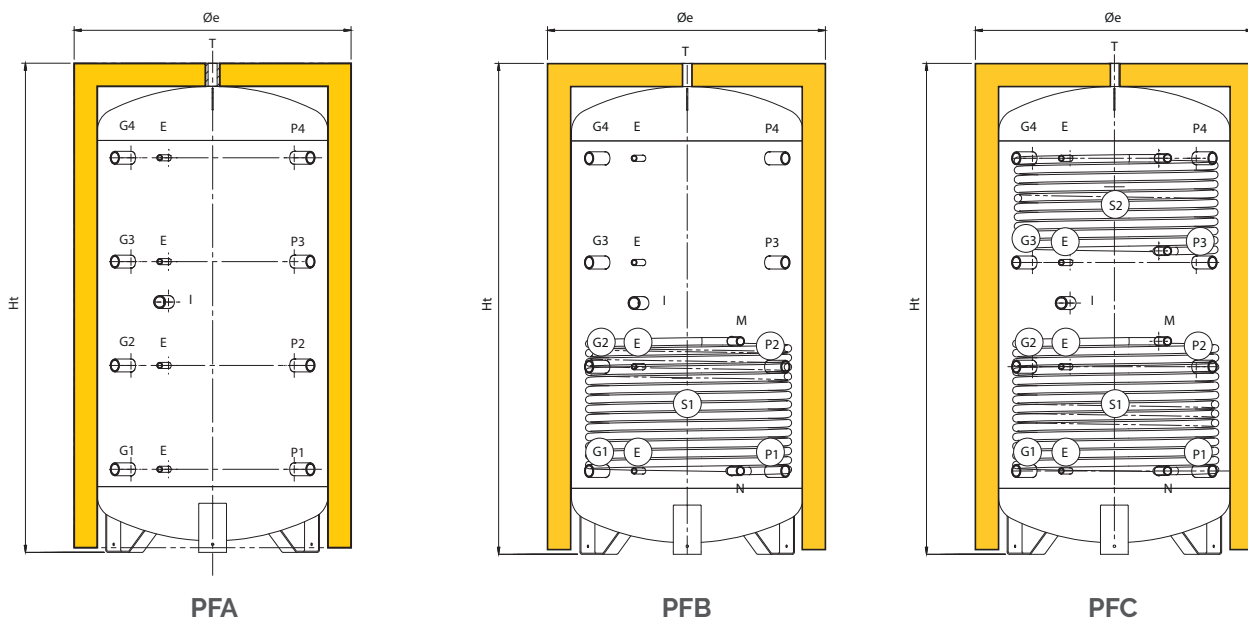
The Puffer tanks can be adapted to your requirements with customized dimensions, flanged couplings, customized couplings, thicker insulation, very thick aluminium coating, etc.



Model	Storage tank		S1 Coil Circuit		S2 Coil Circuit	
	max. temperature	max. pressure	max. temperature	max. pressure	max. temperature	max. pressure
PFA	95°C	5 bar	-	-	-	-
PFB	95°C	5 bar	99°C	9 bar	-	-
PFC	95°C	5 bar	99°C	9 bar	99°C	9 bar

PUFFER

Dimensions



Coupling chart

capacity l	G inch	P inch	E inch	I inch	T mm	M-N inch	O-P inch
300	1 1/4	1 1/4	1/2"	1 1/2	1"	1"	1"
500	1 1/4	1 1/4	1/2"	1 1/2	1"	1"	1"
800	1 1/2	1 1/2	1/2"	1 1/2	1"	1"	1"
1000	1 1/2	1 1/2	1/2"	1 1/2	1"	1"	1"
1500	1 1/2	1 1/2	1/2"	1 1/2	1"	1"	1"
2000	1 1/2	1 1/2	1/2"	1 1/2	1"	1"	1"
2500	2"	2"	1/2"	1 1/2	1"	1"	1"
3000	2"	2"	1/2"	1 1/2	1"	1"	1"
4000	2"	2"	1/2"	1 1/2	1"	1"	1"
5000	2"	2"	1/2"	1 1/2	1"	1"	1"
6000	3"	3"	1/2"	1 1/2	2"	-	-
8000	3"	3"	1/2"	1 1/2	2"	-	-
10000	3"	3"	1/2"	1 1/2	2"	-	-

Legend couplings

G1	heating return
G2	auxiliary - free
G3	low temperature heating supply
G4	high temperature heating supply
M	inlet inferior fixed exchanger
N	outlet inferior fixed exchanger
O	inlet superior fixed exchanger
P	outlet superior fixed exchanger
P1	auxiliary - free
P2	return energy source
P3	auxiliary - free
P4	supply energy source
E	temperature probe
T	electric resistor

Height chart

capacity l	Øe mm	Ht mm	R* mm	G1-P1 mm	G2-P2 mm	G3-P3 mm	G4-P4 mm	I mm	M mm	N mm	O mm	P mm	Exchanger surface area S1 m²	Exchanger surface area S2 m²
300	610	1680	1788	325	695	1065	1435	880	695	325	1435	1075	1	1
500	710	1715	1857	345	715	1085	1455	975	715	345	1455	1135	1.9	1.2
800	990	1740	2002	290	660	1030	1400	845	770	290	1400	1130	2.5	1.5
1000	990	2100	2322	290	780	1270	1760	1020	890	290	1760	1280	3.1	2.5
1500	1200	2120	2437	360	810	1260	1710	1085	920	360	1710	1310	3.8	2.8
2000	1300	2450	2774	390	930	1470	2010	1200	990	390	2010	1650	4.6	2.8
2500	1450	2220	2652	425	865	1305	1745	1145	985	425	1745	1305	5	4
3000	1450	2720	3083	435	1035	1635	2235	1435	1115	435	2235	1755	6	4.2
4000	1600	2810	3234	480	1080	1680	2280	1430	1160	480	2280	1800	7	5
5000	1800	2870	3388	510	1110	1710	2310	1510	1190	510	2310	1910	8	5
6000	2000	2790	3433	635	1155	1675	2195	1415	-	-	-	-	-	-
8000	2000	3490	4023	625	1385	2145	2905	1615	-	-	-	-	-	-
10000	2000	4240	4689	625	1635	2645	3655	2365	-	-	-	-	-	-

R*: reversal quota

PUFFER

Product code

PFA series

capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
300	817010119X		D	64x64x180	55
500	817010120X		D	74x74x183,5	77
800	817010046			102x102x186	109
1000	817010002			102x102x222	125
1500	817010003			123x123x224	194
2000	817010004			132x132x257	263
2500	817010101X			147x147x234	296
3000	817010102X			147x147x284	346
4000	817010103X			163x163x293	492
5000	817010104X			183x183x299	582
6000	817010129X			282x203x217,5	684
8000	817010130X			352x203x217,5	823
10000	817010131X			427x203x217,5	973

PFB series

capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
300	819010129X		D	64x64x180	65
500	819010130X		D	74x74x183,5	98
800	819010053			102x102x186	137
1000	819010003			102x102x222	153
1500	819010004			123x123x224	237
2000	819010005			132x132x257	315
2500	819010135X			147x147x234	352
3000	819010136X			147x147x284	413
4000	819010137X			163x163x293	571
5000	819010138X			183x183x299	672

PFC series

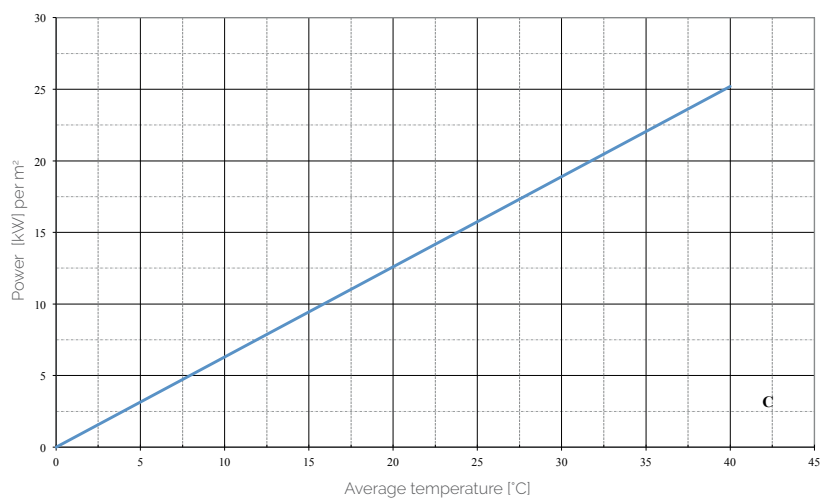
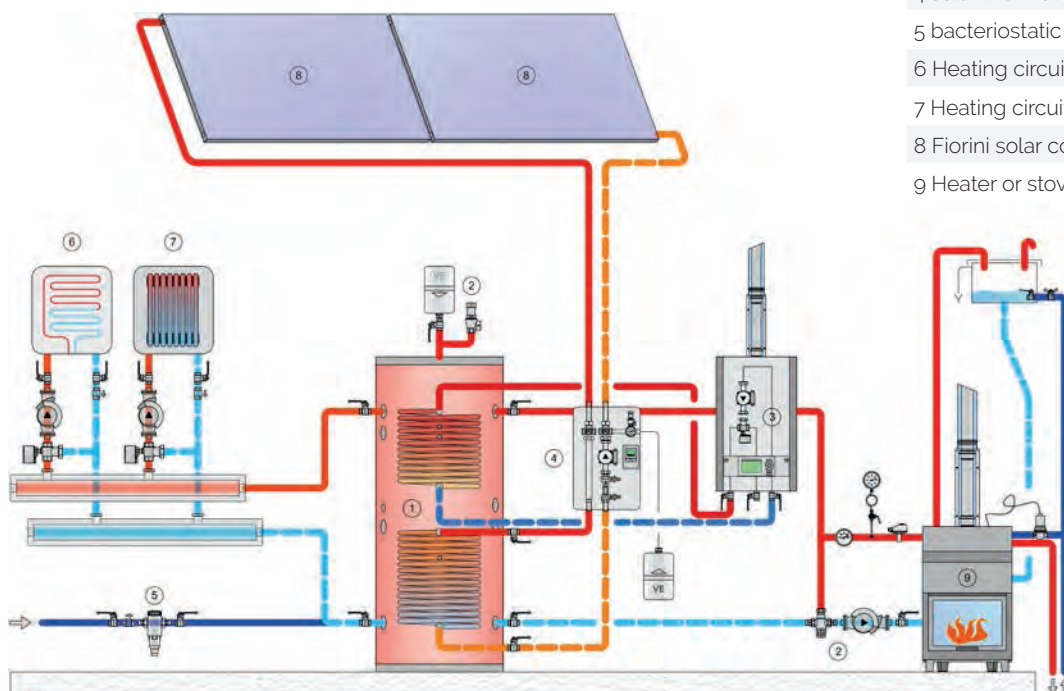
capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
300	819010149X		D	64x64x180	77
500	819010150X		D	74x74x183,5	111
800	819010056			102x102x186	154
1000	819010006			102x102x222	181
1500	819010007			123x123x224	268
2000	819010008			132x132x257	346
2500	819010155X			147x147x234	383
3000	819010156X			147x147x284	460
4000	819010157X			163x163x293	628
5000	819010158X			183x183x299	730

PUFFER

Installation chart

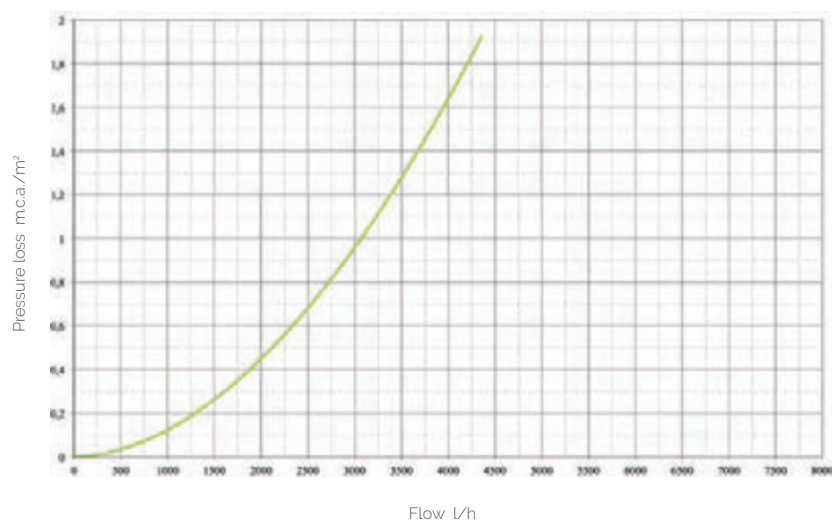
List of components

- 1 PFC Fiorini Puffer
- 2 Safety unit
- 3 Heating by alternative source
- 4 solar thermal return unit
- 5 bacteriostatic cold water filter
- 6 Heating circuit 1
- 7 Heating circuit 2
- 8 Fiorini solar collectors
- 9 Heater or stove with open vessel



Instantaneous DHW production

The chart indicates the maximum instantaneous DHW production (10-45°C) through the stainless steel coil in function of the storage temperature in the tank



Pressure loss in the fixed coil

The pressure loss indicated in the chart refers to a surface area of 1 m² of the coil. Multiply this value with the exchange surface in order to come to the total pressure loss.

COMBI PLUS

Mixed storage tank

The COMBI PLUS gamma consists of inertial tanks for installations which use discontinuous energy sources, such as solar power systems, biomass systems and wood burning systems. Thanks to the internal exchanger with a stainless steel corrugated tube with a large surface, the instantaneous DHW production is guaranteed. There are three versions of which several capacities are available, from 600 to 2000 liters.

COMBI PLUS A: equipped with n°1 internal fixed exchanger with a stainless steel corrugated tube for instantaneous DHW production

COMBI PLUS B: equipped with n°2 internal fixed heat exchangers, one with a stainless steel corrugated tube for instantaneous DHW production and another for coupling to an ulterior heat source.

COMBI PLUS C: equipped with n°3 internal fixed heat exchangers, one with a stainless steel corrugated tube for instantaneous DHW production and two in carbon steel for coupling to other integrative heat sources

✓ Materials

The inertial tanks are made of high quality material, in particular:

Coil for domestic use: AISI 316L stainless steel

Tank and integration coil: ST235JR carbon steel

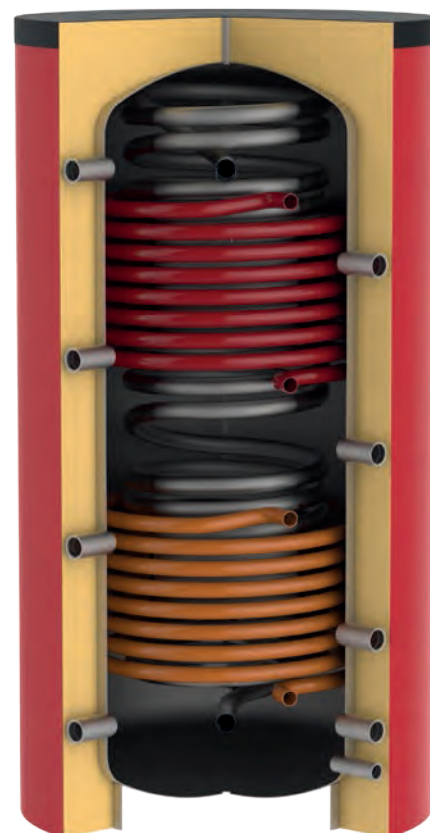
✓ **External protective treatment:** enameling with industrial varnish

✓ Insulation

Flexible polyurethane with a thickness of 100mm, covered with coloured PVC

✓ Available accessories

On demand, several adaptations and accessories are available: external plate heat exchanger kit, thermometer, thermostat and electrical resistor.



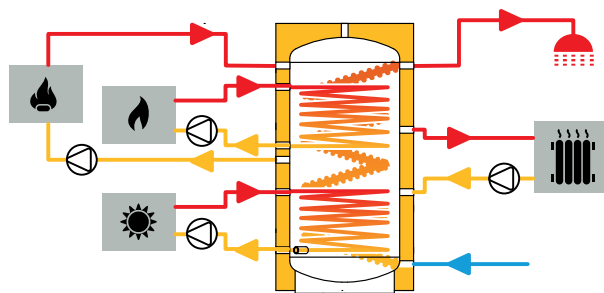
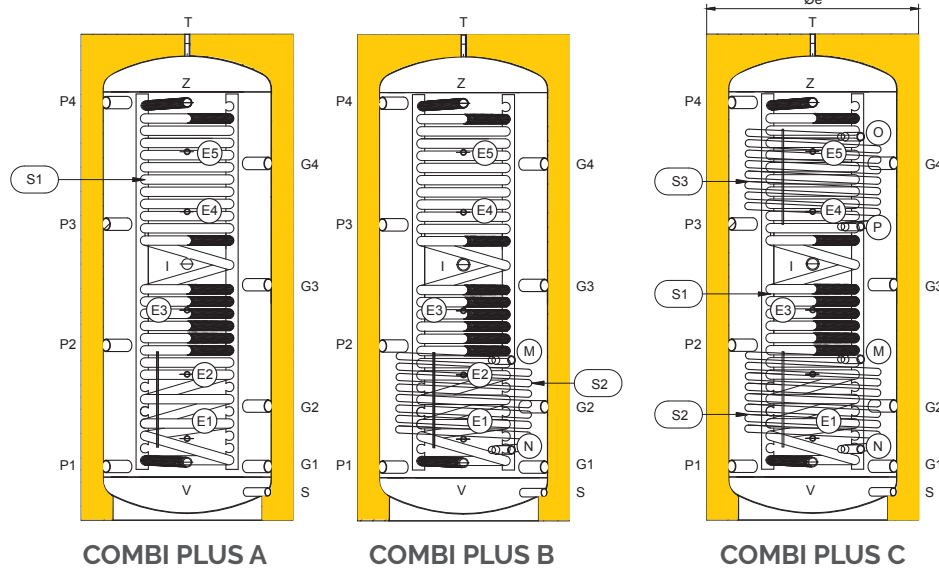
Storage tank		S1 Coil Circuit		S2 Coil Circuit	
max. temperature	max. pressure	max. temperature	max. pressure	max. temperature	max. pressure
90°C	3 bar	90°C	16 bar	90°C	6 bar

COMBI PLUS

Dimensions

Coupling chart

G1	heating return
G2	auxiliary – free
G3	low temperature heating supply
G4	high temperature heating supply
P1	auxiliary – free
P2	return energy source
P3	auxiliary – free
P4	supply energy source
I	electrical resistor
V	inlet cold water from the hydraulic circuit
Z	DHW outlet
N	inlet inferior fixed exchanger
M	outlet inferior fixed exchanger
P	outlet superior fixed exchanger
O	inlet superior fixed exchanger
E1	temperature probe
E2	temperature probe
E3	temperature probe
E4	temperature probe
E5	temperature probe
S	discharge



Coupling chart

capacity l	G1.4 inch	P1.4 inch	i inch	V inch	Z inch	N inch	M inch	P inch	O inch	E1.5 inch	S inch	S1 m²	S3 m²	S3 m²
600	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1	1	1	1	1/2	1	5,65	1,4	1,4
800	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1	1	1	1	1/2	1	5,65	1,8	1,8
1000	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1	1	1	1	1/2	1	6,95	1,8	1,8
1500	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1	1	1	1	1/2	1	6,95	3	2,4
2000	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1	1	1	1	1/2	1	8	4,5	3

Height chart

cap. l	Øe mm	Ht mm	R* mm	P1 mm	P2 mm	P3 mm	P4 mm	G1 mm	G2 mm	G3 mm	G4 mm	V mm	Z mm	N mm	M mm	P mm	O mm	E1 mm	E2 mm	E3 mm	E4 mm	E5 mm
600	900	1900	2103	290	715	1145	1570	290	505	930	1355	285	1575	360	760	1120	1520	435	655	880	1230	1425
800	990	1880	2125	250	685	1115	1550	250	455	900	1335	270	1555	330	750	1060	1480	380	570	750	1150	1450
1000	990	2270	2477	250	815	1380	1950	250	530	1100	1665	270	1950	330	750	1370	1790	380	680	980	1440	1720
1500	1100	2665	2884	380	1015	1640	2260	380	705	1325	1950	400	2260	460	1260	1590	2190	510	875	1240	1680	2020
2000	1300	2500	2818	380	925	1475	2030	380	655	1205	1750	380	2030	450	1250	1410	1960	610	840	1070	1530	1830

R*: reversal quota

COMBI PLUS

Mixed storage tank

COMBI PLUS A

capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
600	842020178X			97x97x205	195
800	842020179X			105x105x203	210
1000	842020180X			105x105x242	238
1500	842020181X			115x115x283	330
2000	842020182X			135x135x265	378

COMBI PLUS B

capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
600	842020148X			97x97x205	205
800	842020149X			105x105x203	232
1000	842020150X			105x105x242	246
1500	842020151X			115x115x283	371
2000	842020152X			135x135x265	404

COMBI PLUS C

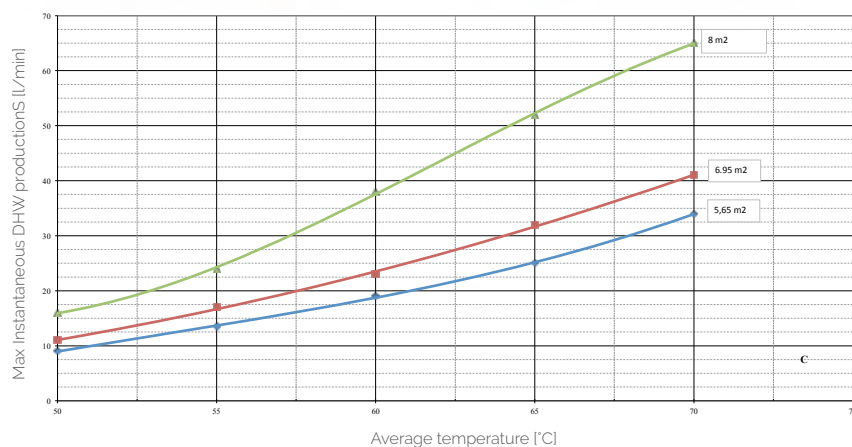
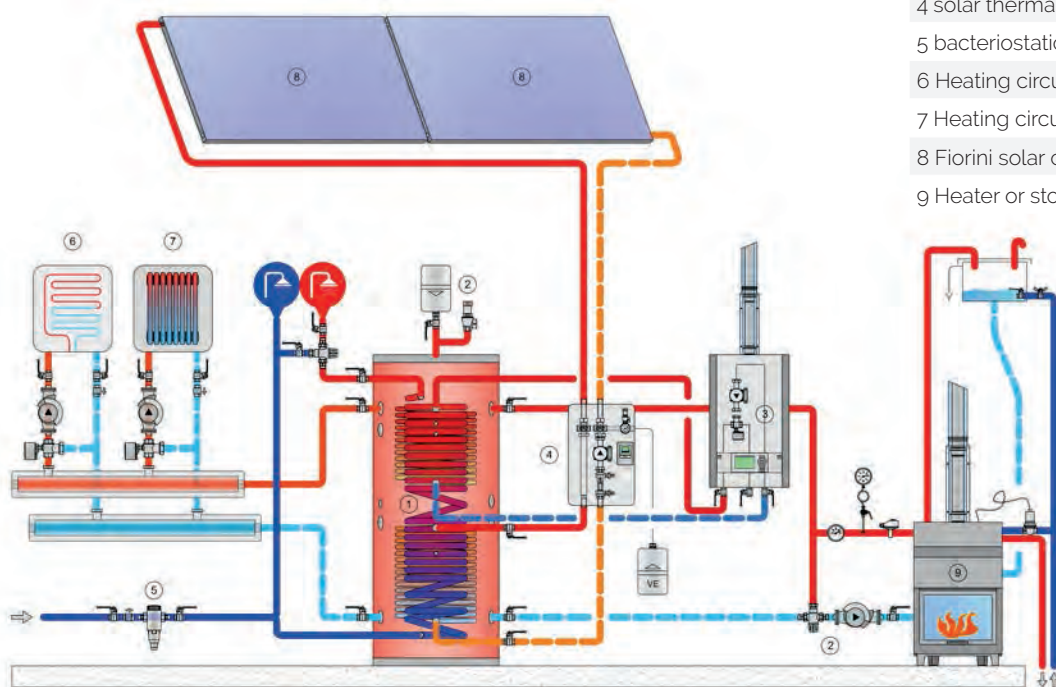
capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
600	842020153X			97x97x205	220
800	842020154X			105x105x203	254
1000	842020155X			105x105x242	278
1500	842020156X			115x115x283	411
2000	842020157X			135x135x265	455

COMBI PLUS

Installation chart

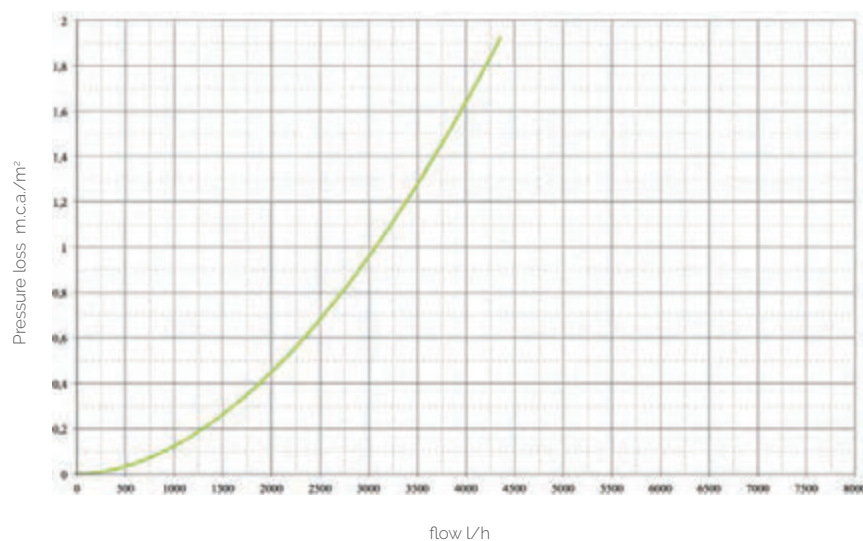
List of components

- 1 PFC Fiorini Puffer
- 2 Safety unit
- 3 Heating by alternative source
- 4 solar thermal return unit
- 5 bacteriostatic cold water filter
- 6 Heating circuit 1
- 7 Heating circuit 2
- 8 Fiorini solar collectors
- 9 Heater or stove with open vessel



Instantaneous DHW production

The chart indicates the maximum instantaneous DHW production (10-45°C) through the stainless steel coil in function of the storage temperature in the tank



Pressure loss in the fixed coil

The pressure loss indicated in the chart refers to a surface area of 1 m² of the coil. Multiply this value with the exchange surface in order to come to the total pressure loss.

Accessories

Contents

SLC storage tanks loading controller	238
Spare parts – supplements – accessories	240
Electrical resistance kit	241

Storage tanks loading controller SLC

The SLC unit is a modern electronic regulator for loads of large DHW storage tanks with a high temperature precision. They are equipped with a wide display and makes it possible to program the desired temperature in the inside of the tanks on three different peak times a day. It is possible to control and command the electronic pump (0-10 V or PWM) by regulating the velocity on the ground of the difference between the measured temperature and the set point temperature. When cold water is stored the velocity of the pump is reduced in order to maximize the stratification in the tank. Numerous hydraulic programs are pre-loaded in the control unit, as you can see below.

Composition

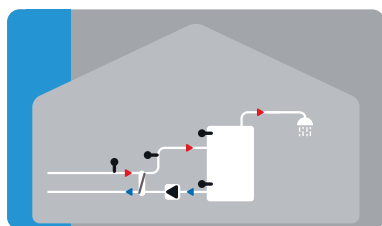
- ✓ electronic control unit
- ✓ 2 contact probes pt1000
- ✓ 1 emersion probe pt1000
- ✓ instructions



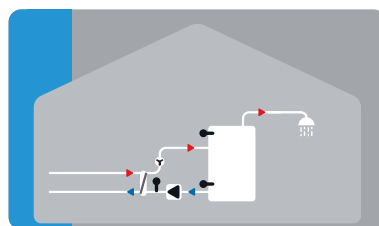
Code	Model	Price
822120028	SLC controller	

Technical details	
Inlet for the temperature probe pt 1000	6
Inlet for the grundfos VFS sensor	0-2
Outlet 230V	3
Outlet 0.0010V or PWM for the control of the high efficiency pump's velocity	1
Number of pre-set programs	5
Red/green LED light	Yes
Energy gauge	Yes
Crono function of the thermostat	Yes
Crono function of the thermostat for the activation of the pump	Yes
Anti-legionella function	Yes
Memorizing the data with statistics and graphics	Yes
Possibility to block the menu	Yes
Universal alimentation (100...240 VAC) with reduction of the consumption in standby mode	Yes

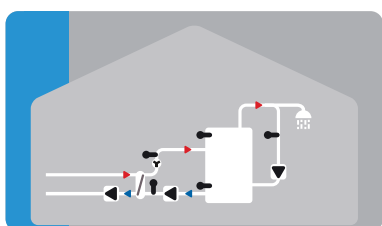
Pre-set layout SLC



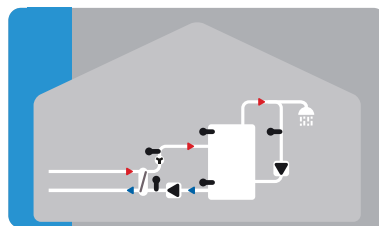
Storage load without VFS



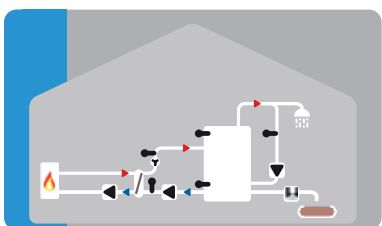
Storage load with VFS



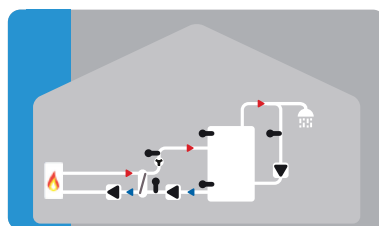
Storage load with VFS, primary pump and
recirculation pump



Storage load with VFS and recirculation pump



Storage load with VFS, primary pump, anti-le-
gionella heating and discharge of sediments



Storage load with VFS, primary pump, anti-le-
gionella heating and recirculation pump

Spare parts – supplements – accessories

Description	Compatibility	Code	Price
Magnesium anode 22x400 M8 without plug	FLEXY, FLEXY BLUE, FLEXY INOX, BOIL, BOIL INOX, SMART INOX capacity 200÷300 l	822100003	
Magnesium anode 33x500 M8 without plug	*FLEXY, FLEXY BLUE, FLEXY INOX, BOIL, BOIL INOX, SMART INOX capacity 500÷5000 l 6000÷10000 l (N°2 pieces)*	822100004	
Plug for anode fitting 1" ¼	*FLEXY, FLEXY BLUE, FLEXY INOX, BOIL, BOIL INOX, SMART INOX	801050042	

One is provided for every installed anode

Magnesium anodes for SMART boilers

Capacity	Description	Code	Price
200	Isolated anode 33 x 500	822100013	
300	Isolated anode 33 x 500	822100013	
400	Isolated anode 33 x 500	822100013	
	Magnesium anode 22 x 400 M8 without plug	822100003	
500	Isolated anode 33 x 500	822100013	
	Magnesium anode 22 x 400 M8 without plug	822100003	
750	Isolated anode 33 x 500	822100013	
	Magnesium anode 22 x 400 M8 without plug	822100003	
1000	Isolated anode 33 x 500	822100013	
	Magnesium anode 22 x 400 M8 without plug	822100003	
1500	Magnesium anode 33 x 500 M8 SENZA TAPPO	822100004	
	Plug for anode fitting 1"1/4	801050042	
2000	Magnesium anode 33 x 500 M8 without plug	822100004	
	Plug for anode fitting 1"1/4	801050042	
3000	Magnesium anode 33 x 500 M8 without plug	822100004	
	Plug for anode fitting 1"1/4	801050042	

Description	Code	Price
Current impressed cathodic protection		
Up to 1500 liters	822100014	
From 2000 to 5000 liters	822100015	

Description	Code	Price
thermometer for hot water	822050001	
thermometer for cold water	822050004	

Description	Code	Price
Thermostat	822010004	
Bithermostat	822050006	
Anti-freeze bithermostat	822050007	

Description	Code	Price
Anti-freeze resistor 200W	824100001	



Electrical resistance kit

Single-phase electrical heaters that can be integrated with the boilers, copper heating elements, IP44 protection category, supplied with regulation thermostat, safety thermostat (manual reset), electric cable and Schuko plug 10-16A/250V

Code	Price	Power W	Length L mm	Connection GAS M	Temperature safety thermostat °C	Tension V
824100166		1200	365	1"1/2	95	220 V single phase
824100167		2000	368	1"1/2	95	
824100168		3000	350	1"1/2	85	



Three-phase electrical heaters that can be integrated with the boilers, copper heating elements, IP44 protection category, supplied with regulation thermostat, safety thermostat (manual reset), electric cable and no plug. Regulation thermostat 20-70°C

Code	Price	Power W	Length L mm	Connection GAS M	Temperature safety thermostat °C	Tension V
824100169		2000	300	1"1/2	95	400 V three phased
824100170		3000	300	1"1/2	95	
824100171		4500	375	1"1/2	95	
824100172		6000	450	1"1/2	95	
824100173		9000	580	1"1/2	95	





Pressure tanks

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20 bar	259
25 bar	260
30 bar	261
35 bar	262
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AK series	
8, 11, 12 bar	270
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AP series	
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18 bar	278
20 bar	279
25 bar	280
30 bar	281
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VE series	
6,8,12 bar	290
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VO series	
6 bar	294
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AV series	
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Accessories	300



P.E.D. tested pressure tanks

A broad range of pressurized tank, with CE mark, in accordance with the P.E.D. directive (Directive 97/23/CE)

The products are manufactured as prescribed by the P.E.D. directive, which applies to storage tanks that have to contain dangerous fluids or fluids under high pressure and/or temperatures. The tanks are designed to meet the specific requirements for several applications: autoclaves, compressed air tanks, expansion vessels, steam accumulators and expansion vessels for heat transfer oil. They are made of carbon steel sheets, welded in an automatic process, accurately refinished and controlled and tested on the grounds of the operative circumstances of the project.

On demand, we also manufacture:

- products with customized dimensions
- inspection holes
- external protective treatments
- specific insulation
- internal protective treatments (hot dip galvanizing (UNI EN1179) suited for contact with water for human consumption, external anti-rust coating, internal Teflon coating for alimentary use
- external covering (anti-condensation insulation covered in PVC or aluminium sheet, flexible polyurethane coating covered in PVC or aluminium sheet)



P.E.D. directive

The PED directive (Directive 97/23/CE) regulates the design, manufacturing and conformity valuation of pressure vessels and products submitted to a maximum allowable pressure "PS" over 0.5 bar. The CE directive aims to harmonize the national laws in the member states that relate to the valuation of the project, the production, the testing and the conformity of the pressurized vessels and products.

The directive concerns pressure vessels, heat exchangers, steam generators, heaters, industrial piping and safety equipment, used in residential and industrial settings (oil & gas, chemical, pharmaceuticals, plastic and rubber, alimentary, paper).

Hazard category of the devices

This is an indication of the danger level of the pressure vessels which can be divided in the following categories: Article 3 section 3, I, II, III, IV. The category is determined on the grounds of numerous factors: typology of the fluid, (dangerous and not dangerous), max allowable temperature, pressure and capacity.

According to the PED, fluids are divided in 2 categories:

GROUP 1: includes dangerous fluids

- Explosives
- Extremely flammable fluids
- Easily flammable fluid
- Flammable fluids (where the allowed maximum temperature is above flashpoint)
- Highly toxic fluids
- Toxic fluids
- Reactive fluids

GROUP 2: includes all fluids not listed in group 1 and therefore not considered dangerous.

The following chart illustrates the typology of our products, in function of the used fluid and the temperature values. First you individuate the table which applies to the device in question, then you determine the hazard category of the device under the tested pressure.

Note

- The five tables should be consulted per line.
- The pressure vessels which are not subject to Article 3 section 3 and belong to the $\geq I$ category have to have the CE label in accordance with the PED directive
- **WATER, ETHYLENE GLYCOL AND PROPYLENE GLYCOL BELONG TO GROUP 2.**

P.E.D. directive

category	PED	CE label	Intervention by notified body	Additional costs
$PS \leq 0,5$	Not applicable	No	No	No
Article 3 paragraph 3	Applicable	No	No	No
I	Applicable	Yes	No	Yes
II	Applicable	Yes	Project delivery without approval	Inspection visit
III	Applicable	Yes	Project approval	Inspection visit + project approval
IV	Applicable	Yes	Inspection visit + project approval	Inspection visit + project approval

PS: is the maximum allowed pressure, the maximum pressure for which the equipment is designed, specified by the manufacturer.

V: is the internal volume of a chamber, including the volume of nozzles to the first connection and excluding the volume of permanent internal parts.

ARTICLE 3 PARAGRAPH 3: the pressure equipment belongs to category <I and therefore should not bear the CE mark according to PED.

Note: please consult the technical department

- If a vessel is composed of several compartments, or if one compartment contains several fluids.
- If the fluid is different from those listed in NOTE 1.
- If the equipment belongs to a category $\geq I$.
- If a vessel contains pressure equipment which belongs to a category $\geq I$.
- In case of doubt or uncertainty.

Tables for classification of pressure vessels

According to the Pressure Equipment Directive 97/23/CE

Index

Type of pressure equipment	Fluid	Temperature	Table to consult
Tanks and plate heat exchangers	Water	≤ 110	4
Tanks and plate heat exchangers	Steam or superheated water	> 110	2
Tube bundle exchangers	Water	≤ 110	4
Tube bundle exchangers	Steam or superheated water	> 110	2
Steam generators	Steam or superheated water	> 110	5
Tanks and plate heat exchangers	Water, ethylene and propylene glycol	≤ 120	4
Tanks and plate heat exchangers	Water, ethylene and propylene glycol	> 120	2
Tanks and plate heat exchangers	Freon and dangerous gases		1
Autoclaves	Nitrogen or other non-dangerous gases		2
Autoclaves	Dangerous gases		1

Table 1 – Pressure vessels

V l	PS bar	PS x V bar	Category
$0,1 < V \leq 1$	$0,5 < PS < 200$		Article 3 paragraph 3
$0,1 < V < 1$	$200 < PS \leq 1000$		III
$0,1 < V < 1$	$PS > 1000$		IV
$1 < V \leq 50$	$PS > 0,5$	$PS \times V \leq 25$	Article 3 paragraph 3
$1 < V < 100$	$PS > 0,5$	$25 < PS \times V \leq 50$	I
$1 < V < 400$	$PS > 0,5$	$50 < PS \times V \leq 200$	II
$1 < V < 2000$	$0,5 < PS < 1000$	$200 < PS \times V \leq 1000$	III
$V > 1$	$PS > 0,5$	$PS \times V > 1000$	IV

Table 2 – Pressure vessels

V l	PS bar	PS x V bar	Category
$0,1 < V \leq 1$	$0,5 < PS < 1000$		Article 3 paragraph 3
$0,1 < V \leq 1$	$1000 < PS < 3000$		III
$0,1 < V \leq 1$	$PS > 3000$		IV
$1 < V \leq 100$	$PS > 0,5$	$PS \times V \leq 50$	Article 3 paragraph 3
$1 < V \leq 400$	$PS > 0,5$	$50 < PS \times V \leq 200$	I
$1 < V < 750$	$PS > 0,5$	$1000 < PS \times V \leq 3000$	III
$1 < V \leq 750$	$PS > 0,5$	$PS \times V > 3000$	IV
$V > 750$	$0,5 < PS < 4$		III
$V > 750$	$PS > 4$		IV
$1 < V \leq 2000$	$PS > 0,5$	$200 \leq PS \times V \leq 1000$	II

Tables for classification of pressure vessels

According to the Pressure Equipment Directive 97/23/CE

Table 3 – Pressure vessels

V l	PS bar	PS x V bar	Category
$0,1 < V \leq 1$	$0,5 < PS < 500$		Article 3 paragraph 3
$0,1 < V \leq 1$	$PS > 500$		II
$V > 1$	$200 < PS \leq 500$		II
$V > 1$	$PS > 500$		III
$V > 20$	$0,5 < PS \leq 10$	$PS \times V > 200$	I
$1 < V \leq 400$	$PS > 0,5$	$PS \times V \leq 200$	Article 3 paragraph 3
$V > 1$	$10 < PS \leq 200$	$PS \times V > 200$	II

Table 4 – Pressure vessels

V l	PS bar	PS x V bar	Category
$0,1 < V \leq 10$	$10 < PS < 1000$		Article 3 paragraph 3
$0,1 < V < 10$	$PS > 1000$		I
$V > 0,1$	$0,5 < PS \leq 10$		Article 3 paragraph 3
$V \geq 10$	$PS > 1000$		II
$10 < V < 20$	$500 < PS \leq 1000$	$PS \times V > 10000$	II
$10 < V < 1000$	$PS > 10$	$PS \times V \leq 10000$	Article 3 paragraph 3
$V > 20$	$10 < PS \leq 500$	$PS \times V > 10000$	I

Table 5 – Steam or superheated water at temperatures above 110°C

V l	PS bar	PS x V bar	Category
$0,1 < V \leq 2$	$PS > 0,5$		Article 3 paragraph 3
$2 < V < 100$	$0,5 < PS < 25$	$PS \times V \leq 50$	I
$V > 2$	$25 < PS < 32$	$PS \times V \leq 200$	II
$V > 2$	$PS > 32$		IV
	$0,5 < PS < 25$	$50 < PS \times V \leq 200$	II
	$3 \leq PS \leq 32$	$PS \times V > 3000$	IV
$V < 1000$	$0,5 < PS < 32$	$200 < PS \times V \leq 3000$	III
$V > 1000$	$0,5 < PS < 3$		IV
$V > 750$	$PS > 4$		IV
$1 < V \leq 2000$	$PS > 0,5$	$200 \leq PS \times V \leq 1000$	II

P.E.D. tested autoclaves 6/8/12 bar

AC series

Fiorini autoclaves are designed for lifting and distributing water under pressure. They are intended to form a lung of pressurized water which, if properly sized, serves to limit the number of start-ups of the pump. They are used to ensure perfect water distribution in the upper floors of buildings making up possible shortcomings of water aqueducts.

The models, with CE label, have capacities of 300 up to 20.000 litres in both the vertical and horizontal version with 6, 8 or 12 bar.

✓ Special versions

The AC storage tanks can be modified on demand in order to meet your specific requirements.

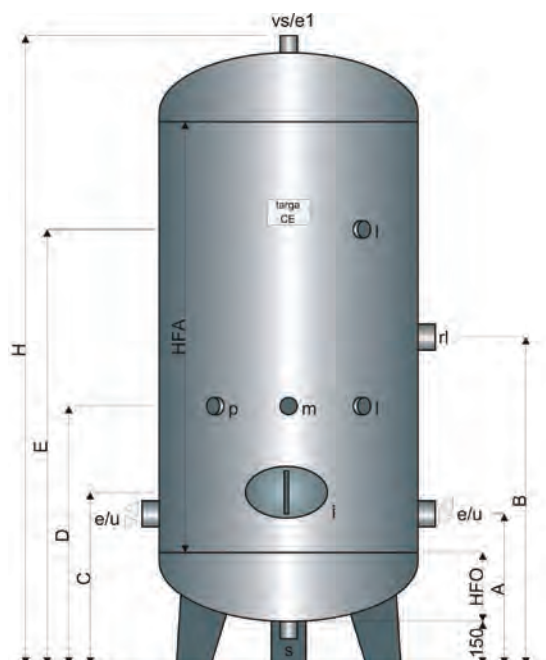
✓ Materials: carbon steel

✓ **Protective treatment:** hot dip galvanizing and external coating

✓ Operative conditions

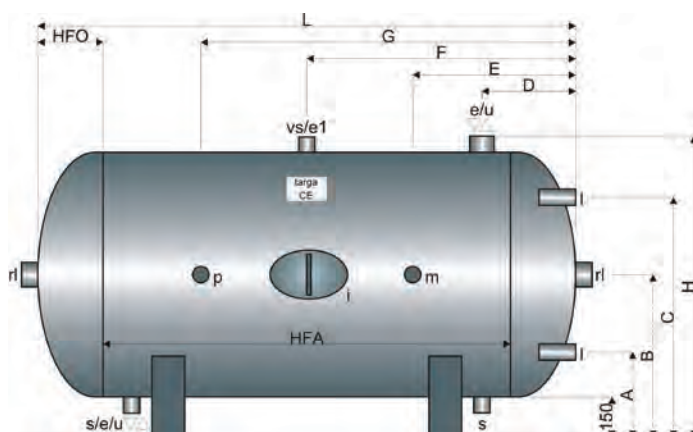
The storage tanks have a max pressure of 6,8 or 12 bar and operating temperatures fro 10 to 50°C.

To rapidly select the capacity of the autoclave and the flow of the pump in a residential setting (in function of the number of apartments), the following diagram should be consulted.



Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Inspection hole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
rl	Level regulator



P.E.D. tested autoclaves 6/8/12 bar

AC series

Vertical

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	H mm	peso kg	e/u (") inch	L/m/p (") inch	rl/vs/s/e1 (") inch	i mm
300	500	165	1250	415	940	465	715	1415	1760	75	1	1/2	1 1/4	*
500	650	200	1250	450	975	500	750	1450	1830	101	1 1/2	1/2	1 1/4	*
800	800	240	1250	490	1015	540	790	1490	1910	136	2	1/2	1 1/4	*
1000	800	240	1650	490	1215	540	990	1890	2310	162	2	1/2	1 1/4	*
1500	950	280	1750	530	1305	580	1030	2030	2490	232	2	1/2	1 1/4	*
2000	1100	310	1750	560	1335	610	1060	2060	2550	274	2	1/2	1 1/4	*/**
3000	1250	350	2000	620	1500	650	1200	2200	2880	466	2 1/2	1/2	1 1/4	*/**
4000	1400	390	2000	740	1540	690	1240	2240	2960	541	3	1/2	1 1/4	*/**/**
5000	1450	410	2500	760	1810	710	1360	2360	3500	646	3	1/2	1 1/4	*/**/**
6000	1450	410	3000	760	2060	710	1360	2860	4000	767	3	1/2	1 1/4	*/**/**
8000	1650	460	3000	830	2110	860	1410	2910	4100	1090	4	1/2	1 1/4	*/**/**
10000	1650	460	4000	830	2610	860	1610	3110	5100	1318	4	1/2	1 1/4	*/**/**
15000	2000	550	4000	920	2700	1000	1700	3200	5280	2016	4	1/2	1 1/4	300x400
20000	2000	550	5500	920	3450	1000	1700	3700	6780	2513	4	1/2	1 1/4	300x400

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	peso kg	e/u (") inch	L/m/p (") inch	rl/vs/s/e1 (") inch	i mm
300	500	165	1250	220	400	580	265	265	790	1315	680	1580	75	1	1/2	1 1/4	*
500	650	200	1250	250	475	700	300	300	825	1350	830	1650	101	1 1/2	1/2	1 1/4	*
800	800	240	1250	325	550	775	340	340	865	1390	980	1730	136	2	1/2	1 1/4	*
1000	800	240	1650	250	550	850	340	340	1065	1790	980	2130	162	2	1/2	1 1/4	*
1500	950	280	1750	295	625	955	380	380	1155	1930	1130	2310	232	2	1/2	1 1/4	*
2000	1100	310	1750	315	700	1085	410	410	1185	1960	1280	2370	274	2	1/2	1 1/4	*/**
3000	1250	350	2000	338	775	1213	470	470	1350	2230	1430	2700	466	2 1/2	1/2	1 1/4	*/**
4000	1400	390	2000	360	850	1340	590	590	1390	2190	1580	2780	541	3	1/2	1 1/4	*/**/**
5000	1450	410	2500	375	875	1375	610	610	1660	2710	1630	3320	646	3	1/2	1 1/4	*/**/**
6000	1450	410	3000	375	875	1375	610	610	1910	3210	1630	3820	767	3	1/2	1 1/4	*/**/**
8000	1650	460	3000	425	975	1525	680	680	1960	3240	1830	3920	1090	4	1/2	1 1/4	*/**/**
10000	1650	460	4000	425	975	1525	680	680	2460	4240	1830	4920	1318	4	1/2	1 1/4	*/**/**
15000	2000	550	4000	450	1150	1850	770	770	2550	4330	2180	5100	2016	4	1/2	1 1/4	300x400
20000	2000	550	5500	450	1150	1850	770	770	3300	5830	2180	6600	2513	4	1/2	1 1/4	300x400

Inspection hole on demand: * 100x150; ** 220x320; *** 300x400

Product code of P.E.D. tested varnished autoclaves 6/8 bar

PN 6 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010004X	VERN 500L PED 6BAR VERT		865010022X	VERN 500L PED 6BAR ORIZZ	
865010005X	VERN 800L PED 6BAR VERT		865010023X	VERN 800L PED 6BAR ORIZZ	
865010006X	VERN 1000L PED 6BAR VERT		865010024X	VERN 1000L PED 6BAR ORIZZ	
865010007X	VERN 1500L PED 6BAR VERT		865010025X	VERN 1500L PED 6BAR ORIZZ	
865010008X	VERN 2000L PED 6BAR VERT		865010026X	VERN 2000L PED 6BAR ORIZZ	
865010009X	VERN 3000L PED 6BAR VERT		865010027X	VERN 3000L PED 6BAR ORIZZ	
865010010X	VERN 3000B L PED 6BAR VERT		865010028X	VERN 3000B L PED 6BAR ORIZZ	
865010011X	VERN 4000L PED 6BAR VERT		865010029X	VERN 4000L PED 6BAR ORIZZ	
865010012X	VERN 5000L PED 6BAR VERT		865010030X	VERN 5000L PED 6BAR ORIZZ	
865010013X	VERN 5000B L PED 6BAR VERT		865010031X	VERN 5000B L PED 6BAR ORIZZ	
865010014X	VERN 6000L PED 6BAR VERT		865010032X	VERN 6000L PED 6BAR ORIZZ	
865010015X	VERN 8000L PED 6BAR VERT	◆	865010033X	VERN 8000L PED 6BAR ORIZZ	◆
865010016X	VERN 10000L PED 6BAR VERT	◆	865010034X	VERN 10000L PED 6BAR ORIZZ	◆
865010017X	VERN 15000L PED 6BAR VERT	◆	865010035X	VERN 15000L PED 6BAR ORIZZ	◆
865010018X	VERN 20000L PED 6BAR VERT	◆	865010036X	VERN 20000L PED 6BAR ORIZZ	◆

PN 8 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010040X	VERN 500L PED 8BAR VERT		865010058X	VERN 500L PED 8BAR ORIZZ	
865010041X	VERN 800L PED 8BAR VERT		865010059X	VERN 800L PED 8BAR ORIZZ	
865010042X	VERN 1000L PED 8BAR VERT		865010060X	VERN 1000L PED 8BAR ORIZZ	
865010043X	VERN 1500L PED 8BAR VERT		865010061X	VERN 1500L PED 8BAR ORIZZ	
865010044X	VERN 2000L PED 8BAR VERT		865010062X	VERN 2000L PED 8BAR ORIZZ	
865010045X	VERN 3000L PED 8BAR VERT		865010063X	VERN 3000L PED 8BAR ORIZZ	
865010046X	VERN 3000B L PED 8BAR VERT		865010064X	VERN 3000B L PED 8BAR ORIZZ	
865010047X	VERN 4000L PED 8BAR VERT		865010065X	VERN 4000L PED 8BAR ORIZZ	
865010048X	VERN 5000L PED 8BAR VERT		865010066X	VERN 5000L PED 8BAR ORIZZ	
865010049X	VERN 5000B L PED 8BAR VERT		865010067X	VERN 5000B L PED 8BAR ORIZZ	
865010050X	VERN 6000L PED 8BAR VERT		865010068X	VERN 6000L PED 8BAR ORIZZ	
865010051X	VERN 8000L PED 8BAR VERT	◆	865010069X	VERN 8000L PED 8BAR ORIZZ	◆
865010052X	VERN 10000L PED 8BAR VERT	◆	865010070X	VERN 10000L PED 8BAR ORIZZ	◆
865010053X	VERN 15000L PED 8BAR VERT	◆	865010071X	VERN 15000L PED 8BAR ORIZZ	◆
865010054X	VERN 20000L PED 8BAR VERT	◆	865010072X	VERN 20000L PED 8BAR ORIZZ	◆

◆ Request quotation

Product code of P.E.D. tested varnished autoclaves 12 bar

PN 12 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010073X	VERN 100L PED 12BAR VERT		865010091X	VERN 100L PED 12BAR ORIZZ	
865010074X	VERN 200L PED 12BAR VERT		865010092X	VERN 200L PED 12BAR ORIZZ	
865010075X	VERN 300L PED 12BAR VERT		865010093X	VERN 300L PED 12BAR ORIZZ	
865010076X	VERN 500L PED 12BAR VERT		865010094X	VERN 500L PED 12BAR ORIZZ	
865010077X	VERN 800L PED 12BAR VERT		865010095X	VERN 800L PED 12BAR ORIZZ	
865010078X	VERN 1000L PED 12BAR VERT		865010096X	VERN 1000L PED 12BAR ORIZZ	
865010079X	VERN 1500L PED 12BAR VERT		865010097X	VERN 1500L PED 12BAR ORIZZ	
865010080X	VERN 2000L PED 12BAR VERT		865010098X	VERN 2000L PED 12BAR ORIZZ	
865010081X	VERN 3000L PED 12BAR VERT		865010099X	VERN 3000L PED 12BAR ORIZZ	
865010082X	VERN 3000B L PED 12BAR VERT		865010100X	VERN 3000B L PED 12BAR ORIZZ	
865010083X	VERN 4000L PED 12BAR VERT		865010101X	VERN 4000L PED 12BAR ORIZZ	
865010084X	VERN 5000L PED 12BAR VERT		865010102X	VERN 5000L PED 12BAR ORIZZ	
865010085X	VERN 5000B L PED 12BAR VERT		865010103X	VERN 5000B L PED 12BAR ORIZZ	
865010086X	VERN 6000L PED 12BAR VERT		865010104X	VERN 6000L PED 12BAR ORIZZ	
865010087X	VERN 8000L PED 12BAR VERT	◆	865010105X	VERN 8000L PED 12BAR ORIZZ	◆
865010088X	VERN 10000L PED 12BAR VERT	◆	865010106X	VERN 10000L PED 12BAR ORIZZ	◆
865010089X	VERN 15000L PED 12BAR VERT	◆	865010107X	VERN 15000L PED 12BAR ORIZZ	◆
865010090X	VERN 20000L PED 12BAR VERT	◆	865010108X	VERN 20000L PED 12BAR ORIZZ	◆

◆ Request quotation

Product code of P.E.D. tested galvanized autoclaves 6/8 bar

PN 6 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020004X	ZN 500L PED 6BAR VERT		865020022X	ZN 500L PED 6BAR ORIZZ	
865020005X	ZN 800L PED 6BAR VERT		865020023X	ZN 800L PED 6BAR ORIZZ	
865020006X	ZN 1000L PED 6BAR VERT		865020024X	ZN 1000L PED 6BAR ORIZZ	
865020007X	ZN 1500L PED 6BAR VERT		865020025X	ZN 1500L PED 6BAR ORIZZ	
865020008X	ZN 2000L PED 6BAR VERT		865020026X	ZN 2000L PED 6BAR ORIZZ	
865020009X	ZN 3000L PED 6BAR VERT		865020027X	ZN 3000L PED 6BAR ORIZZ	
865020010X	ZN 3000B L PED 6BAR VERT		865020028X	ZN 3000B L PED 6BAR ORIZZ	
865020011X	ZN 4000L PED 6BAR VERT		865020029X	ZN 4000L PED 6BAR ORIZZ	
865020012X	ZN 5000L PED 6BAR VERT		865020030X	ZN 5000L PED 6BAR ORIZZ	
865020013X	ZN 5000B L PED 6BAR VERT		865020031X	ZN 5000B L PED 6BAR ORIZZ	
865020014X	ZN 6000L PED 6BAR VERT		865020032X	ZN 6000L PED 6BAR ORIZZ	
865020015X	ZN 8000L PED 6BAR VERT	◆	865020033X	ZN 8000L PED 6BAR ORIZZ	◆
865020016X	ZN 10000L PED 6BAR VERT	◆	865020034X	ZN 10000L PED 6BAR ORIZZ	◆
865020017X	ZN 15000L PED 6BAR VERT	◆	865020035X	ZN 15000L PED 6BAR ORIZZ	◆
865020018X	ZN 20000L PED 6BAR VERT	◆	865020036X	ZN 20000L PED 6BAR ORIZZ	◆

PN 8 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020040X	ZN 500L PED 8BAR VERT		865020058X	ZN 500L PED 8BAR ORIZZ	
865020041X	ZN 800L PED 8BAR VERT		865020059X	ZN 800L PED 8BAR ORIZZ	
865020042X	ZN 1000L PED 8BAR VERT		865020060X	ZN 1000L PED 8BAR ORIZZ	
865020043X	ZN 1500L PED 8BAR VERT		865020061X	ZN 1500L PED 8BAR ORIZZ	
865020044X	ZN 2000L PED 8BAR VERT		865020062X	ZN 2000L PED 8BAR ORIZZ	
865020045X	ZN 3000L PED 8BAR VERT		865020063X	ZN 3000L PED 8BAR ORIZZ	
865020046X	ZN 3000B L PED 8BAR VERT		865020064X	ZN 3000B L PED 8BAR ORIZZ	
865020047X	ZN 4000L PED 8BAR VERT		865020065X	ZN 4000L PED 8BAR ORIZZ	
865020048X	ZN 5000L PED 8BAR VERT		865020066X	ZN 5000L PED 8BAR ORIZZ	
865020049X	ZN 5000B L PED 8BAR VERT		865020067X	ZN 5000B L PED 8BAR ORIZZ	
865020050X	ZN 6000L PED 8BAR VERT		865020068X	ZN 6000L PED 8BAR ORIZZ	
865020051X	ZN 8000L PED 8BAR VERT	◆	865020069X	ZN 8000L PED 8BAR ORIZZ	◆
865020052X	ZN 10000L PED 8BAR VERT	◆	865020070X	ZN 10000L PED 8BAR ORIZZ	◆
865020053X	ZN 15000L PED 8BAR VERT	◆	865020071X	ZN 15000L PED 8BAR ORIZZ	◆
865020054X	ZN 20000L PED 8BAR VERT	◆	865020072X	ZN 20000L PED 8BAR ORIZZ	◆

◆ Request quotation

Product code of P.E.D. tested galvanized autoclaves 12 bar

PN 12 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020073X	ZN 100L PED 12BAR VERT		865020091X	ZN 100L PED 12BAR ORIZZ	
865020074X	ZN 200L PED 12BAR VERT		865020092X	ZN 200L PED 12BAR ORIZZ	
865020075X	ZN 300L PED 12BAR VERT		865020093X	ZN 300L PED 12BAR ORIZZ	
865020076X	ZN 500L PED 12BAR VERT		865020094X	ZN 500L PED 12BAR ORIZZ	
865020077X	ZN 800L PED 12BAR VERT		865020095X	ZN 800L PED 12BAR ORIZZ	
865020078X	ZN 1000L PED 12BAR VERT		865020096X	ZN 1000L PED 12BAR ORIZZ	
865020079X	ZN 1500L PED 12BAR VERT		865020097X	ZN 1500L PED 12BAR ORIZZ	
865020080X	ZN 2000L PED 12BAR VERT		865020098X	ZN 2000L PED 12BAR ORIZZ	
865020081X	ZN 3000L PED 12BAR VERT		865020099X	ZN 3000L PED 12BAR ORIZZ	
865020082X	ZN 3000B L PED 12BAR VERT		865020100X	ZN 3000B L PED 12BAR ORIZZ	
865020083X	ZN 4000L PED 12BAR VERT		865020101X	ZN 4000L PED 12BAR ORIZZ	
865020084X	ZN 5000L PED 12BAR VERT		865020102X	ZN 5000L PED 12BAR ORIZZ	
865020085X	ZN 5000B L PED 12BAR VERT		865020103X	ZN 5000B L PED 12BAR ORIZZ	
865020086X	ZN 6000L PED 12BAR VERT		865020104X	ZN 6000L PED 12BAR ORIZZ	
865020087X	ZN 8000L PED 12BAR VERT	◆	865020105X	ZN 8000L PED 12BAR ORIZZ	◆
865020088X	ZN 10000L PED 12BAR VERT	◆	865020106X	ZN 10000L PED 12BAR ORIZZ	◆
865020089X	ZN 15000L PED 12BAR VERT	◆	865020107X	ZN 15000L PED 12BAR ORIZZ	◆
865020090X	ZN 20000L PED 12BAR VERT	◆	865020108X	ZN 20000L PED 12BAR ORIZZ	◆

◆ Request quotation

P.E.D. tested pressurized autoclaves 16 bar HP series

The "HP" series consists of pressurized autoclaves, used in industrial installations to maintain constant pressure or to absorb water hammering.

The HP gamma is different from the AC series because of the max operating pressure which is higher in the HP series. The models, with CE label, are available in several capacities in function of the max operating pressure:

16 bar version: 100 up to 10.000 litres
 18 bar version 100 up to 5.000 litres
 20 bar version: 4.000 up to 10.000 litres
 25 bar version: 100 up to 9.500 litres
 30 bar version: 800 up to 6.000 litres
 35 bar version: 100 up to 3.000 litres
 64 bar version: 100 up to 1.000 litres

✓ Special versions

The HP storage tanks can be modified on demand in order to meet your specific requirements.

✓ **Material:** carbon steel

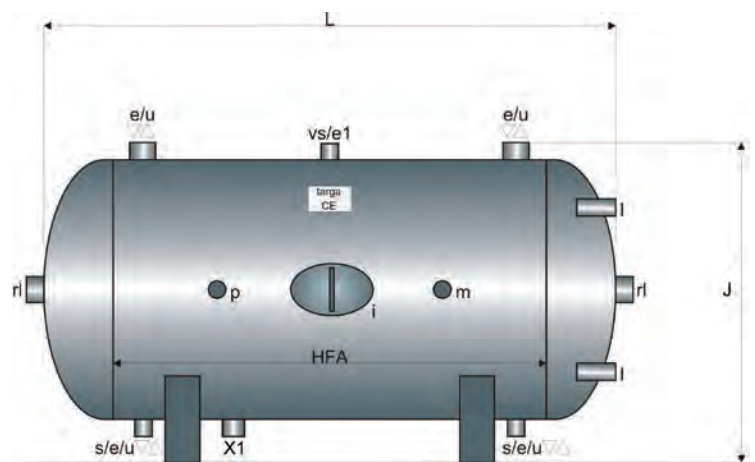
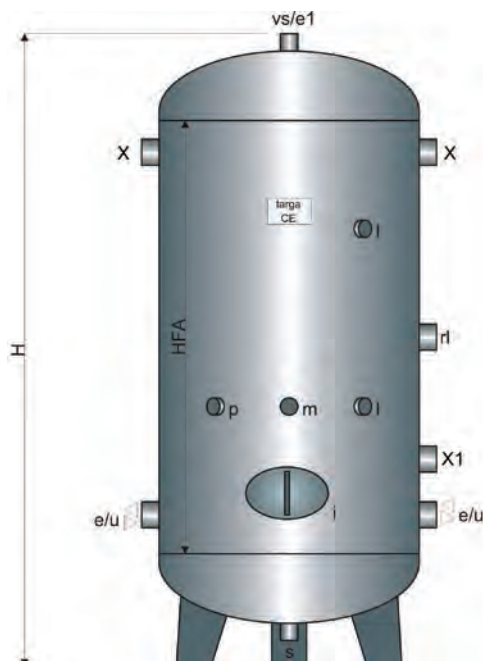
✓ **Protective treatment:** hot dip galvanizing and external coating

✓ **Operative conditions**

The storage tanks have a max pressure of 16, 18, 25, 30, 35, 64 bar and operating temperatures from -10 to 50°C.

Coupling

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
rl	level regulator
X	auxiliary of 1000 l
X1	auxiliary of 4000 l



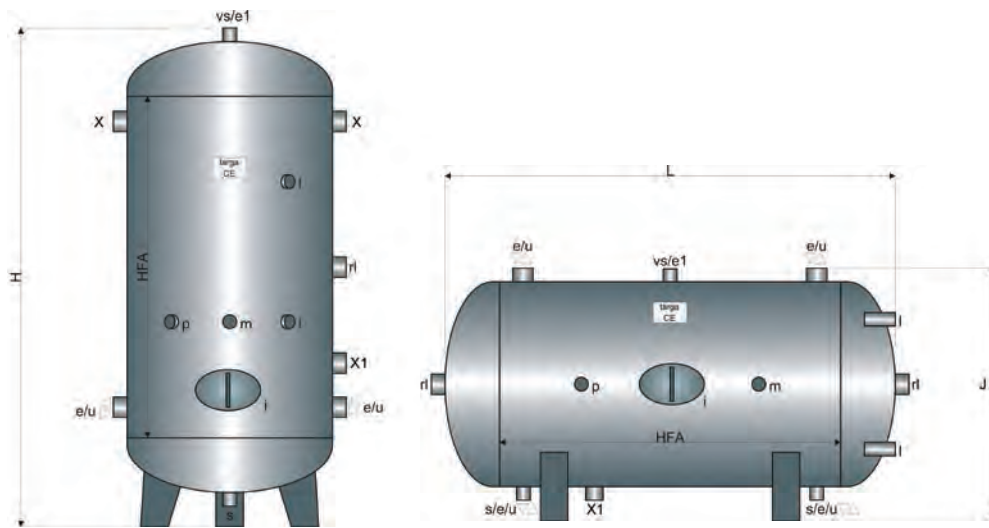
P.E.D. tested pressurized autoclaves 16 bar HP series

Capacity l	Ø mm	H mm	L mm	J mm	e/u/x/x1 inch	L/m/p inch	rl/vs/s/e1 inch	i mm	weight mm
100	350	1420	1240	530	1	1/2	1 1/4	*	43
200	450	1480	1300	630	1	1/2	1 1/4	*	62
300	500	1760	1580	680	1	1/2	1 1/4	*	99
500	650	1830	1650	830	1 1/2	1/2	1 1/4	*	144
800	800	1910	1730	980	2	1/2	1 1/4	*	232
1000	800	2360	2180	980	2	1/2	1 1/4	*	281
1500	950	2490	2310	1130	2	1/2	1 1/4	*	365
2000	1000	2800	2620	1180	2	1/2	1 1/4	*	481
2000 B	1100	2590	2410	1280	2	1/2	1 1/4	*	485
2500	1250	2400	2220	1430	2	1/2	1 1/4	*	568
3000	1250	2900	2720	1430	2 1/2	1/2	1 1/4	*	670
3500	1400	2800	2620	1580	3	1/2	1 1/4	***	820
4000	1400	3000	2820	1580	3	1/2	1 1/4	**/**	898
5000	1450	3530	3350	1630	3	1/2	1 1/4	**/**	1080
7000	1650	3620	3440	1830	3	1/2	1 1/4	**/**	1556
8000	1650	4120	3940	1830	4	1/2	1 1/4	**/**	1741
10000	1650	5120	4940	1830	4	1/2	1 1/4	**/**	2106

Inspection holes on demand *100x150mm **220x320, ***300x400

Weight and measurements are indicative and can be subject to changes

P.E.D. tested 18 bar pressurized autoclaves HP series



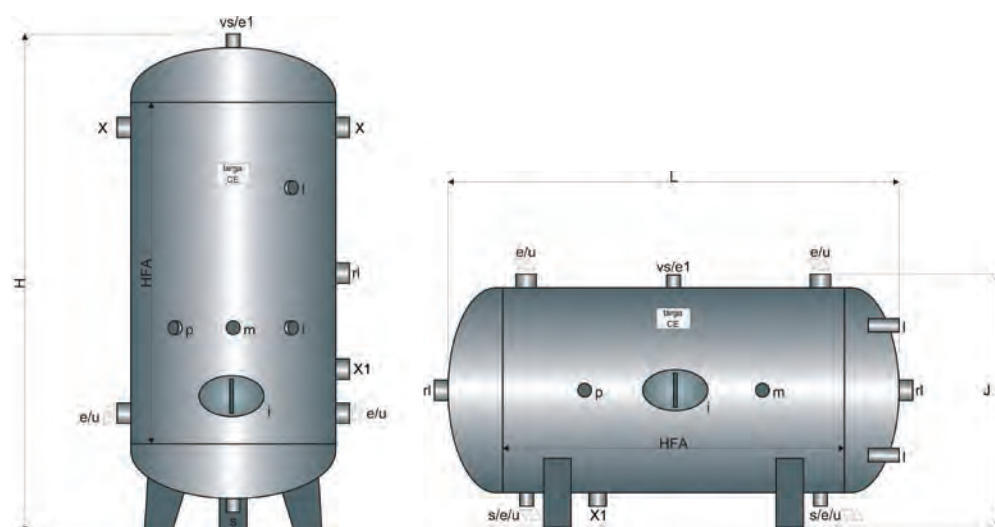
Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
rl	level regulator
X	auxiliary of 1000 l
X1	auxiliary of 4000 l

Capacity l	Ø mm	H mm	L mm	J mm	e/u/x/x1 inch	L/m/p inch	rl/vs/s/e1 inch	i mm	weight mm
100	350	1420	1240	530	1	1/2	1 1/4	*	82
200	450	1480	1300	630	1	1/2	1 1/4	*	110
300	500	1760	1580	680	1	1/2	1 1/4	*	146
500	650	1830	1650	830	1 1/2	1/2	1 1/4	*	199
800	800	1910	1730	980	2	1/2	1 1/4	*	259
1000	800	2360	2180	980	2	1/2	1 1/4	*	319
1500	950	2490	2310	1130	2	1/2	1 1/4	*	408
2000	1100	2590	2410	1280	2	1/2	1 1/4	*	516
2500	1250	2400	2220	1430	2	1/2	1 1/4	*	653
3000	1250	2900	2720	1430	2 1/2	1/2	1 1/4	*	772
4000	1400	3000	2820	1580	3	1/2	1 1/4	*	1067
5000	1450	3530	3350	1630	3	1/2	1 1/4	*	1279

Inspection holes on demand *100x150m **220x320, ***300x400
Weight and measurements are indicative and can be subject to changes

P.E.D. tested 20 bar pressurized autoclaves HP series



Couplings

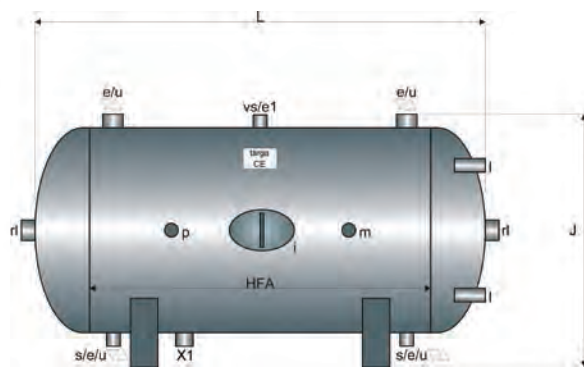
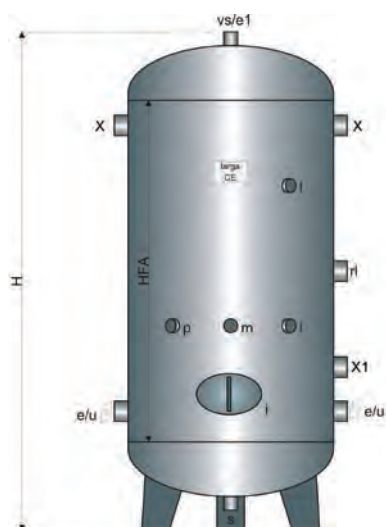
s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
rl	level regulator
X	auxiliary of 1000 l
X1	auxiliary of 4000 l

Capacity l	Ø mm	H mm	L mm	J mm	e/u/x/x1 inch	L/m/p inch	rl/vs/s/e1 inch	i mm	weight mm
4000	1400	3000	2820	1580	3	1/2	1 1/4	*	1222
5000	1450	3520	3340	1630	3	1/2	1 1/4	*	1479
6000	1600	3400	3220	1780	3	1/2	1 1/4	*	1628
7000	1650	3640	3460	1830	4	1/2	1 1/4	*	1902
8000	1650	4140	3960	1830	4	1/2	1 1/4	*	2130
9000	1600	5100	4920	1780	4	1/2	1 1/4	*	2382
10000	1650	5140	4960	1830	4	1/2	1 1/4	*	2586

Inspection holes on demand *100x150mm **220x320, ***300x400

Weight and measurements are indicative and can be subject to changes

P.E.D. tested 25 bar pressurized autoclaves HP series



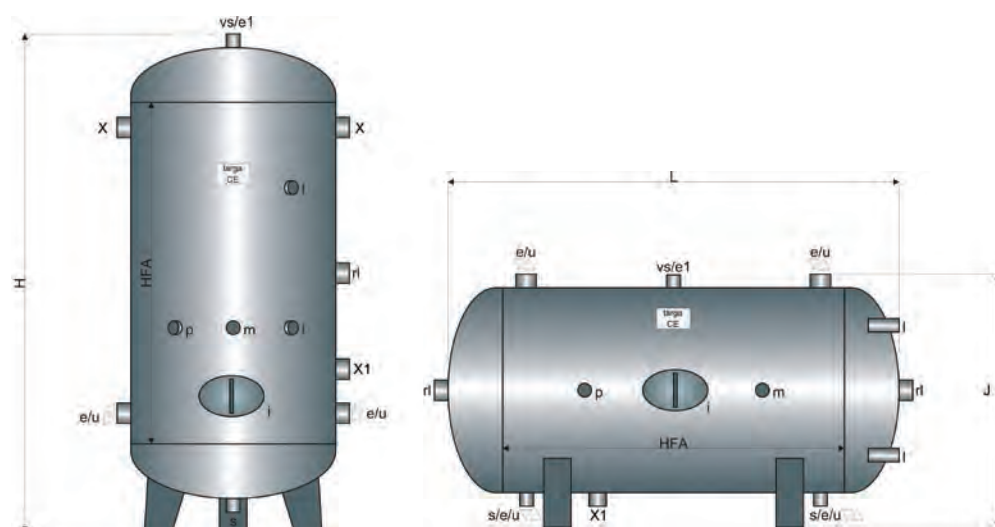
Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
rl	level regulator
X	auxiliary of 1000 l
X1	auxiliary of 4000 l

Capacity l	Ø mm	H mm	L mm	J mm	e/u/x/x1 inch	L/m/p inch	rl/vs/s/e1 inch	i mm	weight mm
100	350	1420	1240	530	1	1/2	1 1/4	n.d.	83
200	450	1480	1300	630	1	1/2	1 1/4	n.d.	111
300	500	1760	1580	680	1	1/2	1 1/4	n.d.	146
500	650	1830	1650	830	1 1/2	1/2	1 1/4	n.d.	200
800	800	1910	1730	980	2	1/2	1 1/4	n.d.	272
1000	800	2360	2180	980	2	1/2	1 1/4	n.d.	332
1500	950	2490	2310	1130	2	1/2	1 1/4	***	544
2000	1000	2800	2620	1180	2	1/2	1 1/4	**/**	638
2000 B	1100	2590	2410	1280	2	1/2	1 1/4	**/**	813
2500	1250	2422	2242	1430	2	1/2	1 1/4	**/**	882
3000	1250	2922	2742	1430	2 1/2	1/2	1 1/4	**/**	1054
3000 B	1400	2510	2330	1580	2 1/2	1/2	1 1/4	**/**	1238
4000	1400	3010	2830	1580	3	1/2	1 1/4	**/**	1471
5000	1450	3540	3360	1630	3	1/2	1 1/4	**/**	1780
5000 B	1650	2860	2680	1830	3	1/2	1 1/4	**/**	1934
6000	1450	4040	3860	1630	3	1/2	1 1/4	**/**	2061
6000 B	1650	3160	2980	1830	3	1/2	1 1/4	**/**	2166
8000	1650	4160	3980	1830	4	1/2	1 1/4	**/**	2806
9500	1650	4660	4480	1830	4	1/2	1 1/4	**/**	3125

Inspection holes on demand *100x150mm **220x320, ***300x400
Weight and measurements are indicative and can be subject to changes

P.E.D. tested 30 bar pressurized autoclaves HP series



Couplings

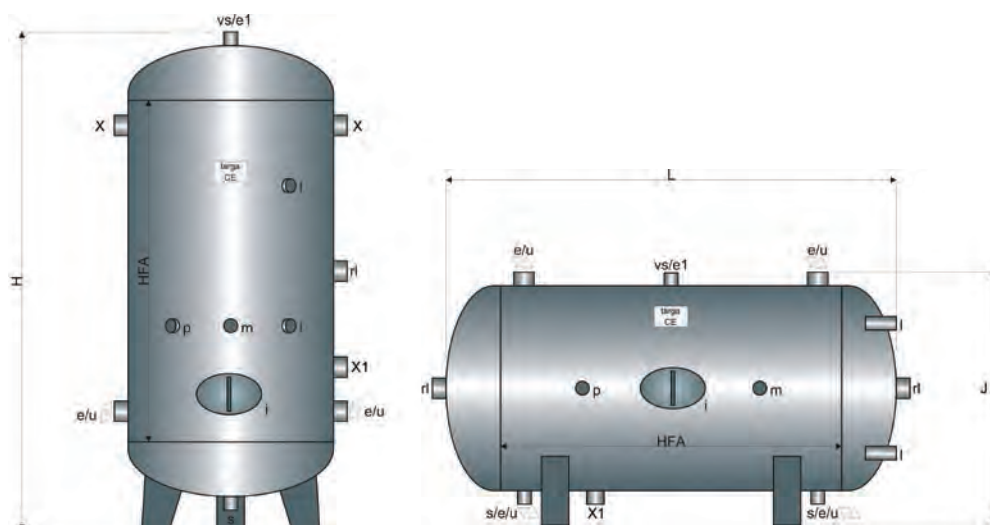
s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
rl	level regulator
X	auxiliary of 1000 l
X1	auxiliary of 4000 l

Capacity l	Ø mm	H mm	L mm	J mm	e/u/x/x1 inch	L/m/p inch	rl/vs/s/e1 inch	i mm	weight mm
800	800	1930	1750	980	2	1/2	1 1/4	*	427
1000	800	2380	2200	980	2	1/2	1 1/4	*	527
1500	900	2750	2310	1130	2	1/2	1 1/4	*	695
2000	1100	2610	2430	1280	2	1/2	1 1/4	*	813
3000	1100	3360	3180	1280	2 1/2	1/2	1 1/4	*	1050
5000	1450	3560	3380	1630	3	1/2	1 1/4	*	2073
6000	1450	4060	3880	1630	3	1/2	1 1/4	*	2393

Inspection holes on demand *100x150mm **220x320, ***300x400

Weight and measurements are indicative and can be subject to changes

P.E.D. tested 35 bar pressurized autoclaves HP series



Couplings

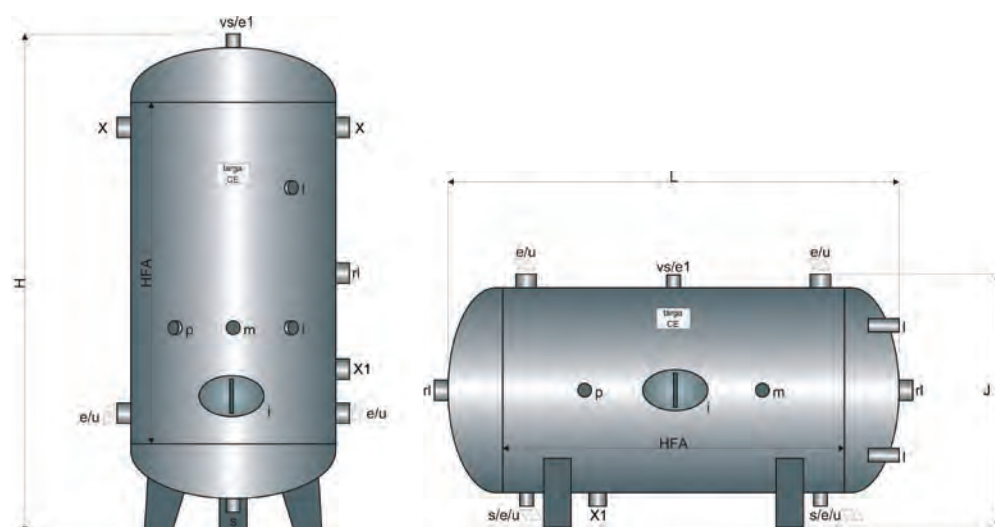
s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
rl	level regulator
X	auxiliary of 1000 l

Capacity l	Ø mm	H mm	L mm	J mm	e/u/x/x1 inch	L/m/p inch	rl/vs/s/e1 inch	i mm	weight mm
100	350	1420	1240	530	1	1/2	1 1/4	*	81
200	450	1480	1300	630	1	1/2	1 1/4	*	109
300	500	1760	1580	680	1	1/2	1 1/4	*	144
500	650	1840	1660	830	1 1/2	1/2	1 1/4	*	229
800	800	1930	1750	980	2	1/2	1 1/4	*	427
1000	800	2380	2200	980	2	1/2	1 1/4	*	527
1500	950	2520	2340	1130	2	1/2	1 1/4	*	676
2000	1000	2810	2630	1180	2	1/2	1 1/4	*	954
2000 B	1100	2630	2450	1280	2	1/2	1 1/4	*	982
2500	1250	2460	2280	1430	2	1/2	1 1/4	*	1238
3000	1250	2960	2780	1430	2 1/2	1/2	1 1/4	*	1476

Inspection holes on demand *100x150mm **220x320, ***300x400

Weight and measurements are indicative and can be subject to changes

P.E.D. tested 64 bar pressurized autoclaves HP series



Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
rl	level regulator
X	auxiliary of 1000 l

Capacity l	Ø mm	H mm	L mm	J mm	e/u/x/x1 inch	L/m/p inch	rl/vs/s/e1 inch	i mm	weight mm
100	350	1440	1260	530	1	1/2	1 1/4	*	94
200	450	1510	1330	630	1	1/2	1 1/4	*	178
300	500	1794	1614	680	1	1/2	1 1/4	*	237
500	650	1890	1710	830	1 1/2	1/2	1 1/4	*	389
800	750	2220	2040	930	2	1/2	1 1/4	*	620
1000	750	2720	2540	930	2	1/2	1 1/4	*	765

Inspection holes on demand *100x150mm **220x320, ***300x400
Weight and measurements are indicative and can be subject to changes

Product codes of P.E.D. tested 16/18/20 bar varnished autoclaves

PN 16 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010109X	H.P. VERN 100L PED 16BAR VERT		865010132X	H.P. VERN 100L PED 16BAR ORIZZ	
865010110X	H.P. VERN 200L PED 16BAR VERT		865010133X	H.P. VERN 200L PED 16BAR ORIZZ	
865010111X	H.P. VERN 300L PED 16BAR VERT		865010134X	H.P. VERN 300L PED 16BAR ORIZZ	
865010112X	H.P. VERN 500L PED 16BAR VERT		865010135X	H.P. VERN 500L PED 16BAR ORIZZ	
865010113X	H.P. VERN 800L PED 16BAR VERT		865010136X	H.P. VERN 800L PED 16BAR ORIZZ	
865010114X	H.P. VERN 1000L PED 16BAR VERT		865010137X	H.P. VERN 1000L PED 16BAR ORIZZ	
865010115X	H.P. VERN 1500L PED 16BAR VERT		865010138X	H.P. VERN 1500L PED 16BAR ORIZZ	
865010116X	H.P. VERN 2000L PED 16BAR VERT		865010139X	H.P. VERN 2000L PED 16BAR ORIZZ	
865010117X	H.P. VERN 2000B L PED 16BAR VERT		865010140X	H.P. VERN 2000B L PED 16BAR ORIZZ	
865010118X	H.P. VERN 2500L PED 16BAR VERT		865010141X	H.P. VERN 2500L PED 16BAR ORIZZ	
865010119X	H.P. VERN 3000L PED 16BAR VERT		865010142X	H.P. VERN 3000L PED 16BAR ORIZZ	
865010121X	H.P. VERN 3500L PED 16BAR VERT		865010144X	H.P. VERN 3500L PED 16BAR ORIZZ	
865010122X	H.P. VERN 4000L PED 16BAR VERT		865010145X	H.P. VERN 4000L PED 16BAR ORIZZ	
865010123X	H.P. VERN 5000L PED 16BAR VERT		865010146X	H.P. VERN 5000L PED 16BAR ORIZZ	◆
865010127X	H.P. VERN 7000L PED 16BAR VERT	◆	865010150X	H.P. VERN 7000L PED 16BAR ORIZZ	◆
865010128X	H.P. VERN 8000L PED 16BAR VERT	◆	865010151X	H.P. VERN 8000L PED 16BAR ORIZZ	◆
865010131X	H.P. VERN 10000L PED 16BAR VERT	◆	865010154X	H.P. VERN 10000L PED 16BAR ORIZZ	◆

PN 18 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010155X	H.P. VERN 100L PED 18BAR VERT		865010170X	H.P. VERN 100L PED 18BAR ORIZZ	
865010156X	H.P. VERN 200L PED 18BAR VERT		865010171X	H.P. VERN 200L PED 18BAR ORIZZ	
865010157X	H.P. VERN 300L PED 18BAR VERT		865010172X	H.P. VERN 300L PED 18BAR ORIZZ	
865010158X	H.P. VERN 500L PED 18BAR VERT		865010173X	H.P. VERN 500L PED 18BAR ORIZZ	
865010159X	H.P. VERN 800L PED 18BAR VERT		865010174X	H.P. VERN 800L PED 18BAR ORIZZ	
865010160X	H.P. VERN 1000L PED 18BAR VERT		865010175X	H.P. VERN 1000L PED 18BAR ORIZZ	
865010161X	H.P. VERN 1500L PED 18BAR VERT		865010176X	H.P. VERN 1500L PED 18BAR ORIZZ	
865010162X	H.P. VERN 2000L PED 18BAR VERT		865010177X	H.P. VERN 2000L PED 18BAR ORIZZ	
865010164X	H.P. VERN 2500L PED 18BAR VERT		865010179X	H.P. VERN 2500L PED 18BAR ORIZZ	
865010165X	H.P. VERN 3000L PED 18BAR VERT		865010180X	H.P. VERN 3000L PED 18BAR ORIZZ	
865010168X	H.P. VERN 4000L PED 18BAR VERT		865010183X	H.P. VERN 4000L PED 18BAR ORIZZ	
865010169X	H.P. VERN 5000L PED 18BAR VERT		865010184X	H.P. VERN 5000L PED 18BAR ORIZZ	

PN 20 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010198X	H.P. VERN 4000L PED 20BAR VERT		865010221X	H.P. VERN 4000L PED 20BAR ORIZZ	
865010199X	H.P. VERN 5000L PED 20BAR VERT		865010222X	H.P. VERN 5000L PED 20BAR ORIZZ	
865010201X	H.P. VERN 6000L PED 20BAR VERT		865010224X	H.P. VERN 6000L PED 20BAR ORIZZ	◆
865010203X	H.P. VERN 7000L PED 20BAR VERT	◆	865010226X	H.P. VERN 7000L PED 20BAR ORIZZ	
865010204X	H.P. VERN 8000L PED 20BAR VERT	◆	865010227X	H.P. VERN 8000L PED 20BAR ORIZZ	◆
865010205X	H.P. VERN 9000L PED 20BAR VERT	◆	865010228X	H.P. VERN 9000L PED 20BAR ORIZZ	◆
865010207X	H.P. VERN 10000L PED 20BAR VERT	◆	865010230X	H.P. VERN 10000L PED 20BAR ORIZZ	◆

◆ Request quotation

Product codes of P.E.D. tested 25/30 bar varnished autoclaves

PN 25 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010231X	H.P. VERN 100L PED 25BAR VERT		865010254X	H.P. VERN 100L PED 25BAR ORIZZ	◆
865010232X	H.P. VERN 200L PED 25BAR VERT		865010255X	H.P. VERN 200L PED 25BAR ORIZZ	◆
865010233X	H.P. VERN 300L PED 25BAR VERT		865010256X	H.P. VERN 300L PED 25BAR ORIZZ	
865010234X	H.P. VERN 500L PED 25BAR VERT		865010257X	H.P. VERN 500L PED 25BAR ORIZZ	
865010235X	H.P. VERN 800L PED 25BAR VERT		865010258X	H.P. VERN 800L PED 25BAR ORIZZ	
865010236X	H.P. VERN 1000L PED 25BAR VERT		865010259X	H.P. VERN 1000L PED 25BAR ORIZZ	
865010237X	H.P. VERN 1500L PED 25BAR VERT		865010260X	H.P. VERN 1500L PED 25BAR ORIZZ	
865010238X	H.P. VERN 2000L PED 25BAR VERT		865010261X	H.P. VERN 2000L PED 25BAR ORIZZ	
865010239X	H.P. VERN 2000B L PED 25BAR VERT		865010262X	H.P. VERN 2000B L PED 25BAR ORIZZ	
865010240X	H.P. VERN 2500L PED 25BAR VERT		865010263X	H.P. VERN 2500L PED 25BAR ORIZZ	
865010241X	H.P. VERN 3000L PED 25BAR VERT		865010264X	H.P. VERN 3000L PED 25BAR ORIZZ	
865010242X	H.P. VERN 3000B L PED 25BAR VERT	◆	865010265X	H.P. VERN 3000B L PED 25BAR ORIZZ	
865010244X	H.P. VERN 4000L PED 25BAR VERT	◆	865010267X	H.P. VERN 4000L PED 25BAR ORIZZ	
865010245X	H.P. VERN 5000L PED 25BAR VERT	◆	865010268X	H.P. VERN 5000L PED 25BAR ORIZZ	◆
865010246X	H.P. VERN 5000B L PED 25BAR VERT	◆	865010269X	H.P. VERN 5000B L PED 25BAR ORIZZ	◆
865010247X	H.P. VERN 6000L PED 25BAR VERT	◆	865010270X	H.P. VERN 6000L PED 25BAR ORIZZ	◆
865010248X	H.P. VERN 6000B L PED 25BAR VERT	◆	865010271X	H.P. VERN 6000B L PED 25BAR ORIZZ	◆
865010250X	H.P. VERN 8000L PED 25BAR VERT	◆	865010273X	H.P. VERN 8000L PED 25BAR ORIZZ	◆
865010252X	H.P. VERN 9500L PED 25BAR VERT	◆	865010285X	H.P. VERN 9500L PED 25BAR ORIZZ	◆

PN 30 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010281X	H.P. VERN 800L PED 30BAR VERT		865010295X	H.P. VERN 800L PED 30BAR ORIZZ	◆
865010282X	H.P. VERN 1000L PED 30BAR VERT		865010296X	H.P. VERN 1000L PED 30BAR ORIZZ	◆
865010283X	H.P. VERN 1500L PED 30BAR VERT		865010297X	H.P. VERN 1500L PED 30BAR ORIZZ	
865010284X	H.P. VERN 2000L PED 30BAR VERT		865010298X	H.P. VERN 2000L PED 30BAR ORIZZ	
865010287X	H.P. VERN 3000L PED 30BAR VERT		865010301X	H.P. VERN 3000L PED 30BAR ORIZZ	
865010289X	H.P. VERN 5000L PED 30BAR VERT	◆	865010303X	H.P. VERN 5000L PED 30BAR ORIZZ	
865010290X	H.P. VERN 6000L PED 30BAR VERT	◆	865010304X	H.P. VERN 6000L PED 30BAR ORIZZ	

◆ Request quotation

Product codes of P.E.D. tested 35/64 bar varnished autoclaves

PN 35 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010305X	H.P. VERN 100L PED 35BAR VERT		865010316X	H.P. VERN 100L PED 35BAR ORIZZ	◆
865010306X	H.P. VERN 200L PED 35BAR VERT		865010317X	H.P. VERN 200L PED 35BAR ORIZZ	◆
865010307X	H.P. VERN 300L PED 35BAR VERT		865010318X	H.P. VERN 300L PED 35BAR ORIZZ	
865010308X	H.P. VERN 500L PED 35BAR VERT		865010319X	H.P. VERN 500L PED 35BAR ORIZZ	
865010309X	H.P. VERN 800L PED 35BAR VERT		865010320X	H.P. VERN 800L PED 35BAR ORIZZ	
865010310X	H.P. VERN 1000L PED 35BAR VERT		865010321X	H.P. VERN 1000L PED 35BAR ORIZZ	
865010311X	H.P. VERN 1500L PED 35BAR VERT		865010322X	H.P. VERN 1500L PED 35BAR ORIZZ	
865010312X	H.P. VERN 2000L PED 35BAR VERT	◆	865010323X	H.P. VERN 2000L PED 35BAR ORIZZ	
865010313X	H.P. VERN 2000B L PED 35BAR VERT	◆	865010324X	H.P. VERN 2000B L PED 35BAR ORIZZ	
865010314X	H.P. VERN 2500L PED 35BAR VERT	◆	865010325X	H.P. VERN 2500L PED 35BAR ORIZZ	◆
865010315X	H.P. VERN 3000L PED 35BAR VERT	◆	865010326X	H.P. VERN 3000L PED 35BAR ORIZZ	◆

PN 64 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865010327X	H.P. VERN 100L PED 64BAR VERT	◆	865010333X	H.P. VERN 100L PED 64BAR ORIZZ	◆
865010328X	H.P. VERN 200L PED 64BAR VERT	◆	865010334X	H.P. VERN 200L PED 64BAR ORIZZ	◆
865010329X	H.P. VERN 300L PED 64BAR VERT	◆	865010325X	H.P. VERN 300L PED 64BAR ORIZZ	◆
865010330X	H.P. VERN 500L PED 64BAR VERT	◆	865010336X	H.P. VERN 500L PED 64BAR ORIZZ	◆
865010331X	H.P. VERN 800L PED 64BAR VERT	◆	865010337X	H.P. VERN 800L PED 64BAR ORIZZ	◆
865010332X	H.P. VERN 1000L PED 64BAR VERT	◆	865010338X	H.P. VERN 1000L PED 64BAR ORIZZ	◆

◆ Request quotation

Product codes of P.E.D. tested 16/18/20 bar galvanized autoclaves

PN 16 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020109X	H.P. ZN 100L PED 16BAR VERT		865020132X	H.P. ZN 100L PED 16BAR ORIZZ	
865020110X	H.P. ZN 200L PED 16BAR VERT		865020133X	H.P. ZN 200L PED 16BAR ORIZZ	
865020111X	H.P. ZN 300L PED 16BAR VERT		865020134X	H.P. ZN 300L PED 16BAR ORIZZ	
865020112X	H.P. ZN 500L PED 16BAR VERT		865020135X	H.P. ZN 500L PED 16BAR ORIZZ	
865020113X	H.P. ZN 800L PED 16BAR VERT		865020136X	H.P. ZN 800L PED 16BAR ORIZZ	
865020114X	H.P. ZN 1000L PED 16BAR VERT		865020137X	H.P. ZN 1000L PED 16BAR ORIZZ	
865020115X	H.P. ZN 1500L PED 16BAR VERT		865020138X	H.P. ZN 1500L PED 16BAR ORIZZ	
865020116X	H.P. ZN 2000L PED 16BAR VERT		865020139X	H.P. ZN 2000L PED 16BAR ORIZZ	
865020117X	H.P. ZN 2000B L PED 16BAR VERT		865020140X	H.P. ZN 2000B L PED 16BAR ORIZZ	
865020118X	H.P. ZN 2500L PED 16BAR VERT		865020141X	H.P. ZN 2500L PED 16BAR ORIZZ	
865020119X	H.P. ZN 3000L PED 16BAR VERT		865020142X	H.P. ZN 3000L PED 16BAR ORIZZ	
865020121X	H.P. ZN 3500L PED 16BAR VERT		865020144X	H.P. ZN 3500L PED 16BAR ORIZZ	
865020122X	H.P. ZN 4000L PED 16BAR VERT		865020145X	H.P. ZN 4000L PED 16BAR ORIZZ	
865020123X	H.P. ZN 5000L PED 16BAR VERT		865020146X	H.P. ZN 5000L PED 16BAR ORIZZ	
865020127X	H.P. ZN 7000L PED 16BAR VERT	◆	865020150X	H.P. ZN 7000L PED 16BAR ORIZZ	◆
865020128X	H.P. ZN 8000L PED 16BAR VERT	◆	865020151X	H.P. ZN 8000L PED 16BAR ORIZZ	◆
865020131X	H.P. ZN 10000L PED 16BAR VERT	◆	865020154X	H.P. ZN 10000L PED 16BAR ORIZZ	◆

PN 18 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020155X	H.P. ZN 100L PED 18BAR VERT		865020170X	H.P. ZN 100L PED 18BAR ORIZZ	
865020156X	H.P. ZN 200L PED 18BAR VERT		865020171X	H.P. ZN 200L PED 18BAR ORIZZ	
865020157X	H.P. ZN 300L PED 18BAR VERT		865020172X	H.P. ZN 300L PED 18BAR ORIZZ	
865020158X	H.P. ZN 500L PED 18BAR VERT		865020173X	H.P. ZN 500L PED 18BAR ORIZZ	
865020159X	H.P. ZN 800L PED 18BAR VERT		865020174X	H.P. ZN 800L PED 18BAR ORIZZ	
865020160X	H.P. ZN 1000L PED 18BAR VERT		865020175X	H.P. ZN 1000L PED 18BAR ORIZZ	
865020161X	H.P. ZN 1500L PED 18BAR VERT		865020176X	H.P. ZN 1500L PED 18BAR ORIZZ	
865020162X	H.P. ZN 2000L PED 18BAR VERT		865020177X	H.P. ZN 2000L PED 18BAR ORIZZ	
865020164X	H.P. ZN 2500L PED 18BAR VERT		865020179X	H.P. ZN 2500L PED 18BAR ORIZZ	
865020165X	H.P. ZN 3000L PED 18BAR VERT		865020180X	H.P. ZN 3000L PED 18BAR ORIZZ	
865020168X	H.P. ZN 4000L PED 18BAR VERT		865020183X	H.P. ZN 4000L PED 18BAR ORIZZ	
865020169X	H.P. ZN 5000L PED 18BAR VERT		865020184X	H.P. ZN 5000L PED 18BAR ORIZZ	

PN 20 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020198X	H.P. ZN 4000L PED 20BAR VERT		865020221X	H.P. ZN 4000L PED 20BAR ORIZZ	
865020199X	H.P. ZN 5000L PED 20BAR VERT		865020222X	H.P. ZN 5000L PED 20BAR ORIZZ	
865020201X	H.P. ZN 6000L PED 20BAR VERT		865020224X	H.P. ZN 6000L PED 20BAR ORIZZ	
865020203X	H.P. ZN 7000L PED 20BAR VERT	◆	865020226X	H.P. ZN 7000L PED 20BAR ORIZZ	◆
865020204X	H.P. ZN 8000L PED 20BAR VERT	◆	865020227X	H.P. ZN 8000L PED 20BAR ORIZZ	◆
865020205X	H.P. ZN 9000L PED 20BAR VERT	◆	865020228X	H.P. ZN 9000L PED 20BAR ORIZZ	◆
865020207X	H.P. ZN 10000L PED 20BAR VERT	◆	865020230X	H.P. ZN 10000L PED 20BAR ORIZZ	◆

◆ Request quotation

Product codes of P.E.D. tested 25/30 bar galvanized autoclaves

PN 25 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020231X	H.P. ZN 100L PED 25BAR VERT		865020254X	H.P. ZN 100L PED 25BAR ORIZZ	
865020232X	H.P. ZN 200L PED 25BAR VERT		865020255X	H.P. ZN 200L PED 25BAR ORIZZ	
865020233X	H.P. ZN 300L PED 25BAR VERT		865020256X	H.P. ZN 300L PED 25BAR ORIZZ	
865020234X	H.P. ZN 500L PED 25BAR VERT		865020257X	H.P. ZN 500L PED 25BAR ORIZZ	
865020235X	H.P. ZN 800L PED 25BAR VERT		865020258X	H.P. ZN 800L PED 25BAR ORIZZ	
865020236X	H.P. ZN 1000L PED 25BAR VERT		865020259X	H.P. ZN 1000L PED 25BAR ORIZZ	
865020237X	H.P. ZN 1500L PED 25BAR VERT		865020260X	H.P. ZN 1500L PED 25BAR ORIZZ	
865020238X	H.P. ZN 2000L PED 25BAR VERT		865020261X	H.P. ZN 2000L PED 25BAR ORIZZ	
865020239X	H.P. ZN 2000B L PED 25BAR VERT		865020262X	H.P. ZN 2000B L PED 25BAR ORIZZ	
865020240X	H.P. ZN 2500L PED 25BAR VERT		865020263X	H.P. ZN 2500L PED 25BAR ORIZZ	
865020241X	H.P. ZN 3000L PED 25BAR VERT		865020264X	H.P. ZN 3000L PED 25BAR ORIZZ	
865020242X	H.P. ZN 3000B L PED 25BAR VERT	◆	865020265X	H.P. ZN 3000B L PED 25BAR ORIZZ	◆
865020244X	H.P. ZN 4000L PED 25BAR VERT	◆	865020267X	H.P. ZN 4000L PED 25BAR ORIZZ	◆
865020245X	H.P. ZN 5000L PED 25BAR VERT	◆	865020268X	H.P. ZN 5000L PED 25BAR ORIZZ	◆
865020246X	H.P. ZN 5000B L PED 25BAR VERT	◆	865020269X	H.P. ZN 5000B L PED 25BAR ORIZZ	◆
865020247X	H.P. ZN 6000L PED 25BAR VERT	◆	865020270X	H.P. ZN 6000L PED 25BAR ORIZZ	◆
865020248X	H.P. ZN 6000B L PED 25BAR VERT	◆	865020271X	H.P. ZN 6000B L PED 25BAR ORIZZ	◆
865020250X	H.P. ZN 8000L PED 25BAR VERT	◆	865020273X	H.P. ZN 8000L PED 25BAR ORIZZ	◆
865020252X	H.P. ZN 9500L PED 25BAR VERT	◆	865020285X	H.P. ZN 9500L PED 25BAR ORIZZ	◆

PN 30 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020281X	H.P. ZN 800L PED 30BAR VERT		865020295X	H.P. ZN 800L PED 30BAR ORIZZ	
865020282X	H.P. ZN 1000L PED 30BAR VERT		865020296X	H.P. ZN 1000L PED 30BAR ORIZZ	
865020283X	H.P. ZN 1500L PED 30BAR VERT		865020297X	H.P. ZN 1500L PED 30BAR ORIZZ	
865020284X	H.P. ZN 2000L PED 30BAR VERT		865020298X	H.P. ZN 2000L PED 30BAR ORIZZ	
865020287X	H.P. ZN 3000L PED 30BAR VERT		865020301X	H.P. ZN 3000L PED 30BAR ORIZZ	
865020289X	H.P. ZN 5000L PED 30BAR VERT	◆	865020303X	H.P. ZN 5000L PED 30BAR ORIZZ	◆
865020290X	H.P. ZN 6000L PED 30BAR VERT	◆	865020304X	H.P. ZN 6000L PED 30BAR ORIZZ	◆

◆ Request quotation

Product codes of P.E.D. tested 35/64 bar galvanized autoclaves

PN 35 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020305X	H.P. ZN 100L PED 35BAR VERT		865020316X	H.P. ZN 100L PED 35BAR ORIZZ	
865020306X	H.P. ZN 200L PED 35BAR VERT		865020317X	H.P. ZN 200L PED 35BAR ORIZZ	
865020307X	H.P. ZN 300L PED 35BAR VERT		865020318X	H.P. ZN 300L PED 35BAR ORIZZ	
865020308X	H.P. ZN 500L PED 35BAR VERT		865020319X	H.P. ZN 500L PED 35BAR ORIZZ	
865020309X	H.P. ZN 800L PED 35BAR VERT		865020320X	H.P. ZN 800L PED 35BAR ORIZZ	
865020310X	H.P. ZN 1000L PED 35BAR VERT		865020321X	H.P. ZN 1000L PED 35BAR ORIZZ	
865020311X	H.P. ZN 1500L PED 35BAR VERT		865020322X	H.P. ZN 1500L PED 35BAR ORIZZ	
865020312X	H.P. ZN 2000L PED 35BAR VERT	◆	865020323X	H.P. ZN 2000L PED 35BAR ORIZZ	◆
865020313X	H.P. ZN 2000B L PED 35BAR VERT	◆	865020324X	H.P. ZN 2000B L PED 35BAR ORIZZ	◆
865020314X	H.P. ZN 2500L PED 35BAR VERT	◆	865020325X	H.P. ZN 2500L PED 35BAR ORIZZ	◆
865020315X	H.P. ZN 3000L PED 35BAR VERT	◆	865020326X	H.P. ZN 3000L PED 35BAR ORIZZ	◆

PN 64 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
865020327X	H.P. ZN 100L PED 64BAR VERT		865020333X	H.P. ZN 100L PED 64BAR ORIZZ	
865020328X	H.P. ZN 200L PED 64BAR VERT		865020334X	H.P. ZN 200L PED 64BAR ORIZZ	
865020329X	H.P. ZN 300L PED 64BAR VERT		865020325X	H.P. ZN 300L PED 64BAR ORIZZ	
865020330X	H.P. ZN 500L PED 64BAR VERT	◆	865020336X	H.P. ZN 500L PED 64BAR ORIZZ	◆
865020331X	H.P. ZN 800L PED 64BAR VERT	◆	865020337X	H.P. ZN 800L PED 64BAR ORIZZ	◆
865020332X	H.P. ZN 1000L PED 64BAR VERT	◆	865020338X	H.P. ZN 1000L PED 64BAR ORIZZ	◆

◆ Request quotation

P.E.D. tested pressurized air tanks

8, 11, 12 bar – AK series

The AK pressurized air tanks are indispensable in systems that distribute compressed air. The tanks guarantee a constant flow, reduce the compressor start-ups and ensure a stable pressure in the entire distribution net to compensate consumption peaks (ex. Installations assembled in series). The models, with CE label, are available in capacities of 300 up to 20.000 litres in the vertical, the horizontal, the 8 bar, the 11 bar, the 12 bar, the zincate and the varnished version.

✓ Special versions

The AK storage tanks can be modified on demand in order to meet your specific requirements.

✓ **Material:** carbon steel

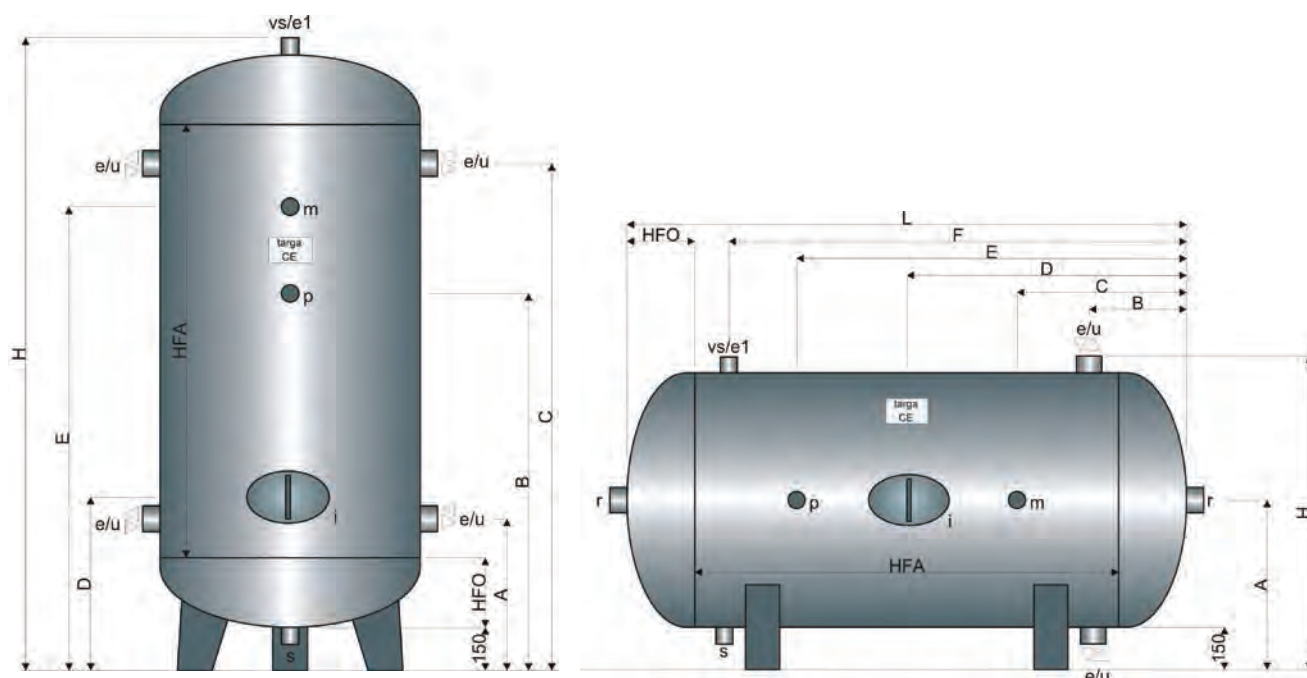
✓ **Protective treatment:** hot dip galvanizing and external coating

✓ **Operative conditions**

The storage tanks have a max pressure of 8, 11 and 12 bar and operating temperatures from -10 to +50°C.

Connections

s	Discharge
vs	Safety valve
m	Pressure gauge
p	Pressure controller
i	Inspection hole
e	Water inlet
u	Water outlet
e1	Air inlet
l	Level
r	back-up



P.E.D. tested pressurized air tanks

8, 11, 12 bar – AK series

Vertical

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	H mm	weight kg	e/u (*) inch	vs/s/e1 (*) inch	m/p (*) inch	i mm
300	500	165	1250	415	1065	1465	465	1365	1760	75	1	1 1/4	1/2	*
500	650	200	1250	450	1100	1500	500	1400	1830	102	1 1/2	1 1/4	1/2	*
800	800	240	1250	490	1140	1540	540	1440	1910	151	2	1 1/4	1/2	*
1000	800	240	1650	490	1540	1940	540	1840	2310	177	2	1 1/4	1/2	*
1500	950	280	1750	550	1680	2060	580	1980	2490	232	2	1 1/4	1/2	*
2000	1100	310	1750	580	1710	2090	610	2010	2550	353	2	1 1/4	1/2	*/**
3000	1250	350	2000	640	2000	2360	650	2300	2880	466	2 1/2	1 1/4	1/2	*/**
4000	1400	390	2000	680	2040	2400	690	2340	2960	660	3	1 1/4	1/2	*/**/**
5000	1450	410	2500	700	2360	2920	710	2760	3500	792	3	1 1/4	1/2	*/**/**
6000	1450	410	3000	700	2860	3420	710	3260	4000	932	3	1 1/4	1/2	*/**/**
8000	1650	460	3000	840	2910	3380	860	3310	4100	1286	4	1 1/4	1/2	*/**/**
10000	1650	460	4000	840	3910	4380	860	4110	5100	1560	4	1 1/4	1/2	*/**/**
15000	2000	560	4000	940	4010	4480	1010	3710	5300	2323	4	1 1/4	1/2	300x400
20000	2000	560	5500	940	5510	5980	1010	5210	6800	2903	4	1 1/4	1/2	300x400

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	H mm	L mm	F mm	weight kg	e/u/s vs/e1 (*) inch	r (*) inch	m/p (*) inch	i mm
300	500	165	1250	400	265	440	790	1140	680	1580	1140	75	1	1 1/4	1/2	*
500	650	200	1250	475	300	475	825	1175	830	1650	1175	102	1 1/2	1 1/4	1/2	*
800	800	240	1250	550	340	515	865	1215	980	1730	1215	151	2	1 1/4	1/2	*
1000	800	240	1650	550	340	765	1065	1365	980	2130	1365	177	2	1 1/4	1/2	*
1500	950	280	1750	625	400	805	1155	1505	1130	2310	1505	232	2	1 1/4	1/2	*
2000	1100	310	1750	700	430	910	1185	1460	1280	2370	1460	353	2	1 1/4	1/2	*/**
3000	1250	350	2000	775	490	625	1350	2075	1430	2700	2075	466	2 1/2	1 1/4	1/2	*/**
4000	1400	390	2000	850	530	1140	1390	1640	1580	2780	1640	660	3	1 1/4	1/2	*/**/**
5000	1450	410	2500	875	550	1660	1660	1660	1630	3320	1660	792	3	1 1/4	1/2	*/**/**
6000	1450	410	3000	875	550	1660	1910	2160	1630	3820	2160	932	3	1 1/4	1/2	*/**/**
8000	1650	460	3000	975	690	1710	1960	2210	1830	3920	2210	1286	4	1 1/4	1/2	*/**/**
10000	1650	460	4000	975	690	1710	2460	3210	1830	4920	3210	1560	4	1 1/4	1/2	*/**/**
15000	2000	560	4000	1150	790	1810	2560	3310	2180	5120	3310	2323	4	1 1/4	1/2	300x400
20000	2000	560	5500	1150	790	2560	3310	4060	2180	6620	4060	2903	4	1 1/4	1/2	300x400

Inspection hole on demand: * 100x150; ** 220x320; *** 300x400

P.E.D. tested varnished pressurized air tanks

PN 6 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010001X	VERN 20L PED 8BAR VERT	◆	866010024X	VERN 20L PED 8BAR ORIZZ	◆
866010002X	VERN 33L PED 8BAR VERT	◆	866010025X	VERN 33L PED 8BAR ORIZZ	◆
866010003X	VERN 50L PED 8BAR VERT	◆	866010026X	VERN 50L PED 8BAR ORIZZ	◆
866010004X	VERN 100L PED 8BAR VERT	◆	866010027X	VERN 100L PED 8BAR ORIZZ	◆
866010005X	VERN 200L PED 8BAR VERT	◆	866010028X	VERN 200L PED 8BAR ORIZZ	◆
866010006X	VERN 300L PED 8BAR VERT		866010029X	VERN 300L PED 8BAR ORIZZ	
866010007X	VERN 500L PED 8BAR VERT		866010030X	VERN 500L PED 8BAR ORIZZ	
866010008X	VERN 700L PED 8BAR VERT	◆	866010031X	VERN 700L PED 8BAR ORIZZ	◆
866010009X	VERN 800L PED 8BAR VERT		866010032X	VERN 800L PED 8BAR ORIZZ	
866010010X	VERN 1000L PED 8BAR VERT		866010033X	VERN 1000L PED 8BAR ORIZZ	
866010011X	VERN 1500L PED 8BAR VERT		866010034X	VERN 1500L PED 8BAR ORIZZ	
866010012X	VERN 2000L PED 8BAR VERT		866010035X	VERN 2000L PED 8BAR ORIZZ	
866010013X	VERN 2000B L PED 8BAR VERT	◆	866010036X	VERN 2000B L PED 8BAR ORIZZ	◆
866010014X	VERN 3000L PED 8BAR VERT		866010037X	VERN 3000L PED 8BAR ORIZZ	
866010015X	VERN 3000B L PED 8BAR VERT		866010038X	VERN 3000B L PED 8BAR ORIZZ	
866010016X	VERN 4000L PED 8BAR VERT		866010039X	VERN 4000L PED 8BAR ORIZZ	
866010017X	VERN 5000L PED 8BAR VERT		866010040X	VERN 5000L PED 8BAR ORIZZ	
866010018X	VERN 5000B L PED 8BAR VERT		866010041X	VERN 5000B L PED 8BAR ORIZZ	
866010019X	VERN 6000L PED 8BAR VERT		866010042X	VERN 6000L PED 8BAR ORIZZ	
866010020X	VERN 8000L PED 8BAR VERT	◆	866010043X	VERN 8000L PED 8BAR ORIZZ	◆
866010021X	VERN 10000L PED 8BAR VERT	◆	866010044X	VERN 10000L PED 8BAR ORIZZ	◆
866010022X	VERN 15000L PED 8BAR VERT	◆	866010045X	VERN 15000L PED 8BAR ORIZZ	◆
866010023X	VERN 20000L PED 8BAR VERT	◆	866010046X	VERN 20000L PED 8BAR ORIZZ	◆

PN 8 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010047X	VERN 20L PED 11BAR VERT	◆	866010070X	VERN 20L PED 11BAR ORIZZ	◆
866010048X	VERN 33L PED 11BAR VERT	◆	866010071X	VERN 33L PED 11BAR ORIZZ	◆
866010049X	VERN 50L PED 11BAR VERT *		866010072X	VERN 50L PED 11BAR ORIZZ	
866010050X	VERN 100L PED 11BAR VERT *		866010073X	VERN 100L PED 11BAR ORIZZ	
866010051X	VERN 200L PED 11BAR VERT *		866010074X	VERN 200L PED 11BAR ORIZZ	
866010052X	VERN 300L PED 11BAR VERT *		866010075X	VERN 300L PED 11BAR ORIZZ	
866010053X	VERN 500L PED 11BAR VERT		866010076X	VERN 500L PED 11BAR ORIZZ	
866010054X	VERN 700L PED 11BAR VERT *		866010077X	VERN 700L PED 11BAR ORIZZ	
866010055X	VERN 800L PED 11BAR VERT		866010078X	VERN 800L PED 11BAR ORIZZ	
866010056X	VERN 1000L PED 11BAR VERT		866010079X	VERN 1000L PED 11BAR ORIZZ	
866010057X	VERN 1500L PED 11BAR VERT *		866010080X	VERN 1500L PED 11BAR ORIZZ	
866010058X	VERN 2000L PED 11BAR VERT *		866010081X	VERN 2000L PED 11BAR ORIZZ	
866010059X	VERN 2000B L PED 11BAR VERT *		866010082X	VERN 2000B L PED 11BAR ORIZZ	
866010060X	VERN 3000L PED 11BAR VERT		866010083X	VERN 3000L PED 11BAR ORIZZ	
866010061X	VERN 3000B L PED 11BAR VERT *		866010084X	VERN 3000B L PED 11BAR ORIZZ	
866010062X	VERN 4000L PED 11BAR VERT		866010085X	VERN 4000L PED 11BAR ORIZZ	
866010063X	VERN 5000L PED 11BAR VERT		866010086X	VERN 5000L PED 11BAR ORIZZ	
866010064X	VERN 5000B L PED 11BAR VERT *	◆	866010087X	VERN 5000B L PED 11BAR ORIZZ	◆
866010065X	VERN 6000L PED 11BAR VERT		866010088X	VERN 6000L PED 11BAR ORIZZ	
866010066X	VERN 8000L PED 11BAR VERT	◆	866010089X	VERN 8000L PED 11BAR ORIZZ	◆
866010067X	VERN 10000L PED 11BAR VERT	◆	866010090X	VERN 10000L PED 11BAR ORIZZ	◆
866010068X	VERN 15000L PED 11BAR VERT	◆	866010091X	VERN 15000L PED 11BAR ORIZZ	◆
866010069X	VERN 20000L PED 11BAR VERT	◆	866010092X	VERN 20000L PED 11BAR ORIZZ	◆

◆ Request quotation

P.E.D. tested varnished pressurized air tanks

PN 12 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010093X	VERN 20L PED 12BAR VERT		866010116X	VERN 20L PED 12BAR ORIZZ	
866010094X	VERN 33L PED 12BAR VERT		866010117X	VERN 33L PED 12BAR ORIZZ	
866010095X	VERN 50L PED 12BAR VERT		866010118X	VERN 50L PED 12BAR ORIZZ	
866010096X	VERN 100L PED 12BAR VERT		866010119X	VERN 100L PED 12BAR ORIZZ	
866010097X	VERN 200L PED 12BAR VERT		866010120X	VERN 200L PED 12BAR ORIZZ	
866010098X	VERN 300L PED 12BAR VERT		866010121X	VERN 300L PED 12BAR ORIZZ	
866010099X	VERN 500L PED 12BAR VERT		866010122X	VERN 500L PED 12BAR ORIZZ	
866010100X	VERN 700L PED 12BAR VERT	◆	866010123X	VERN 700L PED 12BAR ORIZZ	◆
866010101X	VERN 800L PED 12BAR VERT		866010124X	VERN 800L PED 12BAR ORIZZ	
866010102X	VERN 1000L PED 12BAR VERT		866010125X	VERN 1000L PED 12BAR ORIZZ	
866010103X	VERN 1500L PED 12BAR VERT		866010126X	VERN 1500L PED 12BAR ORIZZ	
866010104X	VERN 2000L PED 12BAR VERT		866010127X	VERN 2000L PED 12BAR ORIZZ	
866010105X	VERN 2000B L PED 12BAR VERT	◆	866010128X	VERN 2000B L PED 12BAR ORIZZ	◆
866010106X	VERN 3000L PED 12BAR VERT		866010129X	VERN 3000L PED 12BAR ORIZZ	
866010107X	VERN 3000B L PED 12BAR VERT		866010130X	VERN 3000B L PED 12BAR ORIZZ	
866010108X	VERN 4000L PED 12BAR VERT		866010131X	VERN 4000L PED 12BAR ORIZZ	
866010109X	VERN 5000L PED 12BAR VERT		866010132X	VERN 5000L PED 12BAR ORIZZ	
866010110X	VERN 5000B L PED 12BAR VERT		866010133X	VERN 5000B L PED 12BAR ORIZZ	
866010111X	VERN 6000L PED 12BAR VERT		866010134X	VERN 6000L PED 12BAR ORIZZ	
866010112X	VERN 8000L PED 12BAR VERT	◆	866010135X	VERN 8000L PED 12BAR ORIZZ	◆
866010113X	VERN 10000L PED 12BAR VERT	◆	866010136X	VERN 10000L PED 12BAR ORIZZ	◆
866010114X	VERN 15000L PED 12BAR VERT	◆	866010137X	VERN 15000L PED 12BAR ORIZZ	◆
866010115X	VERN 20000L PED 12BAR VERT	◆	866010138X	VERN 20000L PED 12BAR ORIZZ	◆

◆ Request quotation

P.E.D. tested galvanized pressurized air tanks

PN 6 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020001X	ZN 20L PED 8BAR VERT	◆	866020024X	ZN 20L PED 8BAR ORIZZ	◆
866020002X	ZN 33L PED 8BAR VERT	◆	866020025X	ZN 33L PED 8BAR ORIZZ	◆
866020003X	ZN 50L PED 8BAR VERT	◆	866020026X	ZN 50L PED 8BAR ORIZZ	◆
866020004X	ZN 100L PED 8BAR VERT	◆	866020027X	ZN 100L PED 8BAR ORIZZ	◆
866020005X	ZN 200L PED 8BAR VERT	◆	866020028X	ZN 200L PED 8BAR ORIZZ	◆
866020006X	ZN 300L PED 8BAR VERT	◆	866020029X	ZN 300L PED 8BAR ORIZZ	◆
866020007X	ZN 500L PED 8BAR VERT		866020030X	ZN 500L PED 8BAR ORIZZ	
866020008X	ZN 700L PED 8BAR VERT	◆	866020031X	ZN 700L PED 8BAR ORIZZ	◆
866020009X	ZN 800L PED 8BAR VERT		866020032X	ZN 800L PED 8BAR ORIZZ	
866020010X	ZN 1000L PED 8BAR VERT		866020033X	ZN 1000L PED 8BAR ORIZZ	
866020011X	ZN 1500L PED 8BAR VERT		866020034X	ZN 1500L PED 8BAR ORIZZ	
866020012X	ZN 2000L PED 8BAR VERT		866020035X	ZN 2000L PED 8BAR ORIZZ	
866020013X	ZN 2000B L PED 8BAR VERT	◆	866020036X	ZN 2000B L PED 8BAR ORIZZ	◆
866020014X	ZN 3000L PED 8BAR VERT		866020037X	ZN 3000L PED 8BAR ORIZZ	
866020015X	ZN 3000B L PED 8BAR VERT		866020038X	ZN 3000B L PED 8BAR ORIZZ	
866020016X	ZN 4000L PED 8BAR VERT		866020039X	ZN 4000L PED 8BAR ORIZZ	
866020017X	ZN 5000L PED 8BAR VERT		866020040X	ZN 5000L PED 8BAR ORIZZ	
866020018X	ZN 5000B L PED 8BAR VERT		866020041X	ZN 5000B L PED 8BAR ORIZZ	
866020019X	ZN 6000L PED 8BAR VERT		866020042X	ZN 6000L PED 8BAR ORIZZ	
866020020X	ZN 8000L PED 8BAR VERT	◆	866020043X	ZN 8000L PED 8BAR ORIZZ	◆
866020021X	ZN 10000L PED 8BAR VERT	◆	866020044X	ZN 10000L PED 8BAR ORIZZ	◆
866020022X	ZN 15000L PED 8BAR VERT	◆	866020045X	ZN 15000L PED 8BAR ORIZZ	◆
866020023X	ZN 20000L PED 8BAR VERT	◆	866020046X	ZN 20000L PED 8BAR ORIZZ	◆

PN 8 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020047X	ZN 20L PED 8BAR VERT	◆	866020070X	ZN 20L PED 11BAR ORIZZ	◆
866020048X	ZN 33L PED 8BAR VERT	◆	866020071X	ZN 33L PED 11BAR ORIZZ	◆
866020049X	ZN 50L PED 8BAR VERT		866020072X	ZN 50L PED 11BAR ORIZZ	
866020050X	ZN 100L PED 8BAR VERT		866020073X	ZN 100L PED 11BAR ORIZZ	
866020051X	ZN 200L PED 8BAR VERT		866020074X	ZN 200L PED 11BAR ORIZZ	
866020052X	ZN 300L PED 8BAR VERT		866020075X	ZN 300L PED 11BAR ORIZZ	
866020053X	ZN 500L PED 8BAR VERT		866020076X	ZN 500L PED 11BAR ORIZZ	
866020054X	ZN 700L PED 8BAR VERT		866020077X	ZN 700L PED 11BAR ORIZZ	
866020055X	ZN 800L PED 8BAR VERT		866020078X	ZN 800L PED 11BAR ORIZZ	
866020056X	ZN 1000L PED 8BAR VERT		866020079X	ZN 1000L PED 11BAR ORIZZ	
866020057X	ZN 1500L PED 8BAR VERT		866020080X	ZN 1500L PED 11BAR ORIZZ	
866020058X	ZN 2000L PED 8BAR VERT		866020081X	ZN 2000L PED 11BAR ORIZZ	
866020059X	ZN 2000B L PED 8BAR VERT		866020082X	ZN 2000B L PED 11BAR ORIZZ	
866020060X	ZN 3000L PED 8BAR VERT		866020083X	ZN 3000L PED 11BAR ORIZZ	
866020061X	ZN 3000B L PED 8BAR VERT		866020084X	ZN 3000B L PED 11BAR ORIZZ	
866020062X	ZN 4000L PED 8BAR VERT		866020085X	ZN 4000L PED 11BAR ORIZZ	
866020063X	ZN 5000L PED 8BAR VERT		866020086X	ZN 5000L PED 11BAR ORIZZ	
866020064X	ZN 5000B L PED 8BAR VERT	◆	866020087X	ZN 5000B L PED 11BAR ORIZZ	◆
866020065X	ZN 6000L PED 8BAR VERT		866020088X	ZN 6000L PED 11BAR ORIZZ	
866020066X	ZN 8000L PED 8BAR VERT	◆	866020089X	ZN 8000L PED 11BAR ORIZZ	◆
866020067X	ZN 10000L PED 8BAR VERT	◆	866020090X	ZN 10000L PED 11BAR ORIZZ	◆
866020068X	ZN 15000L PED 8BAR VERT	◆	866020091X	ZN 15000L PED 11BAR ORIZZ	◆
866020069X	ZN 20000L PED 8BAR VERT	◆	866020092X	ZN 20000L PED 11BAR ORIZZ	◆

◆ Request quotation

P.E.D. tested galvanized pressurized air tanks

PN 12 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020093X	ZN 20L PED 12BAR VERT		866020116X	ZN 20L PED 12BAR ORIZZ	
866020094X	ZN 33L PED 12BAR VERT		866020117X	ZN 33L PED 12BAR ORIZZ	
866020095X	ZN 50L PED 12BAR VERT		866020118X	ZN 50L PED 12BAR ORIZZ	
866020096X	ZN 100L PED 12BAR VERT		866020119X	ZN 100L PED 12BAR ORIZZ	
866020097X	ZN 200L PED 12BAR VERT		866020120X	ZN 200L PED 12BAR ORIZZ	
866020098X	ZN 300L PED 12BAR VERT		866020121X	ZN 300L PED 12BAR ORIZZ	
866020099X	ZN 500L PED 12BAR VERT		866020122X	ZN 500L PED 12BAR ORIZZ	
866020100X	ZN 700L PED 12BAR VERT	◆	866020123X	ZN 700L PED 12BAR ORIZZ	◆
866020101X	ZN 800L PED 12BAR VERT		866020124X	ZN 800L PED 12BAR ORIZZ	
866020102X	ZN 1000L PED 12BAR VERT		866020125X	ZN 1000L PED 12BAR ORIZZ	
866020103X	ZN 1500L PED 12BAR VERT		866020126X	ZN 1500L PED 12BAR ORIZZ	
866020104X	ZN 2000L PED 12BAR VERT		866020127X	ZN 2000L PED 12BAR ORIZZ	
866020105X	ZN 2000B L PED 12BAR VERT	◆	866020128X	ZN 2000B L PED 12BAR ORIZZ	◆
866020106X	ZN 3000L PED 12BAR VERT		866020129X	ZN 3000L PED 12BAR ORIZZ	
866020107X	ZN 3000B L PED 12BAR VERT		866020130X	ZN 3000B L PED 12BAR ORIZZ	
866020108X	ZN 4000L PED 12BAR VERT		866020131X	ZN 4000L PED 12BAR ORIZZ	
866020109X	ZN 5000L PED 12BAR VERT		866020132X	ZN 5000L PED 12BAR ORIZZ	
866020110X	ZN 5000B L PED 12BAR VERT	◆	866020133X	ZN 5000B L PED 12BAR ORIZZ	
866020111X	ZN 6000L PED 12BAR VERT	◆	866020134X	ZN 6000L PED 12BAR ORIZZ	
866020112X	ZN 8000L PED 12BAR VERT	◆	866020135X	ZN 8000L PED 12BAR ORIZZ	◆
866020113X	ZN 10000L PED 12BAR VERT	◆	866020136X	ZN 10000L PED 12BAR ORIZZ	◆
866020114X	ZN 15000L PED 12BAR VERT	◆	866020137X	ZN 15000L PED 12BAR ORIZZ	◆
866020115X	ZN 20000L PED 12BAR VERT	◆	866020138X	ZN 20000L PED 12BAR ORIZZ	◆

◆ Request quotation

P.E.D. tested 16 bar compressed air tanks, under high pressure – AP series

The AP tanks for compressed air under high pressure are used in all compressed air distribution systems with elevated pressure. The AP series is different from the AK series because of the operating pressure which is superior in the AP series.

The models, with CE label, are available in the vertical and horizontal version, with various capacities in function of the max operating pressure:

16 bar version: 300 up to 10.000 litres
 18 bar version: 100 up to 5.000 litres
 20 bar version: 4.000 up to 10.000 litres
 25 bar version: 300 up to 6.000 litres
 30 bar version: 800 up to 6.000 litres
 35 bar version: 100 up to 3.000 litres
 64 bar version: 100 up to 1.000 litres

✓ Special versions

The AK storage tanks can be modified on demand in order to meet your specific requirements.

✓ **Material:** carbon steel

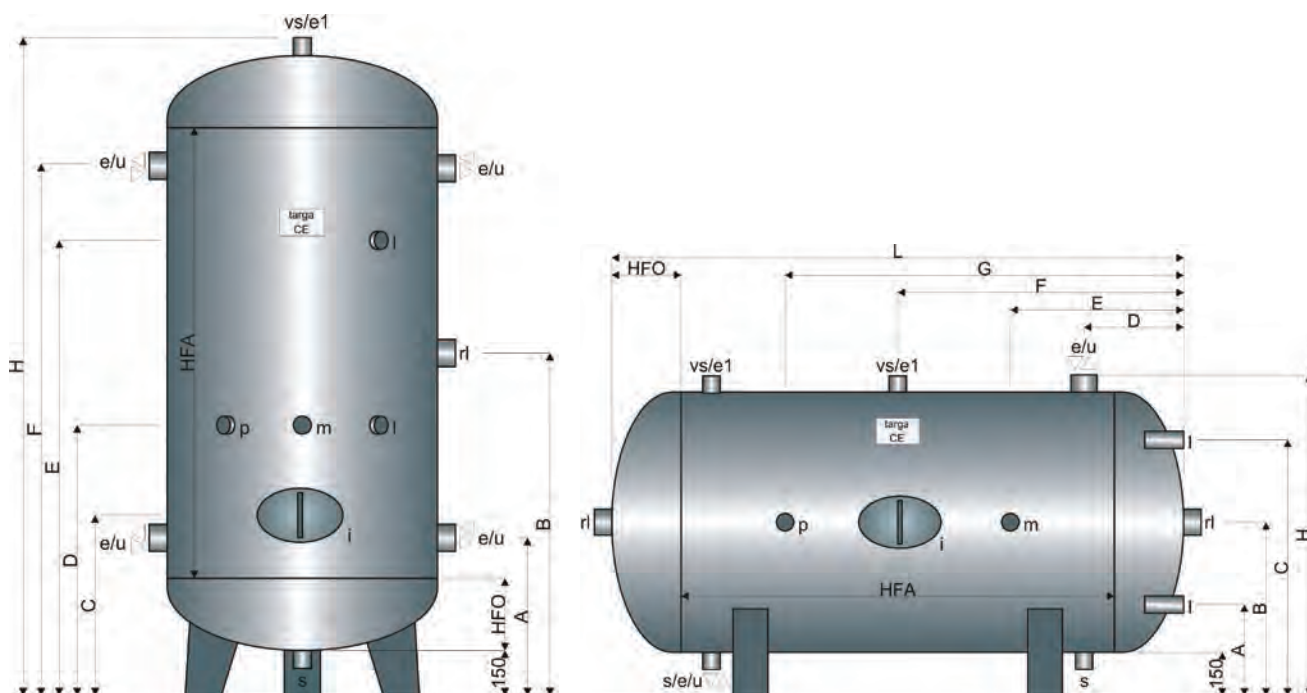
✓ **Protective treatment:** hot dip galvanizing and external coating

✓ **Operative conditions**

The storage tanks have a max pressure of 16, 18, 20, 25, 30, 35, 64 bar and operating temperatures from -10 to +50°C.

Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
r	back-up



P.E.D. tested 16 bar compressed air tanks, under high pressure – AP series

Vertical

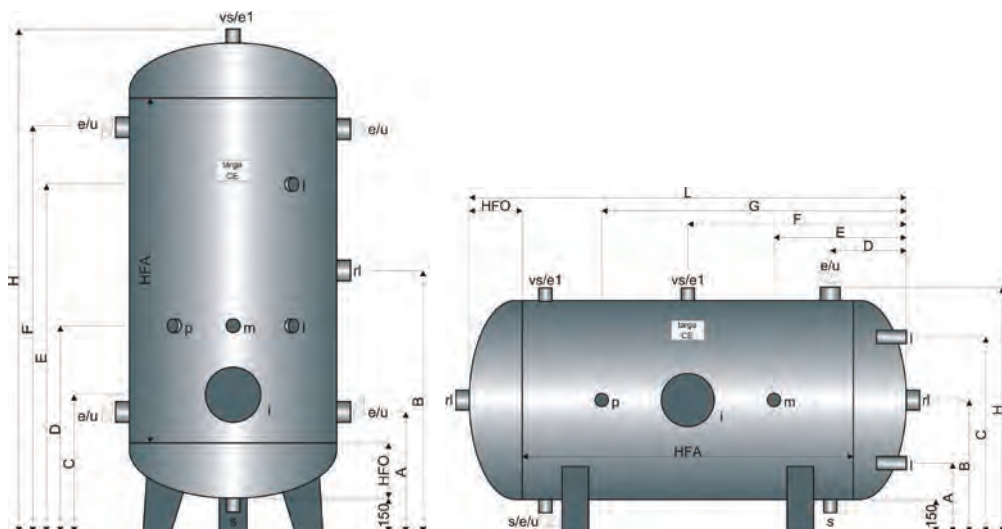
capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	weight kg	e/u (") inch	L/m/p (") inch	vs/e1/rl/s (") inch	i mm
300	500	165	1250	415	940	465	665	1415	1465	1760	99	1	1/2	1 1/4	*
500	650	200	1250	450	975	500	700	1450	1500	1830	144	1 1/2	1/2	1 1/4	*
800	800	240	1250	500	1015	540	740	1490	1530	1910	232	2	1/2	1 1/4	*
1000	800	240	1700	500	1240	540	990	1890	1980	2360	281	2	1/2	1 1/4	*
1500	950	280	1750	550	1305	680	1030	2030	2060	2490	365	2	1/2	1 1/4	*
2000	1000	310	2000	600	1460	710	1060	2060	2320	2800	481	2	1/2	1 1/4	*
2500	1250	360	1500	660	1260	760	910	1810	1860	2400	568	2	1/2	1 1/4	*
3000	1250	360	2000	660	1510	760	1210	2210	2360	2900	670	2 1/2	1/2	1 1/4	*
3500	1400	410	1800	800	1460	860	1260	2260	2120	2800	820	3	1/2	1 1/4	***
4000	1400	410	2000	800	1560	860	1260	2260	2320	3000	898	3	1/2	1 1/4	**/**
5000	1450	425	2500	815	1825	875	1375	2375	2835	3530	1080	3	1/2	1 1/4	**/**
7000	1650	470	2500	860	1870	920	1420	2920	2880	3620	1556	3	1/2	1 1/4	**/**
8000	1650	470	3000	860	2120	920	1420	2920	3380	4120	1741	4	1/2	1 1/4	**/**
10000	1650	470	4000	860	2620	920	1620	3120	4380	5120	2106	4	1/2	1 1/4	**/**

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	weight kg	e/u/s (") inch	L/m/p (") inch	rl (") inch	vs/e1 (") inch	i mm
300	500	165	1250	220	400	580	265	440	790	1140	680	1580	99	1	1/2	1 1/4	1	*
500	650	200	1250	250	475	700	300	475	825	1175	830	1650	144	1 1/2	1/2	1 1/4	1 1/2	*
800	800	240	1250	270	550	830	350	515	865	1215	980	1730	232	2	1/2	1 1/4	2	*
1000	800	240	1700	270	550	830	350	765	1090	1415	980	2180	281	2	1/2	1 1/4	2	*
1500	950	280	1750	300	625	950	400	805	1155	1505	1130	2310	365	2	1/2	1 1/4	2	*
2000	1000	310	2000	300	650	1000	450	910	1310	1710	1180	2620	481	2	1/2	1 1/4	2	*
2500	1250	360	1500	338	775	1213	510	860	1110	1360	1430	2220	568	3	1/2	1 1/4	3	*
3000	1250	360	2000	338	775	1213	510	960	1360	1760	1430	2720	670	3	1/2	1 1/4	3	*
3500	1400	410	1800	350	850	1350	650	1010	1310	1610	1580	2620	820	3	1/2	1 1/4	3	***
4000	1400	410	2000	350	850	1350	650	1010	1410	1810	1580	2820	898	4	1/2	1 1/4	4	**/**
5000	1450	425	2500	375	875	1375	665	1175	1675	2175	1630	3350	1080	4	1/2	1 1/4	4	**/**
7000	1650	470	2500	400	975	1550	710	1220	1720	2220	1830	3440	1556	4	1/2	1 1/4	4	**/**
8000	1650	470	3000	400	975	1550	710	1470	1970	2470	1830	3940	1741	4	1/2	1 1/4	4	**/**
10000	1650	470	4000	400	975	1550	710	1720	2470	3220	1830	4940	2106	4	1/2	1 1/4	4	**/**

Inspection hole on demand: * 100x150; ** 220x320; *** 300x400

P.E.D. tested 18 bar compressed air tanks, under high pressure – AP series



Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
r	back-up

Vertical

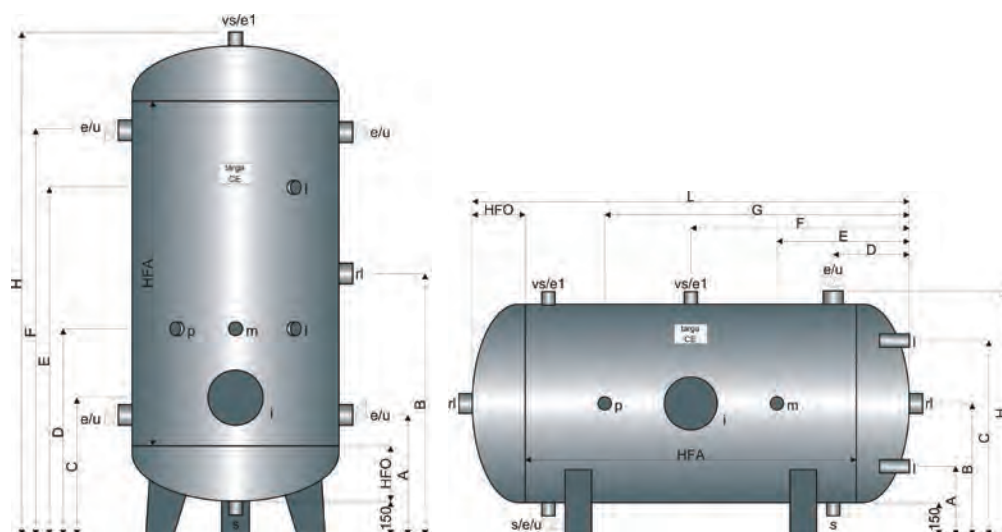
capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	weight kg	e/u (*) inch	L/m/p (*) inch	vs/e1/rl/s (*) inch	i mm
100	350	120	1000	370	770	420	570	1070	1170	1420	82	1	1/2	1 1/4	*
200	450	150	1000	400	800	450	650	1150	1200	1480	110	1	1/2	1 1/4	*
300	500	165	1250	415	940	465	665	1365	1465	1760	146	1	1/2	1 1/4	*
500	650	200	1250	450	975	500	750	1450	1500	1830	199	1 1/2	1/2	1 1/4	*
800	800	240	1250	500	1015	540	790	1490	1530	1910	259	2	1/2	1 1/4	*
1000	800	240	1700	500	1240	540	990	1890	1980	2360	319	2	1/2	1 1/4	*
1500	950	280	1750	560	1305	580	1030	2030	2050	2490	408	2	1/2	1 1/4	*
2000	1100	330	1750	610	1355	630	1080	2080	2100	2590	516	2	1/2	1 1/4	*
2500	1250	360	1500	660	1260	660	910	1810	1860	2400	653	2	1/2	1 1/4	*
3000	1250	360	2000	660	1510	660	1210	2210	2360	2900	772	2 1/2	1/2	1 1/4	*
4000	1400	410	2000	780	1560	710	1260	2260	2340	3000	1067	3	1/2	1 1/4	*
5000	1450	425	2500	795	1825	725	1375	2375	2855	3530	1279	3	1/2	1 1/4	*

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	weight kg	e/u/s (*) inch	L/m/p (*) inch	rl (*) inch	vs/e1 (*) inch	i mm
100	350	120	1000	195	325	475	220	320	620	920	530	1240	82	1	1/2	1 1/4	1	*
200	450	150	1000	225	375	555	250	350	650	950	630	1300	110	1	1/2	1 1/4	1	*
300	500	165	1250	220	400	625	265	440	790	1140	680	1580	146	1	1/2	1 1/4	1	*
500	650	200	1250	250	475	755	300	475	825	1175	830	1650	199	1 1/2	1/2	1 1/4	1 1/2	*
800	800	240	1250	270	550	830	350	515	865	1215	980	1730	259	2	1/2	1 1/4	2	*
1000	800	240	1700	270	550	875	350	765	1090	1415	980	2180	319	2	1/2	1 1/4	2	*
1500	950	280	1750	300	625	1010	410	805	1155	1505	1130	2310	408	2	1/2	1 1/4	2	*
2000	1100	330	1750	315	700	1138	460	855	1205	1555	1280	2410	516	2	1/2	1 1/4	2	*
2500	1250	360	1500	338	775	1213	510	860	1110	1360	1430	2220	653	2	1/2	1 1/4	2	*
3000	1250	360	2000	338	775	1275	510	960	1360	1760	1430	2720	772	2 1/2	1/2	1 1/4	2 1/2	*
4000	1400	410	2000	350	850	1350	630	1010	1410	1810	1580	2820	1067	3	1/2	1 1/4	3	*
5000	1450	425	2500	375	875	875	645	1175	1675	2175	1630	3350	1279	3	1/2	1 1/4	3	*

*Inspection hole on demand

P.E.D. tested 20 bar compressed air tanks, under high pressure – AP series



Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
r	back-up

Vertical

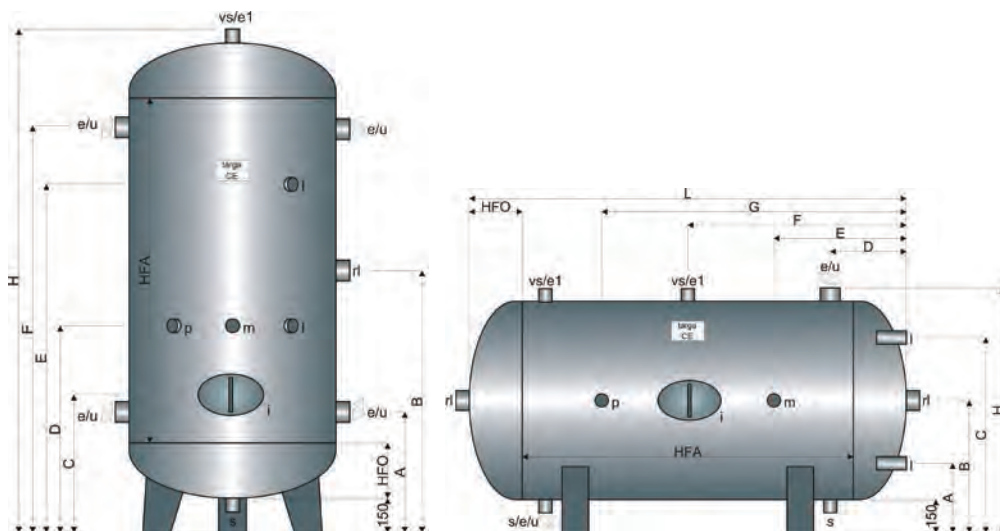
capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	weight kg	e/u (*) inch	L/m/p (*) inch	vs/e1/rl/s (*) inch	i mm
4000	1400	410	2000	810	1560	850	1260	2260	2310	3000	1222	3	1/2	1 1/4	*
5000	1450	420	2500	820	1820	875	1370	2370	2820	3520	1479	3	1/2	1 1/4	*
6000	1600	460	2300	860	1760	950	1410	2910	2660	3400	1628	3	1/2	1 1/4	*
7000	1650	480	2500	880	1880	975	1430	2930	2880	3640	1902	4	1/2	1 1/4	*
8000	1650	480	3000	880	2130	975	1430	2930	3380	4140	2130	4	1/2	1 1/4	*
9000	1600	460	4000	860	2610	950	1610	3110	4360	5100	2382	4	1/2	1 1/4	*
10000	1650	480	4000	880	2630	975	1630	3130	4380	5140	2586	4	1/2	1 1/4	*

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	weight kg	e/u/s (*) inch	L/m/p (*) inch	rl/vs/e1 (*) inch	i mm
4000	1400	410	2000	350	850	1350	660	1010	1410	1810	1580	2820	1222	3	1/2	1 1/4	*
5000	1450	420	2500	375	875	1375	670	1170	1670	2170	1630	3340	1479	3	1/2	1 1/4	*
6000	1600	460	2300	450	950	1450	710	1210	1610	2010	1780	3220	1628	3	1/2	1 1/4	*
7000	1650	480	2500	475	975	1475	730	1230	1730	2230	1830	3460	1902	4	1/2	1 1/4	*
8000	1650	480	3000	475	975	1475	730	1480	1980	2480	1830	3960	2130	4	1/2	1 1/4	*
9000	1600	460	4000	450	950	1450	710	1710	2460	3210	1780	4920	2382	4	1/2	1 1/4	*
10000	1650	480	4000	475	975	1475	730	1730	2480	3230	1830	4960	2586	4	1/2	1 1/4	*

*Inspection hole on demand

P.E.D. tested 25 bar compressed air tanks, under high pressure – AP series



Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
r	back-up

Vertical

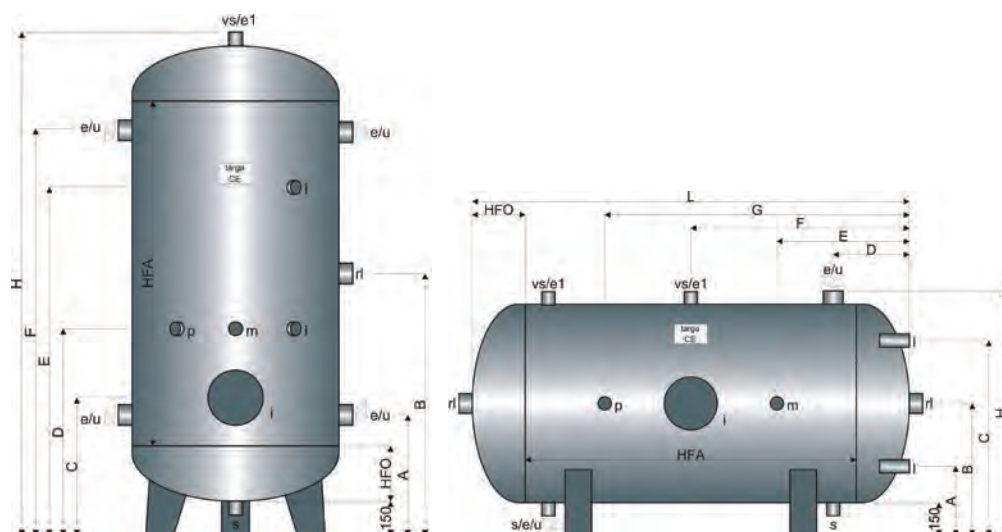
capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	weight kg	e/u (°) inch	L/m/p (°) inch	vs/e1/rl/s (°) inch	i mm
300	500	165	1250	415	940	n.p.	715	1415	1465	1760	146	1	1/2	1 1/4	n.p.
500	650	200	1250	460	975	n.p.	750	1450	1490	1830	200	1 1/2	1/2	1 1/4	n.p.
800	800	240	1250	510	1015	n.p.	790	1490	1520	1910	272	2	1/2	1 1/4	n.p.
1000	800	240	1700	510	1240	n.p.	990	1890	1970	2360	332	2	1/2	1 1/4	n.p.
1500	950	280	1750	570	1305	690	1030	1930	2040	2490	544	2	1/2	1 1/4	***
2000	1000	310	2000	600	1460	720	1260	2260	2320	2800	638	2	1/2	1 1/4	**/**
2500	1250	371	1500	691	1271	801	921	1821	1851	2422	882	2	1/2	1 1/4	**/**
3000	1250	371	2000	691	1521	801	1321	2321	2351	2922	1054	2 1/2	1/2	1 1/4	**/**
3000	1400	415	1500	805	1315	895	965	1765	1825	2510	1238	2 1/2	1/2	1 1/4	**/**
4000	1400	415	2000	805	1565	895	1265	2265	2325	3010	1471	3	1/2	1 1/4	**/**
5000	1450	430	2500	820	1830	910	1280	2280	2840	3540	1780	3	1/2	1 1/4	**/**
5000	1650	490	1700	900	1490	990	1240	2240	2080	2860	1934	3	1/2	1 1/4	**/**
6000	1450	430	3000	820	2080	910	1580	2580	3340	4040	2061	3	1/2	1 1/4	**/**
6000	1650	490	2000	900	1640	990	1240	2240	2380	3160	2166	3	1/2	1 1/4	**/**

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	weight kg	e/u/s/vs/e1 (°) inch	L/m/p (°) inch	rl (°) inch	i mm
300	500	165	1250	250	400	550	265	440	790	1140	680	1580	146	1	1/2	1 1/4	n.p.
500	650	200	1250	265	475	685	310	475	825	1175	830	1650	200	1 1/2	1/2	1 1/4	n.p.
800	800	240	1250	300	550	800	360	515	865	1215	980	1730	272	2	1/2	1 1/4	n.p.
1000	800	240	1700	300	550	800	360	765	1090	1415	980	2180	332	2	1/2	1 1/4	n.p.
1500	950	280	1750	300	625	950	420	805	1155	1505	1130	2310	544	2	1/2	1 1/4	***
2000	1000	310	2000	300	650	1000	450	810	1310	1810	1180	2620	638	2	1/2	1 1/4	**/**
2500	1250	371	1500	345	775	1205	541	871	1121	1371	1430	2242	882	2	1/2	1 1/4	**/**
3000	1250	371	2000	345	775	1205	541	971	1371	1771	1430	2742	1054	2 1/2	1/2	1 1/4	**/**
3000	1400	415	1500	350	850	1350	655	1165	1165	1165	1580	2330	1238	2 1/2	1/2	1 1/4	**/**
4000	1400	415	2000	350	850	1350	655	1015	1415	1815	1580	2830	1471	3	1/2	1 1/4	**/**
5000	1450	430	2500	375	875	1375	670	1180	1680	2180	1630	3360	1780	3	1/2	1 1/4	**/**
5000	1650	490	1700	475	975	1475	750	990	1340	1690	1830	2680	1934	3	1/2	1 1/4	**/**
6000	1450	430	3000	375	875	1375	670	1180	1930	2680	1630	3860	2061	3	1/2	1 1/4	**/**
6000	1650	490	2000	475	975	1475	750	1090	1490	1890	1830	2980	2166	3	1/2	1 1/4	**/**

* Inspection hole on demand ** 320x420; *** 300x400.

P.E.D. tested 30 bar compressed air tanks, under high pressure – AP series



Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
r	back-up

Vertical

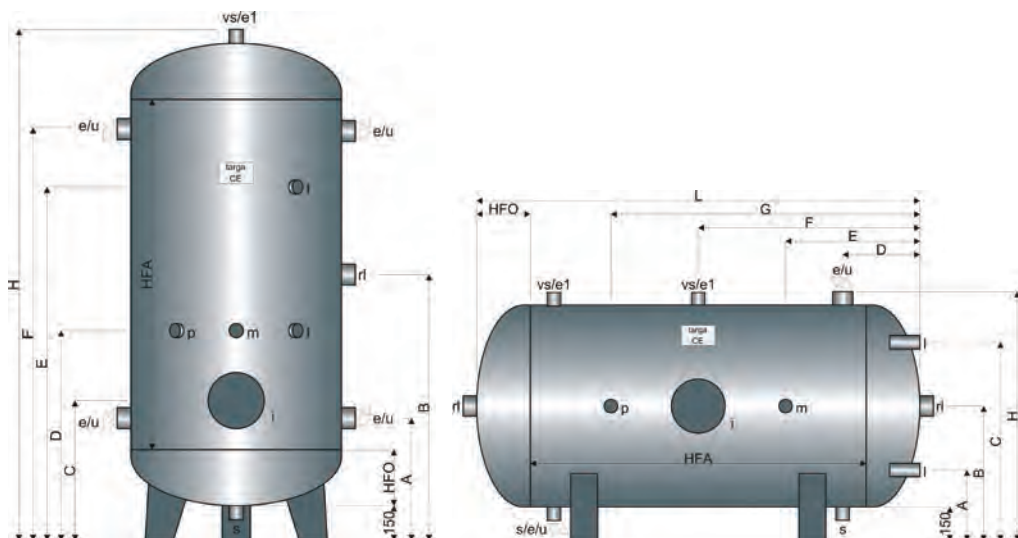
capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	weight kg	e/u (") inch	L/m/p (") inch	vs/e1/rl/s (") inch	i mm
800	800	250	1250	530	1025	700	750	1450	1520	1930	427	2	1/2	1 1/4	*
1000	800	250	1700	530	1250	700	900	1850	1970	2380	527	2	1/2	1 1/4	*
1500	900	285	2000	585	1435	785	935	1885	2285	2750	695	2	1/2	1 1/4	*
2000	1100	340	1750	640	1365	840	990	1990	2090	2610	813	2	1/2	1 1/4	*
3000	1100	340	2500	710	1740	840	1490	2490	2770	3360	1050	2 1/2	1/2	1 1/4	*
5000	1450	440	2500	840	1840	990	1590	2590	2840	3560	2073	3	1/2	1 1/4	*
6000	1450	440	3000	840	2090	990	1590	3090	3340	4060	2393	3	1/2	1 1/4	*

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	weight kg	e/u/s/vs/e1 (") inch	L/m/p (") inch	rl (") inch	i mm
800	800	250	1250	300	550	800	380	525	875	1225	980	1750	427	2	1/2	1 1/4	*
1000	800	250	1700	300	550	800	380	775	1100	1425	980	2200	527	2	1/2	1 1/4	*
1500	950	280	1750	300	625	950	430	805	1155	1505	1130	2310	695	2	1/2	1 1/4	*
2000	1100	340	1750	300	700	1100	490	865	1215	1565	1280	2430	813	2	1/2	1 1/4	*
3000	1100	340	2500	300	700	1100	490	940	1590	2240	1280	3180	1050	2 1/2	1/2	1 1/4	*
5000	1450	440	2500	375	875	1375	690	1190	1690	2190	1630	3380	2073	3	1/2	1 1/4	*
6000	1450	440	3000	375	875	1375	690	1190	1940	2690	1630	3880	2393	3	1/2	1 1/4	*

* Inspection hole on demand ** 320x420; *** 300x400.

P.E.D. tested 35 bar compressed air tanks, under high pressure – AP series



Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
r	back-up

Vertical

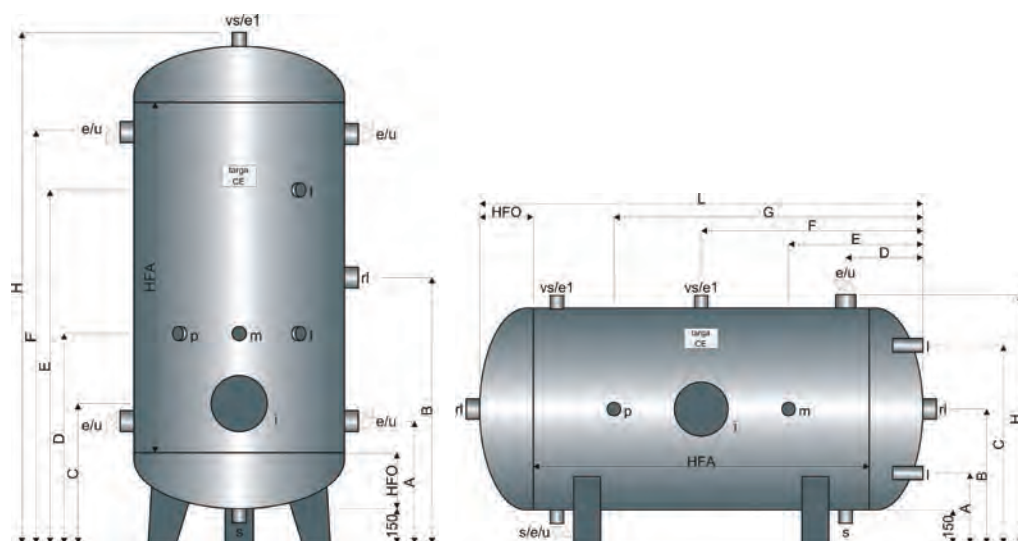
capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	weight kg	e/u (°) inch	L/m/p (°) inch	vs/e1/rl/s (°) inch	i mm
100	350	120	1000	370	770	420	570	1070	1170	1420	81	1	1/2	1 1/4	*
200	450	150	1000	400	800	500	600	1100	1200	1480	109	1	1/2	1 1/4	*
300	500	165	1250	415	940	515	665	1365	1465	1760	144	1	1/2	1 1/4	*
500	650	205	1250	475	980	605	705	1405	1485	1840	229	1 1/2	1/2	1 1/4	*
800	800	250	1250	530	1025	650	750	1450	1520	1930	427	2	1/2	1 1/4	*
1000	800	250	1700	530	1250	650	1000	1900	1970	2380	527	2	1/2	1 1/4	*
1500	950	295	1750	655	1320	695	1045	1945	1985	2520	676	2	1/2	1 1/4	*
2000	1000	315	2000	685	1465	715	1065	2065	2245	2810	954	2	1/2	1 1/4	*
2000	1100	350	1750	740	1375	800	1100	2000	2010	2630	982	2	1/2	1 1/4	*
2500	1250	390	1500	780	1290	890	940	1740	1800	2460	1238	2	1/2	1 1/4	*
3000	1250	390	2000	780	1540	890	1240	2240	2300	2960	1476	2 1/2	1/2	1 1/4	*

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	weight kg	e/u/s/vs/e1 (°) inch	L/m/p (°) inch	rl (°) pollici	i mm
100	350	120	1000	215	325	435	220	320	620	920	530	1240	81	1	1/2	1 1/4	*
200	450	150	1000	235	375	515	250	350	650	950	630	1300	109	1	1/2	1 1/4	*
300	500	165	1250	250	400	550	265	440	790	1140	680	1580	144	1	1/2	1 1/4	*
500	650	205	1250	265	475	685	325	480	830	1180	830	1660	229	1 1/2	1/2	1 1/4	*
800	800	250	1250	300	550	800	380	525	875	1225	980	1750	427	2	1/2	1 1/4	*
1000	800	250	1700	300	550	800	380	775	1100	1425	980	2200	527	2	1/2	1 1/4	*
1500	950	295	1750	300	625	950	505	820	1170	1520	1130	2340	676	2	1/2	1 1/4	*
2000	1000	315	2000	300	650	1000	535	915	1315	1715	1180	2630	954	2	1/2	1 1/4	*
2000	1100	350	1750	315	700	1085	590	875	1225	1575	1280	2450	982	2	1/2	1 1/4	*
2500	1250	390	1500	345	775	1205	630	890	1140	1390	1430	2280	1238	2	1/2	1 1/4	*
3000	1250	390	2000	345	775	1205	630	990	1390	1790	1430	2780	1476	2 1/2	1/2	1 1/4	*

* Inspection hole on demand

P.E.D. tested 64 bar compressed air tanks, under high pressure – AP series



Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
e	water inlet
u	water outlet
e1	air inlet
l	level
r	back-up

Vertical

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	weight kg	e/u (") inch	L/m/p (") inch	vs/e1/rl/s (") inch	i mm
100	350	130	1000	390	780	480	580	1080	1170	1440	94	1	1/2	1 1/4	*
200	450	165	1000	435	815	515	615	1115	1195	1510	178	1	1/2	1 1/4	*
300	500	182	1250	462	957	582	682	1382	1452	1794	237	1	1/2	1 1/4	*
500	650	230	1250	530	1005	680	730	1430	1480	1890	389	1 1/2	1/2	1 1/4	*
800	750	270	1500	580	1170	720	770	1470	1760	2220	620	2	1/2	1 1/4	*
1000	750	270	2000	580	1420	720	1020	2020	2260	2720	765	2	1/2	1 1/4	*

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	weight kg	e/u/s/vs/e1 (") inch	L/m/p (") inch	rl (") pollici	i mm
100	350	130	1000	215	325	435	240	330	630	930	530	1260	94	1	1/2	1 1/4	*
200	450	165	1000	235	375	515	285	365	665	965	630	1330	178	1	1/2	1 1/4	*
300	500	182	1250	250	400	550	312	457	807	1157	680	1614	237	1	1/2	1 1/4	*
500	650	230	1250	265	475	685	380	505	855	1205	830	1710	389	1 1/2	1/2	1 1/4	*
800	750	270	1500	275	525	775	430	545	1020	1495	930	2040	620	2	1/2	1 1/4	*
1000	750	270	2000	275	525	775	430	795	1270	1745	930	2540	765	2	1/2	1 1/4	*

* Inspection hole on demand

Product codes of P.E.D. tested varnished high pressure tanks

PN 16 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010139X	H.P. VERN 100L PED 16BAR VERT		866010162X	H.P. VERN 100L PED 16BAR ORIZZ	
866010140X	H.P. VERN 200L PED 16BAR VERT		866010163X	H.P. VERN 200L PED 16BAR ORIZZ	
866010141X	H.P. VERN 300L PED 16BAR VERT		866010164X	H.P. VERN 300L PED 16BAR ORIZZ	
866010142X	H.P. VERN 500L PED 16BAR VERT		866010165X	H.P. VERN 500L PED 16BAR ORIZZ	
866010143X	H.P. VERN 800L PED 16BAR VERT		866010166X	H.P. VERN 800L PED 16BAR ORIZZ	
866010144X	H.P. VERN 1000L PED 16BAR VERT		866010167X	H.P. VERN 1000L PED 16BAR ORIZZ	
866010145X	H.P. VERN 1500L PED 16BAR VERT		866010168X	H.P. VERN 1500L PED 16BAR ORIZZ	
866010146X	H.P. VERN 2000L PED 16BAR VERT		866010169X	H.P. VERN 2000L PED 16BAR ORIZZ	
866010147X	H.P. VERN 2000B L PED 16BAR VERT		866010170X	H.P. VERN 2000B L PED 16BAR ORIZZ	
866010148X	H.P. VERN 2500L PED 16BAR VERT		866010171X	H.P. VERN 2500L PED 16BAR ORIZZ	
866010149X	H.P. VERN 3000L PED 16BAR VERT		866010172X	H.P. VERN 3000L PED 16BAR ORIZZ	
866010150X	H.P. VERN 3000B L PED 16BAR VERT	◆	866010173X	H.P. VERN 3000B L PED 16BAR ORIZZ	◆
866010151X	H.P. VERN 3500L PED 16BAR VERT		866010174X	H.P. VERN 3500L PED 16BAR ORIZZ	
866010152X	H.P. VERN 4000L PED 16BAR VERT		866010175X	H.P. VERN 4000L PED 16BAR ORIZZ	
866010153X	H.P. VERN 5000L PED 16BAR VERT		866010176X	H.P. VERN 5000L PED 16BAR ORIZZ	
866010154X	H.P. VERN 5000B L PED 16BAR VERT	◆	866010177X	H.P. VERN 5000B L PED 16BAR ORIZZ	◆
866010155X	H.P. VERN 6000L PED 16BAR VERT	◆	866010178X	H.P. VERN 6000L PED 16BAR ORIZZ	◆
866010156X	H.P. VERN 6000B L PED 16BAR VERT	◆	866010179X	H.P. VERN 6000B L PED 16BAR ORIZZ	◆
866010157X	H.P. VERN 7000L PED 16BAR VERT	◆	866010180X	H.P. VERN 7000L PED 16BAR ORIZZ	◆
866010158X	H.P. VERN 8000L PED 16BAR VERT	◆	866010181X	H.P. VERN 8000L PED 16BAR ORIZZ	◆
866010159X	H.P. VERN 9000L PED 16BAR VERT	◆	866010182X	H.P. VERN 9000L PED 16BAR ORIZZ	◆
866010160X	H.P. VERN 9500L PED 16BAR VERT	◆	866010183X	H.P. VERN 9500L PED 16BAR ORIZZ	◆
866010161X	H.P. VERN 10000L PED 16BAR VERT	◆	866010184X	H.P. VERN 10000L PED 16BAR ORIZZ	◆

PN 18 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010185X	H.P. VERN 100L PED 18BAR VERT		866010200X	H.P. VERN 100L PED 18BAR ORIZZ	
866010186X	H.P. VERN 200L PED 18BAR VERT		866010201X	H.P. VERN 200L PED 18BAR ORIZZ	
866010187X	H.P. VERN 300L PED 18BAR VERT		866010202X	H.P. VERN 300L PED 18BAR ORIZZ	
866010188X	H.P. VERN 500L PED 18BAR VERT		866010203X	H.P. VERN 500L PED 18BAR ORIZZ	
866010189X	H.P. VERN 800L PED 18BAR VERT		866010204X	H.P. VERN 800L PED 18BAR ORIZZ	
866010190X	H.P. VERN 1000L PED 18BAR VERT		866010205X	H.P. VERN 1000L PED 18BAR ORIZZ	
866010191X	H.P. VERN 1500L PED 18BAR VERT		866010206X	H.P. VERN 1500L PED 18BAR ORIZZ	
866010192X	H.P. VERN 2000L PED 18BAR VERT		866010207X	H.P. VERN 2000L PED 18BAR ORIZZ	
866010193X	H.P. VERN 2000B L PED 18BAR VERT		866010208X	H.P. VERN 2000B L PED 18BAR ORIZZ	
866010194X	H.P. VERN 2500L PED 18BAR VERT		866010209X	H.P. VERN 2500L PED 18BAR ORIZZ	
866010195X	H.P. VERN 3000L PED 18BAR VERT		866010210X	H.P. VERN 3000L PED 18BAR ORIZZ	
866010196X	H.P. VERN 3000B L PED 18BAR VERT		866010211X	H.P. VERN 3000B L PED 18BAR ORIZZ	
866010197X	H.P. VERN 3500L PED 18BAR VERT	◆	866010212X	H.P. VERN 3500L PED 18BAR ORIZZ	◆
866010198X	H.P. VERN 4000L PED 18BAR VERT	◆	866010213X	H.P. VERN 4000L PED 18BAR ORIZZ	◆
866010199X	H.P. VERN 5000L PED 18BAR VERT	◆	866010214X	H.P. VERN 5000L PED 18BAR ORIZZ	◆

◆ Request quotation

Product code of P.E.D. tested varnished high pressure tanks

PN 20 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010215X	H.P. VERN 100L PED 20BAR VERT	◆	866010238X	H.P. VERN 100L PED 20BAR ORIZZ	◆
866010216X	H.P. VERN 200L PED 20BAR VERT	◆	866010239X	H.P. VERN 200L PED 20BAR ORIZZ	◆
866010217X	H.P. VERN 300L PED 20BAR VERT	◆	866010240X	H.P. VERN 300L PED 20BAR ORIZZ	◆
866010218X	H.P. VERN 500L PED 20BAR VERT	◆	866010241X	H.P. VERN 500L PED 20BAR ORIZZ	◆
866010219X	H.P. VERN 800L PED 20BAR VERT	◆	866010242X	H.P. VERN 800L PED 20BAR ORIZZ	◆
866010220X	H.P. VERN 1000L PED 20BAR VERT	◆	866010243X	H.P. VERN 1000L PED 20BAR ORIZZ	◆
866010221X	H.P. VERN 1500L PED 20BAR VERT	◆	866010244X	H.P. VERN 1500L PED 20BAR ORIZZ	◆
866010222X	H.P. VERN 2000L PED 20BAR VERT	◆	866010245X	H.P. VERN 2000L PED 20BAR ORIZZ	◆
866010223X	H.P. VERN 2000B L PED 20BAR VERT	◆	866010246X	H.P. VERN 2000B L PED 20BAR ORIZZ	◆
866010224X	H.P. VERN 2500L PED 20BAR VERT	◆	866010247X	H.P. VERN 2500L PED 20BAR ORIZZ	◆
866010225X	H.P. VERN 3000L PED 20BAR VERT	◆	866010248X	H.P. VERN 3000L PED 20BAR ORIZZ	◆
866010226X	H.P. VERN 3000B L PED 20BAR VERT	◆	866010249X	H.P. VERN 3000B L PED 20BAR ORIZZ	◆
866010227X	H.P. VERN 3500L PED 20BAR VERT	◆	866010250X	H.P. VERN 3500L PED 20BAR ORIZZ	◆
866010228X	H.P. VERN 4000L PED 20BAR VERT		866010251X	H.P. VERN 4000L PED 20BAR ORIZZ	
866010229X	H.P. VERN 5000L PED 20BAR VERT		866010252X	H.P. VERN 5000L PED 20BAR ORIZZ	
866010230X	H.P. VERN 5000B L PED 20BAR VERT		866010253X	H.P. VERN 5000B L PED 20BAR ORIZZ	
866010231X	H.P. VERN 6000L PED 20BAR VERT	◆	866010254X	H.P. VERN 6000L PED 20BAR ORIZZ	◆
866010232X	H.P. VERN 6000B L PED 20BAR VERT	◆	866010255X	H.P. VERN 6000B L PED 20BAR ORIZZ	◆
866010233X	H.P. VERN 7000L PED 20BAR VERT	◆	866010256X	H.P. VERN 7000L PED 20BAR ORIZZ	◆
866010234X	H.P. VERN 8000L PED 20BAR VERT	◆	866010257X	H.P. VERN 8000L PED 20BAR ORIZZ	◆
866010235X	H.P. VERN 9000L PED 20BAR VERT	◆	866010258X	H.P. VERN 9000L PED 20BAR ORIZZ	◆
866010236X	H.P. VERN 9500L PED 20BAR VERT	◆	866010259X	H.P. VERN 9500L PED 20BAR ORIZZ	◆
866010237X	H.P. VERN 10000L PED 20BAR VERT	◆	866010260X	H.P. VERN 10000L PED 20BAR ORIZZ	◆

PN 25 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010261X	H.P. VERN 100L PED 25BAR VERT		866010284X	H.P. VERN 100L PED 25BAR ORIZZ	
866010262X	H.P. VERN 200L PED 25BAR VERT		866010285X	H.P. VERN 200L PED 25BAR ORIZZ	
866010263X	H.P. VERN 300L PED 25BAR VERT		866010286X	H.P. VERN 300L PED 25BAR ORIZZ	
866010264X	H.P. VERN 500L PED 25BAR VERT		866010287X	H.P. VERN 500L PED 25BAR ORIZZ	
866010265X	H.P. VERN 800L PED 25BAR VERT		866010288X	H.P. VERN 800L PED 25BAR ORIZZ	
866010266X	H.P. VERN 1000L PED 25BAR VERT		866010289X	H.P. VERN 1000L PED 25BAR ORIZZ	
866010267X	H.P. VERN 1500L PED 25BAR VERT		866010290X	H.P. VERN 1500L PED 25BAR ORIZZ	
866010268X	H.P. VERN 2000L PED 25BAR VERT		866010291X	H.P. VERN 2000L PED 25BAR ORIZZ	
866010269X	H.P. VERN 2000B L PED 25BAR VERT		866010292X	H.P. VERN 2000B L PED 25BAR ORIZZ	
866010270X	H.P. VERN 2500L PED 25BAR VERT		866010293X	H.P. VERN 2500L PED 25BAR ORIZZ	
866010271X	H.P. VERN 3000L PED 25BAR VERT		866010294X	H.P. VERN 3000L PED 25BAR ORIZZ	
866010272X	H.P. VERN 3000B L PED 25BAR VERT	◆	866010295X	H.P. VERN 3000B L PED 25BAR ORIZZ	◆
866010273X	H.P. VERN 3500L PED 25BAR VERT	◆	866010296X	H.P. VERN 3500L PED 25BAR ORIZZ	◆
866010274X	H.P. VERN 4000L PED 25BAR VERT	◆	866010297X	H.P. VERN 4000L PED 25BAR ORIZZ	◆
866010275X	H.P. VERN 5000L PED 25BAR VERT	◆	866010298X	H.P. VERN 5000L PED 25BAR ORIZZ	◆
866010276X	H.P. VERN 5000B L PED 25BAR VERT	◆	866010299X	H.P. VERN 5000B L PED 25BAR ORIZZ	◆
866010277X	H.P. VERN 6000L PED 25BAR VERT	◆	866010300X	H.P. VERN 6000L PED 25BAR ORIZZ	◆
866010278X	H.P. VERN 6000B L PED 25BAR VERT	◆	866010301X	H.P. VERN 6000B L PED 25BAR ORIZZ	◆
866010279X	H.P. VERN 7000L PED 25BAR VERT	◆	866010302X	H.P. VERN 7000L PED 25BAR ORIZZ	◆
866010280X	H.P. VERN 8000L PED 25BAR VERT	◆	866010303X	H.P. VERN 8000L PED 25BAR ORIZZ	◆
866010281X	H.P. VERN 9000L PED 25BAR VERT	◆	866010304X	H.P. VERN 9000L PED 25BAR ORIZZ	◆
866010282X	H.P. VERN 9500L PED 25BAR VERT	◆	866010305X	H.P. VERN 9500L PED 25BAR ORIZZ	◆
866010283X	H.P. VERN 10000L PED 25BAR VERT	◆	866010306X	H.P. VERN 10000L PED 25BAR ORIZZ	◆

◆ Request quotation

Product codes of P.E.D. tested varnished high pressure tanks

PN 30 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010307X	H.P. VERN 100L PED 30BAR VERT	◆	866010321X	H.P. VERN 100L PED 30BAR ORIZZ	◆
866010308X	H.P. VERN 200L PED 30BAR VERT	◆	866010322X	H.P. VERN 200L PED 30BAR ORIZZ	◆
866010309X	H.P. VERN 300L PED 30BAR VERT	◆	866010323X	H.P. VERN 300L PED 30BAR ORIZZ	◆
866010310X	H.P. VERN 500L PED 30BAR VERT	◆	866010324X	H.P. VERN 500L PED 30BAR ORIZZ	◆
866010311X	H.P. VERN 800L PED 30BAR VERT		866010325X	H.P. VERN 800L PED 30BAR ORIZZ	◆
866010312X	H.P. VERN 1000L PED 30BAR VERT		866010326X	H.P. VERN 1000L PED 30BAR ORIZZ	
866010313X	H.P. VERN 1500L PED 30BAR VERT		866010327X	H.P. VERN 1500L PED 30BAR ORIZZ	
866010314X	H.P. VERN 2000L PED 30BAR VERT		866010328X	H.P. VERN 2000L PED 30BAR ORIZZ	
866010315X	H.P. VERN 2000B L PED 30BAR VERT	◆	866010329X	H.P. VERN 2000B L PED 30BAR ORIZZ	◆
866010316X	H.P. VERN 2500L PED 30BAR VERT	◆	866010330X	H.P. VERN 2500L PED 30BAR ORIZZ	◆
866010317X	H.P. VERN 3000L PED 30BAR VERT		866010331X	H.P. VERN 3000L PED 30BAR ORIZZ	
866010318X	H.P. VERN 4000L PED 30BAR VERT	◆	866010332X	H.P. VERN 4000L PED 30BAR ORIZZ	◆
866010319X	H.P. VERN 5000L PED 30BAR VERT	◆	866010333X	H.P. VERN 5000L PED 30BAR ORIZZ	◆
866010320X	H.P. VERN 6000L PED 30BAR VERT	◆	866010334X	H.P. VERN 6000L PED 30BAR ORIZZ	◆

PN 35 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010335X	H.P. VERN 100L PED 35BAR VERT		866010346X	H.P. VERN 100L PED 35BAR ORIZZ	
866010336X	H.P. VERN 200L PED 35BAR VERT		866010347X	H.P. VERN 200L PED 35BAR ORIZZ	
866010337X	H.P. VERN 300L PED 35BAR VERT		866010348X	H.P. VERN 300L PED 35BAR ORIZZ	
866010338X	H.P. VERN 500L PED 35BAR VERT		866010349X	H.P. VERN 500L PED 35BAR ORIZZ	
866010339X	H.P. VERN 800L PED 35BAR VERT		866010350X	H.P. VERN 800L PED 35BAR ORIZZ	
866010340X	H.P. VERN 1000L PED 35BAR VERT		866010351X	H.P. VERN 1000L PED 35BAR ORIZZ	
866010341X	H.P. VERN 1500L PED 35BAR VERT		866010352X	H.P. VERN 1500L PED 35BAR ORIZZ	
866010342X	H.P. VERN 2000L PED 35BAR VERT	◆	866010353X	H.P. VERN 2000L PED 35BAR ORIZZ	◆
866010343X	H.P. VERN 2000B L PED 35BAR VERT	◆	866010354X	H.P. VERN 2000B L PED 35BAR ORIZZ	◆
866010344X	H.P. VERN 2500L PED 35BAR VERT	◆	866010355X	H.P. VERN 2500L PED 35BAR ORIZZ	◆
866010345X	H.P. VERN 3000L PED 35BAR VERT	◆	866010356X	H.P. VERN 3000L PED 35BAR ORIZZ	◆

PN 64 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866010357X	H.P. VERN 100L PED 64BAR VERT		866010363X	H.P. VERN 100L PED 64BAR ORIZZ	
866010358X	H.P. VERN 200L PED 64BAR VERT		866010364X	H.P. VERN 200L PED 64BAR ORIZZ	
866010359X	H.P. VERN 300L PED 64BAR VERT		866010365X	H.P. VERN 300L PED 64BAR ORIZZ	
866010360X	H.P. VERN 500L PED 64BAR VERT	◆	866010366X	H.P. VERN 500L PED 64BAR ORIZZ	◆
866010361X	H.P. VERN 800L PED 64BAR VERT	◆	866010367X	H.P. VERN 800L PED 64BAR ORIZZ	◆
866010362X	H.P. VERN 1000L PED 64BAR VERT	◆	866010368X	H.P. VERN 1000L PED 64BAR ORIZZ	◆

◆ Request quotation

Product codes of P.E.D. tested galvanized high pressure tanks

PN 16 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020139X	H.P. ZN 100L PED 16BAR VERT		866020162X	H.P. ZN 100L PED 16BAR ORIZZ	
866020140X	H.P. ZN 200L PED 16BAR VERT		866020163X	H.P. ZN 200L PED 16BAR ORIZZ	
866020141X	H.P. ZN 300L PED 16BAR VERT		866020164X	H.P. ZN 300L PED 16BAR ORIZZ	
866020142X	H.P. ZN 500L PED 16BAR VERT		866020165X	H.P. ZN 500L PED 16BAR ORIZZ	
866020143X	H.P. ZN 800L PED 16BAR VERT		866020166X	H.P. ZN 800L PED 16BAR ORIZZ	
866020144X	H.P. ZN 1000L PED 16BAR VERT		866020167X	H.P. ZN 1000L PED 16BAR ORIZZ	
866020145X	H.P. ZN 1500L PED 16BAR VERT		866020168X	H.P. ZN 1500L PED 16BAR ORIZZ	
866020146X	H.P. ZN 2000L PED 16BAR VERT		866020169X	H.P. ZN 2000L PED 16BAR ORIZZ	
866020147X	H.P. ZN 2000B L PED 16BAR VERT		866020170X	H.P. ZN 2000B L PED 16BAR ORIZZ	
866020148X	H.P. ZN 2500L PED 16BAR VERT		866020171X	H.P. ZN 2500L PED 16BAR ORIZZ	
866020149X	H.P. ZN 3000L PED 16BAR VERT		866020172X	H.P. ZN 3000L PED 16BAR ORIZZ	
866020150X	H.P. ZN 3000B L PED 16BAR VERT	◆	866020173X	H.P. ZN 3000B L PED 16BAR ORIZZ	◆
866020151X	H.P. ZN 3500L PED 16BAR VERT		866020174X	H.P. ZN 3500L PED 16BAR ORIZZ	
866020152X	H.P. ZN 4000L PED 16BAR VERT		866020175X	H.P. ZN 4000L PED 16BAR ORIZZ	
866020153X	H.P. ZN 5000L PED 16BAR VERT		866020176X	H.P. ZN 5000L PED 16BAR ORIZZ	
866020154X	H.P. ZN 5000B L PED 16BAR VERT	◆	866020177X	H.P. ZN 5000B L PED 16BAR ORIZZ	◆
866020155X	H.P. ZN 6000L PED 16BAR VERT	◆	866020178X	H.P. ZN 6000L PED 16BAR ORIZZ	◆
866020156X	H.P. ZN 6000B L PED 16BAR VERT	◆	866020179X	H.P. ZN 6000B L PED 16BAR ORIZZ	◆
866020157X	H.P. ZN 7000L PED 16BAR VERT	◆	866020180X	H.P. ZN 7000L PED 16BAR ORIZZ	◆
866020158X	H.P. ZN 8000L PED 16BAR VERT	◆	866020181X	H.P. ZN 8000L PED 16BAR ORIZZ	◆
866020159X	H.P. ZN 9000L PED 16BAR VERT	◆	866020182X	H.P. ZN 9000L PED 16BAR ORIZZ	◆
866020160X	H.P. ZN 9500L PED 16BAR VERT	◆	866020183X	H.P. ZN 9500L PED 16BAR ORIZZ	◆
866020161X	H.P. ZN 10000L PED 16BAR VERT	◆	866020184X	H.P. ZN 10000L PED 16BAR ORIZZ	◆

PN 18 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020185X	H.P. ZN 100L PED 18BAR VERT		866020200X	H.P. ZN 100L PED 18BAR ORIZZ	
866020186X	H.P. ZN 200L PED 18BAR VERT		866020201X	H.P. ZN 200L PED 18BAR ORIZZ	
866020187X	H.P. ZN 300L PED 18BAR VERT		866020202X	H.P. ZN 300L PED 18BAR ORIZZ	
866020188X	H.P. ZN 500L PED 18BAR VERT		866020203X	H.P. ZN 500L PED 18BAR ORIZZ	
866020189X	H.P. ZN 800L PED 18BAR VERT		866020204X	H.P. ZN 800L PED 18BAR ORIZZ	
866020190X	H.P. ZN 1000L PED 18BAR VERT		866020205X	H.P. ZN 1000L PED 18BAR ORIZZ	
866020191X	H.P. ZN 1500L PED 18BAR VERT		866020206X	H.P. ZN 1500L PED 18BAR ORIZZ	
866020192X	H.P. ZN 2000L PED 18BAR VERT		866020207X	H.P. ZN 2000L PED 18BAR ORIZZ	
866020193X	H.P. ZN 2000B L PED 18BAR VERT		866020208X	H.P. ZN 2000B L PED 18BAR ORIZZ	
866020194X	H.P. ZN 2500L PED 18BAR VERT		866020209X	H.P. ZN 2500L PED 18BAR ORIZZ	
866020195X	H.P. ZN 3000L PED 18BAR VERT		866020210X	H.P. ZN 3000L PED 18BAR ORIZZ	
866020196X	H.P. ZN 3000B L PED 18BAR VERT		866020211X	H.P. ZN 3000B L PED 18BAR ORIZZ	
866020197X	H.P. ZN 3500L PED 18BAR VERT	◆	866020212X	H.P. ZN 3500L PED 18BAR ORIZZ	◆
866020198X	H.P. ZN 4000L PED 18BAR VERT	◆	866020213X	H.P. ZN 4000L PED 18BAR ORIZZ	◆
866020199X	H.P. ZN 5000L PED 18BAR VERT	◆	866020214X	H.P. ZN 5000L PED 18BAR ORIZZ	◆

◆ Request quotation

Product codes of P.E.D. tested galvanized high pressure tanks

PN 20 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020215X	H.P. ZN 100L PED 20BAR VERT	◆	866020238X	H.P. ZN 100L PED 20BAR ORIZZ	◆
866020216X	H.P. ZN 200L PED 20BAR VERT	◆	866020239X	H.P. ZN 200L PED 20BAR ORIZZ	◆
866020217X	H.P. ZN 300L PED 20BAR VERT	◆	866020240X	H.P. ZN 300L PED 20BAR ORIZZ	◆
866020218X	H.P. ZN 500L PED 20BAR VERT	◆	866020241X	H.P. ZN 500L PED 20BAR ORIZZ	◆
866020219X	H.P. ZN 800L PED 20BAR VERT	◆	866020242X	H.P. ZN 800L PED 20BAR ORIZZ	◆
866020220X	H.P. ZN 1000L PED 20BAR VERT	◆	866020243X	H.P. ZN 1000L PED 20BAR ORIZZ	◆
866020221X	H.P. ZN 1500L PED 20BAR VERT	◆	866020244X	H.P. ZN 1500L PED 20BAR ORIZZ	◆
866020222X	H.P. ZN 2000L PED 20BAR VERT	◆	866020245X	H.P. ZN 2000L PED 20BAR ORIZZ	◆
866020223X	H.P. ZN 2000B L PED 20BAR VERT	◆	866020246X	H.P. ZN 2000B L PED 20BAR ORIZZ	◆
866020224X	H.P. ZN 2500L PED 20BAR VERT	◆	866020247X	H.P. ZN 2500L PED 20BAR ORIZZ	◆
866020225X	H.P. ZN 3000L PED 20BAR VERT	◆	866020248X	H.P. ZN 3000L PED 20BAR ORIZZ	◆
866020226X	H.P. ZN 3000B L PED 20BAR VERT	◆	866020249X	H.P. ZN 3000B L PED 20BAR ORIZZ	◆
866020227X	H.P. ZN 3500L PED 20BAR VERT	◆	866020250X	H.P. ZN 3500L PED 20BAR ORIZZ	◆
866020228X	H.P. ZN 4000L PED 20BAR VERT	◆	866020251X	H.P. ZN 4000L PED 20BAR ORIZZ	◆
866020229X	H.P. ZN 5000L PED 20BAR VERT	◆	866020252X	H.P. ZN 5000L PED 20BAR ORIZZ	◆
866020230X	H.P. ZN 5000B L PED 20BAR VERT	◆	866020253X	H.P. ZN 5000B L PED 20BAR ORIZZ	◆
866020231X	H.P. ZN 6000L PED 20BAR VERT	◆	866020254X	H.P. ZN 6000L PED 20BAR ORIZZ	◆
866020232X	H.P. ZN 6000B L PED 20BAR VERT	◆	866020255X	H.P. ZN 6000B L PED 20BAR ORIZZ	◆
866020233X	H.P. ZN 7000L PED 20BAR VERT	◆	866020256X	H.P. ZN 7000L PED 20BAR ORIZZ	◆
866020234X	H.P. ZN 8000L PED 20BAR VERT	◆	866020257X	H.P. ZN 8000L PED 20BAR ORIZZ	◆
866020235X	H.P. ZN 9000L PED 20BAR VERT	◆	866020258X	H.P. ZN 9000L PED 20BAR ORIZZ	◆
866020236X	H.P. ZN 9500L PED 20BAR VERT	◆	866020259X	H.P. ZN 9500L PED 20BAR ORIZZ	◆
866020237X	H.P. ZN 10000L PED 20BAR VERT	◆	866020260X	H.P. ZN 10000L PED 20BAR ORIZZ	◆

PN 25 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020261X	H.P. ZN 100L PED 25BAR VERT		866020284X	H.P. ZN 100L PED 25BAR ORIZZ	
866020262X	H.P. ZN 200L PED 25BAR VERT		866020285X	H.P. ZN 200L PED 25BAR ORIZZ	
866020263X	H.P. ZN 300L PED 25BAR VERT		866020286X	H.P. ZN 300L PED 25BAR ORIZZ	
866020264X	H.P. ZN 500L PED 25BAR VERT		866020287X	H.P. ZN 500L PED 25BAR ORIZZ	
866020265X	H.P. ZN 800L PED 25BAR VERT		866020288X	H.P. ZN 800L PED 25BAR ORIZZ	
866020266X	H.P. ZN 1000L PED 25BAR VERT		866020289X	H.P. ZN 1000L PED 25BAR ORIZZ	
866020267X	H.P. ZN 1500L PED 25BAR VERT		866020290X	H.P. ZN 1500L PED 25BAR ORIZZ	
866020268X	H.P. ZN 2000L PED 25BAR VERT		866020291X	H.P. ZN 2000L PED 25BAR ORIZZ	
866020269X	H.P. ZN 2000B L PED 25BAR VERT		866020292X	H.P. ZN 2000B L PED 25BAR ORIZZ	
866020270X	H.P. ZN 2500L PED 25BAR VERT		866020293X	H.P. ZN 2500L PED 25BAR ORIZZ	
866020271X	H.P. ZN 3000L PED 25BAR VERT		866020294X	H.P. ZN 3000L PED 25BAR ORIZZ	
866020272X	H.P. ZN 3000B L PED 25BAR VERT	◆	866020295X	H.P. ZN 3000B L PED 25BAR ORIZZ	◆
866020273X	H.P. ZN 3500L PED 25BAR VERT	◆	866020296X	H.P. ZN 3500L PED 25BAR ORIZZ	◆
866020274X	H.P. ZN 4000L PED 25BAR VERT	◆	866020297X	H.P. ZN 4000L PED 25BAR ORIZZ	◆
866020275X	H.P. ZN 5000L PED 25BAR VERT	◆	866020298X	H.P. ZN 5000L PED 25BAR ORIZZ	◆
866020276X	H.P. ZN 5000B L PED 25BAR VERT	◆	866020299X	H.P. ZN 5000B L PED 25BAR ORIZZ	◆
866020277X	H.P. ZN 6000L PED 25BAR VERT	◆	866020300X	H.P. ZN 6000L PED 25BAR ORIZZ	◆
866020278X	H.P. ZN 6000B L PED 25BAR VERT	◆	866020301X	H.P. ZN 6000B L PED 25BAR ORIZZ	◆
866020279X	H.P. ZN 7000L PED 25BAR VERT	◆	866020302X	H.P. ZN 7000L PED 25BAR ORIZZ	◆
866020280X	H.P. ZN 8000L PED 25BAR VERT	◆	866020303X	H.P. ZN 8000L PED 25BAR ORIZZ	◆
866020281X	H.P. ZN 9000L PED 25BAR VERT	◆	866020304X	H.P. ZN 9000L PED 25BAR ORIZZ	◆
866020282X	H.P. ZN 9500L PED 25BAR VERT	◆	866020305X	H.P. ZN 9500L PED 25BAR ORIZZ	◆
866020283X	H.P. ZN 10000L PED 25BAR VERT	◆	866020306X	H.P. ZN 10000L PED 25BAR ORIZZ	◆

◆ Request quotation

Product codes of P.E.D. tested galvanized high pressure tanks

PN 30 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020307X	H.P. ZN 100L PED 30BAR VERT	◆	866020321X	H.P. ZN 100L PED 30BAR ORIZZ	◆
866020308X	H.P. ZN 200L PED 30BAR VERT	◆	866020322X	H.P. ZN 200L PED 30BAR ORIZZ	◆
866020309X	H.P. ZN 300L PED 30BAR VERT	◆	866020323X	H.P. ZN 300L PED 30BAR ORIZZ	◆
866020310X	H.P. ZN 500L PED 30BAR VERT	◆	866020324X	H.P. ZN 500L PED 30BAR ORIZZ	◆
866020311X	H.P. ZN 800L PED 30BAR VERT		866020325X	H.P. ZN 800L PED 30BAR ORIZZ	
866020312X	H.P. ZN 1000L PED 30BAR VERT		866020326X	H.P. ZN 1000L PED 30BAR ORIZZ	
866020313X	H.P. ZN 1500L PED 30BAR VERT		866020327X	H.P. ZN 1500L PED 30BAR ORIZZ	
866020314X	H.P. ZN 2000L PED 30BAR VERT		866020328X	H.P. ZN 2000L PED 30BAR ORIZZ	
866020315X	H.P. ZN 2000B L PED 30BAR VERT	◆	866020329X	H.P. ZN 2000B L PED 30BAR ORIZZ	◆
866020316X	H.P. ZN 2500L PED 30BAR VERT	◆	866020330X	H.P. ZN 2500L PED 30BAR ORIZZ	◆
866020317X	H.P. ZN 3000L PED 30BAR VERT		866020331X	H.P. ZN 3000L PED 30BAR ORIZZ	
866020318X	H.P. ZN 4000L PED 30BAR VERT	◆	866020332X	H.P. ZN 4000L PED 30BAR ORIZZ	◆
866020319X	H.P. ZN 5000L PED 30BAR VERT	◆	866020333X	H.P. ZN 5000L PED 30BAR ORIZZ	◆
866020320X	H.P. ZN 6000L PED 30BAR VERT	◆	866020334X	H.P. ZN 6000L PED 30BAR ORIZZ	◆

PN 35 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020335X	H.P. ZN 100L PED 35BAR VERT		866020346X	H.P. ZN 100L PED 35BAR ORIZZ	
866020336X	H.P. ZN 200L PED 35BAR VERT		866020347X	H.P. ZN 200L PED 35BAR ORIZZ	
866020337X	H.P. ZN 300L PED 35BAR VERT		866020348X	H.P. ZN 300L PED 35BAR ORIZZ	
866020338X	H.P. ZN 500L PED 35BAR VERT		866020349X	H.P. ZN 500L PED 35BAR ORIZZ	
866020339X	H.P. ZN 800L PED 35BAR VERT		866020350X	H.P. ZN 800L PED 35BAR ORIZZ	
866020340X	H.P. ZN 1000L PED 35BAR VERT		866020351X	H.P. ZN 1000L PED 35BAR ORIZZ	
866020341X	H.P. ZN 1500L PED 35BAR VERT		866020352X	H.P. ZN 1500L PED 35BAR ORIZZ	
866020342X	H.P. ZN 2000L PED 35BAR VERT	◆	866020353X	H.P. ZN 2000L PED 35BAR ORIZZ	◆
866020343X	H.P. ZN 2000B L PED 35BAR VERT	◆	866020354X	H.P. ZN 2000B L PED 35BAR ORIZZ	◆
866020344X	H.P. ZN 2500L PED 35BAR VERT	◆	866020355X	H.P. ZN 2500L PED 35BAR ORIZZ	◆
866020345X	H.P. ZN 3000L PED 35BAR VERT	◆	866020356X	H.P. ZN 3000L PED 35BAR ORIZZ	◆

PN 64 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
866020357X	H.P. ZN 100L PED 64BAR VERT		866020363X	H.P. ZN 100L PED 64BAR ORIZZ	
866020358X	H.P. ZN 200L PED 64BAR VERT		866020364X	H.P. ZN 200L PED 64BAR ORIZZ	
866020359X	H.P. ZN 300L PED 64BAR VERT		866020365X	H.P. ZN 300L PED 64BAR ORIZZ	
866020360X	H.P. ZN 500L PED 64BAR VERT	◆	866020366X	H.P. ZN 500L PED 64BAR ORIZZ	◆
866020361X	H.P. ZN 800L PED 64BAR VERT	◆	866020367X	H.P. ZN 800L PED 64BAR ORIZZ	◆
866020362X	H.P. ZN 1000L PED 64BAR VERT	◆	866020368X	H.P. ZN 1000L PED 64BAR ORIZZ	◆

◆ Request quotation

P.E.D. tested expansion vessel for pressurized water, 6, 8, 12 bar – VE series

The VE expansion vessels are generally used in industrial installations in order to compensate for the volume variation of the heat transfer fluid caused by temperature variations. They have no membrane, which brings the heat transfer fluid in direct contact with the air cushion in the tank. Because of the absence of the membrane, you do not have to think about replacing it. The models, with the CE label, are available in capacities from 300 to 20.000 litres in the horizontal, vertical, 6 bar, 8 bar and 12 bar versions.

✓ Special versions

The VE expansion vessels can be modified on demand in order to meet your specific requirements.

✓ **Material:** carbon steel

✓ **Protective treatment:** hot dip galvanizing and external coating

✓ **Covering:** rock wool insulation with variable thickness and an external bush-hammered aluminium cover

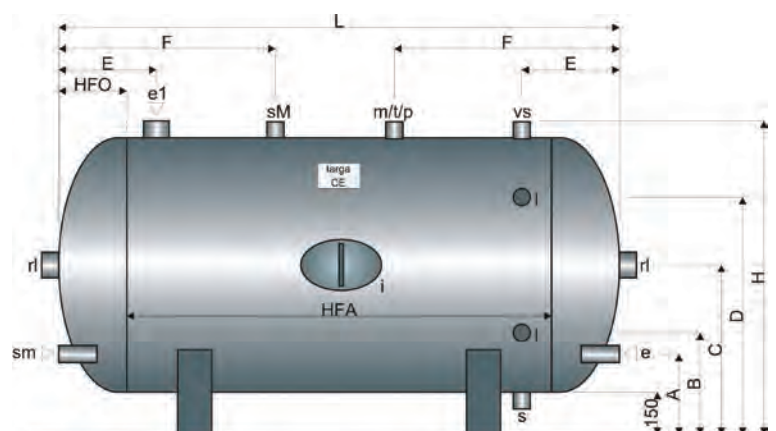
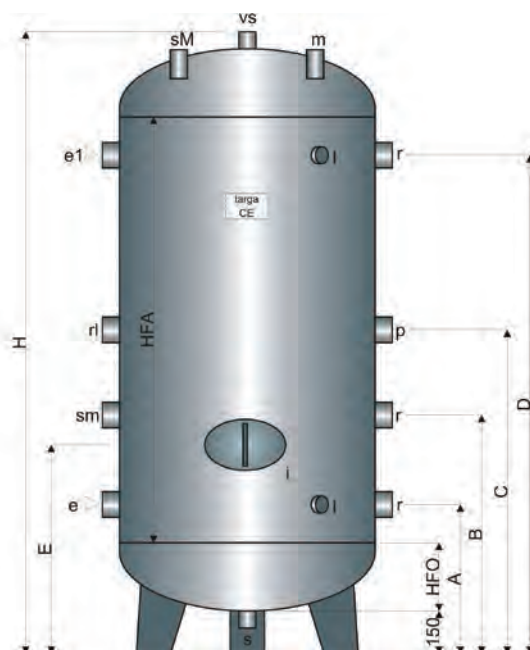
✓ **Operative conditions**

The storage tanks have a max operating temperature from 10°C to the max temperatures, which vary in the versions

max pressure	max temperature
6 bar	165°C
8 bar	175°C
12 bar	200°C

Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
rl	level regulator
i	inspection
e	superheated water inlet
e1	air inlet
sm	minimum probe
sM	maximum probe
l	level
r	back-up



P.E.D. tested expansion vessel for pressurized water, 6, 8, 12 bar – VE series

Vertical

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	H mm	weight kg	e inch	e1/sm/s inch	l pn16	rl/p/r inch	vs inch	m/sM inch	i mm
300	550	175	1000	425	625	825	1225	475	1600	89	1 1/4	1 1/4	dn20	1	1 1/4	1/2	*
500	650	200	1250	450	650	975	1500	500	1900	126	1 1/2	1 1/4	dn20	1	1 1/2	1/2	*
1000	800	240	1750	500	700	1265	2030	540	2480	207	2	1 1/4	dn20	1	2	1/2	*
1500	950	280	1750	540	740	1305	2070	580	2560	280	2 1/2	1 1/4	dn20	1	2 1/2	1/2	100x150
2000	1100	310	1750	580	780	1335	2090	610	2620	401	2 1/2	1 1/4	dn20	1	2 1/2	1/2	100x150
3000	1250	350	2000	690	890	1500	2310	650	2950	530	3	1 1/4	dn20	1	3	1/2	100x150
4000	1400	390	2000	750	950	1540	2330	790	3030	731	3	1 1/4	dn20	1	3	1/2	220x320
5000	1450	410	2500	770	970	1810	2850	810	3570	876	3	1 1/4	dn20	1	3	1/2	220x320
6000	1450	410	3000	770	970	2060	3350	810	4070	1023	3	1 1/4	dn20	1	3	1/2	220x320
8000	1650	460	3000	840	1040	2110	3380	910	4170	1390	4	1 1/4	dn20	1	4	1/2	300x400
9000	1650	460	3800	840	1040	2510	4180	910	4970	1625	4	1 1/4	dn20	1	4	1/2	300x400
10000	1650	460	4000	840	1040	2610	4380	910	5170	1683	4	1 1/4	dn20	1	4	1/2	300x400
15000	2000	560	4000	950	1150	2710	4470	1010	5370	2496	4	1 1/4	dn20	1	4	1/2	300x400
20000	2000	560	5500	950	1150	3460	5970	1010	6870	3104	4	1 1/4	dn20	1	4	1/2	300x400

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	L mm	weight kg	e/vs inch	e1/s inch	l pn16	rl inch	m/sM inch	i mm
300	550	175	1000	280	295	425	555	275	575	800	1350	89	1 1/4	1 1/4	dn20	1	1/2	*
500	650	200	1250	295	345	475	605	300	725	900	1650	126	1 1/2	1 1/4	dn20	1	1/2	*
1000	800	240	1750	340	380	550	720	350	1015	1050	2230	207	2	1 1/4	dn20	1	1/2	*
1500	950	280	1750	395	420	625	830	390	1055	1200	2310	280	2 1/2	1 1/4	dn20	1	1/2	100x150
2000	1100	310	1750	410	450	700	950	430	1065	1350	2370	401	2 1/2	1 1/4	dn20	1	1/2	100x150
3000	1250	350	2000	425	525	775	1025	540	1230	1500	2700	530	3	1 1/4	dn20	1	1/2	100x150
4000	1400	390	2000	460	600	850	1100	600	1270	1650	2780	731	3	1 1/4	dn20	1	1/2	220x320
5000	1450	410	2500	465	625	875	1125	620	1530	1700	3320	876	3	1 1/4	dn20	1	1/2	220x320
6000	1450	410	3000	465	625	875	1125	620	1780	1700	3820	1023	3	1 1/4	dn20	1	1/2	220x320
8000	1650	460	3000	525	725	975	1225	690	1810	1900	3920	1390	4	1 1/4	dn20	1	1/2	300x400
9000	1650	460	3800	525	725	975	1225	690	2210	1900	4720	1625	4	1 1/4	dn20	1	1/2	300x400
10000	1650	460	4000	525	725	975	1225	690	2310	1900	4920	1683	4	1 1/4	dn20	1	1/2	300x400
15000	2000	560	4000	700	900	1150	1400	800	2410	2250	5120	2496	4	1 1/4	dn20	1	1/2	300x400
20000	2000	560	5500	700	900	1150	1400	800	3160	2250	6620	3104	4	1 1/4	dn20	1	1/2	300x400

Inspection hole on demand * 100x150

P.E.D. tested varnished expansion vessel for pressurized water, 6, 8 bar – VE series

PN 6 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
867010001X	VERN 300L PED 6BAR 165°C VERT		867010022X	VERN 300L PED 6BAR 165°C ORIZZ	
867010002X	VERN 500L PED 6BAR 165°C VERT		867010023X	VERN 500L PED 6BAR 165°C ORIZZ	
867010003X	VERN 1000L PED 6BAR 165°C VERT		867010024X	VERN 1000L PED 6BAR 165°C ORIZZ	
867010004X	VERN 1000B L PED 6BAR 165°C VERT		867010025X	VERN 1000B L PED 6BAR 165°C ORIZZ	
867010005X	VERN 1500L PED 6BAR 165°C VERT		867010026X	VERN 1500L PED 6BAR 165°C ORIZZ	
867010006X	VERN 1500B L PED 6BAR 165°C VERT		867010027X	VERN 1500B L PED 6BAR 165°C ORIZZ	
867010007X	VERN 2000L PED 6BAR 165°C VERT		867010028X	VERN 2000L PED 6BAR 165°C ORIZZ	
867010008X	VERN 2000B L PED 6BAR 165°C VERT		867010029X	VERN 2000B L PED 6BAR 165°C ORIZZ	
867010009X	VERN 2500B1 L PED 6BAR 165°C VERT		867010030X	VERN 2500B1 L PED 6BAR 165°C ORIZZ	
867010010X	VERN 3000L PED 6BAR 165°C VERT		867010031X	VERN 3000L PED 6BAR 165°C ORIZZ	
867010011X	VERN 3000B L PED 6BAR 165°C VERT		867010032X	VERN 3000B L PED 6BAR 165°C ORIZZ	
867010012X	VERN 3000C L PED 6BAR 165°C VERT		867010033X	VERN 3000C L PED 6BAR 165°C VERT	
867010013X	VERN 4000L PED 6BAR 165°C VERT		867010034X	VERN 4000L PED 6BAR 165°C ORIZZ	
867010014X	VERN 5000L PED 6BAR 165°C VERT		867010035X	VERN 5000L PED 6BAR 165°C ORIZZ	
867010015X	VERN 5000B L PED 6BAR 165°C VERT		867010036X	VERN 5000B L PED 6BAR 165°C ORIZZ	
867010016X	VERN 6000L PED 6BAR 165°C VERT		867010037X	VERN 6000L PED 6BAR 165°C ORIZZ	
867010017X	VERN 8000L PED 6BAR 165°C VERT	◆	867010038X	VERN 8000L PED 6BAR 165°C ORIZZ	◆
867010018X	VERN 9000L PED 6BAR 165°C VERT	◆	867010039X	VERN 9000L PED 6BAR 165°C ORIZZ	◆
867010019X	VERN 10000L PED 6BAR 165°C VERT	◆	867010040X	VERN 10000L PED 6BAR 165°C ORIZZ	◆

PN 8 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
867010043X	VERN 300L PED 8BAR 176°C VERT		867010058X	VERN 300L PED 8BAR 176°C ORIZZ	
867010044X	VERN 500L PED 8BAR 176°C VERT		867010059X	VERN 500L PED 8BAR 176°C ORIZZ	
867010045X	VERN 1000L PED 8BAR 176°C VERT		867010060X	VERN 1000L PED 8BAR 176°C ORIZZ	
867010046X	VERN 1500L PED 8BAR 176°C VERT		867010061X	VERN 1500L PED 8BAR 176°C ORIZZ	
867010047X	VERN 2000L PED 8BAR 176°C VERT		867010062X	VERN 2000L PED 8BAR 176°C ORIZZ	
867010048X	VERN 3000L PED 8BAR 176°C VERT		867010063X	VERN 3000L PED 8BAR 176°C ORIZZ	
867010049X	VERN 4000L PED 8BAR 176°C VERT		867010064X	VERN 4000L PED 8BAR 176°C ORIZZ	
867010050X	VERN 5000L PED 8BAR 176°C VERT		867010065X	VERN 5000L PED 8BAR 176°C ORIZZ	
867010051X	VERN 5000B L PED 8BAR 176°C VERT		867010066X	VERN 5000B L PED 8BAR 176°C ORIZZ	
867010052X	VERN 6000L PED 8BAR 176°C VERT		867010067X	VERN 6000L PED 8BAR 176°C ORIZZ	
867010053X	VERN 8000L PED 8BAR 176°C VERT	◆	867010068X	VERN 8000L PED 8BAR 176°C ORIZZ	◆
867010054X	VERN 9000L PED 8BAR 176°C VERT	◆	867010069X	VERN 9000L PED 8BAR 176°C ORIZZ	◆
867010055X	VERN 10000L PED 8BAR 176°C VERT	◆	867010070X	VERN 10000L PED 8BAR 176°C ORIZZ	◆
867010056X	VERN 15000L PED 8BAR 176°C VERT	◆	867010071X	VERN 15000L PED 8BAR 176°C ORIZZ	◆
867010057X	VERN 20000L PED 8BAR 176°C VERT	◆	867010072X	VERN 20000L PED 8BAR 176°C ORIZZ	◆

◆ Request quotation

P.E.D. tested varnished expansion vessel for pressurized water, 12 bar – VE series

PN 12 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
867010073X	VERN 300L PED 12BAR 200°C VERT		867010088X	VERN 300L PED 12BAR 200°C ORIZZ	
867010074X	VERN 500L PED 12BAR 200°C VERT		867010089X	VERN 500L PED 12BAR 200°C ORIZZ	
867010075X	VERN 1000L PED 12BAR 200°C VERT		867010090X	VERN 1000L PED 12BAR 200°C ORIZZ	
867010076X	VERN 1500L PED 12BAR 200°C VERT		867010091X	VERN 1500L PED 12BAR 200°C VERT	
867010077X	VERN 2000L PED 12BAR 200°C VERT		867010092X	VERN 2000L PED 12BAR 200°C ORIZZ	
867010078X	VERN 3000L PED 12BAR 200°C VERT		867010093X	VERN 3000L PED 12BAR 200°C ORIZZ	
867010079X	VERN 4000L PED 12BAR 200°C VERT		867010094X	VERN 4000L PED 12BAR 200°C ORIZZ	
867010080X	VERN 5000L PED 12BAR 200°C VERT		867010095X	VERN 5000L PED 12BAR 200°C ORIZZ	
867010081X	VERN 5000B L PED 12BAR 200°C VERT		867010096X	VERN 5000B L PED 12BAR 200°C ORIZZ	
867010082X	VERN 6000L PED 12BAR 200°C VERT		867010097X	VERN 6000L PED 12BAR 200°C ORIZZ	
867010083X	VERN 8000L PED 12BAR 200°C VERT	◆	867010098X	VERN 8000L PED 12BAR 200°C ORIZZ	◆
867010084X	VERN 9000L PED 12BAR 200°C VERT	◆	867010099X	VERN 9000L PED 12BAR 200°C ORIZZ	◆
867010085X	VERN 10000L PED 12BAR 200°C VERT	◆	867010100X	VERN 10000L PED 12BAR 200°C ORIZZ	◆
867010086X	VERN 15000L PED 12BAR 200°C VERT	◆	867010101X	VERN 15000L PED 12BAR 200°C ORIZZ	◆

◆ Request quotation

P.E.D. tested expansion vessel for pressurized heat transfer oil – VO series

The VO series are installed in industrial heaters with heat transfer oil in a closed circuit in order to compensate for the thermal expansion of the heat transfer fluid. The models, with CE label, are available in capacities from 300 up to 15.000 litres in the horizontal, vertical and 6 bar version. It operates with a maximum operating temperature of 350°C.

✓ Special versions

The VE expansion vessels can be modified on demand in order to meet your specific requirements.

✓ **Material:** carbon steel

✓ **Protective treatment:** hot dip galvanizing and external coating

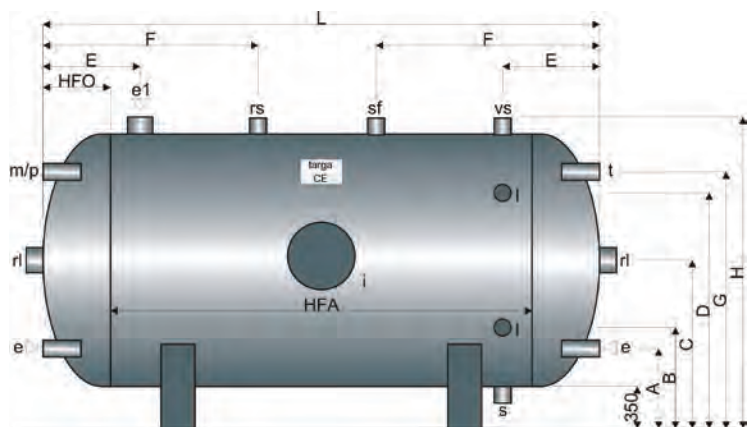
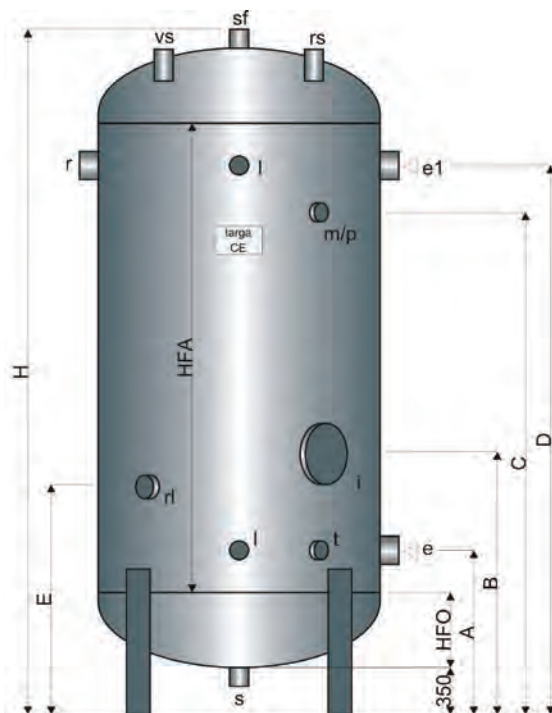
✓ **Covering:** on demand rock wool insulation with variable thickness and an external bush-hammered aluminium cover

✓ Operative conditions

The storage tanks have a max operating temperature from 10°C to the max temperatures, which vary in the versions

Couplings

s	discharge
vs	safety valve
m	manometer
p	pressostat
i	inspection
sf	vent
e	oil inlet
r	back-up
e1	water-nitrogen inlet
l	level
rl	level regulator
rs	vent collection
t	thermometer



P.E.D. tested expansion vessel for pressurized heat transfer oil – VO series

Vertical

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	H mm	weight kg	e pn16	e1/l sf/rs pn16	rl pn16	vs pn16	s inch	m/p/t inch	r pn16	i pn16
300	500	165	1250	605	915	1615	1675	765	2030	81	Dn32	Dn20	Dn100	Dn25	1 1/2	1/2	Dn15	Dn100
500	650	200	1250	640	1150	1550	1710	800	2100	120	Dn32	Dn20	Dn100	Dn25	1 1/2	1/2	Dn15	Dn150
800	800	240	1250	700	1190	1590	1730	840	2180	192	Dn50	Dn20	Dn100	Dn25	1 1/2	1/2	Dn15	Dn150
1000	800	240	1700	700	1190	2040	2180	840	2630	230	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
1500	950	280	1750	750	1230	2130	2260	880	2760	332	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
2000	1100	310	1750	780	1260	2160	2290	910	2820	412	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
2500	1250	350	1800	840	1300	2250	2360	950	2950	594	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
3000	1250	350	2000	840	1300	2450	2560	950	3150	632	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
4000	1400	390	2000	890	1340	2490	2590	990	3230	837	Dn65	Dn20	Dn100	Dn32	1 1/2	1/2	Dn15	Dn150
5000	1450	410	2500	910	1360	3010	3110	1010	3770	1005	Dn65	Dn20	Dn100	Dn40	1 1/2	1/2	Dn15	Dn150
6000	1450	410	3000	920	1360	3510	3600	1010	4270	1171	Dn65	Dn20	Dn100	Dn40	1 1/2	1/2	Dn15	Dn150
8000	1650	460	3000	970	1410	3560	3650	1060	4370	1594	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn15	Dn150
9000	1650	460	3800	970	1410	4360	4450	1060	5170	1861	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn15	Dn150
10000	1650	460	4000	970	1410	4560	4650	1060	5370	1930	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn15	Dn150
15000	1650	460	6000	1040	1410	6560	6580	1060	7370	2594	Dn100	Dn20	Dn100	Dn80	1 1/2	1/2	Dn15	Dn150

Horizontal

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	L mm	weight kg	e pn16	e1/l sf/rs pn16	rl pn16	vs pn16	s inch	m/p/t inch	i pn16
300	500	165	1250	430	490	600	710	255	690	950	1580	81	Dn32	Dn20	Dn100	Dn25	1 1/2	1/2	Dn 100
500	650	200	1250	450	545	675	805	290	725	1100	1650	120	Dn32	Dn20	Dn100	Dn25	1 1/2	1/2	Dn 150
800	800	240	1250	480	580	750	920	350	765	1250	1730	192	Dn50	Dn20	Dn100	Dn25	1 1/2	1/2	Dn 150
1000	800	240	1700	480	580	750	920	350	990	1250	2180	230	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
1500	950	280	1750	500	620	825	1030	400	1035	1400	2310	332	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
2000	1100	310	1750	515	650	900	1150	430	1065	1550	2370	412	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
2500	1250	350	1800	590	725	975	1225	490	1130	1700	2500	594	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
3000	1250	350	2000	538	675	975	1275	490	1220	1700	2700	632	Dn50	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
4000	1400	390	2000	613	750	1050	1350	540	1260	1850	2780	837	Dn65	Dn20	Dn100	Dn32	1 1/2	1/2	Dn 150
5000	1650	460	1700	605	675	1175	1675	610	1160	2100	2620	1125	Dn65	Dn20	Dn100	Dn40	1 1/2	1/2	Dn 150
6000	1450	410	3000	575	475	1075	1675	570	1760	1900	3820	1171	Dn65	Dn20	Dn100	Dn40	1 1/2	1/2	Dn 150
8000	1650	460	3000	605	675	1175	1675	620	1810	2100	3920	1594	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn 150
9000	1650	460	3800	605	575	1175	1775	620	2210	2100	4720	1861	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn 150
10000	1650	460	4000	605	575	1175	1775	620	2310	2100	4920	1930	Dn80	Dn20	Dn100	Dn50	1 1/2	1/2	Dn 150
15000	1650	460	6000	605	575	1175	1775	620	3310	2100	6920	2594	Dn100	Dn20	Dn100	Dn80	1 1/2	1/2	Dn 150

Possibility: execution with customized dimensions

Product codes P.E.D. tested expansion vessel for pressurized heat transfer oil 6 bar 350°C

PN 6 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
868010001X	VERN 300L PED 6BAR 350°C VERT		868010017X	VERN 300L PED 6BAR 350°C ORIZZ	
868010002X	VERN 500L PED 6BAR 350°C VERT		868010018X	VERN 500L PED 6BAR 350°C ORIZZ	
868010003X	VERN 800L PED 6BAR 350°C VERT	◆	868010019X	VERN 800L PED 6BAR 350°C ORIZZ	◆
868010004X	VERN 1000L PED 6BAR 350°C VERT		868010020X	VERN 1000L PED 6BAR 350°C ORIZZ	
868010005X	VERN 1500L PED 6BAR 350°C VERT		868010021X	VERN 1500L PED 6BAR 350°C ORIZZ	
868010006X	VERN 2000L PED 6BAR 350°C VERT		868010022X	VERN 2000L PED 6BAR 350°C ORIZZ	
868010007X	VERN 2500L PED 6BAR 350°C VERT	◆	868010023X	VERN 2500L PED 6BAR 350°C ORIZZ	◆
868010008X	VERN 3000L PED 6BAR 350°C VERT		868010024X	VERN 3000L PED 6BAR 350°C ORIZZ	
868010009X	VERN 4000L PED 6BAR 350°C VERT		868010025X	VERN 4000L PED 6BAR 350°C ORIZZ	
868010010X	VERN 5000L PED 6BAR 350°C VERT		868010026X	VERN 5000L PED 6BAR 350°C ORIZZ	
868010011X	VERN 5000B L PED 6BAR 350°C VERT		868010027X	VERN 5000B L PED 6BAR 350°C ORIZZ	
868010012X	VERN 6000L PED 6BAR 350°C VERT		868010028X	VERN 6000L PED 6BAR 350°C ORIZZ	
868010013X	VERN 8000L PED 6BAR 350°C VERT	◆	868010029X	VERN 8000L PED 6BAR 350°C ORIZZ	◆
868010014X	VERN 9000L PED 6BAR 350°C VERT	◆	868010030X	VERN 9000L PED 6BAR 350°C ORIZZ	◆
868010015X	VERN 10000L PED 6BAR 350°C VERT	◆	868010031X	VERN 10000L PED 6BAR 350°C ORIZZ	◆
868010016X	VERN 15000L PED 6BAR 350°C VERT	◆	868010032X	VERN 15000L PED 6BAR 350°C ORIZZ	◆

◆ Request quotation

P.E.D. tested steam accumulator tanks

12 bar 200°C – AV series

The AV steam accumulators are generally installed to support industrial steam generators (fast and with a forced circulation). The accumulator is the lung in applications in which the steam content of the heaters is low and not sufficient to manage the numerous transitions generated by the start-up and shut-down cycles of the heater.

The models, with CE label, are available in capacities from 300 up to 20.000 litres in the vertical and horizontal versions with a max pressure of 12 bar and a max operating temperature of 200°C.

✓ Special versions

The AV expansion vessels can be modified on demand in order to meet your specific requirements.

✓ **Material:** carbon steel

✓ **Protective treatment:** hot dip galvanizing and external coating

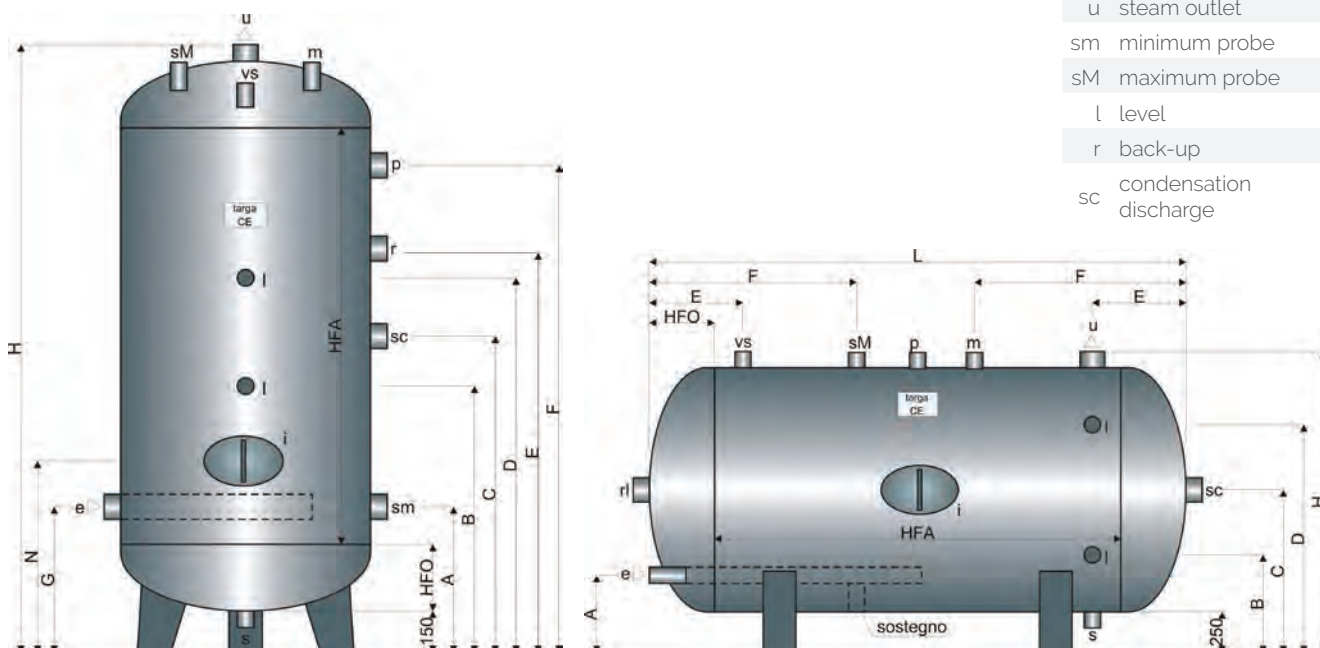
✓ **Covering:** on demand rock wool insulation with variable thickness and an external bush-hammered aluminium cover

✓ Operative conditions

The storage tanks have a max operating temperature from 10°C to the max temperatures, which vary in the versions

Coupling

s	discharge
vs	safety valve
m	manometer
p	pressostat
rl	level regulator
i	inspection
e	steam inlet
u	steam outlet
sm	minimum probe
sM	maximum probe
l	level
r	back-up
sc	condensation discharge



P.E.D. tested steam accumulator tanks

12 bar 200°C – AV series

Vertical

capacity l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	N mm	H mm	weight kg	e/u pn16	l pn16	sc sm/r inch	vs pn16	s inch	m/p sM inch	i mm
300	550	175	1000	445	695	825	955	1005	1205	445	475	1600	95	Dn40	Dn20	1	Dn25	1 1/4	1/2	100x150
500	650	200	1250	470	805	975	1145	1280	1480	470	500	1900	135	Dn40	Dn20	1	Dn25	1 1/4	1/2	100x150
1000	800	240	1700	590	1070	1240	1410	1690	1890	540	640	2430	270	Dn50	Dn20	1	Dn25	1 1/4	1/2	220x320
1500	950	280	1750	630	1135	1305	1475	1780	1980	580	680	2560	395	Dn65	Dn20	1	Dn40	1 1/4	1/2	220x320
2000	1100	320	1750	720	1175	1345	1515	1770	1970	620	720	2640	545	Dn65	Dn20	1	Dn40	1 1/4	1/2	220x320
3000	1250	360	2000	760	1340	1510	1680	2060	2260	670	760	2970	795	Dn65	Dn20	1	Dn50	1 1/4	1/2	220x320
4000	1400	410	2000	810	1390	1560	1730	2110	2310	800	810	3070	1132	Dn100	Dn20	1	Dn50	1 1/4	1/2	220x320
5000	1450	420	2500	820	1650	1820	1990	2620	2820	810	820	3590	1369	Dn150	Dn20	1	Dn50	1 1/4	1/2	220x320
6000	1450	420	3000	820	1900	2070	2240	3120	3320	810	820	4090	1590	Dn150	Dn20	1	Dn50	1 1/4	1/2	220x320
8000	1650	480	3000	880	1960	2130	2300	3180	3380	880	880	4210	1856	Dn150	Dn20	1	Dn65	1 1/4	1/2	220x320
9000	1650	480	3800	880	2360	2530	2700	3980	4180	880	880	5010	2190	Dn150	Dn20	1	Dn65	1 1/4	1/2	220x320
10000	1650	480	4000	880	2460	2630	2800	4180	4380	880	880	5210	2275	Dn150	Dn20	1	Dn65	1 1/4	1/2	220x320
15000	2000	570	4000	970	2515	2720	2925	4270	4470	990	1020	5390	2910	Dn150	Dn20	1	Dn65	1 1/4	1/2	300x400
20000	2000	570	5500	970	3265	3470	3675	5770	5970	990	1020	6890	3670	Dn150	Dn20	1	Dn65	1 1/4	1/2	300x400

Horizontal

capacità l	Ø mm	HFO mm	HFA mm	A mm	B mm	C mm	D mm	E mm	F mm	H mm	L mm	weight kg	e/u pn16	l pn16	sc/rl pollici	vs pn16	s pn16	m/p sM pollici	i mm
300	550	175	1000	380	395	525	655	295	475	900	1350	95	Dn40	Dn20	1	Dn25	Dn25	1/2	100x150
500	650	200	1250	395	445	575	705	320	625	1000	1650	135	Dn40	Dn20	1	Dn25	Dn25	1/2	100x150
1000	800	240	1700	440	480	650	820	440	890	1150	2180	270	Dn50	Dn20	1	Dn25	Dn25	1/2	220x320
1500	950	280	1750	495	555	725	895	480	955	1300	2310	395	Dn65	Dn20	1	Dn40	Dn25	1/2	220x320
2000	1100	320	1750	510	630	800	970	570	995	1450	2390	545	Dn65	Dn20	1	Dn40	Dn25	1/2	220x320
3000	1250	360	2000	525	705	875	1045	610	1080	1600	2720	795	Dn65	Dn20	1	Dn50	Dn25	1/2	220x320
4000	1400	410	2000	560	780	950	1120	660	1130	1750	2820	1132	Dn100	Dn20	1	Dn50	Dn25	1/2	220x320
5000	1450	420	2500	585	805	975	1145	670	1370	1800	3340	1369	Dn100	Dn20	1	Dn50	Dn25	1/2	220x320
6000	1450	420	3000	585	805	975	1145	670	1620	1800	3840	1590	Dn150	Dn20	1	Dn50	Dn25	1/2	220x320
8000	1650	480	3000	575	905	1075	1245	730	1670	2000	3960	1856	Dn150	Dn20	1	Dn65	Dn32	1/2	220x320
9000	1650	480	3800	575	905	1075	1245	730	1900	2000	4760	2190	Dn150	Dn20	1	Dn65	Dn32	1/2	220x320
10000	1650	480	4000	575	905	1075	1245	730	2000	2000	4960	2275	Dn150	Dn20	1	Dn65	Dn32	1/2	220x320
15000	2000	570	4000	700	1045	1250	1455	820	2090	2350	5140	2910	Dn150	Dn20	1	Dn65	Dn32	1/2	300x400
20000	2000	570	5500	700	1045	1250	1455	820	2840	2350	6640	3670	Dn150	Dn20	1	Dn65	Dn32	1/2	300x400

On demand: execution with customized dimensions

P.E.D. tested steam accumulator tanks

12 bar 200°C – AV series

PN 12 bar

Vertical			Horizontal		
Code	Description	Price	Code	Description	Price
869010001X	VERN 300L PED 12BAR 200°C VERT		869010016X	VERN 300L PED 12BAR 200°C ORIZZ	
869010002X	VERN 500L PED 12BAR 200°C VERT		869010017X	VERN 500L PED 12BAR 200°C ORIZZ	
869010003X	VERN 1000L PED 12BAR 200°C VERT		869010018X	VERN 1000L PED 12BAR 200°C ORIZZ	
869010004X	VERN 1500L PED 12BAR 200°C VERT		869010019X	VERN 1500L PED 12BAR 200°C ORIZZ	
869010005X	VERN 2000L PED 12BAR 200°C VERT		869010020X	VERN 2000L PED 12BAR 200°C ORIZZ	
869010006X	VERN 3000L PED 12BAR 200°C VERT		869010021X	VERN 3000L PED 12BAR 200°C ORIZZ	
869010007X	VERN 4000L PED 12BAR 200°C VERT		869010022X	VERN 4000L PED 12BAR 200°C ORIZZ	
869010008X	VERN 5000L PED 12BAR 200°C VERT		869010023X	VERN 5000L PED 12BAR 200°C ORIZZ	
869010009X	VERN 5000B L PED 12BAR 200°C VERT		869010024X	VERN 5000B L PED 12BAR 200°C ORIZZ	
869010010X	VERN 6000L PED 12BAR 200°C VERT		869010025X	VERN 6000L PED 12BAR 200°C ORIZZ	
869010011X	VERN 8000L PED 12BAR 200°C VERT	◆	869010026X	VERN 8000L PED 12BAR 200°C ORIZZ	◆
869010012X	VERN 9000L PED 12BAR 200°C VERT	◆	869010027X	VERN 9000L PED 12BAR 200°C ORIZZ	◆
869010013X	VERN 10000L PED 12BAR 200°C VERT	◆	869010028X	VERN 10000L PED 12BAR 200°C ORIZZ	◆
869010014X	VERN 15000L PED 12BAR 200°C VERT	◆	869010029X	VERN 15000L PED 12BAR 200°C ORIZZ	◆
869010015X	VERN 20000L PED 12BAR 200°C VERT	◆	869010030X	VERN 20000L PED 12BAR 200°C ORIZZ	◆

◆ Request quotations

Accessories for pressurized tanks

All tanks for autoclaves in the AC series and for compressed air in the AK and AP series are equipped with the following accessories:



P.E.D. tested safety valve

Can be installed on all tanks. They prevent the exceedance of the max operating pressure in the planned circumstances. There are various typologies. The designer of the installation should identify the model that is suitable. The selection depends on several factors, such as the max pressure and the discharge flow and is therefore closely connected to the typology of the installation and the causes that could ask for an intervention by the safety valve. All valves are supplied with a CE conformity certificate, emitted by an Notified Body and the installation of the valves is regulated by the national norms on the use of pressurized devices.

Test pressure in the tank		6 bar		7,84 bar		8 bar		11 bar		12 bar	
Calibrated pressure* (bar)		5,7	6	7,4	7,84	7,6	8	10,4	11	11,4	12
Coupling	1/2"	809230013	◆	809230012	◆	809230021	◆	809230008	◆	809230009	◆
	3/4"	809230017	◆	◆	◆	809230027	◆	809230030	◆	809230015	◆
	1"	809230031	◆	◆	◆	809230007	◆	809230001	◆	809230003	◆

◆ Models available on demand

* safety valve with different calibrated pressure available on demand



Manometer for detecting the pressure to which the vessel is subjected

	Scale* bar	Code
Manometer D 63 1/4"	0/10	822030022
	0/16	822030024

* Models with other scales available on demand



Tap for manometer

	Code
Tap for manometer 1/4"	809120021

Accessories for pressurized tanks

The following accessories are designed to be coupled with AC series tanks for autoclaves:



Visible level indicators

	Length tube m	Code
Kit visible level (needle valve + plexiglass tube)	1	822110003
	1,5	822110004
	2	822110004



Level switch with probe

	Code
Diameter 3/8"	822110060

Electric compressor for autoclaves

	Code
Power 0,75 kW - max prevalence 10 bar	822110060



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