

APPLICATION GUIDE



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DUCTABLE AIR TREATMENT UNIT

INALTO

2581 - 27851 W

381 - 5668 m³/h

INALTO-AGU-1801-E



www.lennoxemea.com



INALTO-H / INALTO-DS-H



INALTO-V / INALTO-DS-V



Unit type

Ductable air treatment unit

Structure

Single or double skin galvanized steel sheet

Fan group

Double-inlet centrifugal fans

Motor

Single-phase asynchronous
Synchronous EC Motor

Air filter

Filtering polyester fabric enclosed within a metal frame

Coil

Copper pipe into aluminium fins
in continuous block

Hydraulic connection

Left (when viewing the air supply)

Certification

Eurovent

Terminal board included

MODEL NUMBER DESCRIPTION

INALTO A 05 R H DS	
A	A = 3-speed AC fan E = EC fan
05	Size
R	Hydraulic connections R = Right / S = Left
H	H = Horizontal installation V = Vertical installation
DS	Double skin

UNIT DESCRIPTION

The ductable air treatment units are available in 2 versions and 7 sizes. Units are extremely suitable for small centralized conditioning systems connected by a small ducting network. The small height of these units, make them the convenient solution for false ceiling installation.

VERSIONS

INALTO A__ _ H	AC motor, horizontal installation, single skin version
INALTO E__ _ H	EC motor ,horizontal installation, single skin version
INALTO A__ _ V	AC motor, vertical installation, single skin version
INALTO E__ _ V	EC motor, vertical installation, single skin version
INALTO A__ _ H DS	AC motor, horizontal installation, double skin version
INALTO E__ _ H DS	EC motor ,horizontal installation, double skin version
INALTO A__ _ V DS	AC motor, vertical installation, double skin version
INALTO E__ _ V DS	EC motor, vertical installation, double skin version

STANDARD UNIT COMPOSITION

Structure

INALTO - STANDARD VERSION

Made of galvanized steel, it is insulated in all parts in direct contact with the conditioned air. Insulated condensate tray made of galvanised steel, complete with drain plug for complete drainage. Ceiling-anchoring slots for easy fixing and levelling of the unit.

INALTO DS - DOUBLE SKIN VERSION

Double skin panels 15 mm thickness in galvanized steel inside and in white pre-painted galvanized steel outside. Thermal and sound insulation with 35 kg/m³ density mineral wool.

Fan group

Double-inlet centrifugal fans with statically and dynamically balanced horizontally-oriented aluminium impellers. Single-phase asynchronous electric motor with overload cutout. 6 speeds of rotation (3 connected) or EC motor. The motor is directly coupled to the fans and cushioned with flexible mountings to ensure low noise.

Air filter

Filtering Polyester fabric enclosed within a metal frame to facilitate withdrawal and cleaning. Filtering rate of the standard model: EU3. Available with different filtering rate and thickness on request.

Coil

Coils are made of copper pipe expanded into aluminium fins. Copper headers with male fittings (GAS threads) and easily accessible air vents.

The water connections are located on the left (looking at the air outlet). On request, the water connections can be placed on the right side of the unit

MATTER OF SAVING AND RESPECT FOR THE ENVIRONMENT

The INALTO series can also be equipped with an innovative brushless synchronous motor controlled by a dedicated inverter board, which allows to modulate with accurate precision, the speed of the fan limiting the energy supply to the actual workload required, without unnecessary waste.

Compared to a unit with traditional asynchronous motor, the EC motor ensures an exceptional reduction of energy consumption by more than 75%, even during the operation at low rpm.

As well as bringing considerable savings in economic terms and relative decrease of CO₂ emissions in the environment, the series with EC motor is able to significantly improve the environmental comfort through constant modulation in air flow rate, with the benefit of an immediate and precise achievement of the thermal load required by the user and its maintenance throughout the day and greater noiselessness guaranteed by a targeted management of the number of revolutions.

PRINCIPLE OF OPERATION

In the EC motor the permanent magnet is secured to the crankshaft (motor), and the windings instead are fixed on the outer structure called the stator. The EC motors control board, with an appropriate electronic modulation of the voltage signals on the different windings, allows to create a rotating magnetic field that induces the motor in motion. A series of sensors provides the adjustment board the motor position, according to which this provides to electronically change the power on the windings, so as to correctly arrange the rotating magnetic field.

For this reason the EC motor is also defined Brushless, that is devoid of brushes: the ECM motor is not equipped with brushes and collector as instead are the DC motors.

LOOKING AT THE FUTURE

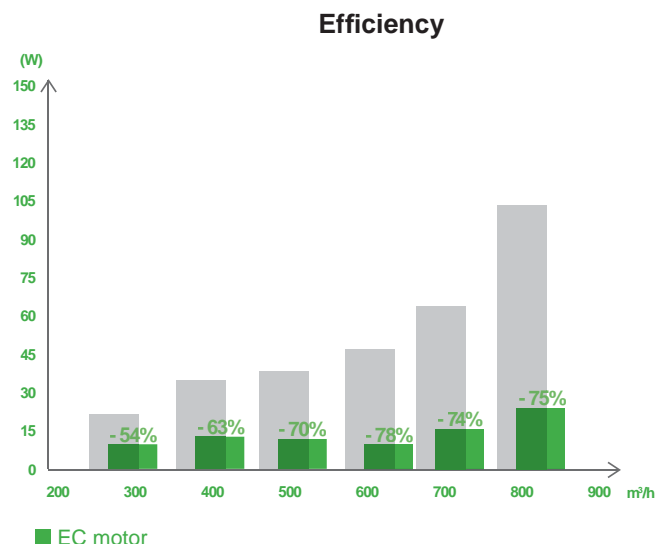
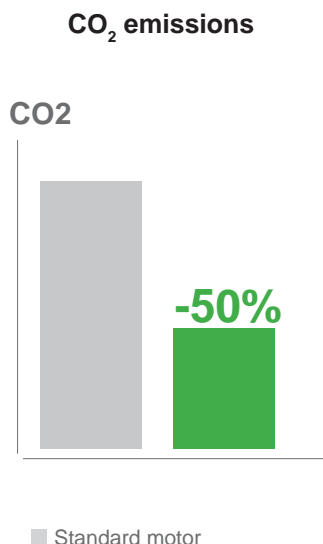
By this type of fan motors, the users can be personalise the speeds according to their request, by means of any control which can easily be designed.

This opens a new perspective to room air conditioning. In fact the fan coil manufacturer can program valves, motors and clutches by means of the same logic, with the result that the final user can get an optimised system of room conditioning with a low CO₂ impact. By using these type of motors, it is possible to satisfy the requirements of the “ecodesign” prescriptions suggested by Eurovent and is also in line with the future requirements, given a lower input power demand.

GENERAL FEATURES

EC motors are completely interchangeable with those of the already well known motors. Mechanical structure and cradles are in fact the same and the only difference is having replaced the transformer with the electronic control case.

Moreover, these motors have been designed to give a performance similar to the standard ones, but with the possibility of being used with a 0-10V control..



4 pipe system (4R+2 coil)

			INALTO 05	INALTO 11	INALTO 15	INALTO 25	INALTO 28	INALTO 49	INALTO 57	
COOLING MODE Water inlet temperature: 7°C Water outlet temperature: 12°C Air inlet temperature: 27°C DB - 19°C WB	Total cooling capacity	W	MAX	3010	5728	8786	10924	14511	23350	26171
		MED	2896	5634	7725	8970	13009	21768	23958	
		MIN	2662	5408	6896	6550	11620	17549	21520	
	Sensible cooling capacity	W	MAX	2136	4138	6326	7864	10581	17320	19401
		MED	2047	4064	5505	6370	9389	16038	17608	
		MIN	1876	3888	4876	4590	8320	12689	15650	
	Water flow rate	l/h	MAX	536	1009	1551	1934	2589	4167	4687
		MED	513	991	1363	1586	2318	3878	4282	
		MIN	471	952	1217	1158	2071	3117	3845	
	Water pressure drop	kPa	MAX	9,9	13,3	17,8	17	19,5	20,2	26,4
		MED	9,1	12,9	14,2	12	16,1	18,4	22,2	
		MIN	7,9	12	11,6	6,9	13,2	12,1	18,8	
HEATING MODE T _{Air} temp.: 20°C Water inlet temperature: 65/55°C	Heating capacity	W	MAX	4080	7580	11380	14170	19040	31190	34360
		MED	3930	7460	10070	11760	17130	29080	31460	
		MIN	3660	7180	9080	8770	15400	23600	28360	
	Water flow	l/h	MAX	358	665	997	1242	1669	2735	3012
		MED	345	654	883	1031	1502	2550	2758	
		MIN	321	630	797	769	1351	2069	2486	
	Water pressure drop	kPa	MAX	12,7	16,6	11,4	7,9	15,2	33,5	22,8
		MED	11,9	16,1	9,2	5,7	12,7	29,6	19,6	
		MIN	10,5	15,1	7,7	3,4	10,5	20,5	16,3	
HEATING MODE Air temp.: 20°C Water inlet temperature: 70/60°C	Heating capacity	W	MAX	4610	8560	12860	16030	21520	35230	38850
		MED	4430	8420	11380	13300	19360	32840	35570	
		MIN	4130	8110	10260	9910	17410	26640	32050	
	Water flow rate	l/h	MAX	405	752	1130	1408	1890	3095	3413
		MED	390	740	1000	1169	1702	2885	3124	
		MIN	362	712	901	870	1529	2341	2815	
	Water pressure drop	kPa	MAX	15,5	20,3	13,9	9,6	18,6	40,8	27,9
		MED	14,5	19,7	11,2	6,9	15,5	36,1	23,9	
		MIN	12,7	18,4	9,4	4,1	12,8	25	19,9	

In case of AC motor, the MIN/MED/MAX speeds are the wired speeds among the 6 available on the motor.

In case of EC motor, the MIN/MED/MAX speeds are the EUROVENT tested speeds.

Standard unit with free outlet: external static pressure = 0 Pa

Sound power level: ISO 23741

Sound pressure level: 8,6 dB(A) lower that the sound power level for a room of 90 m³ with a reverberation time of 0,5 sec.

Supported power supply: ~230V / 1ph / 50-60Hz

4 pipe system (4R+2 coil)			INALTO 05	INALTO 11	INALTO 15	INALTO 25	INALTO 28	INALTO 49	INALTO 57
Airflow rate	m³/h	MAX	484	966	1478	1868	2651	4598	5187
		MED	459	944	1245	1437	2275	4144	4548
		MIN	369	894	1079	963	1956	3062	3904
Static pressure	Pa	MAX	57	55	73	88	72	63	72
		MED	50	50	50	50	50	50	50
		MIN	39	44	37	22	37	26	37
INALTO SINGLE SKIN UNIT	Sound power level inlet + radiated	MAX	62	68	63	66	70	72	74
		MED	60	67	59	58	67	69	70
		MIN	56	67	55	55	63	61	66
	Sound power level outlet	MAX	61	65	66	67	71	74	75
		MED	59	64	60	59	66	70	69
		MIN	55	64	54	56	62	61	65
	Sound pressure level inlet + radiated	MAX	53	59	54	57	61	63	65
		MED	51	58	50	49	58	60	61
		MIN	47	58	46	46	54	52	57
	Sound pressure level outlet	MAX	52	56	57	58	62	65	66
		MED	50	55	51	50	57	61	60
		MIN	46	55	45	47	53	52	56
INALTO-DS DOUBLE SKIN UNIT	Sound power level inlet + radiated	MAX	61	64	66	67	71	74	75
		MED	59	63	60	58	66	70	69
		MIN	55	64	57	53	62	61	65
	Sound power level outlet	MAX	61	64	66	67	71	74	75
		MED	59	63	60	58	66	70	69
		MIN	55	64	57	53	62	61	65
	Sound pressure level inlet + radiated	MAX	52	55	57	58	62	65	66
		MED	50	54	51	49	57	61	60
		MIN	46	55	48	44	53	52	56
	Sound pressure level outlet	MAX	52	55	57	58	62	65	66
		MED	50	54	51	49	57	61	60
		MIN	46	55	48	44	53	52	56

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		MED	51	58	50	49	58	60	61
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		MIN	55	64	57	53	62	61	65
	Sound pressure level inlet + radiated	MAX	52	55	57	58	62	65	66
		MED	50	54	51	49	57	61	60
		MIN	46	55	48	44	53	52	56
	Sound pressure level outlet	MAX	52	55	57	58	62	65	66
		MED	50	54	51	49	57	61	60
		MIN	46	55	48	44	53	52	56

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Supported power supply: ~230V / 1ph / 50-60Hz

STANDARD MOTOR			INALTO 05	INALTO 11	INALTO 15	INALTO 25	INALTO 28	INALTO 49	INALTO 57	
Power input	(E)	W	MAX	94	132	224	346	529	860	1059
		MED	82	126	195	270	461	762	922	
		MIN	73	122	174	200	410	561	820	
Absorbed current	A	MAX	0,45	0,64	1,08	1,67	2,56	4,15	5,11	
		MED	0,4	0,61	0,94	1,29	2,23	3,68	4,46	
		MIN	0,35	0,59	0,84	0,95	1,98	2,71	3,96	
Power input			~230V / 1ph / 50Hz							

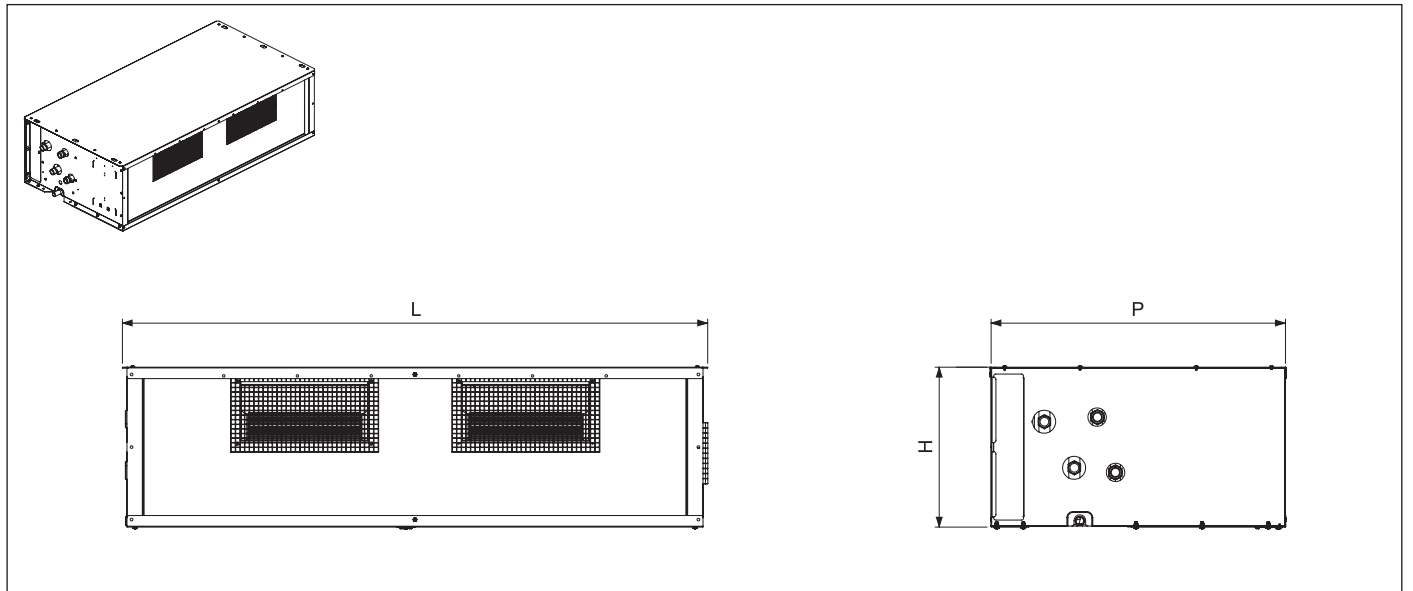
EC MOTOR			INALTO 05	INALTO 11	INALTO 15	INALTO 25	INALTO 28	INALTO 49	INALTO 57
Power input	W	MAX	69	108	158	237	386	639	773
		MED	58	96	100	113	232	464	464
		MIN	42	82	70	52	155	206	309
Absorbed current	A	MAX	0,52	0,87	1,16	1,13	1,75	2,93	3,5
		MED	0,48	0,75	0,71	0,65	1,18	2,27	2,37
		MIN	0,37	0,63	0,52	0,41	0,82	1,24	1,65
Input voltage regulation	V	MAX	6,9	8,2	7	7,3	6,5	7,8	6,5
		MED	6	7,6	5,2	4,5	5,1	6,5	5,1
		MIN	4,3	6,7	4,1	2	4	3,9	4
Power input			~230V / 1ph / 50Hz						

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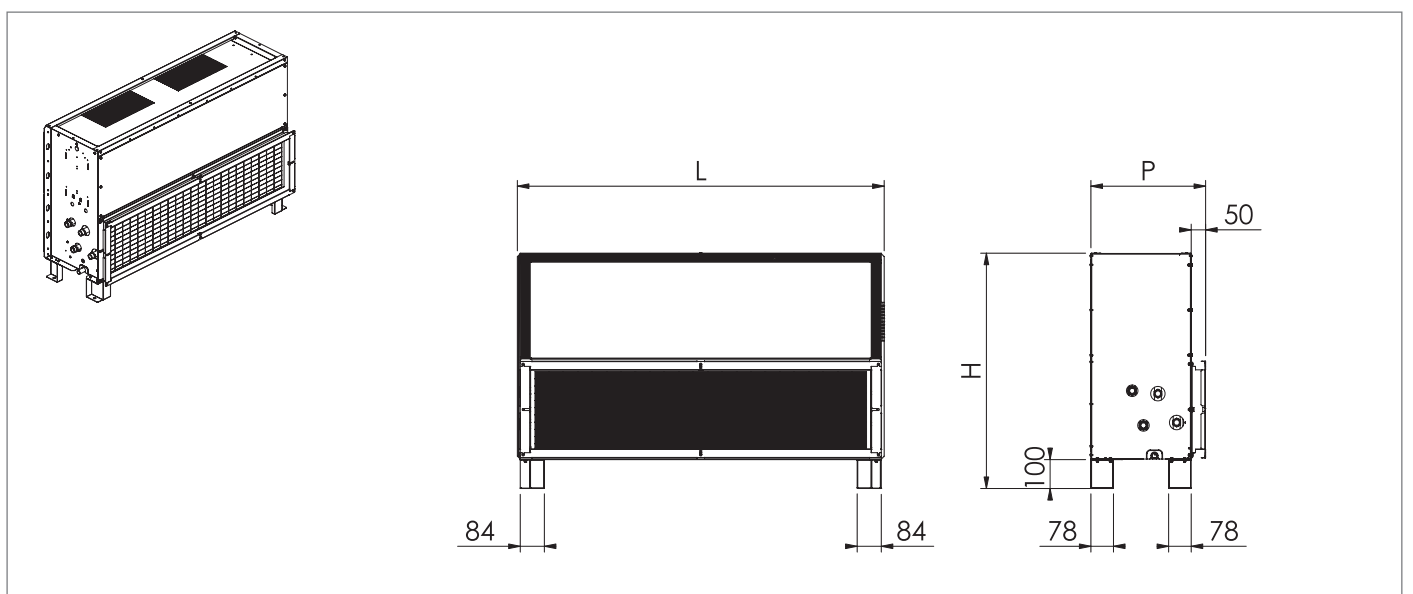
HORIZONTAL UNIT

INALTO			SINGLE SKIN						DOUBLE SKIN							
			05	11	15	25	28	49	57	05	11	15	25	28	49	57
Lenght	L	mm	770	1070	1270	1420	1520	2190	2190	793	1093	1293	1443	1543	2233	2233
Height	H		297	297	347	372	397	373	398	325	325	375	400	425	401	426
Depth	P		643	643	643	770	770	770	770	643	643	643	770	770	770	770
Number of fans			2	2	2	2	2	4	4	2	2	2	2	2	4	4

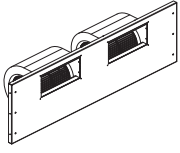
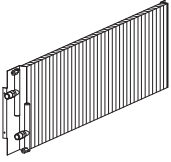
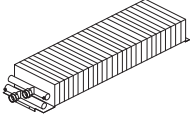
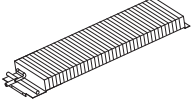
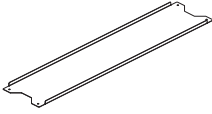
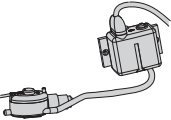
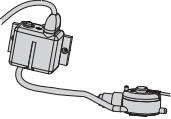


VERTICAL UNIT

INALTO			SINGLE SKIN						DOUBLE SKIN							
			05	11	15	25	28	49	57	05	11	15	25	28	49	57
Lenght	L	mm	770	1070	1270	1420	1520	2190	2190	793	1093	1293	1443	1543	2213	2213
Height	H		740	740	815	890	915	891	916	754	754	829	904	929	905	930
Depth	P		347	347	397	422	447	423	448	367	367	417	442	467	443	468
Number of fans			2	2	2	2	2	4	4	2	2	2	2	2	4	4



ACCESSORIES INSTALLED

		Size	Technical data			
	Special motor with fail contact	INALTO 05	230 V	1 Ph	50-60 Hz	
		INALTO 11				
		INALTO 15				
		INALTO 25				
		INALTO 28				
		INALTO 49				
		INALTO 57				
	2 rows auxiliary coil for 4 pipe system	INALTO 05	4610 W			
		INALTO 11	8560 W			
		INALTO 15	12860 W			
		INALTO 25	16000 W (70/60°C)			
		INALTO 28	21520 W			
		INALTO 49	35230 W			
		INALTO 57	38850 W			
	6 rows coil Technical data: PC (W) 7-12°C (cooling) PH (W) 50°C (heating) Calculated at 6th speed	INALTO 05	6R 5NC	PC 3650 W	PH 4150 W	
		INALTO 11	6R 7NC	PC 7750 W	PH 9090 W	
		INALTO 15	6R 11NC	PC 11870 W	PH 14090 W	
		INALTO 25	6R 13NC	PC 15600 W	PH 18490 W	
		INALTO 28	6R 15NC	PC 20100 W	PH 24180 W	
		INALTO 49	6R 22NC	PC 32970 W	PH 40820 W	
		INALTO 57	6R 24NC	PC 36270 W	PH 45130 W	
	Direct expansion coil - R410A Only for units with left hydraulic connections Evaporation temperature: 5°C Overheating: 5°C Condensation temperature: 45°C Sub-cooling: 10°C Air temperature: 27°C Relative humidity: 47°C Calculated at 6th speed	INALTO 05	4R 2NC	PC 4930 W		
		INALTO 11	4R 4NC	PC 9490 W		
		INALTO 15	4R 5NC	PC 14500 W		
		INALTO 25	4R 6NC	PC 20500 W		
		INALTO 28	4R 8NC	PC 23900 W		
		INALTO 49	4R 12NC	PC 37500 W		
		INALTO 57	4R 12NC	PC 42200 W		
	Drain pan cover panel	INALTO 05	750 x 220 mm			
		INALTO 11	1050 x 220 mm			
		INALTO 15	1250 x 220 mm			
		INALTO 25	1400 x 220 mm			
		INALTO 28	1500 x 220 mm			
		INALTO 49-7	2170 x 220 mm			
	Condensate drain pump kit for unit with left water connections	INALTO 05	10 l/h 3 l/h	(0 m.c.a.) (7 m.c.a.)		
		INALTO 11				
		INALTO 15				
		INALTO 25		500 l/h 100 l/h	(0 m.c.a.) (5 m.c.a.)	
		INALTO 28				
		INALTO 49				
INALTO 57						
	Condensate water pump kit for unit with right water connections	INALTO 05	10 l/h 3 l/h	(0 m.c.a.) (7 m.c.a.)		
		INALTO 11				
		INALTO 15				
		INALTO 25		500 l/h 100 l/h	(0 m.c.a.) (5 m.c.a.)	
		INALTO 28				
		INALTO 49				
INALTO 57						

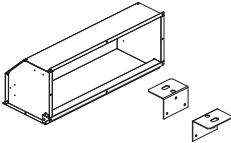
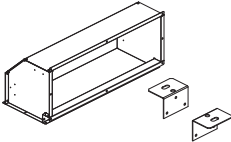
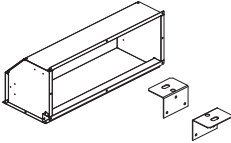
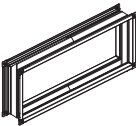
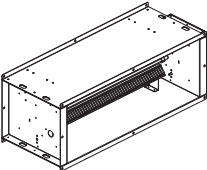
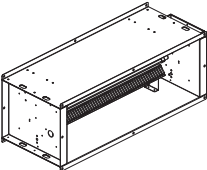
ACCESSORIES INSTALLED

		Size	Technical data
	Air filter (filtration grade: G3) Thickness: 25 mm	INALTO 05	678 x 25 x (H)245 mm (1 pc)
		INALTO 11	978 x 25 x (H)245 mm (1 pc)
		INALTO 15	1178 x 25 x (H)295 mm (1 pc)
		INALTO 25	1328 x 25 x (H)320 mm (1 pc)
		INALTO 28	1428 x 25 x (H)345 mm (1 pc)
	Air filter (filtration grade: G3) Thickness: 48 mm	INALTO 05	678 x 48 x (H)245 mm (1 pc)
		INALTO 11	978 x 48 x (H)245 mm (1 pc)
		INALTO 15	1178 x 48 x (H)295 mm (1 pc)
		INALTO 25	1328 x 48 x (H)320 mm (1 pc)
		INALTO 28	1428 x 48 x (H)345 mm (1 pc)
	Air filter (filtration grade: G4) Thickness: 48 mm	INALTO 05	678 x 48 x (H)245 mm (1 pc)
		INALTO 11	978 x 48 x (H)245 mm (1 pc)
		INALTO 15	1178 x 48 x (H)295 mm (1 pc)
		INALTO 25	1328 x 48 x (H)320 mm (1 pc)
		INALTO 28	1428 x 48 x (H)345 mm (1 pc)
		INALTO 49	1049 x 48 x (H)320 mm (2 pcs)
		INALTO 57	1049 x 48 x (H)345 mm (2 pcs)

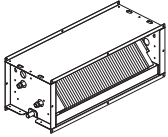
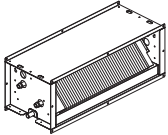
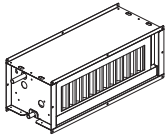
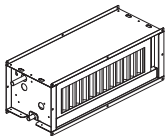
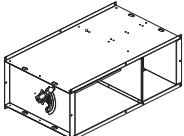
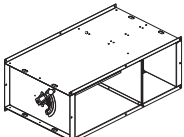
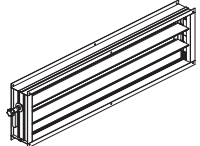
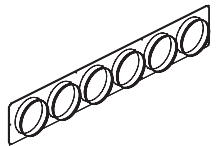
ACCESSORIES NOT INSTALLED

		Size	Technical data
	Auxiliary drain pan	INALTO 05-3	-
		INALTO 25-7	-
	Straight intake plenum Ceiling fixing kit included Single skin unit	PAM 1	INALTO 05 750 x 200 x (H)283 mm
		PAM 2	INALTO 11 1050 x 200 x (H)283 mm
		PAM 3	INALTO 15 1250 x 200 x (H)333 mm
		PAM 4	INALTO 25 1400 x 200 x (H)358 mm
		PAM 5	INALTO 28 1500 x 200 x (H)383 mm
		PAM 6	INALTO 49 2170 x 200 x (H)358 mm
		PAM 7	INALTO 57 2170 x 200 x (H)383 mm
	Straight intake plenum Ceiling fixing kit included Double skin unit	PAM-DS 1	INALTO 05 773 x 200 x (H)301 mm
		PAM-DS 2	INALTO 11 1073 x 200 x (H)301 mm
		PAM-DS 3	INALTO 15 1273 x 200 x (H)351 mm
		PAM-DS 4	INALTO 25 1423 x 200 x (H)376 mm
		PAM-DS 5	INALTO 28 1523 x 200 x (H)401 mm
		PAM-DS 6	INALTO 49 2193 x 200 x (H)376 mm
		PAM-DS 7	INALTO 57 2193 x 200 x (H)401 mm
	Straight supply plenum - insulated Ceiling fixing kit included Single skin unit	PAM 1	INALTO 05 750 x 200 x (H)283 mm
		PAM 2	INALTO 11 1050 x 200 x (H)283 mm
		PAM 3	INALTO 15 1250 x 200 x (H)333 mm
		PAM 4	INALTO 25 1400 x 200 x (H)358 mm
		PAM 5	INALTO 28 1500 x 200 x (H)383 mm
		PAM 6	INALTO 49 2170 x 200 x (H)358 mm
		PAM 7	INALTO 57 2170 x 200 x (H)383 mm
	Straight supply plenum - insulated Ceiling fixing kit included Double skin unit	PAM-DS 1	INALTO 05 773 x 200 x (H)301 mm
		PAM-DS 2	INALTO 11 1073 x 200 x (H)301 mm
		PAM-DS 3	INALTO 15 1273 x 200 x (H)351 mm
		PAM-DS 4	INALTO 25 1423 x 200 x (H)376 mm
		PAM-DS 5	INALTO 28 1523 x 200 x (H)401 mm
		PAM-DS 6	INALTO 49 2193 x 200 x (H)376 mm
		PAM-DS 7	INALTO 57 2193 x 200 x (H)401 mm
	90° intake plenum Ceiling fixing kit included Single skin unit	RAM 1	INALTO 05 750 x 308 x 308 mm
		RAM 2	INALTO 11 1050 x 308 x 308 mm
		RAM 3	INALTO 15 1250 x 358 x 358 mm
		RAM 4	INALTO 25 1400 x 383 x 383 mm
		RAM 5	INALTO 28 1500 x 408 x 408 mm
		RAM 6	INALTO 49 2170 x 383 x 383 mm
		RAM 7	INALTO 57 2170 x 408 x 408 mm

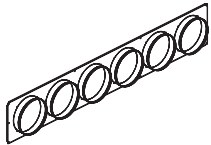
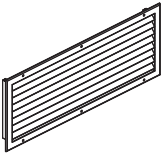
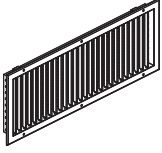
ACCESSORIES NOT INSTALLED

		Size	Technical data
 <p>90° intake plenum Ceiling fixing kit included Double skin unit</p>	RAM-DS 1	INALTO 05	773 x 327 x 327 mm
	RAM-DS 2	INALTO 11	1073 x 327 x 327 mm
	RAM-DS 3	INALTO 15	1273 x 377 x 377 mm
	RAM-DS 4	INALTO 25	1423 x 402 x 402 mm
	RAM-DS 5	INALTO 28	1523 x 427 x 427 mm
	RAM-DS 6	INALTO 49	2193 x 402 x 402 mm
	RAM-DS 7	INALTO 57	2193 x 427 x 427 mm
 <p>90° supply plenum - insulated Ceiling fixing kit included Single skin unit</p>	RAM 1	INALTO 05	750 x 308 x 308 mm
	RAM 2	INALTO 11	1050 x 308 x 308 mm
	RAM 3	INALTO 15	1250 x 358 x 358 mm
	RAM 4	INALTO 25	1400 x 383 x 383 mm
	RAM 5	INALTO 28	1500 x 408 x 408 mm
	RAM 6	INALTO 49	2170 x 383 x 383 mm
	RAM 7	INALTO 57	2170 x 408 x 408 mm
 <p>90° supply plenum - insulated Ceiling fixing kit included Double skin unit</p>	RAM-DS 1	INALTO 05	773 x 327 x 327 mm
	RAM-DS 2	INALTO 11	1073 x 327 x 327 mm
	RAM-DS 3	INALTO 15	1273 x 377 x 377 mm
	RAM-DS 4	INALTO 25	1423 x 402 x 402 mm
	RAM-DS 5	INALTO 28	1523 x 427 x 427 mm
	RAM-DS 6	INALTO 49	2193 x 402 x 402 mm
	RAM-DS 7	INALTO 57	2193 x 427 x 427 mm
 <p>Intake/supply antivibrating joint</p>	GAM 1	INALTO 05	753 x 90÷110 x (H)288 mm
	GAM 2	INALTO 11	1053 x 90÷110 x (H)288 mm
	GAM 3	INALTO 15	1253 x 90÷110 x (H)338 mm
	GAM 4	INALTO 25	1403 x 90÷110 x (H)363 mm
	GAM 5	INALTO 28	1503 x 90÷110 x (H)388 mm
	GAM 6	INALTO 49	2173 x 90÷110 x (H)363 mm
	GAM 7	INALTO 57	2173 x 90÷110 x (H)388 mm
 <p>Heating section with electric heater Single skin unit</p>	SRE 1-A	INALTO 05	750 x 300 x (H)283 mm / 4500 W
	SRE 2-A	INALTO 11	1050 x 300 x (H)283 mm / 7500 W
	SRE 3-A	INALTO 15	1250 x 300 x (H)333 mm / 7500 W
	SRE 4-A	INALTO 25	1400 x 300 x (H)358 mm / 9000 W
	SRE 5-A	INALTO 28	1500 x 300 x (H)383 mm / 9000 W
	SRE 6-A	INALTO 49	2170 x 300 x (H)358 mm / 15000 W
	SRE 7-A	INALTO 57	2170 x 300 x (H)383 mm / 15000 W
	SRE 1-B	INALTO 05	750 x 300 x (H)283 mm / 6000 W
	SRE 2-B	INALTO 11	1050 x 300 x (H)283 mm / 9600 W
	SRE 3-B	INALTO 15	1250 x 300 x (H)333 mm / 9600 W
	SRE 4-B	INALTO 25	1400 x 300 x (H)358 mm / 12000 W
	SRE 5-B	INALTO 28	1500 x 300 x (H)383 mm / 12000 W
	SRE 6-B	INALTO 49	2170 x 300 x (H)358 mm / 19200 W
	SRE 7-B	INALTO 57	2170 x 300 x (H)383 mm / 19200 W
 <p>Heating section with electric heater Double skin unit</p>	SRE-DS 1-A	INALTO 05	773 x 300 x (H)301 mm / 4500 W
	SRE-DS 2-A	INALTO 11	1073 x 300 x (H)301 mm / 7500 W
	SRE-DS 3-A	INALTO 15	1273 x 300 x (H)351 mm / 7500 W
	SRE-DS 4-A	INALTO 25	1423 x 300 x (H)376 mm / 9000 W
	SRE-DS 5-A	INALTO 28	1523 x 300 x (H)401 mm / 9000 W
	SRE-DS 6-A	INALTO 49	2193 x 300 x (H)376 mm / 15000 W
	SRE-DS 7-A	INALTO 57	2193 x 300 x (H)401 mm / 15000 W
	SRE-DS 1-B	INALTO 05	773 x 300 x (H)301 mm / 6000 W
	SRE-DS 2-B	INALTO 11	1073 x 300 x (H)301 mm / 9600 W
	SRE-DS 3-B	INALTO 15	1273 x 300 x (H)351 mm / 9600 W
	SRE-DS 4-B	INALTO 25	1423 x 300 x (H)376 mm / 12000 W
	SRE-DS 5-B	INALTO 28	1523 x 300 x (H)401 mm / 12000 W
	SRE-DS 6-B	INALTO 49	2193 x 300 x (H)376 mm / 19200 W
	SRE-DS 7-B	INALTO 57	2193 x 300 x (H)401 mm / 19200 W

ACCESSORIES NOT INSTALLED

			Size	Technical data
	Re-heating/cooling section with water coil Single skin unit	SRA 1	INALTO 05	750 x 300 x (H)283 mm
		SRA 2	INALTO 11	1050 x 300 x (H)283 mm
		SRA 3	INALTO 15	1250 x 300 x (H)333 mm
		SRA 4	INALTO 25	1400 x 300 x (H)358 mm
		SRA 5	INALTO 28	1500 x 300 x (H)383 mm
		SRA 6	INALTO 49	2170 x 300 x (H)358 mm
		SRA 7	INALTO 57	2170 x 300 x (H)383 mm
	Re-heating/cooling section with water coil Double skin unit	SRA-DS 1	INALTO 05	773 x 300 x (H)301 mm
		SRA-DS 2	INALTO 11	1073 x 300 x (H)301 mm
		SRA-DS 3	INALTO 15	1273 x 300 x (H)351 mm
		SRA-DS 4	INALTO 25	1423 x 300 x (H)376 mm
		SRA-DS 5	INALTO 28	1523 x 300 x (H)401 mm
		SRA-DS 6	INALTO 49	2193 x 300 x (H)376 mm
		SRA-DS 7	INALTO 57	2193 x 300 x (H)401 mm
	Humidification section with drop separator Single skin unit	USG 1	INALTO 05	750 x 300 x (H)283 mm
		USG 2	INALTO 11	1050 x 300 x (H)283 mm
		USG 3	INALTO 15	1250 x 300 x (H)333 mm
		USG 4	INALTO 25	1400 x 300 x (H)358 mm
		USG 5	INALTO 28	1500 x 300 x (H)383 mm
		USG 6	INALTO 49	2170 x 300 x (H)358 mm
		USG 7	INALTO 57	2170 x 300 x (H)383 mm
	Humidification section with drop separator Double skin unit	USG-DS 1	INALTO 05	773 x 300 x (H)301 mm
		USG-DS 2	INALTO 11	1073 x 300 x (H)301 mm
		USG-DS 3	INALTO 15	1273 x 300 x (H)351 mm
		USG-DS 4	INALTO 25	1423 x 300 x (H)376 mm
		USG-DS 5	INALTO 28	1523 x 300 x (H)401 mm
		USG-DS 6	INALTO 49	2193 x 300 x (H)376 mm
		USG-DS 7	INALTO 57	2193 x 300 x (H)401 mm
	Air lower section (manual) Single skin unit	SSP 1	INALTO 05	750 x 440 x (H)283 mm
		SSP 2	INALTO 11	1050 x 440 x (H)283 mm
		SSP 3	INALTO 15	1250 x 440 x (H)333 mm
		SSP 4	INALTO 25	1400 x 440 x (H)358 mm
		SSP 5	INALTO 28	1500 x 440 x (H)383 mm
		SSP 6	INALTO 49	2170 x 440 x (H)358 mm
		SSP 7	INALTO 57	2170 x 440 x (H)383 mm
	Air lower section (manual) Double skin unit	SSP-DS 1	INALTO 05	773 x 440 x (H)301 mm
		SSP-DS 2	INALTO 11	1073 x 440 x (H)301 mm
		SSP-DS 3	INALTO 15	1273 x 440 x (H)351 mm
		SSP-DS 4	INALTO 25	1423 x 440 x (H)376 mm
		SSP-DS 5	INALTO 28	1523 x 440 x (H)401 mm
		SSP-DS 6	INALTO 49	2193 x 440 x (H)376 mm
		SSP-DS 7	INALTO 57	2193 x 440 x (H)401 mm
	Aluminium damper	INALTO 05	INALTO 05	760 x 125 x (H)295 mm
		INALTO 11	INALTO 11	1060 x 125 x (H)295 mm
		INALTO 15	INALTO 15	1260 x 125 x (H)345 mm
		INALTO 25	INALTO 25	1410 x 125 x (H)370 mm
		INALTO 28	INALTO 28	1510 x 125 x (H)395 mm
		INALTO 49	INALTO 49	2180 x 125 x (H)370 mm
		INALTO 57	INALTO 57	2180 x 125 x (H)395 mm
	Intake section with circular spigots	BAM 1	INALTO 05	n° 2 x Ø 200
		BAM 2	INALTO 11	n° 3 x Ø 200
		BAM 3	INALTO 15	n° 4 x Ø 200
		BAM 4	INALTO 25	n° 3 x Ø 300
		BAM 5	INALTO 28	n° 4 x Ø 300
		BAM 6	INALTO 49	n° 6 x Ø 300
		BAM 7	INALTO 57	n° 6 x Ø 300

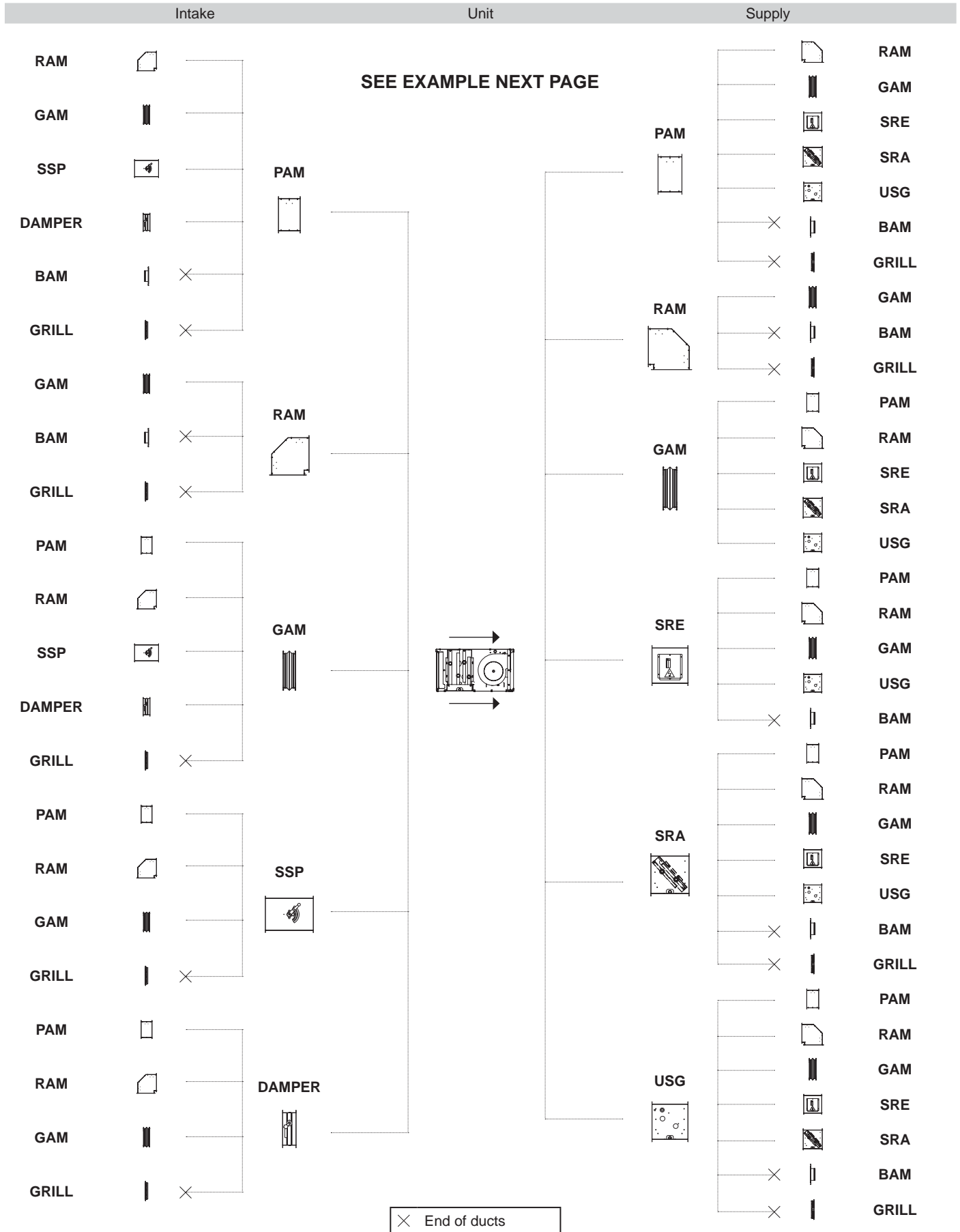
ACCESSORIES NOT INSTALLED

		Size	Technical data
 <p>Supply section with circular spigots - insulated</p>	BAM 1	INALTO 05	n° 2 x Ø 200
	BAM 2	INALTO 11	n° 3 x Ø 200
	BAM 3	INALTO 15	n° 4 x Ø 200
	BAM 4	INALTO 25	n° 3 x Ø 300
	BAM 5	INALTO 28	n° 4 x Ø 300
	BAM 6	INALTO 49	n° 6 x Ø 300
	BAM 7	INALTO 57	n° 6 x Ø 300
 <p>Fix intake grill with filter</p>	INALTO 05	INALTO 05	748 x 6 x (H)283 mm
	INALTO 11	INALTO 11	1048 x 6 x (H)283 mm
	INALTO 15	INALTO 15	1248 x 6 x (H)333 mm
	INALTO 25	INALTO 25	1398 x 6 x (H)358 mm
	INALTO 28	INALTO 28	1498 x 6 x (H)383 mm
	INALTO 49	INALTO 49	2168 x 6 x (H)358 mm
	INALTO 57	INALTO 57	2168 x 6 x (H)383 mm
 <p>Adjustable supply grill</p>	INALTO 05	INALTO 05	748 x 6 x (H)283 mm
	INALTO 11	INALTO 11	1048 x 6 x (H)283 mm
	INALTO 15	INALTO 15	1248 x 6 x (H)333 mm
	INALTO 25	INALTO 25	1398 x 6 x (H)358 mm
	INALTO 28	INALTO 28	1498 x 6 x (H)383 mm
	INALTO 49	INALTO 49	2168 x 6 x (H)358 mm
	INALTO 57	INALTO 57	2168 x 6 x (H)383 mm

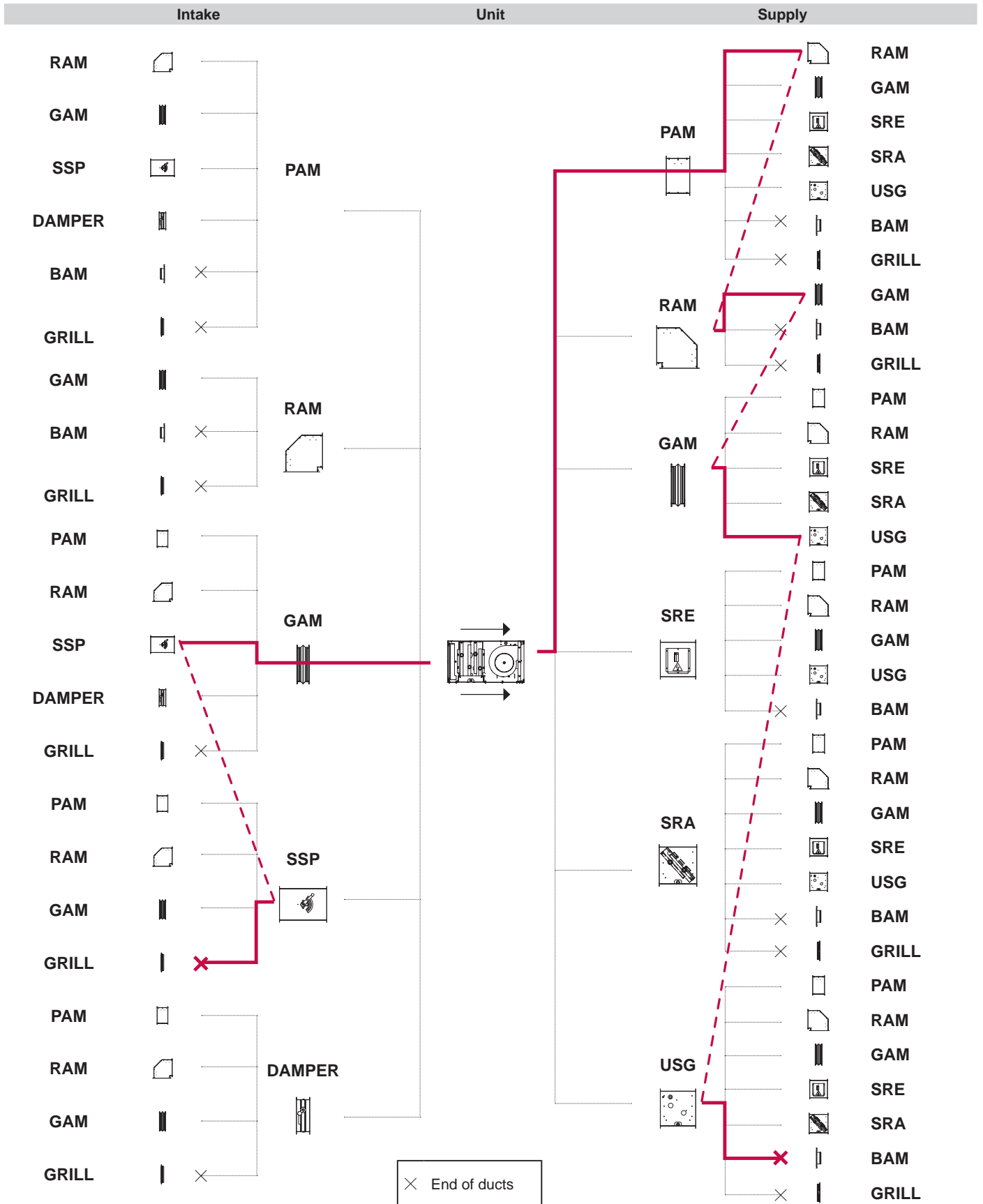
DUCTING ACCESSORIES COMPATIBILITY

ACCESSORIES		INALTO	PAM	RAM	GAM	SRE	SRA	USG	SSP	ALUMINIUM DAMPER	BAM	INTAKE GRILL	SUPPLY GRILL
	INALTO		✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
	PAM	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	RAM	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
	GAM	✓	✓	✓		✓	✓	✓	✗	✗	✗	✗	✗
	SRE	✓	✓	✓	✓		✓	✓	✗	✗	✗	✗	✗
	SRA	✓	✓	✓	✓	✓		✓	✗	✗	✗	✗	✗
	USG	✓	✓	✓	✓	✓	✓		✗	✗	✓	✗	✗
	SSP	✓	✓	✓	✓	✗	✗	✗		✗	✓	✗	✗
	ALUMINIUM DAMPER	✓	✓	✓	✓	✗	✗	✗	✗		✗	✗	✗
	BAM	✗	✓	✓	✗	✗	✗	✓	✓	✗			✗
	INTAKE GRILL	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗		✗
	SUPPLY GRILL	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	

ASSEMBLY SEQUENCE GUIDE



EXAMPLE



Kit valves (not fitted), including : valve + actuator + shut off valve + balancing valve
2 way valve for main coil

2 way valve kit + motor 1/230V On/Off - Main 4-rows coil

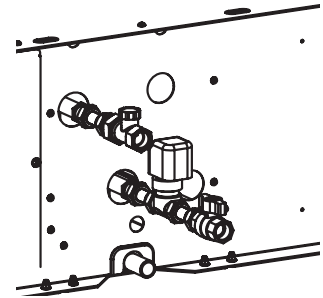
2 way valve kit + motor 1/230V On/Off - Main 6-rows coil

2 way valve kit + motor 3 points 24V - Main 4-rows coil

2 way valve kit + motor 3 points 24V - Main 6-rows coil

2 way valve kit + modulating 0-10V motor 24V

2 way valve kit + modulating 0-10V motor 24V - Main 6-rows coil


3 way valve for main coil

3 way valve kit + motor 1/230V On/Off - Main 4-rows coil

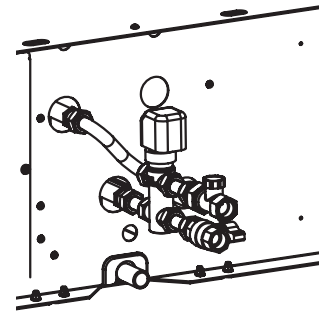
3 way valve kit + motor 1/230V On/Off - Main 6-rows coil

3 way valve kit + motor 3 points 24V - Main 4-rows coil

3 way valve kit + motor 3 points 24V - Main 6-rows coil

3 way valve + modulating 0-10V motor 24V - Main 4-rows coil

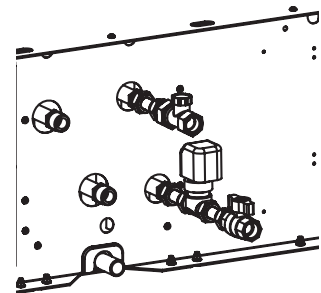
3 way valve + modulating 0-10V motor 24V - Main 6-rows coil


2 way valve for auxiliary coil

2 way valve + motors 1/230V On/Off - auxiliary coil

2 way valve + motor 3 points 24V - auxiliary coil

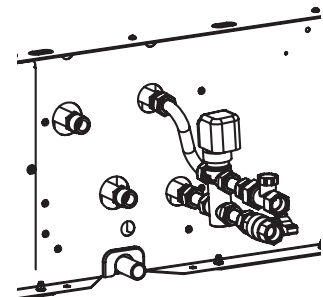
2 way valve + modulating 0-10V motor 24V - auxiliary coil


3 way valve for auxiliary coil

3 way valve + motors 1/230V On/Off - auxiliary coil

3 way valve + motor 3 points 24V - auxiliary coil

3 way valve + modulating 0-10V motor 24V - auxiliary coil



CONNECTION COILS DIAMETER

	INALTO 05	INALTO 11	INALTO 15	INALTO 25	INALTO 28	INALTO 49	INALTO 57
2 row auxiliary coil	1/2"	1/2"	3/4"	3/4"	1"	1"	1"
4 row coil	1/2"	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2
6 row coil	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2

CONNECTION VALVES DIAMETER

	INALTO 05	INALTO 11	INALTO 15	INALTO 25	INALTO 28	INALTO 49	INALTO 57
2 row auxiliary coil	1/2"	1/2"	3/4" kvs 4,0	1"	1"	1" kvs 9,6	1" kvs 9,6
4 row coil	1/2"	3/4"	3/4" kvs 4,0	1"	1"	1" kvs 9,6	1" kvs 9,6
6 row coil	3/4"	3/4" kvs 4,0	1"	1" kvs 9,6	1" kvs 9,6	1" 1/4	1" 1/4

VALVES TECHNICAL DATA

Fitting	DN	KVS main direction/bypass
1/2"	15	1.7 / 1.3
3/4"	20	2.8 / 1.8
3/4" kvs 4.0	20	4.0 / 1.8
1"	25	5.2 / 3.3
1" kvs 9.6	25	9.6 / 8.6
1" 1/4	32	12.4 / 10.5

SALES OFFICES :

BELGIUM AND LUXEMBOURG

+32 3 633 3045

FRANCE

+33 1 64 76 23 23

GERMANY

+49 (0) 211 950 79 60

ITALY

+39 02 495 26 200

NETHERLANDS

+31 332 471 800

POLAND

+48 22 58 48 610

PORTUGAL

+351 229 066 050

SPAIN

+34 915 401 810

UKRAINE

+38 044 585 59 10

UNITED KINGDOM AND IRELAND

+44 1604 669 100

OTHER COUNTRIES :

LENNOX DISTRIBUTION

+33 4 72 23 20 20



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