Serie CH20-G/H

Water cassette. Fan coils for installation in suspended ceilings, with wall-mounted controls or infrared remote control.

Identity

Under ceiling installation
Wall-mounted controls or infrared remote control

Versions

2 and 4 pipe versions

Certifications

CE

Plus

ALL IN 1 CONTROL · BMS COMPATIBLE · QUALITY POINT · 4TIN2T · EASY SERVICE

Description

The water Cassette are fan coil systems suitable for installation in a false ceiling in the center of the room. Their attractive is suitable for the most sophisticated environments where requirements for space and silence are the greatest constraint.

Plus

ALLIN1 CONTROL

Wall mounted standard control with advanced functions Master/ Slave included to create little networks until 32 units each one.

BMS COMPATIBLE

Possibility to control until 2048 units with DLBMS1 datalogger and Modbus protocol or DLBMS2 with Aertesi protocol, even in combination with all the Aertesi terminal units.
NCUGH optional control functions designed to simplify management through external controls. The controls are easily interchanged during installation or in storage.

Wall-mounted control WPC-EC

QUALITY POINTS

Ready for quick installation of valves 2 and 3 way (optional)
Possibility to mount the valves directly in the factory
Easy access to terminal block for electrical connections
Integration of outside air drawn through two connections (up to 15% on a single connection).
Ready for fitting in the field or in storage of electrical resistances of integration with Plug & Play connections

4TIN2T

Hearing aid fitting accessory for the 2-pipe 4-pipe systems with no loss of performance.

EASY SERVICE

Ease of removal of the grid air
Electrical panel removed without removing the ceiling
Arrangement of components optimized for access from below

Technical data

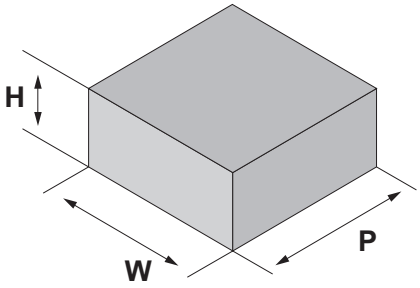
	Size		20G	30G	40G	50G	60H	70H	100H	120H	40GB1	60HB1	80HB1
	Technical data												
	Versions		2 Tubi								4 Tubi		
	Fans number	n°	1										
	Cooling performances												
(1)	Nominal capacity/h	kW	2.37	3.2	4.08	4.56	5.6	6.9	10	11.7	3.6	5.75	7.92
(1)	Nominal capacity/m	kW	1.7	2.06	3.1	3.76	5.1	5.6	7.83	10	3.02	5.21	6.82
(1)	Nominal capacity/l	kW	1.41		2.7		3.57		6.56		2.42	3.18	5.34
	Sensible nominal capacity/h	kW	1.89	2.5	3	3.17	4.37	5.06	7.94	8.86	2.94	4.46	6.96
	Sensible nominal capacity/m	kW	1.35	1.62	2.45	2.85	3.85	4.37	6.45	7.94	2.6	4.2	6.28
	Sensible nominal capacity/l	kW	1.11		2.15		2.96		5.58		2.22	2.76	5.2
	Water flow	l/h	419	601	753	810	1047	1226	1767	2073	636	1007	1400
	Pressure drop	kPa	6.5	12.8	30	36.8	27.7	36.9	38	49	14.7	40.3	26.8
	Water volume	l	1.25		1.56		1.78		2.41		1.07	1.37	1.67
	Heating performances												
(2)	Nominal capacity/h	kW	4.92	6.58	7.8	8.9	11.4	12.72	18.65	20.87	4.43	5.03	9.65
(2)	Nominal capacity/m	kW	3.98	4.3	6.92	7.4	10.13	11.4	16.6	18.65	3.84	4.63	8.87
(2)	Nominal capacity/l	kW	3.25		6.58		7.52		15.2		3.41	3.42	7.56
(3)	Nominal capacity/h	kW	2.8	3.65	5.29	6.15	6.72	8.28	11.48	13.7	-		
(3)	Nominal capacity/m	kW	2	2.4	4.1	4.9	6.2	6.72	9.39	11.48	-		
(3)	Nominal capacity/l	kW	1.6		3.5		4.28		7.87		-		
	Water flow	l/h	-								380	431	827
	Pressure drop	kPa	-								3.5	7.5	13.3
	Water volume	l	-								0.49	0.41	0.74
	Fan motor performance												
	Power	Watt	38	50	56	85	89	146	267	310	85	146	310
	Running current	Amp	0.17	0.26	0.24	0.37	0.36	0.64	1.16	1.35	0.37	0.64	1.35
	Starting current	Amp	0.51	0.78	0.72	1.11	1.08	1.9	3.48	4.04	1.11	1.9	4.04
	General												
	Nominal air flow/h	m3/h	380	575	722	810	960	1300	1950	2290	810	1300	2290
	Nominal air flow/m	m3/h	240	290	522	617	820	960	1380	1950	617	960	1950
	Nominal air flow/l	m3/h	200		450		700		1090		450	700	1090
	Sound pressure at 1 m/h	dB(A)	34	37	44	46	42	47	50	52	46	50	54
	Sound pressure at 1 m/m	dB(A)	30	32	35		40		42	46	40	42	50
	Sound pressure at 1 m/l	dB(A)	27		30		36			39	30	36	39
	Sound power/h	dB(A)	42	48	57	60	55	65		70	60	65	70
	Sound power/m	dB(A)	37	40	46	52	50	57	58	65	52	57	65
	Sound power/l	dB(A)	35		42		46.8		47		42	46.8	47
	Electric heater (accessories)	kW	-	1	-	2	-	3	-	4	-		
	Power supply	V/Ph/Hz	230/1/50										
	D.i. drain pain connection	mm (in)	19.05 (3/4)										
	Connecting system		FEMMINA										
	Water inlet connection	mm (in)	19.05 (3/4)										
	Water outlet connection	mm (in)	19.05 (3/4)										
	Flange for external air suction	n°	2										

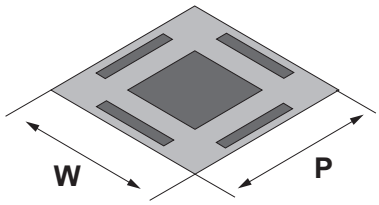
(1) Cooling : 27°C db /47% Inlet air temperature, 7°C Inlet water temperature, 12°C Outlet water temperature with nominal water flow

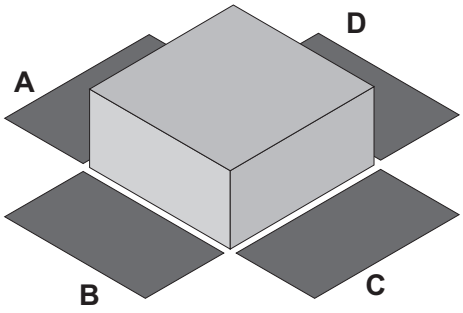
(2) Heating : 20°C Inlet air temperature, 70°C Inlet water temperature, 60°C Outlet water temperature, same of cooling water flow

(3) Heating : 20°C Inlet air temperature, 50°C Inlet water temperature, same of cooling water flow

Dimensions and service spaces







Size		20G	30G	40G	50G	60H	70H	100H	120H	40GB1	60HB1	80HB1
Dimensions												
Width/W	mm	580				730		830		580	730	830
Depth/P	mm	580				730		830		580	730	830
High/H	mm	255				260				290		
Gross weight panel + packaging	Kg	28		30		36		50		30	36	50
Frontal panel												
Lenght	mm	680				830		980		680	830	980
Depth	mm	680				830		980		680	830	980
High	mm	28										
Service areas												
A	mm	500										
B	mm	500										
C	mm	500										
D	mm	500										

Useful notes for the choice

Modello	Descrizione	
FLAE G/H	Flange for external air suction	Circular spigot Ø 105 mm (2 for each unit) which makes the connection of the external air duct easier.
FLMA G/H	Flange for outlet duct	Circular spigot Ø 100 mm which makes the connection of an additional air outlet easier.
DLBMS 1	BMS datalogger with MODBUS protocol	Data Logger for network BMS comunication connection with Modbus protocol. Max 32 units for each data logger, max 64 data logger. Max 2048 units for net.
DLBMS 2	BMS datalogger with AERTESI protocol	Data Logger for network BMS comunication connection with Aertesi protocol (exclusive management by means "SFTBMS" software). Max 32 units for each data logger, max 64 data logger. Max 2048 units for net.
ECH	Electric heater	Electric heater for space heating in WINTER mode
FAAM	Filter with bacteria-proof treatment	3M High Flow Filter (HAF) antimicrobial and odor
NCUGH	Extra cost for unit without control	Extra cost for unit supplied without any control. Control device supplied by customer. It is possible to order other Aertesi controls
PSCC	Auxiliary draining pump	Auxiliary drain pump used for a head from 0,5 to max of 5 mt.
SCT-GH	Infrared remote control	Infrared remote control with thermostat, speed selector and functions control.
STFBMS	BMS software with AERTESI protocol	BMS management software with Aertesi comunication protocol. Compatible only with DLBMS 2
WPC-GH	Wall mounted thermostat	Wall-mounted control with thermostat, speed selector and functions control (with cable L=5 mt).