

Series CH2O-G/H-EC

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



Identity

Under ceiling installation
DC electronic motor with permanent magnets
Wall-mounted controls or infrared remote control

Versions

2 pipe versions

Certifications



Plus



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

ENERGY SAVING

From 35% to 50% compared to traditional motor depending on the type and mode of use

QUALITY POINTS

NCUEC optional control functions designed to simplify management through external controls. The controls are easily interchanged during installation.

Ready for quick installation of valves 2 and 3 way (optional)

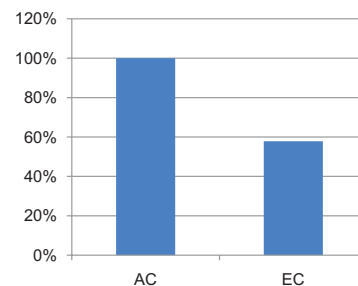
Possibility to mount the valves directly in the factory

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

Medium input power %



EASY SERVICE

Ease of removal of the grid air

Electrical panel removed without removing the ceiling

Arrangement of components optimized for access from below

ALL IN 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 160 units with DLBMS-EC datalogger and Modbus protocol, even in combination with all the Aertesi terminal units.

Technical data

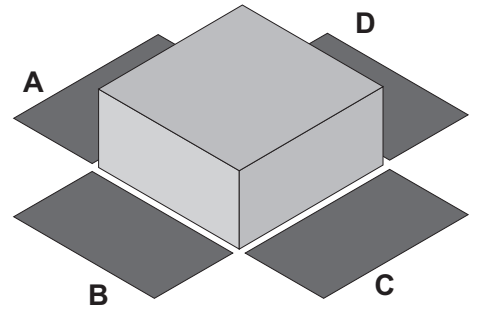
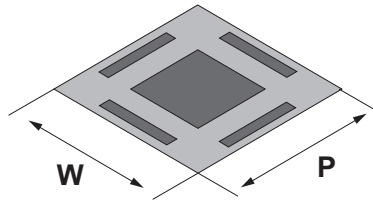
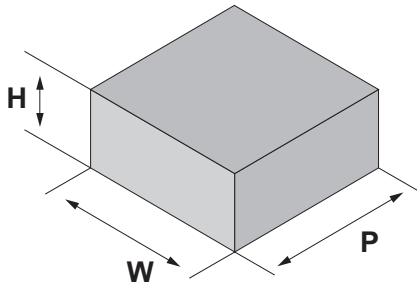
Size		30GEC	50GEC	70HEC	110HEC
Technical data					
Versions		2 Tubi			
Fans number	n°	1			
Cooling performances					
(1) Nominal capacity/h	kW	3.2	4.56	6.93	10.6
(1) Nominal capacity/m	kW	2.06	3.65	5	8.6
(1) Nominal capacity/l	kW	1.41	1.7	3.13	5.87
Sensible nominal capacity/h	kW	2.48	3.17	5.03	8.11
Sensible nominal capacity/m	kW	1.62	2.8	3.97	7.1
Sensible nominal capacity/l	kW	1.11	1.35	2.52	4.84
Water flow	l/h	601	836	1226	1865
Pressure drop	kPa	12.8	36	31	36
Water volume	l	1.25	1.56	1.78	2.41
Heating performances					
(2) Nominal capacity/h	kW	6.58	8.9	12.72	18.95
(2) Nominal capacity/m	kW	4.3	6.92	10.13	16.6
(2) Nominal capacity/l	kW	3.25	3.98	6.58	11.4
(3) Nominal capacity/h	kW	3.91	5.6	8.3	12.7
(3) Nominal capacity/m	kW	2.58	4.5	6	10.3
(3) Nominal capacity/l	kW	1.8	2.1	3.91	7
Fan motor performance					
Power	Watt	30	40	72	200
Running current	Amp	0.26	0.35	0.63	1.57
Starting current	Amp	59.8	80	144	362
General					
Nominal air flow/h	m3/h	575	810	1300	2100
Nominal air flow/m	m3/h	290	520	820	1380
Nominal air flow/l	m3/h	200		360	820
Sound pressure at 1 m/h	dB(A)	37	46	50	54
Sound pressure at 1 m/m	dB(A)	32	35	40	45
Sound pressure at 1 m/l	dB(A)	24		28	30
Sound power/h	dB(A)	48	60	65	66
Sound power/m	dB(A)	39	45	53	58
Sound power/l	dB(A)	35		39	42
Electric heater (accessories)	kW	1	2	3	4
Power supply	V/Ph/Hz	230/1/50	230/1/51	230/1/52	230/1/53
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		30GEC	50GEC	70HEC	110HEC
Dimensions					
Width/W	mm	580		730	830
Depth/P	mm	580		730	830
High/H	mm	255	290	260	290
Gross weight panel + packaging	Kg	28	30	36	50
Frontal panel					
Lenght	mm	680		830	980
Depth	mm	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	
DLBMS-EC	BMS datalogger with MODBUS protocol	Data Logger for network BMS communication connection with Modbus protocol.
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
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.
NCUEC	Extra cost for unit without control	Extra cost for unit supplied without any control. Control device supplied by customer with 0-10V signal for the fan and on-off for the valve)
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.
WPC-GH	Wall mounted thermostat	Wall-mounted control with thermostat, speed selector and functions control (with cable L=5 mt).