PHW - HIGHWALL FAN COIL

NEW PRODUCT

FEATURES

CONTROL FLEXIBILITY

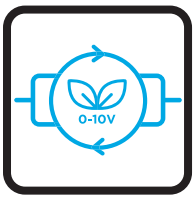
Two types of control system: Intelligent control board (I-Control) controlled via Infra-red handset and/or Intelligent wired wall pad or Flexible control (W-Control) permitting operation with external thermostat applications both controls allows configuration for 2 or 4-pipe settings.

Please refer to page 14 for further information on controls.

INTEGRATED VALVES

Optional 2 or 3-way both On/Off and modulating thermoelectric integrated valves located in a new position for easier maintenance. Synthetic elastomer tubes with stainless steel outer braiding and brass connectors, to enable quick and low-cost connections with no brazing.

ENERGY EFFICIENT MOTORS



EC motors allow the tangential blower wheel to operate at optimum airflow performance, energy efficiency and quiet operation. EC motors include driven control PCB, constant torque, permanent magnet and 3 speeds pre-set or modulating with a 0-10 VDC signal for precise air balancing control.

CASING

New stylish design built of durable flame-resistant ABS white color plastic, with rounded corners to give modern aesthetics and integrated LED display. Housed in only two casing sizes, to allow consistency and uniformity on projects where multiple units are required.

WATER COILS

Built with seamless copper tubes and headers, mechanically expanded into corrugated aluminium fin material for a permanent primary to secondary surface bond. Tested at 35 bar, with maximum operating limits at 20 bar.

READY TO INSTALL

The PHW range is offered as a complete package including standard items such as internal drain pan, NBR insulation, and MERV 4 filter.
Furthermore, we offer multiple optional accessories.

KEY POINTS

- High latent performance- dehumidification
- Auto Dynamic Balancing with I-Control
- Easy maintenance accessibility
- 4 Pipe design

ACCESSORIES

- IR Handset or Wired Wall Pad (Available with I-Control)
- Thermostat Controller (Available with W-Control)
- 2 or 3 Way On/Off & Modulating Valves
- Integrated Sauermann Condensate Pump
- Electric heater up to 1.5kW

*Please refer to page 80 for further information and accesories.

TECHNICAL SPECIFICATIONS

Hydronic Highwall, 2 Pipe with **EC Motor**

UNIT GENERAL SPECS	PHW-[Size]-V-ECM			200	300	400	500	600	750
	Configuration			2-pipe					
	Number of Fan Blowers			Single					
	Power Supply (V/Ph/Hz)			220 - 240/1/50 - 60					
AIR	Total Air Flow	H	m3/h	380	550	680	788	1050	1250
		M		270	380	550	600	850	1020
		L		200	270	340	380	510	600
COOLING	Total Cooling Capacity	H	kW	1.85	2.51	3.3	4.37	5.03	6.57
		M		1.43	1.92	2.84	3.58	4.25	5.6
		L		1.12	1.46	1.94	2.52	2.89	3.72
	Sensible Cooling Capacity	H		1.33	1.84	2.39	3.12	3.62	4.73
		M		1.01	1.37	2.04	2.52	3.02	3.97
		L		0.78	1.03	1.36	1.73	2.01	2.58
HEATING	Heating Capacity	H	kW	1.9	2.62	3.4	4.39	5.1	6.64
		M		1.48	1.99	2.91	3.57	4.35	5.7
		L		1.16	1.52	2	2.51	2.94	3.77
	Max. Electric Heater Capacity			1		1.5			
SOUND	Pressure Level (H/M/L)		dB(A)	33/27/25	42/33/27	47/42/30	50/45/33	51/46/32	53/48/36
	Power Level (H/M/L)			42/36/34	51/42/36	56/51/39	59/54/42	60/55/41	62/57/45
ELECTRICAL	Power Input	H	W	13	20	30	38	50	65
		M		9	13	20	25	31	40
		L		7	9	11	13	12	16
	Running Current (H)		A	0.11	0.17	0.26	0.33	0.43	0.57
HYDRONIC	Cooling Water Flow Rate	H	L/h	316	431	565	749	863	1126
		M		244	329	487	614	729	960
		L		193	251	333	432	496	638
	Cooling Pressure Drop	H	kPa	10	9.6	14.8	20	32.5	56.1
		M		6.3	5.9	11.3	14	24	42.1
		L		4.1	3.6	5.7	7.4	12	20.2
	Heating Water Flow Rate	H	L/h	326	449	583	753	874	1138
		M		253	342	498	612	745	977
		L		199	261	343	431	504	647
	Heating Pressure Drop	H	kPa	8.6	8.5	9.2	20.1	30.7	57.3
		M		5.5	5.2	7	13.9	23.1	43.5
		L		3.6	3.2	3.6	7.4	11.4	20.7

EUROVENT TESTING CONDITIONS:

a. Cooling mode (2-pipe):
- Return air temperature: 27°C DB/19°C WB
- Inlet/ outlet water temperature: 7°C/ 12°C

b. Heating mode (2-pipe):
- Return air temperature: 20°C
- Inlet water temperature: 45°C/40C

* Please refer to www.eurovent-certification.com for further information.

TECHNICAL SPECIFICATIONS

Hydronic Highwall, 4 Pipe with **EC Motor**

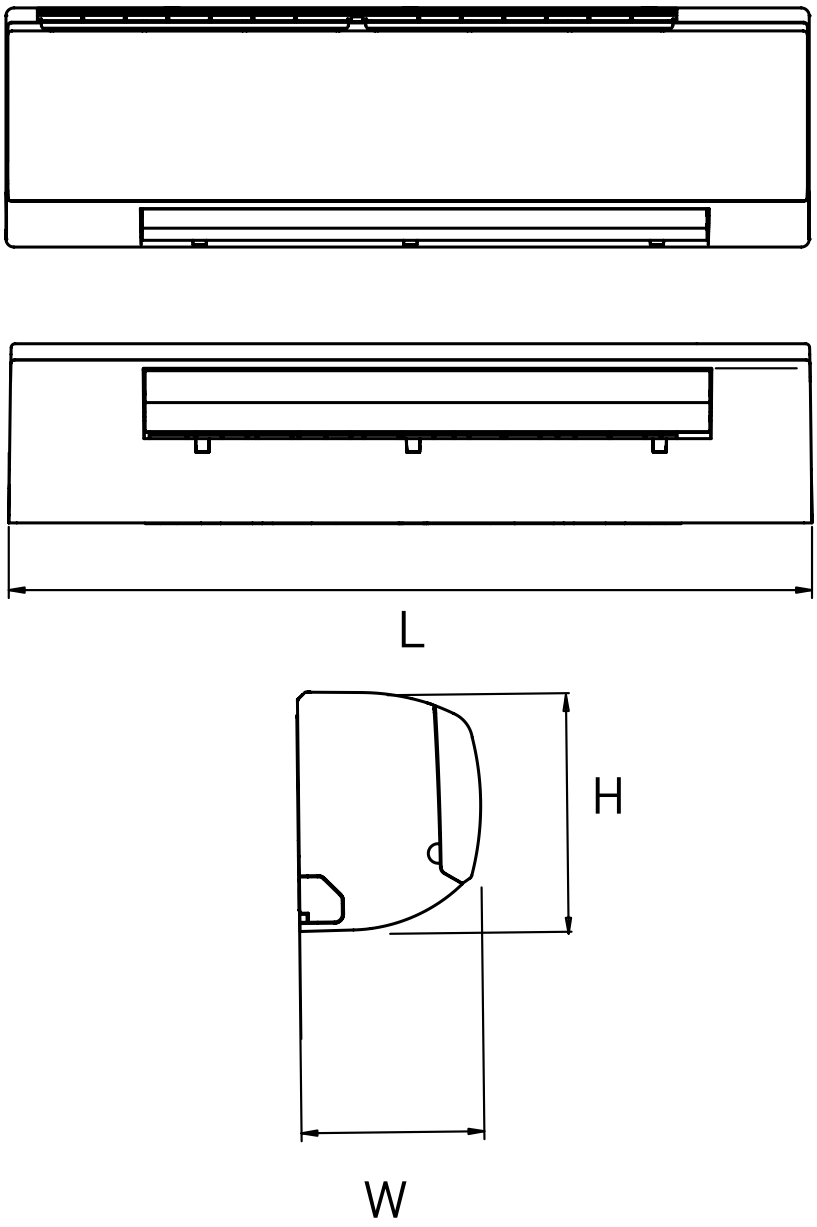
UNIT GENERAL SPECS	PHW-[Size]-P-ECM			500	750
	Configuration			4-pipe	
	Number of Fan Blowers			Single	
	Power Supply (V/Ph/Hz)			220 - 240/1/50 - 60	
AIR	Total Air Flow	H	m3/h	788	1250
		M		600	1020
		L		380	600
COOLING	Total Cooling Capacity	H	kW	3.15	4.91
		M		2.58	4.18
		L		1.81	2.78
	Sensible Cooling Capacity	H		2.21	3.45
		M		1.79	2.9
		L		1.23	1.88
HEATING	Heating Capacity	H	kW	2.3	3.3
		M		1.87	2.8
		L		1.32	1.87
SOUND	Pressure Level (H/M/L)		dB(A)	50/45/33	53/48/36
	Power Level (H/M/L)			59/54/42	62/57/45
ELECTRICAL	Power Input	H	W	38	65
		M		25	40
		L		13	16
	Running Current (H)		A	0.33	0.57
HYDRONIC	Cooling Water Flow Rate	H	L/h	539	841
		M		442	717
		L		311	477
	Cooling Pressure Drop	H	kPa	21.1	53.2
		M		14.8	39.9
		L		7.8	19.1
	Heating Water Flow Rate	H	L/h	197	283
		M		161	240
		L		113	161
	Heating Pressure Drop	H	kPa	6.5	12.4
		M		4.5	9.2
		L		2.4	4.5

EUROVENT TESTING CONDITIONS:

a. Cooling mode (4-pipe):
- Return air temperature: 27°C DB/19°C WB.
- Inlet/ outlet water temperature: 7°C/ 12°C

b. Heating mode (4-pipe):
- Return air temperature: 20°C
- Inlet water temperature: 65°C/55°C

DIMENSIONAL DRAWINGS, DATA & WEIGHTS



PHW				200	300	400	500	600	750
CONSTRUCTION AND PACKING DATA	Water Connections	Type		PT Threaded Male (from the hose)					
		In	mm [inch]	12.7 [1/2]					
		Out							
	Condensate Drainage			16 [5/8]					
	Dimensions	L	mm	1010				1175	
		W		230					
		H		300					
WEIGHT	Net	kg		12	14	15	17	18	19