

PFWSL - SLIM CONSOLE



FEATURES



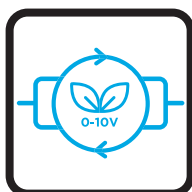
CONTROL FLEXIBILITY

Two types of control system: Intelligent control board (I-Control) with standard built-in control board or Flexible control (W-Control) permitting operation with external thermostat applications both controls allows configuration for 2 or 4-pipe settings.



QUIET OPERATION

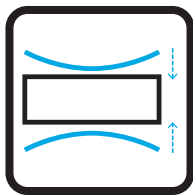
The adoption of tangential fans mounted on anti-vibration support that provides optimum acoustic comfort.



EFFICIENT EC MOTOR

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.

SLIM DESIGN



The structure is made of galvanized sheet-steel with holes for attaching the structure to the wall/ceiling. Fire resistant insulation is fitted internally to provide both thermal and acoustic insulation. It has an elegant and modern design, with only 5 3/8" width specially recommended for residential and hospitality applications.

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 500 psi, with maximum operating limits at 300 psi.

READY TO INSTALL



The slim console range is offered as a complete package including standard items such as a steel casing with air grille distribution within an integrated built-in control (if choosing I-Control), a galvanized Steel internal drain pan, 0.2" NBR Insulation and MERV 4 filter. Furthermore, we offer multiple optional accessories.

KEY POINTS

- Auto Dynamic Balancing with I-Control
- New slim design (5 3/8" width)
- Radiators replacement
- Highest latent performance-dehumidification in the market
- Available with or without cabinet



ACCESSORIES

- IR Handset or built in control (Available with I-Control)
- Thermostat Controller (Available with W-Control)
- 2 or 3 Way On/Off & Modulating Valves
- Stainless Steel Drain Pan
- Electric heater up to 1.5kW
- Metal Supporting Feet

*Please refer to page 86 for further information and accessories.

TECHNICAL SPECIFICATIONS

Hydronic Slim Console 2 pipe with **EC Motor**

UNIT GENERAL SPECS	PFWSL-[Size]-V-AECM			01	02	03	04	05
	Configuration			2-pipe				
	Number of Fan Blowers			1			2	
	Power Supply (V/Ph/Hz)			110-120/1/60				
AIR	Total Air Flow	H	CFM	106	174	224	271	353
		M		82	144	194	218	294
		L		59	100	135	153	206
COOLING	Total Cooling Capacity	H	BTU/Hr	4062	6672	8923	10774	13752
		M		3354	5795	8014	9218	11997
		L		2584	4376	6021	6960	9120
	Sensible Cooling Capacity	H		2674	4414	5854	7066	9073
		M		2181	3782	5202	5961	7828
		L		1654	2823	3864	4449	5878
HEATING	Heating Capacity	H	BTU/Hr	6315	10372	13872	16749	21377
		M		5214	9009	12458	14330	18650
		L		4016	6802	9360	10820	14177
	Max. Electric Heater Capacity @ 115V		kW	0.75	1		1.5	
	Max. Electric Heater Capacity @ 220V			0.75	1		1.5	
SOUND	Pressure Level		dB(A)	43/37/28	43/38/30	45/43/31	46/42/35	47/43/35
	Power Level			52/46/38	52/47/39	54/52/40	55/51/42	56/52/42
ELECTRICAL	Power Input	H	W	16	19	22	24	26
		M		13	15	17	18	20
		L		10	11	12	12	12
	Running Current 115V (H)		A	0.28	0.33	0.38	0.42	0.45
	Running Current 220V (H)			0.15	0.17	0.2	0.22	0.24
HYDRONIC	Cooling Water Flow Rate	H	GPM	0.8	1.32	1.76	2.13	2.72
		M		0.66	1.14	1.58	1.82	2.37
		L		0.51	0.86	1.19	1.37	1.8
	Cooling Pressure Drop	H	Ft. hd.	7.08	7.48	15.47	11.83	5.53
		M		5.02	5.8	12.75	8.93	4.33
		L		3.14	3.5	7.62	5.39	2.64
	Heating Water Flow Rate	H	GPM	Same as cooling water flow rate				
		M						
		L						
	Heating Pressure Drop	H	Ft. hd.	6.37	6.73	13.92	10.64	4.98
		M		4.52	5.22	11.47	8.04	3.9
		L		2.82	3.15	6.86	4.85	2.38
	Water content			Gal	0.116	0.193	0.272	0.349

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling mode (2-pipe/ 4-pipe):

- Return air temperature: DB 80°F/WB 67°F
- Inlet/ outlet water temperature: 45°F/ 55°F

b. Heating mode (2-pipe):

- Return air temperature: 70°F
- Inlet water temperature: 140°F
- Water flow-rate: Same as cooling mode

(All dimensions are approximate within 1/16 of an inch of those indicated)

TECHNICAL SPECIFICATIONS

Hydronic Slim Console 4 pipe with **EC Motor**

UNIT GENERAL SPECS	PFWSL-[Size]-P-AECM			01	02	03	04	05
	Configuration			4-pipe				
	Number of Fan Blowers			1			2	
	Power Supply (V/Ph/Hz)			110-120/1/60				
AIR	Total Air Flow	H	CFM	106	174	224	271	353
		M		82	144	194	218	294
		L		59	100	135	153	206
COOLING	Total Cooling Capacity	H	BTU/Hr	2995	5089	6771	8315	10752
		M		2486	4414	6092	6969	9380
		L		1907	3309	4577	5374	7119
	Sensible Cooling Capacity	H		2018	3378	4483	5501	7168
		M		1657	2899	4013	4582	6178
		L		1250	2142	2963	3468	4635
HEATING	Heating Capacity	H	BTU/Hr	4024	6692	8804	10728	13833
		M		3313	5791	7883	9108	12093
		L		2550	4387	5937	6953	9195
SOUND	Pressure Level		dB(A)	43/37/28	43/38/30	45/43/31	46/42/35	47/43/35
	Power Level			52/46/38	52/47/39	54/52/40	55/51/42	56/52/42
ELECTRICAL	Power Input	H	W	16	19	22	24	26
		M		13	15	17	18	20
		L		10	11	12	12	12
	Running Current 115V (H)		A	0.28	0.33	0.38	0.42	0.45
	Running Current 220V (H)			0.15	0.17	0.2	0.22	0.24
HYDRONIC	Cooling Water Flow Rate	H	GPM	0.59	0.96	1.31	1.55	1.92
		M		0.48	0.77	1.06	1.24	1.52
		L		0.35	0.57	0.76	0.92	1.11
	Cooling Pressure Drop	H	Ft. hd.	2.98	9.11	6.47	4.74	8.06
		M		2.01	6.12	4.41	3.19	5.29
		L		1.15	3.49	2.44	1.85	2.98
	Heating Water Flow Rate	H	GPM	0.2	0.32	0.43	0.51	0.62
		M		0.16	0.26	0.34	0.4	0.5
		L		0.12	0.19	0.25	0.3	0.36
	Heating Pressure Drop	H	Ft. hd.	0.97	3.05	6.62	1.53	2.57
		M		0.66	2.04	4.43	1.01	1.72
		L		0.37	1.15	2.53	0.6	0.98
	Chilled Water Content		Gal	0.06	0.1	0.14	0.18	0.22
	Hot Water Content			0.03	0.05	0.07	0.09	0.11

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling mode (2-pipe/ 4-pipe):

- Return air temperature: DB 80°F/WB 67°F
- Inlet/ outlet water temperature: 45°F/ 55°F

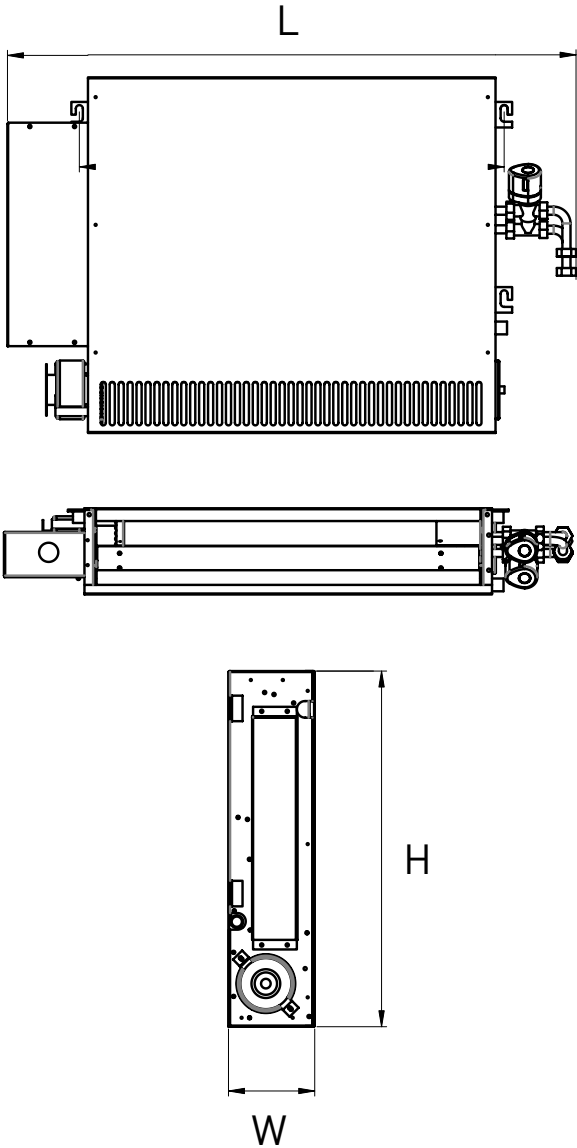
b. Heating mode (4-pipe):

- Return air temperature: 70°F
- Inlet water temperature: 180°F/140°F

(All dimensions are approximate within 1/16 of an inch of those indicated)

DIMENSIONAL DRAWINGS, DATA & WEIGHTS

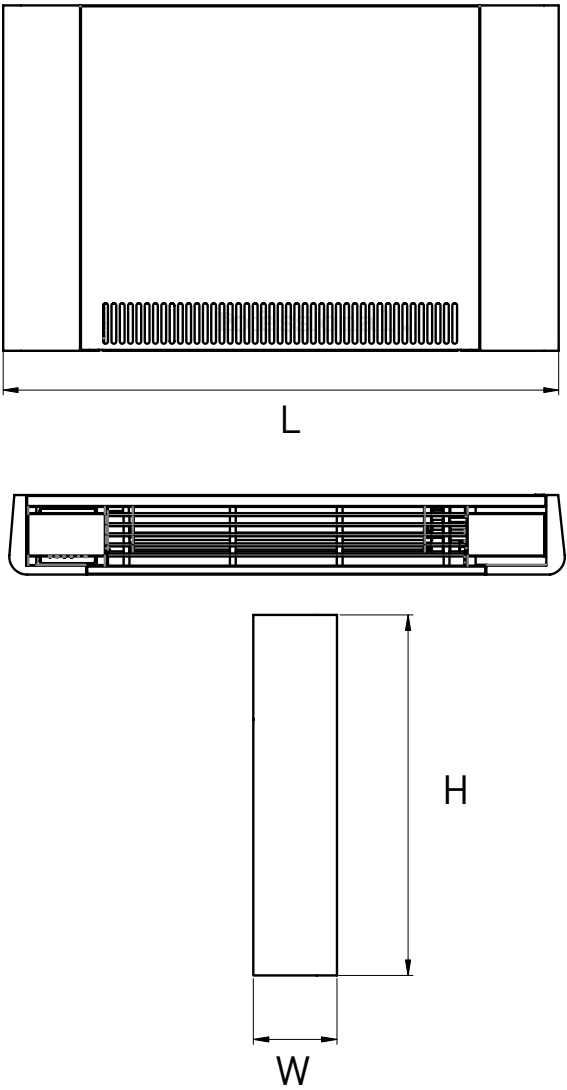
UNCASED UNIT



PFWSL			01	02	03	04	05
CONSTRUCTION AND PACKING DATA	Water Connections	Type	FNPT (Threaded Female)				
		In Out	1/2				
	Condensate Drainage Connection		5/8				
	Dimensions Uncased Unit	L	17.25	25.125	33	40.875	48.75
		W	5 5/16"				
		H	21 11/12"				
WEIGHT	Net Weight	lbs	41.9	48.5	55.2	61.8	68.4

DIMENSIONAL DRAWINGS, DATA & WEIGHTS

CASED UNIT



PFWSL				01	02	03	04	05
CONSTRUCTION AND PACKING DATA	Water Connections	Type	FNPT (Threaded Female)					
		In Out	inch	1/2				
	Condensate Drainage Connection			5/8				
	Dimensions Cased Unit	L	inch	28 15/16"	36 13/16"	44 11/16"	52 9/16"	60 7/16"
		W		5 5/16"				
		H		22 11/12"				
WEIGHT	Net Weight	lbs		41.9	48.5	55.2	61.8	68.4