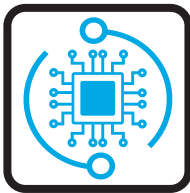


PFWBC - STANDARD CONSOLE



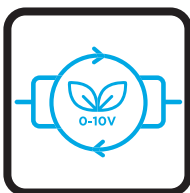
FEATURES

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.

EFFICIENT EC MOTOR

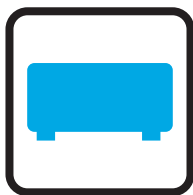


EC motors allow the centrifugal fans to operate at optimum airflow performance, energy efficiency and quiet operation. EC motors include driven control PCB, constant torque, permanent magnet and 3 speeds pre-set or modulating with a 0-10 VDC signal for precise air balancing control.

FAN BLOWER



Centrifugal type with double air inlet blades made of forward-curving metal fins, and with large diameters to create high airflow and high static pressure with fewer revolutions offering lower noise levels.



STRUCTURE

Made of galvanized sheet steel designed to be attached to the wall or the ceiling, with fire-resistant thermo-acoustic insulation internally fitted. Installation can be vertical or horizontal, thanks to the "V" type drain pan accessory.



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 PFWB(C) range is offered as a complete package including standard items such as a cabinet with air grille distributions, 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
- Coil interchangeable on field
- 3 and 4 Rows configurations available
- With or without cabinet and Horizontal or Vertical air return



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
- Stainless Steel Drain Pan
- Electric heater up to 3kW
- ABS Plastic Supporting Feet

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

TECHNICAL SPECIFICATIONS

Hydronic Standard Console, 3R, 2 Pipe with **EC Motor**

UNIT GENERAL SPECS	PFWB(C)-3R-[Size]-V-AECM			06	09	12	15	18	24	30	36	40
	Configuration			2-pipe								
	Number of Fan Blowers			Single	Twin				Four			
	Power Supply (V/Ph/Hz)			110-120/1/60								
				208-240/1/60								
AIR	Total Air Flow	H	CFM	206	296	398	494	571	794	955	1169	1333
		M		165	254	318	410	486	688	847	1006	1196
		L		124	201	224	255	289	398	435	524	559
COOLING	Total Cooling Capacity	H	BTU/Hr	6204	8658	11209	14284	16545	22823	27205	31555	36130
		M		5308	7706	9557	12465	14580	20497	25146	28412	33533
		L		4222	6459	7252	8670	9809	13351	14892	16972	18783
	Sensible Cooling Capacity	H		4196	5885	7681	9698	11131	15455	18374	21713	24650
		M		3540	5179	6453	8357	9725	13735	16827	19338	22766
		L		2794	4314	4840	5703	6397	8723	9675	11228	12298
HEATING	Heating Capacity	H	BTU/Hr	9644	13460	17425	22206	25719	35480	42291	49054	56165
		M		8251	11979	14856	19377	22665	31863	39090	44168	52128
		L		6563	10041	11274	13478	15249	20755	23151	26384	29199
	Max. Electric Heater Capacity @ 115V		kw	1	1.5	2			3			
	Max. Electric Heater Capacity @ 220V			0.5	0.75	1			1.5			
SOUND	Pressure Level		dB(A)	41/35/29	43/38/33	47/40/33	49/44/33	51/46/33	52/48/33	54/50/33	57/54/35	60/58/35
	Power Level			50/44/38	52/47/42	56/49/42	58/53/42	60/55/42	61/57/42	63/59/42	66/63/44	69/67/44
ELECTRICAL	Power Input	H	W	17	26	38	44	52	87	100	128	182
		M		13	15	23	30	36	60	71	92	147
		L		8	11	12	13	14	22	24	28	30
	Running Current 115V (H)		A	0.3	0.45	0.66	0.77	0.9	1.51	1.74	2.23	3.17
	Running Current 220V (H)			0.15	0.24	0.35	0.4	0.47	0.79	0.91	1.16	1.65
HYDRONIC	Cooling Water Flow Rate	H	GPM	1.23	1.71	2.21	2.82	3.27	4.51	5.37	6.23	7.13
		M		1.05	1.52	1.89	2.46	2.88	4.05	4.97	5.61	6.62
		L		0.83	1.28	1.43	1.71	1.94	2.64	2.94	3.35	3.71
	Cooling Pressure Drop	H	Ft. hd.	3.17	6.01	3.65	6.41	8.58	8.75	12.96	6.09	8.29
		M		2.39	4.87	2.74	5.02	6.83	7.21	11.25	5.04	7.25
		L		1.59	3.55	1.67	2.61	3.35	3.33	4.38	1.99	2.55
	Heating Water Flow Rate		GPM	Same as cooling water flow rate								
	Heating Pressure Drop	H	Ft. hd.	2.85	5.41	3.29	5.77	7.72	7.87	11.67	5.48	7.46
		M		2.15	4.39	2.47	4.51	6.15	6.49	10.13	4.54	6.52
		L		1.43	3.19	1.5	2.35	3.01	3	3.94	1.79	2.3
Water Content		Gal	0.17	0.19	0.25	0.31	0.33	0.46	0.52	0.58	0.64	

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling conditions (2-pipe or 4-pipe)

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

b. Heating conditions (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 Standard Console, 4R, 2 Pipe with **EC Motor**

UNIT GENERAL SPECS	PFWB(C)-4R-[Size]-V-AECM			06	09	12	15	18	24	30	36	40
	Configuration			2-pipe								
	Number of Fan Blowers			Single	Twin				Four			
	Power Supply (V/Ph/Hz)			110-120/1/60								
				208-240/1/60								
AIR	Total Air Flow	H	CFM	206	296	398	494	571	794	955	1169	1333
		M		165	254	318	410	486	688	847	1006	1196
		L		124	201	224	255	289	398	435	524	559
COOLING	Total Cooling Capacity	H	BTU/Hr	7355	10360	13929	17480	20358	27904	33153	39464	44847
		M		6293	9220	11876	15253	17941	25060	30643	35534	41623
		L		5006	7728	9012	10610	12070	16324	18149	21226	23315
	Sensible Cooling Capacity	H		4889	6879	9209	11554	13355	18414	21830	26240	29658
		M		4124	6055	7737	9957	11668	16365	19993	23369	27391
		L		3255	5043	5804	6794	7676	10394	121495	13569	14796
HEATING	Heating Capacity	H	BTU/Hr	11434	16105	21654	27174	31648	43379	51538	61349	69716
		M		9783	14333	18462	23712	27890	38957	47637	55239	64704
		L		7781	12013	14010	16943	18764	25376	28213	32997	36243
	Max. Electric Heater Capacity @ 115V		kw	1	1.5	2			3			
	Max. Electric Heater Capacity @ 220V			0.5	0.5	1			1.5			
SOUND	Pressure Level		dB(A)	41/35/29	43/38/33	47/40/33	49/44/33	51/46/33	52/48/33	54/50/33	57/54/35	60/58/35
	Power Level			50/44/38	52/47/42	56/49/42	58/53/42	60/55/42	61/57/42	63/59/42	66/63/44	69/67/44
ELECTRICAL	Power Input	H	W	17	26	38	44	52	87	100	128	182
		M		13	15	23	30	36	60	71	92	147
		L		8	11	12	13	14	22	24	28	30
	Running Current 115V (H)		A	0.3	0.45	0.66	0.77	0.9	1.51	1.74	2.23	3.17
	Running Current 220V (H)			0.15	0.24	0.35	0.4	0.47	0.79	0.91	1.16	1.65
HYDRONIC	Cooling Water Flow Rate	H	GPM	1.45	2.05	2.75	3.45	4.02	5.51	6.55	7.79	8.86
		M		1.24	1.82	2.35	3.01	3.54	4.95	6.05	7.02	8.22
		L		0.99	1.53	1.78	2.1	2.38	3.22	3.58	4.19	4.6
	Cooling Pressure Drop	H	Ft. hd.	5.7	10.92	21.61	37.06	50.17	36.17	53.92	36.47	48.5
		M		4.3	8.85	16.22	29	39.96	29.8	46.79	30.19	42.4
		L		2.85	6.44	9.87	15.09	19.58	13.78	18.23	11.94	14.94
	Heating Water Flow Rate		GPM	Same as cooling water flow rate								
	Heating Pressure Drop	H	Ft. hd.	5.13	9.82	19.45	33.36	45.16	32.55	48.52	32.82	43.65
		M		3.87	7.96	14.6	26.1	35.97	26.82	42.11	27.17	38.16
		L		2.57	5.8	8.88	13.58	17.62	12.4	16.4	10.75	13.44
Water Content		Gal	0.23	0.25	0.33	0.41	0.44	0.61	0.69	0.77	0.85	

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling conditions (2-pipe or 4-pipe)

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

b. Heating conditions (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 Standard Console, 3R+1 (Auxiliary Heating Coil), 4 Pipe with **EC Motor**

UNIT GENERAL SPECS	PFWB(C)-3R+1-[Size]-P-AECM			06	09	12	15	18	24	30	36	40	
	Configuration			4-pipe									
	Number of Fan Blowers			Single	Twin				Four				
	Power Supply (V/Ph/Hz)			110-120/1/60									
				208-240/1/60									
AIR	Total Air Flow	H	CFM	206	296	398	494	571	794	955	1169	1333	
		M		165	254	318	410	486	688	847	1006	1196	
		L		124	201	224	255	289	398	435	524	559	
COOLING	Total Cooling Capacity	H	BTU/Hr	6204	8658	11209	14284	16545	22823	27205	31555	36130	
		M		5308	7706	9557	12465	14580	20497	25146	28412	33533	
		L		4222	6459	7252	8670	9809	13351	14892	16972	18783	
	Sensible Cooling Capacity	H		4196	5885	7681	9698	11131	15455	18374	21713	24650	
		M		3540	5179	6453	8357	9725	13735	16827	19338	22766	
		L		2794	4314	4840	5703	6397	8723	9675	11228	12298	
HEATING	Heating Capacity	H	BTU/Hr	6497	8816	11747	14594	16377	22719	26783	32154	36533	
		M		5496	7773	9990	12732	14693	20581	24542	28807	33553	
		L		4402	6589	7598	8746	9867	13490	14661	17523	18902	
SOUND	Pressure Level		dB(A)	41/35/29	43/38/33	47/40/33	49/44/33	51/46/33	52/48/33	54/50/33	57/54/35	60/58/35	
	Power Level			50/44/38	52/47/42	56/49/42	58/53/42	60/55/42	61/57/42	63/59/42	66/63/44	69/67/44	
ELECTRICAL	Power Input	H	W	17	26	38	44	52	87	100	128	182	
		M		13	15	23	30	36	60	71	92	147	
		L		8	11	12	13	14	22	24	28	30	
	Running Current 115V (H)		A	0.3	0.45	0.66	0.77	0.9	1.51	1.74	2.23	3.17	
	Running Current 220V (H)			0.15	0.24	0.35	0.4	0.47	0.79	0.91	1.16	1.65	
HYDRONIC	Cooling Water Flow Rate	H	GPM	1.23	1.71	2.21	2.82	3.27	4.51	5.37	6.23	7.13	
		M		1.05	1.52	1.89	2.46	2.88	4.05	4.97	5.61	6.62	
		L		0.83	1.28	1.43	1.71	1.94	2.64	2.94	3.35	3.71	
	Cooling Pressure Drop	H	Ft. hd.	3.17	6.01	3.65	6.41	8.58	8.75	12.96	6.09	8.29	
		M		2.39	4.87	2.74	5.02	6.83	7.21	11.25	5.04	7.25	
		L		1.59	3.55	1.67	2.61	3.35	3.33	4.38	1.99	2.55	
	Heating Water Flow Rate	H	GPM	0.32	0.44	0.59	0.73	0.82	1.13	1.33	1.6	1.82	
		M		0.27	0.39	0.5	0.63	0.73	1.03	1.22	1.44	1.67	
		L		0.22	0.33	0.38	0.44	0.49	0.67	0.73	0.87	0.94	
	Heating Pressure Drop	H	Ft. hd.	0.56	1.04	2.07	3.57	4.59	1.5	2.25	3.41	4.46	
		M		0.42	0.83	1.55	2.79	3.77	1.26	1.92	2.8	4	
		L		0.28	0.62	0.95	1.42	1.84	0.59	0.76	1.14	1.42	
	Chilled Water Content			Gal	0.17	0.19	0.25	0.31	0.33	0.46	0.52	0.58	0.64
	Hot Water Content				0.06	0.06	0.08	0.1	0.11	0.15	0.17	0.19	0.21

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling conditions (2-pipe or 4-pipe)

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

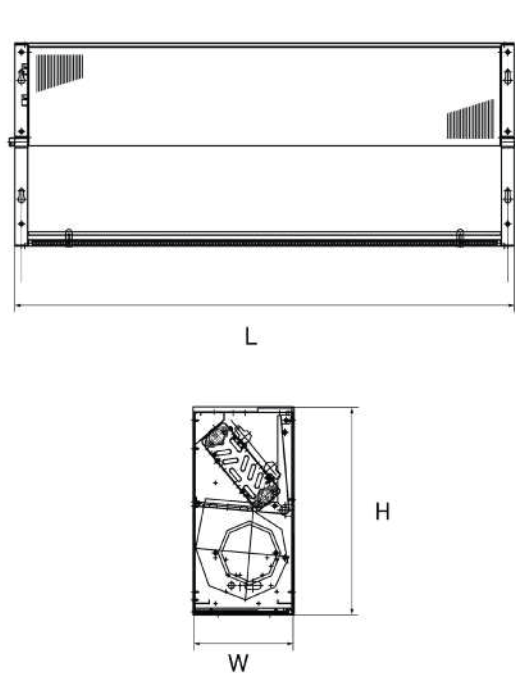
b. Heating conditions (4-pipe)

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

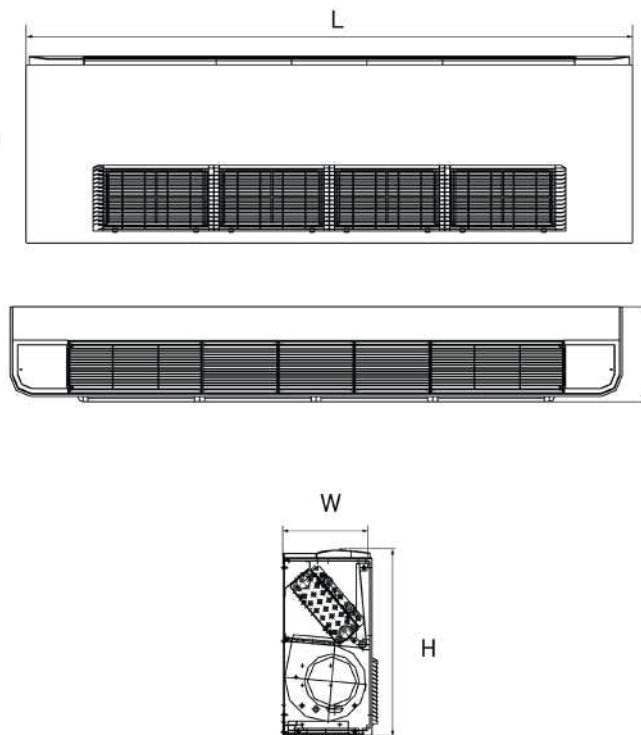
(All dimensions are approximate within 1/16 of an inch of those indicated)

DIMENSIONAL DRAWINGS, DATA & WEIGHTS

WITHOUT CASING



WITH CASING



PFWB(C)			06	09	12	15	18	24	30	36	40
CONSTRUCTION AND PACKING DATA	Cooling Water Connections	Type	FNPT (Threaded Female)								
		In Out									
	Condensate Drainage Connection		3/4								
	Heating Water Connections (Only 4 pipes)	In									
		Out	1/2								
	Dimensions Cased Unit	L	33-3/4	35-3/4	41-5/8	47-9/16	49-1/2	69-3/16	69-3/16	75-1/8	81
		W	9-7/8								
		H	19-7/16								
	Dimensions Uncased Unit	L	23-15/16	25-15/16	31-13/16	37-3/4	39-11/16	53-7/16	59-3/8	65-1/4	71-3/16
		W	9-1/16								
		H	18-1/8								
WEIGHT	Net Weight (3R and 4R)		49	53	57	66	71	104	104	108	119
	Net Weight (3+1R)		51	57	62	71	75	99	108	115	126