

PFWB(C) Universal Console

Sizes: **5 sizes**
 Models: **2-pipe · 4-pipe**
 Rows: **3R · 3R+1 · 4R**
 Cooling: **1.2 - 11.7 kW**
 Heating: **1.1 - 12.3 kW**
 Air Flow: **210 - 1988 m3/h**

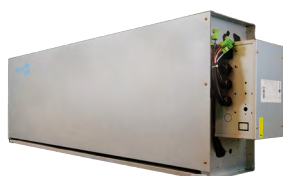


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SCAN QR CODE



Model shown: PFWBC Exposed Cased · size 18

PFWB Uncased: install **vertically/horizontally** within a wall, or on/within the ceiling. **PFWBC Cased:** install **horizontally/vertically** on a wall, below ceiling or on the floor with **supporting feet (optional)**.



PFWB UNCASED
VERTICAL



PFWB UNCASED
HORIZONTAL



PFWBC CASED
VERTICAL AIR RETURN



PFWBC CASED
HORIZONTAL AIR RETURN

Project Applications & References



Residential: Houses · Apartments/Condos · Assisted Living · Student Accommodation/Residence Halls



Educational: Academies · Schools · Universities · Colleges · Libraries · Campus Buildings



Hospitality: Hotel Bedrooms · Hotel Reception Areas · Banquet Halls · Restaurants · Cafes · Bistros



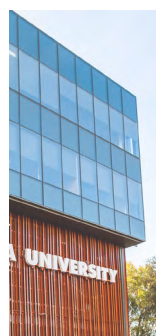
Business: Offices · Data Server Rooms · Banks · Call Centers · Showrooms



Occidental Railspur

2024 · USA (Washington)
Business (Offices)

Retrofit
EC motor
Cased model



Victoria University

2024 · Australia
Residential (Student Accommodation)

Retrofit
EC motor
Cased model



Key Features & Components



High cooling and heating capacity (up to 12 kW) that's ideal for residential and educational spaces.



Decorative casing with optional ABS feet for design-conscious spaces.



Quiet operation with a sound pressure level ² from 29 dBA.



Ideal for low temperature heat sources like solar thermal collectors and heat pumps.



Multiple rows: More coil surface **improves latent capacity and heat exchange** for better efficiency and humidity control.



Optional pre-installed valves on cased models for a discreet appearance and to reduce labor costs.



Installation flexibility with **interchangeable sides on water coil connections.**



Energy-efficient 0-10 VDC EC motor (**up to 30% energy savings** compared to AC motors).



Copper tubes/headers, mechanically expanded into corrugated aluminum fins tested up to 35-bar ³.



Ready to install package:

V-shape internal drain pan (horizontal/vertical installation), 5 mm (0.2") NBR insulation, manual air vent + water purge valve and G2 (MERV 4) filter.

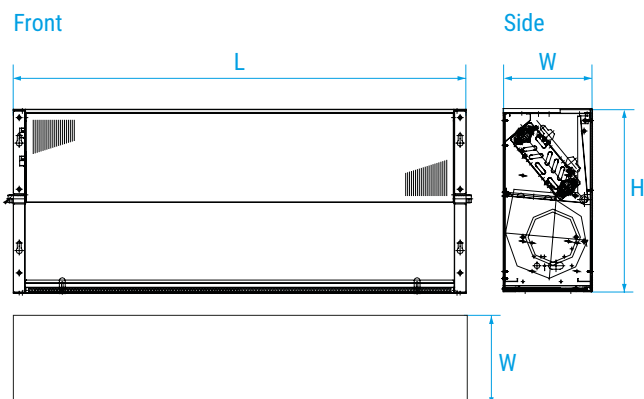
Optional Accessories

- **I-Type Controllers:** Infrared Handset, Wired Wallpad
- **Valves:** pre-assembled **HYDR-C+VALVE KIT** ⁴
- **Drain pan:** stainless steel
- **Supporting feet:** ABS for floor installations
- **Electric heater:** up to 3 kW
- **Elbow kit:** 90° for vertical built-in wall installations
- **Filters:** G4 (MERV 8)
- **Integrated transformer:** converts from 230V-115V to 24V for valve and thermostat compatibility
- **Disconnect switch:** integrated in control box
- **Customization:** available upon request ¹

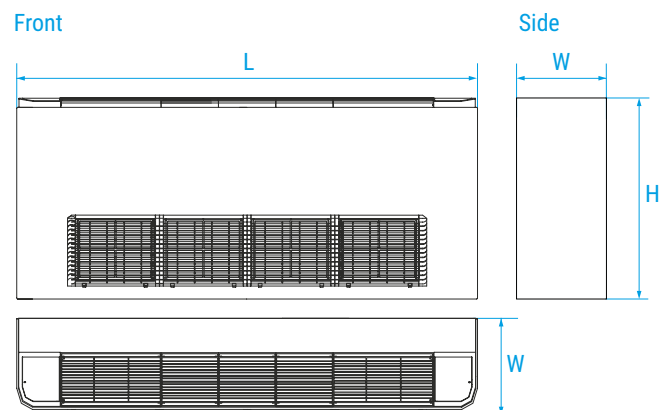
Dimensions, Weights & Drawings

PFWB(C) SIZES*			06	12	18	24	36
PFWB UNCASED Dimensions	L	mm [""]	608 [23 15/16]	808 [31 13/16]	1008 [39 11/16]	1308 [53 7/16]	1608 [65 1/4]
	W		230 [9 1/16]	230 [9 1/16]	230 [9 1/16]	230 [9 1/16]	230 [9 1/16]
	H		460 [18 1/8]	460 [18 1/8]	460 [18 1/8]	460 [18 1/8]	460 [18 1/8]
Net Weight	kg [lbs]		16 [35]	19 [42]	23 [51]	31 [68]	37 [82]
PFWBC CASED Dimensions	L	mm [""]	858 [33 3/4]	1058 [41 5/8]	1258 [49 1/2]	1608 [63 5/16]	1908 [75 1/8]
	W		250 [9 13/16]	250 [9 13/16]	250 [9 13/16]	250 [9 13/16]	250 [9 13/16]
	H		495 [19 1/2]	495 [19 1/2]	495 [19 1/2]	495 [19 1/2]	495 [19 1/2]
Net Weight	kg [lbs]		22 [49]	26 [57]	32 [71]	43 [95]	49 [108]

PFWB UNCASED



PFWBC CASED



(1) Minimum order quantities apply. (2) Sound pressure level measured at 1m distance in a reverberation test room with a minimum volume at 200m³. (3) Tested between 25-35 bar with a max operating limit of 16-bar. (4) HYDRO+ VALVE KIT includes 2/3-way body valve, on-off/modulating actuator (24V or 110-240V), BSPT or NPT connectors, connection piping kit, 2x shut-off valves, strainer and manual balancing valve. (*) Indicated dimensions approximate within 5 mm or 1/16 ". Weights approximate within 1 kg (2.2 lbs).

Technical Specifications

Hydronic Universal Console, 3R, 2-pipe with EC Motor

For other row configuration technical data, please contact us at hello@polaraircs.com.

UNIT GENERAL SPECS	PFWB(C)-3R-[SIZE]-V-EC			06B	12B	18	24B	36B
	Configuration			2-pipe				
	Number of Fan Blowers			1	2		4	
	Power Supply (V/Ph/Hz)			208-240/1/50-60				
	Water Connections	Type		BSPT (Threaded Female)				
		In/Out	mm ["]	19.05 [3/4]				
	Condensate Drainage			mm ["]	19.05 [3/4]			
AIR	Total Air Flow	H	m3/h	350	677	970	1350	1988
		M		280	540	827	1170	1710
		L		210	380	492	676	890
COOLING	Total Cooling Capacity ^E	H	kW	1.8	3.3	4.9	6.7	9.3
		M		1.6	2.8	4.3	6.1	8.4
		L		1.2	2.1	2.9	3.9	5.0
	Sensible Cooling Capacity ^E	H	kW	1.3	2.4	3.5	4.8	6.8
		M		1.1	2.0	3.0	4.3	6.0
		L		0.9	1.5	2.0	2.7	3.5
		HEATING		Total Heating Capacity ^E	H	kW	2.0	3.7
M	1.7		3.2		4.8		6.7	9.5
L	1.4		2.4		3.2		4.4	5.8
HEATING	Recommended Electric Heater Capacity		kW	1.0	2.0	2.0	3.0	3.0
	SOUND *	Pressure Level H/M/L		dBA	41/39/32	43/40/37	51/48/44	50/46/44
Power Level H/M/L ^E			50/44/38		56/49/42	60/55/42	61/57/42	66/63/44
ELECTRICAL	Power Input ^{E1}	H	W	17	38	52	87	128
		M		13	23	36	60	92
		L		8	12	14	22	28
	Running Current ² (H)			A	0.1	0.3	0.5	0.8
HYDRONIC	Cooling Water Flow Rate	H	L/h	314	569	839	1156	1599
		M		269	485	740	1038	1440
		L		214	368	498	676	860
	Cooling Pressure Drop ^E	H	kPa	11.8	13.5	31.7	32.3	22.6
		M		8.9	10.1	25.3	26.6	18.7
		L		5.9	6.2	12.4	12.3	7.4
	Heating Water Flow Rate	H	L/h	347	640	920	1278	1795
		M		296	544	814	1151	1620
		L		238	410	546	760	985
	Heating Pressure Drop ^E	H	kPa	13.2	15.9	36.0	36.4	26.0
		M		9.9	11.8	8.9	30.2	21.7
		L		6.7	7.1	14.1	14.3	8.8
	Water Content			L	0.7	1.0	1.3	1.7

Eurovent Certita Testing Conditions:

Cooling mode: Return Air Temperature 27°C DB/19°C WB

Inlet/Outlet water temperature: 7°C/12°C

Heating mode (2-pipe): Return Air Temperature 20°C

Inlet/Outlet water temperature: 45°C/40°C

For non-standard conditions (i.e. high ΔT) please refer to PASELECT Software. (E) Specifications follow Eurovent test data (according to EN 1397:2021) for the year of publication. Please visit www.eurovent-certification.com for further information.

(1) Rated power input includes fan motor and PCB. (2) Data on apparent electrical current. (*) Sound pressure level measured at 1m distance in a reverberation test room with a minimum volume at 200m³. Sound power level performed and tested according to EN 16583:2022. Range: H=High, M=Medium, L=Low..



Technical Specifications

Hydronic Universal Console, 3R+1, 4-pipe with **EC Motor**

For other row configuration technical data, please contact us at hello@polaraircs.com.

UNIT GENERAL SPECS	PFWB(C)-3R+1-[SIZE]-P-EC			06	12	18	24	36
	Configuration			4-pipe				
	Number of Fan Blowers			1	2		4	
	Power Supply (V/Ph/Hz)			208-240/1/50-60				
	Water Connections	Type		BSPT (Threaded Female)				
		In/Out	mm ["]	Cooling: 19.05 [3/4] · Heating: 12.7 [1/2]				
	Condensate Drainage		mm ["]	19.05 [3/4]				
AIR	Total Air Flow	H	m3/h	350	677	970	1350	1988
		M		280	540	827	1170	1710
		L		210	380	492	676	890
COOLING	Total Cooling Capacity	H	kW	1.8	3.3	4.9	6.7	9.3
		M		1.6	2.8	4.3	6.1	8.4
		L		1.3	2.2	2.9	3.9	5.0
	Sensible Cooling Capacity	H	kW	1.3	2.4	3.5	4.8	6.8
		M		1.1	2.0	3.0	4.3	6.1
		L		0.9	1.5	2.0	2.7	3.5
HEATING	Total Heating Capacity	H	kW	1.7	3.1	4.3	5.9	8.4
		M		1.4	2.6	3.8	5.4	7.5
		L		1.1	2.0	2.6	3.5	4.6
SOUND *	Pressure Level H/M/L		dBA	41/35/29	47/49/33	51/46/33	52/48/33	57/54/35
	Power Level H/M/L			50/44/38	56/49/42	60/55/42	61/57/42	66/63/44
ELECTRICAL	Power Input ¹	H	W	17	38	52	87	128
		M		13	23	36	60	92
		L		8	12	14	22	28
	Running Current ² (H)		A	0.1	0.3	0.5	0.8	1.1
HYDRONIC	Cooling Water Flow Rate	H	L/h	314	569	839	1156	1599
		M		269	485	740	1038	1440
		L		214	368	498	676	860
	Cooling Pressure Drop	H	kPa	11.8	13.5	31.7	32.3	22.6
		M		8.9	10.1	25.3	26.6	18.7
		L		5.9	6.2	12.4	12.3	7.4
	Heating Water Flow Rate	H	L/h	145	262	366	506	720
		M		122	223	329	458	645
		L		98	169	221	300	392
	Heating Pressure Drop	H	kPa	6.0	21.8	48.3	15.8	35.9
		M		4.4	16.3	39.7	13.2	29.5
		L		3.0	10.0	19.4	6.2	12.1
	Water Content (Cooling)		L	0.7	1.0	1.3	1.7	2.2
	Water Content (Heating)			0.2	0.3	0.4	0.6	0.7

Eurovent Certita Testing Conditions:

Cooling mode: Return Air Temperature 27°C DB/19°C WB

Inlet/Outlet water temperature: 7°C/12°C

Heating mode (4-pipe): Return Air Temperature 20°C

Inlet/Outlet water temperature: 65°C/55°C

For non-standard conditions (i.e. high ΔT) please refer to PASELECT Software. (E) Specifications follow Eurovent test data (according to EN 1397:2021) for the year of publication. Please visit www.eurovent-certification.com for further information.

(1) Rated power input includes fan motor and PCB. (2) Data on apparent electrical current. (*) Sound pressure level measured at 1m distance in a reverberation test room with a minimum volume at 200m³. Sound power level performed and tested according to EN 16583:2022. Range: H=High, M=Medium, L=Low.