



Quick reference guide

hydronic fan coils

Metric & Imperial



View Metric catalog:
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QR CODE



View Imperial catalog:
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Why choose **hydronic systems**?

We don't just believe in hydronic systems, we champion them.

Water is a better medium for energy transfer, **delivering unparalleled efficiency, lower operational costs, and a dramatically reduced carbon footprint** compared to refrigerant-based (VRF) systems. It's a technology that not only optimizes climate control, but also aligns with modern sustainability goals — **embrace the future with Polar Air water-based technology.**



Energy-efficient

Water is a better medium for transporting energy compared to VRF systems. It carries **significantly more thermal energy** per unit volume than air, so less energy is needed to heat or cool. **Reducing operational costs and energy consumption.**

01



Flexible

Water-based fan coils offer exceptional flexibility, as HVAC system **components can be sourced from different manufacturers**, making design and replacement easier. **Meaning greater customization and adaptability, across all types of applications.**

02



Easy to install & maintain

No specialized labor is needed, making installation easier and cheaper. This simplicity is perfect for large projects, new builds, and remote areas where specialized VRF installers may be scarce. Plus it's **easy to replace, repair, or maintain.**

03



Sustainable

Using water eliminates the need for refrigerants, reducing greenhouse gas emissions. Water is a renewable, non-toxic, and nonflammable resource with **no environmental regulations, making it safer and more sustainable.**

04



Reliable

Water-based systems have fewer moving parts, resulting in **less wear and tear, extending equipment lifespan and reducing maintenance costs.** Water is infinite. It never changes, ensuring **long-lasting, reliable solutions.**

05



Indoor air quality

Water-based systems improve indoor air quality by **minimizing the circulation of dust and allergens.** This results in a healthier and cleaner environment. They help **maintain consistent humidity levels**, further enhancing comfort and air quality.

06

Polar Air 360° Services

From concept to comfort, we've got you covered.

Our 360° service ensures expert guidance from **pre-sales consultation to precision engineering, and ongoing after-sales support**. Our deep understanding of your challenges drives us to deliver solutions engineered to meet and exceed your standards. We don't just deliver HVAC solutions – **we're with you every step of the way to ensure we create your ideal indoor climate.**

Pre-Sales

01 Consultation & Advice

Thorough consultations and detailed analysis with our expert team to **understand your project needs and goals**.

02 Customization Options

Multiple customization options available* including different **connection configurations, unit dimensions and color options**.

03 Advanced Tools

Including PA SELECT software for precise product selections, 3D/2D files for **building planning**, and technical data sheets.

04 Polar Air Academy

Product, installation and maintenance training programs to **equip your team with knowledge and skills** needed for success.



05 Sales & Application Engineers

Specialist teams to support your project from start to finish, offering valuable **selection and application assistance**.

06 In-house Procurement

Supply chain control direct from factory, with competitive pricing and **logistics to reduce complexity and lead times**.

After-Sales

Submit a Helpdesk ticket:
SCAN/CLICK QR CODE



Technical Support

01

Dedicated technical support team, **available via Helpdesk** or on-site, to resolve any product or installation issues.

Warranty & Spare Parts

02

Warranty **coverage and readily available spare parts** means that your fan coils remain in top condition.

Maintenance Advice

03

Troubleshooting and maintenance advice to keep your fan coils running at **their optimal performance**.

Polar Air quick reference guide

Designed to provide professionals with the support you need.

This Quick Reference Guide is your go-to resource for our hydronic fan coil range, providing essential capacities at a glance. Designed for engineers, contractors, and specifiers, it ensures you have the right information when you need it.

Whether you're planning a new installation or retrofitting existing systems, this guide is your essential companion.



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Decorative



WITH 0-10VDC EC MOTORS

PHW Highwall 2- & 4-pipe · 6 sizes



Standard package:

- Internal drain pan
- 5mm (0.2") NBR insulation
- G2 (MERV 4) filter

Optional accessories:

- Integrated valves (2/3 way on-off / modulating)
- Sauermann condensate pump
- Electric heater up to 1.5 kW

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR	SOUND PRESSURE LEVEL*
	Limits V	Total kW		Total kW		Flow m3/h	Total dB(A)
Min - Max	208 - 240	1.1 - 6.6		1.2 - 6.6		200 - 1250	25 - 56
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	
Min - Max	110 - 120 208 - 240	3800 - 22199	0.3 - 1.8	5036 - 34509	0.4 - 2.9	117 - 735	

PCGH-3R 4-Way Cassette 2- & 4-pipe · 5 sizes



Standard package:

- Integrated Sauermann condensate pump
- Internal drain pan
- 5mm (0.2") NBR insulation
- G2 (MERV 4) filter

Optional accessories:

- Pre-assembled **HYDRO+VALVE KIT****
- G4 (MERV 8) filter
- ABS fresh air intake flange (up to 30%)
- ABS branch duct
- Electric heater up to 4 kW

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR	SOUND PRESSURE LEVEL*
	Limits V	Total kW		Total kW		Flow m3/h	Total dB(A)
Min - Max	208 - 240	1.1 - 15.0		1.3 - 14.8		190 - 2750	26 - 64
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	
Min - Max	110 - 120 208 - 240	4125 - 50990	0.3 - 4.2	6495 - 79266	0.5 - 6.6	118 - 1618	

METRIC (EUROVENT): Tested under Eurovent Certita standard conditions. **IMPERIAL (AHRI):** Specifications follow AHRI standard conditions.

For non-standard conditions please use our PA SELECT Software. (*) Sound pressure level measured at 1m distance. (**) HYDRO+ VALVE KIT includes 2/3-way body valve, on-off/modulating actuator, strainer, connection pipe, 2x shut-off valve and BSP/NPT connectors.

Floorstanding/Console



WITH 0-10VDC EC MOTORS

PFWB(C) Universal 2- & 4-pipe · 9 sizes



Standard package:

- V-shape internal drain pan (for horizontal or vertical installation)
- 5mm (0.2") NBR insulation
- G2 (MERV 4) filter
- Interchangeable coil connections

Optional accessories:

- Pre-assembled **HYDRC+VALVE KIT****
- Stainless steel drain pan
- G4 (MERV 8) filter
- Supporting feet for floor installation
- Elbow kit for built-in wall installation
- Electric heater up to 3 kW

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR	SOUND PRESSURE LEVEL*
	Limits V	Total kW		Total kW		Flow m3/h	Total dB(A)
Min - Max	208 - 240	1.2 - 13.3		1.1 - 13.9		210 - 2266	29 - 60
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	
Min - Max	110 - 120 208 - 240	3936 - 36130	0.3 - 3.0	4402 - 56165	0.4 - 4.7	124 - 1333	

PFWSL(U) Slim 2- & 4-pipe · 5 sizes



Standard package:

- V-shape internal drain pan (for horizontal or vertical installation)
- 5mm (0.2") NBR insulation
- G2 (MERV 4) filter

Optional accessories:

- Pre-assembled **HYDRC+VALVE KIT****
- Stainless steel drain pan
- Supporting feet for floor installation
- Electric heater up to 1.5 kW
- Integrated Wired Wallpad

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR	SOUND PRESSURE LEVEL*
	Limits V	Total kW		Total kW		Flow m3/h	Total dB(A)
Min - Max	208 - 240	0.6 - 4.2		0.7 - 3.9		100 - 600	29 - 47
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	
Min - Max	110 - 120 208 - 240	1907 - 13751	0.2 - 1.1	2549 - 21377	0.2 - 1.8	58 - 353	

METRIC (EUROVENT): Tested under Eurovent Certita standard conditions. **IMPERIAL (AHRI):** Specifications follow AHRI standard conditions.

For non-standard conditions please use our PA SELECT Software. (*) Sound pressure level measured at 1m distance. (**) HYDRO+ VALVE KIT includes 2/3-way body valve, on-off/modulating actuator, strainer, connection pipe, 2x shut-off valve and BSP/NPT connectors.



Built for HVAC professionals who demand precision.

PA SELECT software streamlines your fan coil selection and quoting for any project, from small installations to large industrial facilities.

An **intuitive interface and customizable parameters** help you find the perfect Polar Air unit for your specific needs - **even under non-standard conditions** like high ΔT .



Discover PA SELECT:
SCAN/CLICK QR CODE

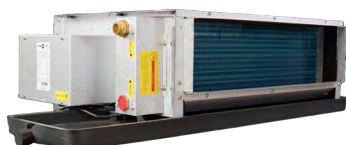


Ducted



WITH 0-10VDC EC MOTORS

PDWA Medium ESP 2- & 4-pipe · 10 sizes · 3R/3R+1/3R+2/4R/4R+2/6R



50Pa · 0.2 in.wg

Standard package:

- Exposed drain pan
- 5mm (0.2") NBR insulation
- G2 (MERV 4) filter
- Interchangeable coil connections

Recommended conditions: 75 Pa / 0.3 in.wg

Optional accessories:

- Pre-assembled **HYDR+VALVE KIT** **
- Integrated condensate pump with float switch
- G4 (MERV 8) filter
- Additional 25mm (1") NBR insulation
- Electric heater up to 6 kW

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dB(A)	Inlet + Rad.dB(A)
Min - Max	208 - 240	1.6 - 23.6		1.2 - 23.2		225 - 3877	15 - 130	39 - 59	42 - 61
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	ESP in.wg		
Min - Max	110 - 120 208 - 240	4433 - 62824	0.4 - 5.2	4708 - 97663	0.4 - 8.1	133 - 2365	0.05 - 0.50		

PDWC High ESP 2- & 4-pipe · 8 sizes · 3R/3R+1/4R/4R+1



50Pa · 0.2 in.wg

Standard package:

- Exposed drain pan
- 5mm (0.2") NBR insulation
- G2 (MERV 4) filter

Recommended conditions: 120 Pa / 0.5 in.wg

Optional accessories:

- Pre-assembled **HYDR+VALVE KIT** **
- Integrated condensate pump with float switch
- G4 (MERV 8) filter
- Additional 25mm (1") NBR insulation
- Electric heater up to 6 kW

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dB(A)	Inlet + Rad.dB(A)
Min - Max	208 - 240	1.9 - 26.5		1.4 - 24.5		259 - 4534	50 - 180	43 - 64	46 - 67
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	ESP in.wg		
Min - Max	110 - 120 208 - 240	6246 - 89369	0.5 - 7.4	5365 - 138928	0.4 - 11.6	152 - 2762	0.20 - 0.80		

PDWSL Slim 2- & 4-pipe · 3 sizes · 3R/3R+1



12Pa · 0.05 in.wg

Standard package:

- Integrated Sauermann condensate pump
- 5mm (0.2") NBR insulation
- G2 (MERV 4) filter

Recommended conditions: 12 Pa / 0.05 in.wg

Optional accessories:

- Pre-assembled **HYDR+VALVE KIT** **
- Stainless steel drain pan
- G4 (MERV 8) filter
- Additional 10mm (0.4") NBR insulation
- Electric heater up to 3 kW

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dB(A)	Inlet + Rad.dB(A)
Min - Max	208 - 240	1.1 - 6.4		0.9 - 6.5		175 - 1255	0 - 30	22 - 46	25 - 49
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	ESP in.wg		
Min - Max	110 - 120 208 - 240	3667 - 16420	0.3 - 1.4	3536 - 33308	0.3 - 2.8	101 - 735	0 - 0.12		

METRIC (EUROVENT): Tested under Eurovent Certita standard conditions. **IMPERIAL (AHRI):** Specifications follow AHRI standard conditions.

For non-standard conditions please use our PA SELECT Software. (*) Sound pressure level measured at 1m distance. (**) HYDR+ VALVE KIT includes 2/3-way body valve, on-off/modulating actuator, strainer, connection pipe, 2x shut-off valve and BSP/NPT connectors.

Specialty



WITH 0-10VDC EC MOTORS

PDWD Double Skin Ducted 2- & 4-pipe · 5 sizes · 3R/3R+1/4R/4R+2/6R



50Pa · 0.2 in.wg

Standard package:

- Internal drain pan
- Double insulation 15mm (0.6") + 25mm (1")
- G2 (MERV 4) filter

Optional accessories:

- Pre-assembled **HYDRC+VALVE KIT****
- Stainless steel drain pan
- G4 (MERV 8) or F8 (MERV 14) filter
- Electric heater up to 9 kW
- Supply/Return air plenum

Recommended conditions: 150 Pa / 0.6 in.wg

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dB(A)	Inlet + Rad.dB(A)
Min - Max	208 - 240	2.2 - 37.1		1.8 - 35.1		305 - 6125	50 - 200	43 - 65	46 - 65
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	ESP in.wg		
Min - Max	110 - 120 208 - 240	9968 - 77691	0.8 - 6.5	11105 - 120774	0.9 - 10.1	242 - 2564	0.20 - 0.80		

HAHU-B Horizontal Mini AHU 2- & 4-pipe · 5 sizes · 5R/5R+2/6R/6R+2



250Pa · 1 in.wg

Standard package:

- Internal drain pan
- Double insulation 15mm (0.6") + 25mm (1")
- G2 (MERV 4) filter

Optional accessories:

- Pre-assembled **HYDRC+VALVE KIT****
- Stainless steel drain pan
- G4 (MERV 8) or F8 (MERV 14) filter
- Electric heater up to 9 kW
- Supply/Return air plenum

Recommended conditions: 250 Pa / 1 in.wg

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dB(A)	Inlet + Rad.dB(A)
Min - Max	208 - 240 440 - 480	6.9 - 47.1		7.1 - 48.3		1319 - 8257	100 - 400	64 - 83	61 - 80
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	ESP in.wg		
Min - Max	208 - 240 440 - 480	33785 - 197100	2.8 - 16.4	47832 - 306401	4.0 - 25.5	799 - 4873	0.40 - 1.60		

VAHU Vertical Mini AHU 2- & 4-pipe · 5 sizes · 5R/5R+2



120Pa · 0.5 in.wg

Standard package:

- Internal drain pan
- Double insulation 15mm (0.6") + 25mm (1")
- G2 (MERV 4) filter
- Top + down flow distribution

Optional accessories:

- Pre-assembled **HYDRC+VALVE KIT****
- Stainless steel drain pan
- G4 (MERV 8) or F8 (MERV 14) filter
- Electric heater up to 9 kW
- Supply/Return air plenum

Recommended conditions: 150 Pa / 0.6 in.wg

METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dB(A)	Inlet + Rad.dB(A)
Min - Max	208 - 240	9.6 - 50.5		9.2 - 47.6		1286 - 8186	50 - 200	64 - 87	61 - 84
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	ESP in.wg		
Min - Max	208 - 240	22797 - 155814	1.9 - 9.9	34498 - 242220	2.9 - 20.2	737 - 4772	0.20 - 0.80		

METRIC (EUROVENT): Tested under Eurovent Certita standard conditions. **IMPERIAL (AHRI):** Specifications follow AHRI standard conditions.

For non-standard conditions please use our PA SELECT Software. (*) Sound pressure level measured at 1m distance. (**) HYDRC+ VALVE KIT includes 2/3-way body valve, on-off/modulating actuator, strainer, connection pipe, 2x shut-off valve and BSP/NPT connectors.



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