



Quick reference guide

hydronic fan coils

Metric & Imperial



View Metric catalog:
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QR CODE



View Imperial catalog:
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QR CODE

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

Hydronic fan coils follow standard installation and maintenance practices, **which removes the need for VRF-certified technicians.** This keeps things **simple and cost-effective**, which is ideal for large projects, new construction or remote sites. Plus they are **easier to replace, repair and maintain.**

03



Sustainable

Using water eliminates the need for refrigerants inside the building, reducing greenhouse gas emissions. Plus water is a renewable, non-toxic, and non-flammable 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, **Revit/BIM files for 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 & engineering experts

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

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

01

Warranty & spare parts

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

02

Maintenance advice

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

03

(*) Minimum order quantities apply.

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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Find a Polar Air Rep:
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DECORATIVE

PHW Highwall

4 sizes

2-pipe · 4-pipe



Standard Package includes:

- **I-Type Controllers:** Infrared Handset
- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted steel internal
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 5 mm (0.2")
- **Hoses:** flexible

Optional Accessories includes:

- **I-Type Controllers:** Wired Wallpad
- **Valves:** pre-assembled ** **HYDRIC+VALVE KIT**
- **Electric heater:** up to 1.5 kW
- **Condensate pump:** Sauermann with float switch
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

Certifications:



	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR	SOUND PRESSURE LEVEL*
	Limits V	Total kW		Total kW		Flow m3/h	Total dBA
METRIC							
Min - Max	208 - 240	1.5 - 6.6		1.3 - 6.6		270 - 1250	
IMPERIAL		Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	
Min - Max	110 - 120 208 - 240	4939 - 22199	0.4 - 1.8	5036 - 34509	0.4 - 2.9	159 - 735	26 - 56

PCGH-3R 4-Way Cassette

5 sizes

2-pipe · 4-pipe



Standard Package includes:

- **I-Type Controllers:** Infrared Handset
- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted steel internal/external
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 5 mm (0.2")
- **Condensate pump:** Sauermann with float switch

Optional Accessories includes:

- **I-Type Controllers:** Wired Wallpad
- **Valves:** pre-assembled ** **HYDRIC+VALVE KIT**
- **Electric heater:** up to 4 kW
- **Filter:** G4 (MERV 8)
- **Ducts:** ABS branch duct flange
- **Flanges:** ABS fresh air intake (up to 30%)
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

Certifications:

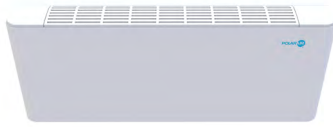


	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR	SOUND PRESSURE LEVEL*
	Limits V	Total kW		Total kW		Flow m3/h	Total dBA
METRIC							
Min - Max	208 - 240	1.3 - 15.0		1.5 - 15.5		200 - 2750	
IMPERIAL		Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	
Min - Max	110 - 120 208 - 240	4314 - 50990	0.4 - 4.2	6495 - 79266	0.5 - 6.6	118 - 1618	26 - 64

PFWB(C) Universal Console

5 sizes

2-pipe · 4-pipe

**Standard Package includes:**

- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted internal V-shape for horizontal/vertical installation
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 5 mm (0.2")

Optional Accessories includes:

- **I-Type Controllers:** Wired Wallpad
- **Valves:** pre-assembled ** HYDRO+VALVE KIT
- **Drain pan:** stainless steel internal
- **Electric heater:** up to 3 kW
- **Filter:** G4 (MERV 8)
- **Supporting feet:** for floor installations
- **Elbow kit:** 90° for vertical/horizontal built-in wall installations
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

Certifications:



METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR	SOUND PRESSURE LEVEL*
	Limits V	Total kW		Total kW		Flow m3/h	Total dBA
Min - Max	208 - 240	1.2 - 11.7		1.1 - 12.3		210 - 1988	29 - 57
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	
Min - Max	110 - 120 208 - 240	3936 - 31555	0.3 - 2.6	4402 - 49054	0.4 - 4.1	124 - 1169	

PFWSL(U) Slim Console

5 sizes

2-pipe · 4-pipe

**Standard Package includes:**

- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted internal for horizontal/vertical installation
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 5 mm (0.2")

Optional Accessories includes:

- **I-Type Controllers:** Infrared Handset, Wired Wallpad (option to integrate into unit)
- **Valves:** pre-assembled ** HYDRO+VALVE KIT
- **Drain pan:** stainless steel internal
- **Electric heater:** up to 1.5 kW
- **Supporting feet:** for floor installations
- **Elbow kit:** 90° for vertical/horizontal built-in wall installations
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

AVAILABLE FOR NORTH AMERICA ONLY

Certifications:



METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR	SOUND PRESSURE LEVEL*
	Limits V	Total kW		Total kW		Flow m3/h	Total dBA
Min - Max	208 - 240	0.6 - 4.1		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 PASELECT Software.
 (*) Sound pressure level measured at 1m distance in a reverberation test room with the minimum volume of 200 m³. (**) 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.

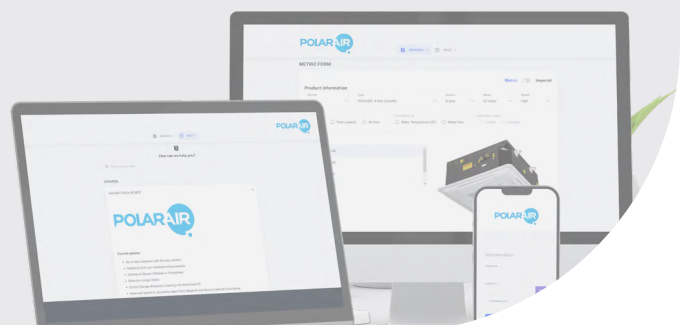
**Built for HVAC professionals who demand precision.**

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



PDWA Medium ESP Ducted

5 sizes

2-pipe · 4-pipe

3R/3R+1/3R+2/4R/4R+2/6R



Standard Package includes:

- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted steel external
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 5 mm (0.2")
- **Filter rack:** Toolless 25.4 mm (1")

Optional Accessories includes:

- **I-Type Controllers:** Wired Wallpad
- **Valves:** pre-assembled ** **HYDRIC+VALVE KIT**
- **Drain pan:** stainless steel external
- **Electric heater:** up to 6 kW
- **Filter:** G4 (MERV 8)
- **Insulation:** NBR 10 mm (0.3"), 15 mm (0.6"), 25 mm (1")
- **Condensate pump:** Sauermann with float switch
- **Plenum:** different options available
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

Recommended Static Pressure: **75 Pa**
0.3 in.wg

Certifications:



METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dBA	Inlet + Rad. dBA
Min - Max	208 - 240	1.6 - 13.4		1.3 - 13.0		225 - 2020	15 - 110	43 - 58	45 - 60
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 - 35601	0.4 - 3.0	4970 - 55343	0.4 - 4.6	133 - 1239	0.06 - 0.44		

PDWC High ESP Ducted

5 sizes

2-pipe · 4-pipe

3R/3R+1/3R+2/4R/4R+2/6R



Standard Package includes:

- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted steel external
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 5 mm (0.2")
- **Filter rack:** Toolless 25.4 mm (1")

Optional Accessories includes:

- **I-Type Controllers:** Wired Wallpad
- **Valves:** pre-assembled ** **HYDRIC+VALVE KIT**
- **Drain pan:** stainless steel external
- **Electric heater:** up to 6 kW
- **Filter:** G4 (MERV 8)
- **Insulation:** NBR 10 mm (0.3"), 15 mm (0.6"), 25 mm (1")
- **Condensate pump:** Sauermann with float switch
- **Plenum:** different options available
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

Recommended Static Pressure: **120 Pa**
0.5 in.wg

Certifications:



METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dBA	Inlet + Rad. dBA
Min - Max	208 - 240	3.2 - 30.1		2.3 - 27.6		445 - 4534	50 - 180	45 - 64	48 - 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	8935 - 101423	0.7 - 8.5	11085 - 148625	0.9 - 12.4	262 - 2762	0.20 - 0.72		

PDWB High ESP Ducted (built-in drain pan)

3 sizes

2-pipe · 4-pipe

3R/3R+1/3R+2/4R/4R+2/6R



Standard Package includes:

- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted steel internal
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 5 mm (0.2")
- **Filter rack:** Toolless 25.4 mm (1")

Optional Accessories includes:

- **I-Type Controllers:** Wired Wallpad
- **Valves:** pre-assembled ** **HYDRIC+VALVE KIT**
- **Drain pan:** stainless steel internal
- **Electric heater:** up to 9 kW
- **Filter:** G4 (MERV 8), F8 (MERV 14)
- **Insulation:** NBR 10 mm (0.3"), 15 mm (0.6")
- **Condensate pump:** Sauermann with float switch
- **Plenum:** different options available
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

Recommended Static Pressure: **150 Pa**
0.6 in.wg

Certifications:



METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dBA	Inlet + Rad. dBA
Min - Max	208 - 240	4.4 - 25.3		2.4 - 27.0		612 - 4359	50 - 200	53 - 71	50 - 68
IMPERIAL	Limits V	Total BTU/Hr	Total Ton	Total BTU/Hr	Total Ton	Flow CFM	ESP in.wg		
Min - Max	110 - 120 208 - 240	13007 - 85075	1.1 - 7.1	16081 - 131553	1.3 - 11.0	307 - 2564	0.20 - 0.80		

PDWD Double Skin Ducted

4 sizes

2-pipe · 4-pipe

3R/3R+1/3R+2/4R/4R+2/6R

**Standard Package includes:**

- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted steel internal
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 25 mm (1")
- **Filter rack:** Toolless 25.4 mm (1")

Optional Accessories includes:

- **I-Type Controllers:** Wired Wallpad
- **Valves:** pre-assembled ** **HYDRQ+VALVE KIT**
- **Drain pan:** stainless steel internal
- **Electric heater:** up to 6 kW
- **Filter:** G4 (MERV 8), F8 (MERV 14)
- **Plenum:** different options available
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

Recommended Static Pressure: **150 Pa**
0.6 in.wg

Certifications:



METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dBA	Inlet + Rad. dBA
Min - Max	208 - 240	4.3 - 37.1		3.8 - 35.1		575 - 5820	50 - 200	45 - 65	48 - 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	11136 - 92631	0.9 - 7.7	14464 - 139556	1.2 - 11.6	351 - 2522	0.20 - 0.80		

HAHU-B Horizontal Mini AHU

5 sizes

2-pipe · 4-pipe

5R/5R+2/6R/6R+2

**Standard Package includes:**

- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted steel internal
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 25 mm (1")
- **Filter rack:** Toolless 25.4 mm (1")

Optional Accessories includes:

- **I-Type Controllers:** Wired Wallpad
- **Valves:** pre-assembled ** **HYDRQ+VALVE KIT**
- **Drain pan:** stainless steel internal
- **Electric heater:** up to 9 kW
- **Filter:** G4 (MERV 8), F8 (MERV 14)
- **Plenum:** different options available
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

Recommended Static Pressure: **250 Pa**
1.0 in.wg

Certifications:



METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dBA	Inlet + Rad. dBA
Min - Max	208 - 240 380 - 460	6.9 - 47.1		7.1 - 48.5		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 - 240 380 - 460	30635 - 197100	2.6 - 16.4	36696 - 306401	3.1 - 25.5	776 - 4857	0.40 - 1.60		

VAHU Vertical Mini AHU

5 sizes

2-pipe · 4-pipe

5R/5R+2/6R/6R+2

**Standard Package includes:**

- **Motor:** 0-10VDC EC motor (up to 30% energy savings compared to AC motors)
- **Valves:** manual air vent & water purge
- **Drain pan:** painted steel internal
- **Filter:** G2 (MERV 4)
- **Insulation:** NBR 25 mm (1")
- **Filter rack:** Toolless 25.4 mm (1")
- **Air flow distribution:** Top, Down

Optional Accessories includes:

- **I-Type Controllers:** Wired Wallpad
- **Valves:** pre-assembled ** **HYDRQ+VALVE KIT**
- **Drain pan:** stainless steel internal
- **Electric heater:** up to 9 kW
- **Filter:** G4 (MERV 8), F8 (MERV 14)
- **Plenum:** different options available
- **Integrated transformer:** converts from 230V-115V to 24V
- **Disconnect switch:** integrated in control box

Recommended Static Pressure: **150 Pa**
0.6 in.wg

Certifications:



METRIC	MOTOR VOLTAGE	COOLING CAPACITY		HEATING CAPACITY		AIR		SOUND PRESSURE LEVEL*	
	Limits V	Total kW		Total kW		Flow m3/h	ESP Pa	Outlet dBA	Inlet + Rad. dBA
Min - Max	208 - 240	8.8 - 46.5		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	28990 - 155814	2.4 - 13.0	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 PASELECT Software.
 (*) Sound pressure level measured at 1m distance in a reverberation test room with the minimum volume of 200 m³. (**) HYDRQ+ 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.



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