

Our Accessories

01 Controllers (only available with I-Type Control)

Wired Wallpad

WWP-V3 Standalone Control: Control each main unit's parameter settings and checks individually. Ideal for large applications with BMS where units need to be controlled independently.

WWP-V3-MS Group Control: Control up to 32 secondary units with a single main unit, allowing individual or grouped parameter settings and checks. Ideal for small applications where BMS is not feasible and simultaneous control of multiple units is needed.



Common Features: Touch control screen · Error display with addressable diagnostics (main unit Wallpad displays secondary unit address and error type) · Onboard room air temperature sensor

MODEL NAME	WWP V3 MS	WWP V3
Supply voltage	24 VAC / VDC	5 VDC
Control device	2-pipe / 2-pipe + electric heater / 4-pipe	
Functionality	Group Control up to 32 units	1 to 1
Installation	Flush mounting *	Surface mounting
Power source	24V transformer or an external source	Polar Air I-Type control PCB
Temperature setpoint range	16 - 30°C (60.8 - 86°F)	
Fan control	Low / Medium / High / AUTO fan speed	
Valve control	On/off or modulating / 2-way or 3-way / 6-way	
Mode control	Cooling / Dehumidification / Heating / Ventilation / AUTO mode / Sleep mode	
Key lock	Yes	
Louver swing	Yes	
Programmable	7 Days On/Off Timer	
Communication protocol	Modbus	Low voltage signal
BMS parameter settings	-	Read and/or write
Backlight	White	
Front color	Black	Black
Back color	White	Metal
Housing material	Flame-retardant ABS + Aluminum alloy	
Dimensions (W x D x H)	95 x 64.5 x 95 mm (3 3/4 x 2 9/16 x 3 3/4")	95 x 15 x 95 mm (3 3/4 x 9/16 x 3 3/4")

*Requires a flush mounting box for installation.

IRHS-V1 Infrared Handset

Global control functionality for all main and secondary units in a single installation.

Features: 1-directional infrared communication · Transmission range of up to 3m · Compact mechanical keypad with flame-retardant ABS casing · Lightweight and easy to use · On/Off timer · Fan, mode, and louver swing control · Sleep mode to gradually reduce fan speed for quieter operation and energy optimization · Onboard room air temperature sensor · 16 – 30°C temperature setpoint range · Optional bracket for wall mounting included · Batteries: AAA (not included)



02 Electrical

LED Receiver

Infrared receiver in ABS casing with up to 180 cm (70 7/8") length pre-wiring, which can be connected with I-Type controls only. LED lights show working or error mode. **Available for all models.**



Integrated Transformer

Converts 230V-115V mains power to 24V, eliminating the need for external transformers. This simplifies installation, and ensures compatibility with standard 24V control systems. **Available for all models.**



Disconnect Switch

Provides a means to safely isolate electrical power during maintenance or emergency shutdowns. **Available for all models except PHW Highwall and PCGH-3R 4-Way Cassette (already included).**



03 Valves

We offer a wide variety of valve options to meet different project needs, divided in 3 main packages:

Basic Kit

Includes 2 or 3-way body valve + on-off or modulating actuators, both in 24V or 110-240V, + BSPT or NPT connectors.

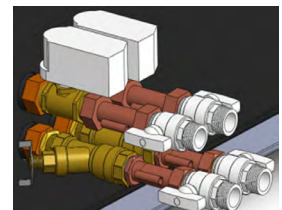
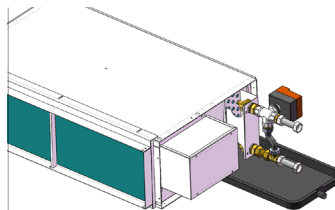
Standard Kit

Includes Basic Kit + connection piping kit to the unit.

Upgrade to HYDRO+VALVE KIT

Our new HYDRO+VALVE KIT is a **smart, cost-effective upgrade** that includes all components for an energy-efficient system. It's designed to make installation significantly faster and easier.

Includes Standard Kit + 2x shut off valves + strainer + manual balancing valve.



MODEL	BASIC	STANDARD	HYDRO+VALVE
PHW	✓ Integrated	-	✓ Outside of the casing
PCGH-3R	✓	-	✓
PFWB(C)	-	✓ Integrated in casing	✓
PDWA	✓	✓	✓
PDWC	✓	✓	✓
PDWB	✓	✓	✓
PDWD	✓	✓	✓
HAHU-B	✓	✓	✓
VAHU	✓	✓	✓

Belimo® valves are available for some models. Please contact us at hello@polaraircs.com.

Your **hydronic partner**: fan coils **57**

04 Drain Pans

All our hydronic fan coils come equipped with a **drain pan as part of the standard package**. These are made from either painted steel or ABS plastic (PHW and PCGH-3R models only).

Stainless steel drain pans are available as an optional accessory. They offer exceptional corrosion resistance in humid environments, structural integrity under thermal and mechanical stress, and a non-porous, easy-to-clean surface.



MODEL	ABS PLASTIC	PAINTED STEEL	STAINLESS STEEL
PHW	Standard	-	-
PCGH-3R	Standard integrated (inside unit)	-	-
PFWB(C)	-	Standard integrated	Optional
PDWA	-	Standard integrated	Optional
PDWC	-	Standard integrated	Optional
PDWB	-	Standard integrated (inside unit)	Optional
PDWD	-	Standard integrated (inside unit)	Optional
HAHU-B	-	Standard integrated (inside unit)	Optional
VAHU	-	Standard integrated (inside unit)	Optional

05 Condensate Pumps

Optional pre-installed **Sauermann or Standard condensate pumps with float switch** available for selected FCU models.

They ensure **safe condensate removal** in installations where gravity drainage isn't feasible - protecting both the unit and the space.



MODEL	STANDARD	OPTIONAL
PHW	-	✓
PCGH-3R	✓	-
PFWB(C)	-	-
PDWA	-	✓
PDWC	-	✓
PDWB	-	✓
PDWD	-	✓
HAHU-B	-	✓
VAHU	-	✓

06 Electric Heaters

We offer a wide variety of electric heater options to meet different project needs. Each Heater Kit includes an **auto-klixon thermal switch**, and a **fuse/contact relay** that is factory wired & tested.

Non-standard electric heater sizes are available upon request - please contact us at hello@polaraircs.com.

PTC Kit

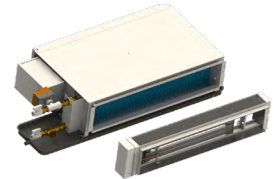
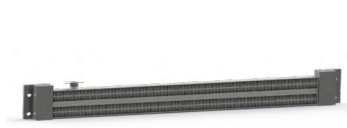
With 2-stage safety cut-out and can be configured as booster heaters or primary heaters.

Tube Kit

With 2-stage safety, cut-outs can be configured as booster heaters or primary heaters.

Module Kit

With 2-stage safety, cut-outs, our modules are easy to connect to the control box with mounting fixtures. The electric heater configuration is selectable by Modbus protocol.



MODEL	PTC EH KIT	TUBE EH KIT	MODULE EH KIT
PHW	From 1 to 1.5 kW	-	-
PCGH-3R	-	From 1 to 4 kW	-
PFWB(C)	From 1 to 3 kW	-	-
PDWA	-	-	From 1.5 to 6 kW
PDWC	-	-	From 2 to 6 kW
PDWB	-	-	From 3 to 6 kW
PDWD	-	-	From 3 to 9 kW
HAHU-B	-	-	From 4.5 to 9 kW
VAHU	-	-	From 4.5 to 9 kW

07 NBR Insulation

All our fan coils come standard with **NBR insulation**, with **upgrade options available**. Thicker insulation enhances thermal performance by reducing heat exchange through casing and piping for:

- **Better temperature stability** in conditioned spaces.
- **Reduced energy consumption**, as the system doesn't need to compensate for thermal losses.



MODEL	STANDARD	OPTIONAL (mm)
PHW	5 mm (0.2")	-
PCGH-3R	5 mm (0.2")	-
PFWB(C)	5 mm (0.2")	-
PDWA	5 mm (0.2")	10mm (0.4") / 15 mm (0.6") / 25 mm (1")
PDWC	5 mm (0.2")	
PDWB	5 mm (0.2")	10mm (0.4") / 15 mm (0.6")
PDWD	25 mm (1")	-
HAHU-B	25 mm (1")	-
VAHU	25 mm (1")	-

08 Filters

All our fan coils come equipped with standard filtration. Optional upgrades are available if your project requires enhanced air quality.

Toolless filter racks for Ducted models are included for easy and quick maintenance and installation.

Standard included

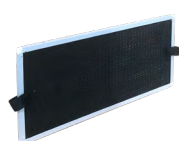
G2 (MERV 2) – Ideal for basic residential or light commercial environments where minimal filtration is sufficient.

Upgrade

G4 (MERV 8) – Captures finer particles such as mold spores and dust mites, making it suitable for hygiene-sensitive areas and improving overall indoor air quality.

Premium

F8 (MERV 14) – Designed for specialized or large-scale industrial applications, including cleanrooms and pharmaceutical facilities.



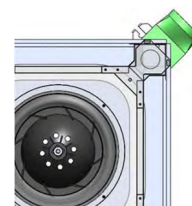
MODEL	STANDARD		UPGRADE	PREMIUM
	Toolless Filter Rack	G2 (MERV 4)	G4 (MERV 8)	F8 (MERV 14)
PHW	-	3 mm (1/8")	-	-
PCGH-3R	-	3 mm (1/8")	9.5 mm (3/8")	-
PFWB(C)	-	6.4 mm (1/4")	9.5 mm (3/8") on vertical air return only	-
PDWA	✓	7 mm (9/32")	50 mm (2")	100 mm (4")
PDWC	✓	7 mm (9/32")	50 mm (2")	100 mm (4")
PDWB	✓	25 mm (1")	50 mm (2")	100 mm (4")
PDWD	✓	25 mm (1")	50 mm (2")	100 mm (4")
HAHU-B	✓	25 mm (1")	50 mm (2")	100 mm (4")
VAHU	✓	25 mm (1")	50 mm (2")	100 mm (4")

09 others

Flanges for fresh air

Allows up to 30% of unit air flow up to a maximum of 100m³/h (59CFM) as fresh air intake (15% per connection with a maximum of 2 connections). Includes knock out fresh air connection holes. ABS plastic flanges use only two screws for fixture to unit.

Available for PCGH-3R 4-Way Cassette models.



Flanges for branch duct

For delivery of treated air to adjacent spaces with 2 connectors per single fan coil unit.

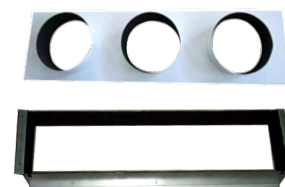
Available for PCGH-3R 4-Way Cassette models.



Supply/Return Air Plenum

Optional supply and return plenums allow ducted connection to the unit, improving air distribution, reducing noise, and supporting concealed or ceiling-integrated installations without compromising airflow or efficiency. There are 2 options available: modulating or on/off damper.

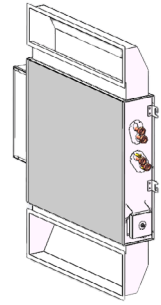
Available for Ducted and AHU models.



90° Elbow Kit

Designed to redirect airflow 90° (typically forward-facing) when the unit is installed within a wall or recessed space, improving circulation and supporting clean, flush-fit installations without compromising performance.

Available for uncased PFWB Universal Console.



Supporting Feet

Our Console fan coils offer two supporting feet options, designed for Exposed applications, enhancing aesthetics and flexibility in residential, hospitality, and retrofit settings.

Available for PFWBC Cased Universal Console.

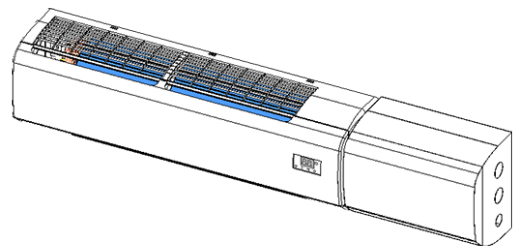


PFWBC Universal Plastic

10 Customization

We offer a wide range of customization options to meet specific project needs. Customizations are subject to **minimum order quantities**, so please contact us at hello@polaraircs.com to discuss feasibility.

- Row & Connection Configurations
- Unit Dimensions
- Casing Color
- Air Return & Supply Direction
- Electrical Connections
- Component Repositioning
- Hydraulic Connection Kit
- Horizontal to Vertical Application (vice versa)
- Tropicalization treatments for dehumidification



Polar Air fan coil customization generally has 3 phases:



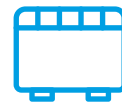
01 Study

We assess technical requirements, options, and minimum order quantities:
approx. 2–4 weeks



02 Approval

Technical drawings and specs are reviewed and confirmed with the client:
approx. 2–4 weeks



03 Mockup

A sample unit is produced and approved before mass production:
approx. 6–8 weeks

