
HORIZONTAL
MINI AIR
HANDLING
UNIT

HAHU-EC
[EC MOTOR]

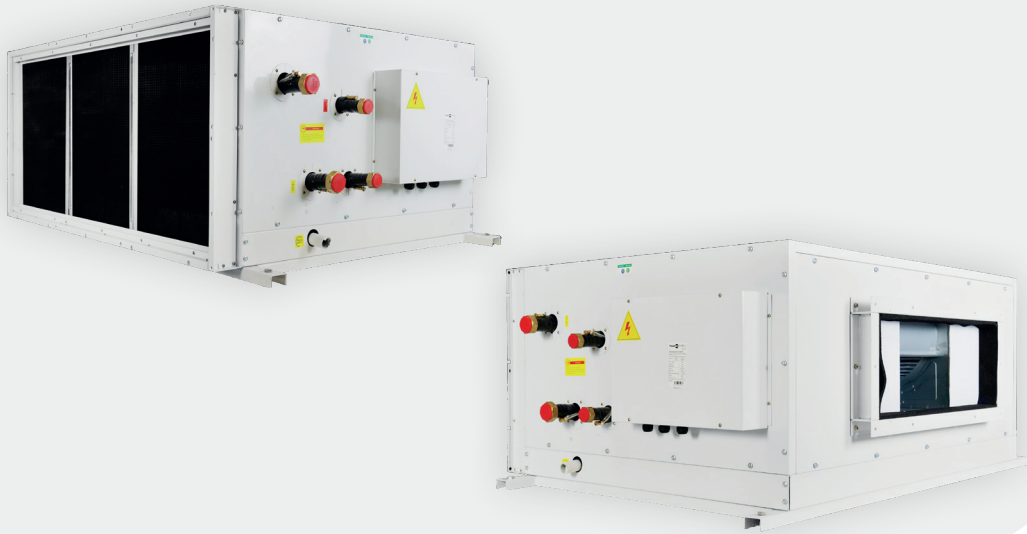
VERTICAL
MINI AIR
HANDLING
UNIT

VAHU-EC
[EC MOTOR]

MINI AHU DUCTED FAN COILS

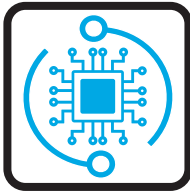


HAHU - HORIZONTAL MINI AIR HANDLING UNIT



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.

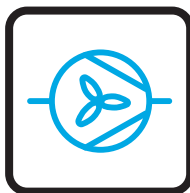
Please refer to page 14 for further information on controls.

ENERGY EFFICIENT MOTORS



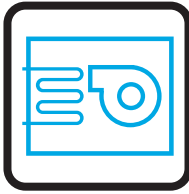
EC motors allow the centrifugal fans to operate at optimum airflow performance, energy efficiency and quiet operation. EC motors include driven control PCB, constant torque, permanent magnet and 3 speeds pre-set or modulating with a 0-10 VDC signal for precise air balancing control.

FAN BLOWER



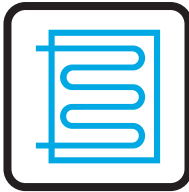
Galvanized steel housing center plate fixed impeller, with riveting compression on the end ring and galvanized steel sheet mounting feet to ensure adequate strength, All impellers and motors are fully balanced according to ANSI/AMCA-204 standard for smooth and quiet operation.

STRUCTURE



Made from frameless integrated folded steel structure, it uses a sandwich panel consisting of two walls with high-pressure PU foam inner insulation. It has couplings for the connection of ducting and gravity drain pan with insulation for condensation. The unit has an easy access to fans, motors and filters.

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 35 bar, with maximum operating limits at 20 bar.

READY TO INSTALL



The Horizontal Mini Air Handling unit range is offered as a complete package including standard items such as the internal drain pan, double sandwich panel insulation of 10mm + 25mm, and a G2 (MERV 4) filter. Furthermore, we offer multiple optional accessories.

KEY POINTS

- Auto Dynamic Balancing with I-Control
- External Static Pressure up to 350 Pa.
- Compact dimension with Cooling capacity more than 60 kW and 9000 m³/h of airflow available.
- Internal Drain Pan



ACCESSORIES

- IR Handset or Wired Wall Pad (Available with I-Control)
- Thermostat Controller (Available with W-Control)
- G4 (Merv 8) or F8 (MERV 14) Filters
- Electric heater up to 9kW
- 2 or 3 Way On/Off & Modulating Valves
- Belimo Valve Kit
- Integrated Condensate Pump
- Supply/Return air Plenum
- Stainless Steel Drain Pan

*Please refer to page 80 for further information and accessories.

TECHNICAL SPECIFICATIONS

Hydronic Horizontal Mini Air Handling Unit, 5R, 2 Pipe with **EC Motor**

UNIT GENERAL SPECS	HAHU-5R-[Size]-V-ECM			200	300	400	600	800
	Configuration			2-pipe				
	Number of Fan Blowers			1			2	
	Power Supply (V/Ph/Hz)			220 - 240/1/50 - 60				
AIR	Total Air Flow	H	m ³ /h	2222	3160	4093	6321	8186
		M		1912	2703	3495	5407	6990
		L		1361	1916	2475	3833	4950
	External Static Pressure	H	Pa	120				
		M						
		L						
COOLING	Total Cooling Capacity	H	kW	14.67	20.89	26.13	40.34	50.83
		M		13.06	18.51	23.07	35.74	44.88
		L		10.09	14.13	17.62	27.28	34.27
	Sensible Cooling Capacity	H		10.27	14.50	18.40	28.29	35.80
		M		9.09	12.72	16.06	24.81	31.25
		L		6.91	9.59	12.13	18.70	23.60
HEATING	Heating Capacity	H	kW	13.66	19.36	24.70	37.81	48.10
		M		12.16	17.15	21.81	33.49	42.47
		L		9.40	13.09	16.65	25.57	32.43
	Max. Electric Heater Capacity		kW	4.5	6	7.5	9	
SOUND	Pressure Level (Outlet)		dB(A)	73/68/64	78/73/69	80/75/71	81/76/72	83/78/73
	Pressure Level (Inlet + Radiated)			70/65/61	75/70/66	77/72/68	78/73/69	80/75/70
	Power Level (Outlet)			82/77/73	87/82/78	89/84/80	90/85/81	92/87/82
	Power Level (Inlet + Radiated)			79/74/70	84/79/75	86/81/77	87/82/78	89/84/79
ELECTRICAL	Power Input	H	W	412	850	1015	1700	2030
		M		375	650	850	1,300	1,530
		L		320	350	500	700	1000
	Running Current (H)		A	3.58	7.39	8.83	14.78	17.65
HYDRONIC	Cooling Water Flow Rate	H	L/h	2514	3582	4480	6916	8714
		M		2239	3173	3955	6126	7694
		L		1730	2422	3020	4677	5874
	Cooling Pressure Drop	H	kPa	29.9	64.2	30.1	48.5	43.5
		M		24.3	51.6	24.0	39.0	34.7
		L		15.3	31.7	14.8	24.0	21.4
	Heating Water Flow Rate	H	L/h	2342	3318	4234	6482	8246
		M		2085	2939	3739	5741	7281
		L		1611	2244	2854	4383	5559
	Heating Pressure Drop	H	kPa	22.1	47.1	22.8	36.3	33.2
		M		17.9	37.9	18.2	29.2	26.5
		L		11.3	23.3	11.2	17.9	16.3

EUROVENT TESTING CONDITIONS:

a. Cooling mode (2-pipe):

- Return air temperature: 27°C DB/19°C WB
- Inlet/ outlet water temperature: 7°C/ 12°C

b. Heating mode (2-pipe):

- Return air temperature: 20°C
- Inlet water temperature: 45°C/40°C

TECHNICAL SPECIFICATIONS

Hydronic Horizontal Mini AHU, 5R+2 (Auxiliary Heating Coil), 4 Pipe with **EC Motor**

UNIT GENERAL SPECS	HAHU-5R+2-[Size]-P-ECM			200	300	400	600	800
	Configuration			4-pipe				
	Number of Fan Blowers			1			2	
	Power Supply (V/Ph/Hz)			220 - 240/1/50 - 60				
AIR	Total Air Flow	H	m ³ /h	1999	3000	3942	6000	7884
		M		1773	2603	3400	5206	6801
		L		1286	1862	2424	3724	4847
	External Static Pressure	H	Pa	120				
		M						
		L						
COOLING	Total Cooling Capacity	H	kW	13.46	20.00	25.37	38.62	49.35
		M		12.36	18.05	22.67	34.86	44.10
		L		9.63	13.78	17.40	26.61	33.84
	Sensible Cooling Capacity	H		9.39	13.86	17.84	27.02	34.71
		M		8.54	12.38	15.76	24.14	30.67
		L		6.58	9.35	11.97	18.23	23.29
HEATING	Heating Capacity	H	kW	13.28	19.15	24.65	37.25	47.26
		M		12.19	17.28	22.03	33.62	42.23
		L		9.50	13.20	16.90	25.67	32.40
SOUND	Pressure Level (Outlet)		dB(A)	73/68/64	78/73/69	80/75/71	81/76/72	83/78/73
	Pressure Level (Inlet + Radiated)			70/65/61	75/70/66	77/72/68	78/73/69	80/75/70
	Power Level (Outlet)			82/77/73	87/82/78	89/84/80	90/85/81	92/87/82
	Power Level (Inlet + Radiated)			79/74/70	84/79/75	86/81/77	87/82/78	89/84/79
ELECTRICAL	Power Input	H	W	412	850	1015	1700	2030
		M		375	650	850	1,300	1,530
		L		320	350	500	700	1000
	Running Current (H)		A	3.58	7.39	8.83	14.78	17.65
HYDRONIC	Cooling Water Flow Rate	H	L/h	2308	3428	4349	6620	8460
		M		2118	3095	3887	5976	7560
		L		1650	2363	2982	4562	5801
	Cooling Pressure Drop	H	kPa	25.7	59.3	28.5	44.8	41.2
		M		22.0	49.3	23.3	37.3	33.7
		L		14.0	30.4	14.5	22.9	20.9
	Heating Water Flow Rate	H	L/h	1138	1641	2113	3193	4051
		M		1045	1481	1888	2882	3620
		L		814	1131	1448	2200	2778
	Heating Pressure Drop	H	kPa	15.0	34.4	16.6	48.8	26.7
		M		12.9	28.6	13.6	40.6	21.8
		L		8.2	17.6	8.4	25.0	13.5

EUROVENT TESTING CONDITIONS:

a. Cooling mode (4-pipe):

- Return air temperature: 27°C DB/19°C WB.
- Inlet/ outlet water temperature: 7°C/ 12°C

b. Heating mode (4-pipe):

- Return air temperature: 20°C
- Inlet water temperature: 65°C/55°C

LOOKING FOR DIFFERENT CONFIGURATIONS?

While the most common configurations are specified in the previous sections, we have many more available with over +2,500 product configurations in our portfolio.

Here is a sneak peak of different configurations available for this range.

Further information can be accessed through:

PASelect Selection software

Polar Air CS website

By **contacting your sales representative**

+2 PIPE CONFIGURATIONS AVAILABLE



6 Row Coil configurations are available for applications requiring higher capacity. Other advantages include:

Enhanced Heat Transfer Efficiency: Larger surface area ensures better heat exchange and allows for operating with warmer chilled water temperatures typical with air to water heat pumps.

Improved Latent Capacity: Increasing the coil surface area allows the air to flow across the coil longer and increase the amount of moisture removed from the air.

+4 PIPE CONFIGURATIONS AVAILABLE

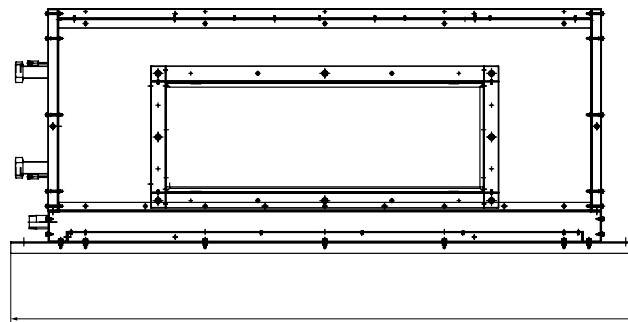


6 Rows Cooling +2 Row Heating Coil configurations are available for 4 pipe systems where more heating is required. Other advantages include:

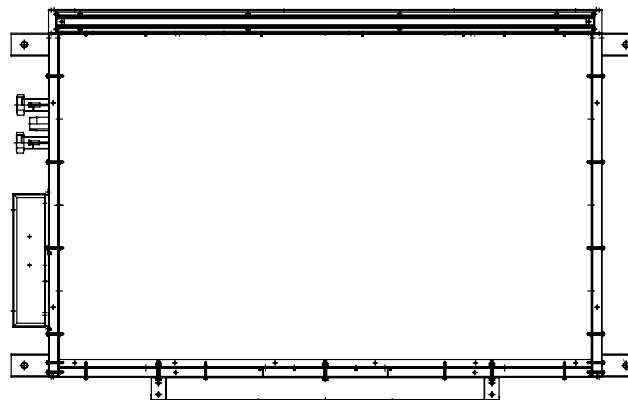
Enhanced Heat Transfer Efficiency: Larger surface area ensures better heat exchange and allows for operating with lower hot water temperatures typical with air to water heat pumps.

Active Humidity Control: The higher capacity 2-row heating coil provides more reheating of the air which allows the cooling coil to achieve lower dewpoint temperatures and lower space humidity without sacrificing comfort.

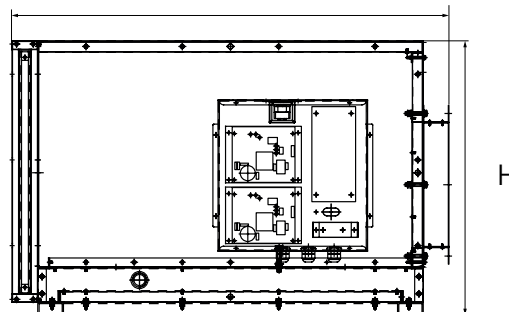
DIMENSIONAL DRAWINGS, DATA & WEIGHTS



L



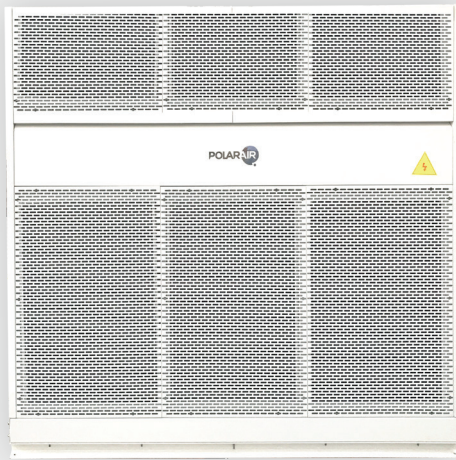
W



H

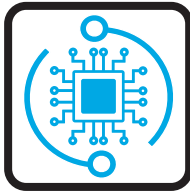
HAHU			200	300	400	600	800
CONSTRUCTION AND PACKING DATA	Water Connections	Type	PT (Threaded Female)				
		In	31.75 (1 1/4)				
	Condensate Drainage Connection	Out	25.4 (1)				
		mm [in]					
	Heating Water Connections (4P Only)	In	25.4 (1)				
		Out	25.4 (1)				
	Dimensions	L	1280	1480	1680	1930	2130
W		1120					
H		640			754		
WEIGHT	Net	kg	From 150 to 165	From 175 to 185	From 186 to 210	From 223 to 250	From 225 to 283

VAHU - VERTICAL MINI AIR HANDLING UNIT



FEATURES

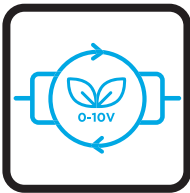
CONTROL FLEXIBILITY



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.

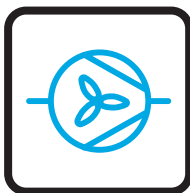
Please refer to page 14 for further information on controls.

ENERGY EFFICIENT MOTORS



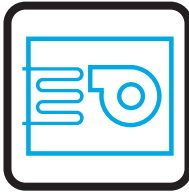
EC motors allow the centrifugal fans to operate at optimum airflow performance, energy efficiency and quiet operation. EC motors include driven control PCB, constant torque, permanent magnet and 3 speeds pre-set or modulating with a 0-10 VDC signal for precise air balancing control.

FAN BLOWER



Galvanized steel housing center plate fixed impeller, with riveting compression on the end ring and galvanized steel sheet mounting feet to ensure adequate strength, All impellers and motors are fully balanced according to ANSI/AMCA-204 standard for smooth and quiet operation.

STRUCTURE



Made from frameless integrated folded steel structure, it uses a sandwich panel consisting of two walls with high-pressure PU foam inner insulation. It has couplings for the connection of ducting and gravity drain pan with insulation for condensation. The unit has an easy access to fans, motors and filters.

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 35 bar, with maximum operating limits at 20 bar.

READY TO INSTALL



The Vertical Mini Air Handling unit range is offered as a complete package including standard items such as the internal drain pan, double sandwich panel insulation of 10mm + 25mm, and a G2 (MERV 4) filter. Furthermore, we offer multiple optional accessories.

KEY POINTS

- Auto Dynamic Balancing with I-Control
- External Static Pressure up to 350 Pa
- Suitable for special applications with Cooling capacity up to 55 kW and 9000 m³/h of airflow available
- Upflow or downflow discharge
- Internal Drain Pan



ACCESSORIES

- IR Handset or Wired Wall Pad (Available with I-Control)
- Thermostat Controller (Available with W-Control)
- G4 (Merv 8) or F8 (MERV 14) Filters
- Electric heater up to 9kW
- 2 or 3 Way On/Off & Modulating Valves
- Belimo Valve Kit
- Stainless Steel Drain Pan

*Please refer to page 80 for further information and accessories.

TECHNICAL SPECIFICATIONS

Hydronic Vertical Mini Air Handling Unit, 5R, 2 pipe with **EC Motor**

UNIT GENERAL SPECS	VAHU-5R-[Size]-V-ECM			200	300	400	600	800
	Configuration			2-pipe				
	Number of Fan Blowers			1			2	
	Power Supply (V/Ph/Hz)			220 - 240/1/50 - 60				
AIR	Total Air Flow	H	m ³ /h	2222	3160	4093	6321	8186
		M		1912	2703	3495	5407	6990
		L		1361	1916	2475	3833	4950
	External Static Pressure	H	Pa	120				
		M		120				
		L		120				
COOLING	Total Cooling Capacity	H	kW	14.62	20.68	26.34	38.46	50.52
		M		13.02	18.32	23.26	34.06	44.61
		L		10.06	13.98	17.76	26.00	34.06
	Sensible Cooling Capacity	H		10.20	14.46	18.44	27.16	35.49
		M		9.02	12.68	16.10	23.82	30.98
		L		6.86	9.56	12.16	17.95	23.39
HEATING	Heating Capacity	H	kW	13.55	19.20	24.70	36.64	47.64
		M		12.07	17.00	21.81	32.46	42.06
		L		9.32	12.98	16.65	24.78	32.11
	Max. Electric Heater Capacity			4.5	6	7.5	9	
SOUND	Pressure Level (Outlet)		dB(A)	73/68/64	78/73/69	80/75/71	81/76/72	83/78/73
	Pressure Level (Inlet + Radiated)			70/65/61	75/70/66	77/72/68	78/73/69	80/75/70
	Power Level (Outlet)			82/77/73	87/82/78	89/84/80	90/85/81	92/87/82
	Power Level (Inlet + Radiated)			79/74/70	84/79/75	86/81/77	87/82/78	89/84/79
ELECTRICAL	Power Input	H	W	412	850	1015	1700	2030
		M		375	650	850	1300	1530
		L		320	350	500	700	1000
	Running Current (H)		A	3.58	7.39	8.83	14.78	17.65
HYDRONIC	Cooling Water Flow Rate	H	L/h	2506	3545	4516	6592	8661
		M		2232	3140	3987	5840	7647
		L		1725	2397	3044	4458	5838
	Cooling Pressure Drop	H	kPa	54.0	64.8	38.0	38.3	73.6
		M		43.8	52.1	30.4	30.8	58.8
		L		27.5	32.1	18.7	18.9	36.2
	Heating Water Flow Rate	H	L/h	2323	3291	4234	6282	8166
		M		2068	2915	3739	5564	7210
		L		1598	2225	2854	4247	5505
	Heating Pressure Drop	H	kPa	39.8	47.9	28.5	29.5	56.1
		M		32.3	38.5	22.8	23.7	44.9
		L		20.3	23.7	14.0	14.6	27.6

EUROVENT TESTING CONDITIONS:

a. Cooling mode (2-pipe):

- Return air temperature: 27°C DB/19°C WB
- Inlet/ outlet water temperature: 7°C/ 12°C

b. Heating mode (2-pipe):

- Return air temperature: 20°C
- Inlet water temperature: 45°C/40°C

TECHNICAL SPECIFICATIONS

Hydronic Vertical Air Handling Unit, 5R+2 (Auxiliary Heating Coil), 4 Pipe with **EC Motor**

UNIT GENERAL SPECS	VAHU-5R+2-[Size]-P-ECM			200	300	400	600	800
	Configuration			4 pipe				
	Number of Fan Blowers			1			2	
	Power Supply (V/Ph/Hz)			220 - 240/1/50 - 60				
AIR	Total Air Flow	H	m ³ /h	1999	3000	3942	6000	7884
		M		1773	2603	3400	5206	6801
		L		1286	1862	2424	3724	4847
	External Static Pressure	H	Pa	120				
		M		120				
		L		120				
COOLING	Total Cooling Capacity	H	kW	13.42	19.80	25.57	36.81	49.05
		M		12.32	17.87	22.85	33.23	43.83
		L		9.60	13.64	17.53	25.37	33.63
	Sensible Cooling Capacity	H		9.32	13.82	17.88	25.95	34.41
		M		8.48	12.34	15.80	23.18	30.41
		L		6.53	9.32	12.00	17.50	23.09
HEATING	Heating Capacity	H	kW	12.87	21.38	24.78	35.47	46.45
		M		11.82	19.30	22.15	32.02	41.51
		L		9.20	14.73	16.99	24.45	31.85
SOUND	Pressure Level (Outlet)		dB(A)	73/68/64	78/73/69	80/75/71	81/76/72	83/78/73
	Pressure Level (Inlet + Radiated)			70/65/61	75/70/66	77/72/68	78/73/69	80/75/70
	Power Level (Outlet)			82/77/73	87/82/78	89/84/80	90/85/81	92/87/82
	Power Level (Inlet + Radiated)			79/74/70	84/79/75	86/81/77	87/82/78	89/84/79
ELECTRICAL	Power Input	H	W	412	850	1015	1700	2030
		M		375	650	850	1300	1530
		L		320	350	500	700	1000
	Running Current (H)		A	3.58	7.39	8.83	14.78	17.65
HYDRONIC	Cooling Water Flow Rate	H	L/h	2301	3393	4384	6310	8408
		M		2112	3063	3918	5696	7514
		L		1645	2339	3006	4349	5765
	Cooling Pressure Drop	H	kPa	46.3	59.9	36.1	35.4	69.7
		M		39.7	49.8	29.5	29.4	57.0
		L		25.3	30.7	18.3	18.1	35.4
	Heating Water Flow Rate	H	L/h	1103	1832	2124	3041	3981
		M		1013	1654	1898	2745	3558
		L		789	1263	1456	2095	2730
	Heating Pressure Drop	H	kPa	8.6	21.3	39.1	38.6	74.8
		M		7.3	17.7	32.0	32.1	61.1
		L		4.7	10.9	19.8	19.8	37.9

EUROVENT TESTING CONDITIONS:

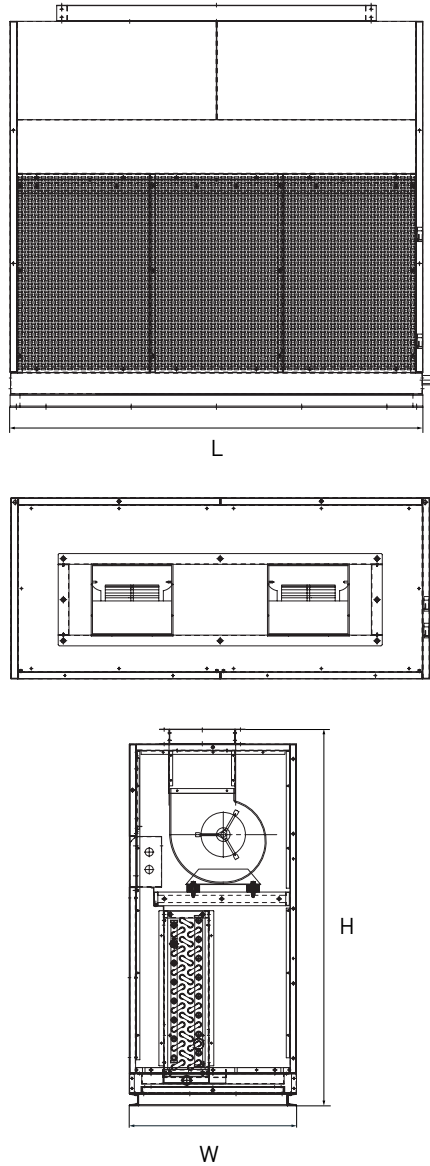
a. Cooling mode (4-pipe):

- Return air temperature: 27°C DB/19°C WB.
- Inlet/ outlet water temperature: 7°C/ 12°C

b. Heating mode (4-pipe):

- Return air temperature: 20°C
- Inlet water temperature: 65°C/55°C

DIMENSIONAL DRAWINGS, DATA & WEIGHTS

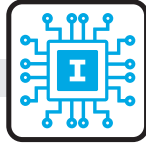


VAHU			200	300	400	600	800
CONSTRUCTION AND PACKING DATA	Cooling Water Connections	Type	PT (Threaded Female)				
		In	31.75 1 [1/4]				
	Condensate Drainage Connection	Out	25.4 [1]				
		mm [in]					
	Heating Water Connections (4P Only)	In	25.4 [1]				
		Out	25.4 [1]				
	Dimensions	L	850	1050	1250	1550	1880
W		670					
H		1510					



OUR FAN COILS

All Polar Air fan coil units offer maximum levels of control flexibility, by selecting from two types of controllers depending on application needs.



[I-CONTROL]

CONTROLLED WITH BMS OR POLAR AIR WALL PAD AND IR HANDSET



[W-CONTROL]

CONTROLLED WITH EXTERNAL THERMOSTAT APPLICATIONS OR EXTERNAL CONTROLLER



CONTROL OPTIONS

[I-CONTROL] PCB WITH INTELLIGENT FUNCTIONALITY

The PCB microprocessor intelligent control board controls the operation of the indoor fan motor, ON/OFF or modulating water valves, and electric heaters (if fitted) to maintain room conditions at a user-defined set point.

- Full control logic connectivity via Modbus RTU or using a gateway with other communication protocols.
- Auto Fan Speed control for EC.
- Modulating Valve Control to adjust the water flow 100% according to the room temperature and set temperature.
- Auto Restart function.
- Drain Pump control (If installed)
- Autodynamic balancing function for Variable Water Flow system installations.

[W-CONTROL] FLEXIBLE CONTROL PCB

This control option features flexible functionality for external thermostat applications, allowing the independent control of drain pumps and limited LED diagnostics.

- Independent control of drain pumps (if installed)
- Zone control operations
- Limited LED Diagnostics
- Louver control (when applicable).

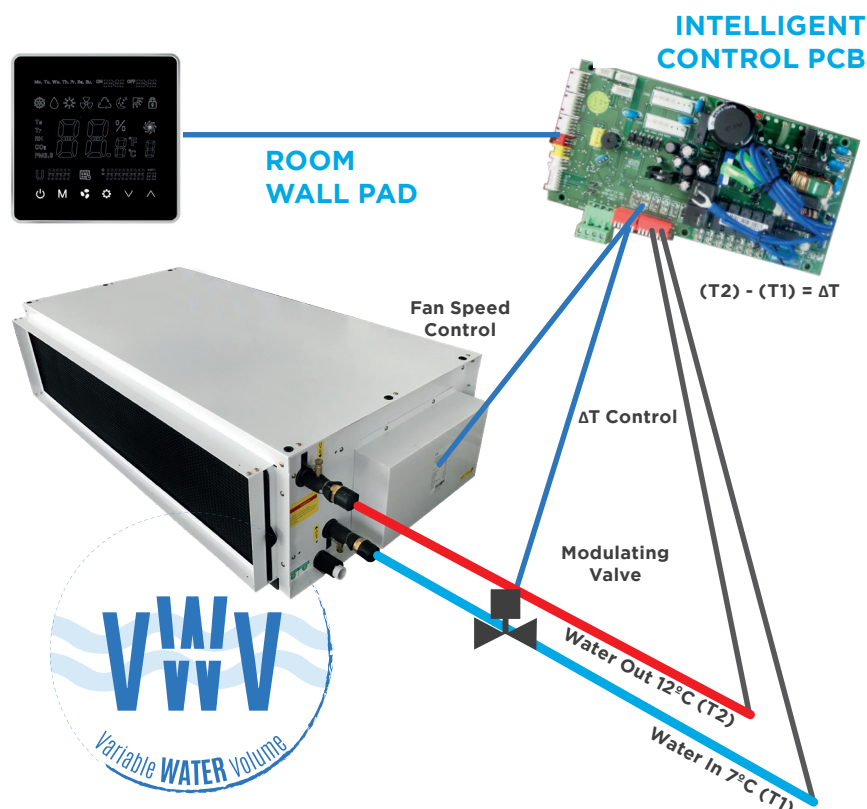
WHAT DO WE CALL INTELLIGENT FUNCTIONALITY? EXPLAINING THE AUTODYNAMIC BALANCING FUNCTION

The I-Control, also known as the Intelligent control, goes a step further than your typical control PCB.

There is a certain calculated load for every space that a fan coil will serve, but this of course, is not constant. Occupancy, lighting, even an open window, can affect the required load for a space. The typical solution for this is a PICV (pressure independent control valve), but that comes at quite a cost premium.

With our Intelligent control, we do away with the PICV and simply install temperature sensors within the water inlet and outlet, air inlet, and in the space from our own Wired Wall Pad, to monitor those points.

With that data, the “intelligence” of the unit is able to modulate the valve and fan speed to maintain the delta T setpoint this is what we call “Auto Dynamic Balancing” providing optimal cooling to the space at all times. All of this coming in one package at a much lower cost than going with a 3rd party PICV.





A man with a beard, wearing a blue polo shirt and a blue baseball cap, is shown in profile from the side, working on a large, cylindrical industrial machine. He is using a screwdriver to adjust a component on the machine's lid. The machine is made of polished metal and has several circular openings. The background shows a concrete ceiling with metal brackets and pipes. A large, semi-transparent blue banner is overlaid on the bottom half of the image, containing the text 'OUR ACCESSORIES' in white, bold, sans-serif font.

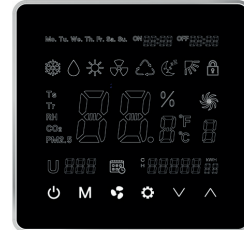
OUR ACCESSORIES



01. CONTROLLERS

[WWP-V3] WIRED WALL PAD CONTROL (AVAILABLE WITH I-CONTROL)

Features: 7 days ON/OFF timer program | Addressable Main and Secondary units allowing control of up to 32 Secondary units via a single Main Unit with set or check of each unit parameters individually | Error display with addressable error diagnostic (Main unit Wall Pad displays Secondary unit address and error type) | One-Touch Global Control (Global Control Main Unit Wall Pad controls all units in the group) | Onboard Room Air Temperature Sensor.



[IRHS-V1] REMOTE INFRARED HANDSET (AVAILABLE WITH I-CONTROL)

With Global Control functionality for Main and Secondary Unit groups.



02. CONTROL OPTIONS

ABS LED RECEIVER

IR receiver in ABS housing with up to 180cm (70in) length prewiring, which can be connected with TOTAL controls only. LED lights show working mode or error mode.



DIFERENTIAL PRESSURE TRANSDUCER

This device converts the air pressure difference to a proportional electrical output (0-10 VDC/0-5 VDC/4-20 mA). It is suitable for detecting abnormal airflow at the fan coil unit for safety (cutting off electric heater) or maintenance (air filter cleaning) purposes.



03. VALVE KITS

2 OR 3 WAY BYPASS THERMOELECTRIC VALVES

2-way or 3-way valve bodies with ON/OFF or modulating actuators integrated with copper piping connection kits.

* Piping connection kits vary among the different ranges.



2 OR 3 WAY BYPASS BALL VALVES

2-way or 3-way bypass ball valve bodies with motorized or 24VAC modulating actuators integrated with Copper Piping Connection Kits.

* Piping connection kits vary among the different ranges.



04. UPGRADED FILTERS

All our fan coils come with a nylon filter installed as standard. If you want an upgrade on those filters, you can choose between:

- **G4 (MERV 8)**
Available with 3M HAF grade.
- **F8 (MERV 14)**



Model	Standard	Optional	
	G2- MERV 4	G4-MERV8	F8-MERV14
PHW	1/8"	-	-
PCGH-3R	1/8"	3/8"	-
PDWSL	1/4"	1/4"	-
PDWA	1/4"	1"	-
PDWC	1/4"	1"	-
PDWD	1"	1"	-
HAHU	1"	1"	2"
VAHU	1"	1"	2"
PFWBC-VAR	1/8"	-	-
PFWBC-HAR	1/4"	1/4"	-
PFWB	1/4"	-	-
PFWSLN	1/8"	-	-

05. ELECTRIC HEATERS

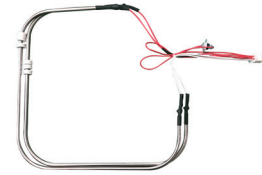
PTC ELECTRIC HEATER KIT

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



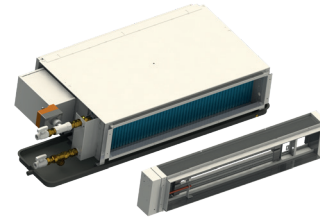
TUBE ELECTRIC HEATER KIT

With 2-stage safety, cut-outs can be configured as booster heaters or primary heaters. It can be easily installed on-site or in stock via plug-and-play wiring and brackets.



MODULE ELECTRIC HEATER KIT

The electric heater module is supplied for winter heating as an alternative to the auxiliary hot water coil. We offer a complete range of electric heaters kits, easy to connect to control box, with mounting fixture. The electric heater configuration is selectable by the DIP switch on the internal control board.



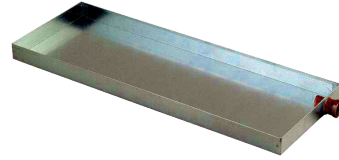
Model	EH KIT (kW)		
	Module	PTC	Tube
PHW	-	0.5 to 1.5	-
PCGH-3R	-	-	0.5 to 4
PCSL	-	0.5 to 1	-
PDWSL	0.75 to 3	-	-
PDWA	1 to 6	-	-
PDWC	1.5 to 9	-	-
PDWD	3 to 9	-	-
HAHU	4.5 to 9	-	-
VAHU	4.5 to 9	-	-
PFWB(C)	-	0.5 to 3	-
PFWSLN	-	0.5 to 1.5	-

* Non-standard electric heater sizes available under request. Contact us for further information.

06. DRAIN PANS

STAINLESS STEEL DRAIN PAN

To choose between left or right side coil connections.



PAINTED STEEL DRAIN PAN

For Horizontal installations: Painted steel drain pans for built-in horizontal floor standing fixed wall installations with right or left-sided coil connections.



For Vertical installations: Painted steel drain pans for suspended ceiling installations with right or left-sided coil connections.

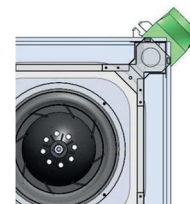
Model	ABS Plastic	Powder-coated Steel	Stainless Steel
PHW	Standard - Integrated	-	-
PCGH-3R	Standard - Integrated	-	-
PCSL	Standard - Integrated		
PDWSL	-	Standard - Integrated	Optional
PDWA	-	Standard - External	Optional
PDWC	-	Standard - External	Optional
PDWD	-	Standard - Integrated	Optional
HAHU	-	Standard - Integrated	Optional
VAHU	-	Standard - Integrated	Optional
PFWB(C)	-	Standard - Integrated	Optional
PFWSLN	-	Standard - Integrated	Optional

07. FLANGES

FOR FRESH AIR

Allows up to 15% of unit airflow up to a maximum of 100m³/h as fresh air intake (per connection).

The PCGH-3R Cassette comes with knock out fresh air connection holes. ABS plastic flanges use only two screws for fixture to unit.



FOR BRANCH DUCT

For delivery of treated air to adjacent spaces with 2 connectors per single fan model. Available for PCGH-3R Cassette ranges.



08. NBR INSULATION

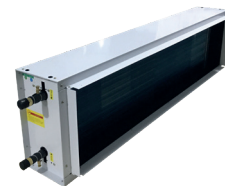
All of our fan coils are equipped with NBR plastic foam standard insulation. We do offer an optional upgrade for projects that require higher levels of insulation, which contributes to maintaining thermal performance and improves sound attenuation.



Model	Standard (mm)	Optional (mm)
PHW	5	-
PCGH-3R	5	-
PCSL	5	-
PDWSL	5	10
		15
		25
PDWA	5	10
		15
		25
PDWC	5	10
		15
		25
PDWD	15+25	-
HAHU	10+25	-
VAHU	10+25	-
PFWB(C)	5	-
PFWSLN	5	-

09. AUXILIARY HEATING COILS

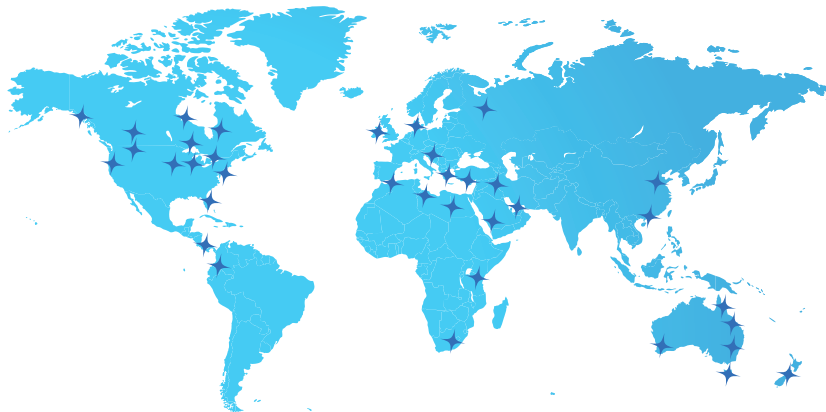
To choose for either one or two rows, depending on your specific heating project requirements.



Model	+ 1 Row	+ 2 Row
PDWSL	✓	-
PDWA	✓	✓
PDWC	✓	-
PDWD	✓	✓
HAHU	-	✓
VAHU	-	✓

All over the **WORLD!**

With over 500 projects installed; we develop
Indoor Climate Solutions adapted for all kinds of
applications.



Find more here: <https://polaraircs.com/projects/>

Discover polaraircs.com

Download Technical Information &
Find out more about our Products



[linkedin.com/showcase/polar-aircs](https://www.linkedin.com/showcase/polar-aircs)