PULSE B Series

Ductless Single Zone Heat Pump

Eligible for local rebates

Providing great heating performance in temperatures as low as -30 °C, the Pulsus B heat pump is an ideal choice to cope with harsh Canadian winters. Thanks to its new design, maintaining the indoor unit takes no time at all. And with a high air conditioning efficiency ratio, it is also your best bet for the hot months of summer. You can enjoy comfort and well-being throughout the year as well as a quick return on investment.

Performance up to

Cooling	Heating
-30°C -22°F	-30°C -22°F

Up to

27.4 SEER2 in cooling

13.5 HSPF2 in heating

Features

Operation mode
- Cooling, heating, dehumidifying, fan and auto.

Nominal capacity
- 9000, 12000, 18000, 24000 BTU/hr.

Voltage
- 230/208V, 60 Hz, 1-phase.

Indoor unit
- High wall installation, dual side connection.
- Plastic housing, standard white.
- Cross-flow fan with 5 selectable speed and 2 operation modes (auto and silence).
- Evaporator fins covered with hydrophilic coating for improved corrosion resistance.
- Washable filters.
- A2L leak detection sensor, included.

Outdoor unit
- Variable speed rotary compressor (INVERTER), with PCB control protection.
- Electronic expansion valve for precise control of refrigerant flow.
- Condenser fins covered with a hydrophilic coating for improved corrosion resistance.
- Quiet axial-flow fan.
- Multi-hole pan with smart heater to prevent ice formation.
- Compressor blanket and preheating technology.
- Installation on aluminum wall bracket or ground stand (optional).

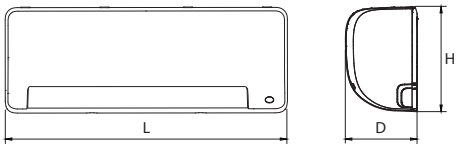
Connection piping
- Minimum piping length of 10 ft. (3 m).
- Flared connections.

Control
- Wireless remote included with wall bracket.
- Wi-Fi optional.
- Set temperature: 16 to 32 °C (61 to 90 °F).
- Temperature display format: °C or °F.

Warranty
- 10-year basic warranty on parts and 10-year basic warranty on the compressor (labor not included).
- Labour warranty (sold separately) from the 1st to 10th year, on parts and labour with condenser replacement if the compressor fails.

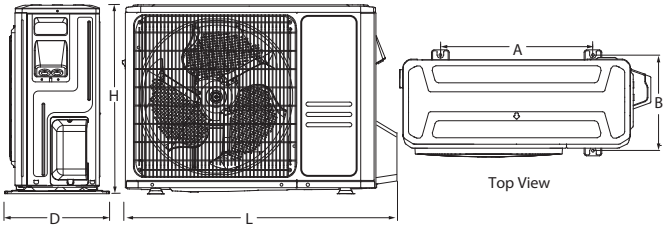
Application
- Dining room-kitchen, living room, family room, commercial building, office building, condo, restaurant.

Indoor Unit



Front View　　Side View

Outdoor Unit



Top View

Side View　　Front View

Indoor Unit	L		H		D	
	in.	mm	in.	mm	in.	mm
CPPB-H09A-I CPPB-H12A-I	33 3/8	848	11 3/4	300	9 3/16	233
CPPB-H18A-I	40	1017	12 ½	319	9 3/4	247
CPPB-H24A-I	46 7/8	1190	14 9/16	370	11 3/16	284

Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CPPB-H09A-O CPPB-H12A-O	34 3/8	874	21 13/16	554	13 5/8	346	20 1/8	511	12 1/2	317
CPPB-H18A-O	37 5/8	955	26 1/2	673	15	380	26 1/8	663	12 3/4	325
CPPB-H24A-O	40 ½	1030	31 7/8	810	17 7/8	455	26 1/2	673	15 1/4	386

Models

Product #[1]	Indoor Unit		CPPB-H09A-I	CPPB-H12A-I	CPPB-H18A-I	CPPB-H24A-I
	Outdoor Unit		CPPB-H09A-O	CPPB-H12A-O	CPPB-H18A-O	CPPB-H24A-O
Technical Performance						
Voltage		Volts	230/208	230/208	230/208	230/208
Refrigerant type		-	R454B	R454B	R454B	R454B
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	5275 (18000)	7034 (24000)
	Min. – max.	W (BTU/hr)	1055 - 2931 (3800 - 13500)	1172 - 3810 (3800 - 14600)	1905 - 5568 (8800 - 19400)	2345 - 7327 (12600 - 27900)
Heating capacity	Nominal	W (BTU/hr)	3517 (12000)	3517 (12000)	5275 (18000)	8500 (29000)
	Min. – max.	W (BTU/hr)	1055 - 2931 (3800 - 16000)	1172 - 3810 (3800 - 16000)	1905 - 5568 (11200 - 19500)	2345 - 7327 (11800 - 29700)
Used cooling power input	Nominal	W	580	890	1440	1846
Used heating power input	Nominal	W	935	935	1618	2485
Cooling rated current		A	4.1	4	6.4	8.3
Heating rated current		A	4.1	4.1	7.2	11
MCA		A	15	15	19	25
Max. over-current protection (MOCP)		A	15	15	20	25
SEER2		-	27.4	25.4	21.4	21
HSPF2 IV		-	12.5	10.5	11	13.5
EER2		BTU/W	15.4	13.4	12.5	13
COP		W/W	3.76	3.76	3.26	3.42
AHRI number		-	216027620	216027621	216027622	216027623
ENERGY STAR		-	✓	✓	✓	✓
Indoor Unit						
Dehumidification		pt/hr (l/hr)	1.9 (0.9)	2.54 (1.2)	3.17 (1.5)	4.65 (2.2)
Air flow volume	UH / H / M / L	cfm	441 / 324 / 230 / 177	441 / 324 / 230 / 177	636 / 500 / 359 / 294	812 / 618 / 412 / 318
Sound level	UH / H / M / L / S[2]	dB (A)	42 / 39 / 37 / 35 / 32	42 / 39 / 37 / 35 / 32	48 / 45 / 41 / 39 / 36	50 / 48 / 43 / 41 / 39
Fan motor power output		W	25	25	35	35
Fan motor RLA		A	0.11	0.11	0.17	0.17
Net weight		lb (kg)	17.64 (8.5)	17.64 (8.5)	30.87 (14)	30.87 (14)
Outdoor Unit						
Sound level		dB (A)	53	53	58	61
Compressor power input		W	659	979	1425	1959
Fan motor power output		W	36	36	60	102
Fan motor RLA		A	0.17	0.17	0.27	0.45
Refrigerant volume (R454B)		oz (g)	35.27 (1000)	38.1 (1080)	52.91 (1500)	70.55 (2000)
Net weight		lb (kg)	70.55 (32)	70.55 (32)	97 (44)	112.44 (51)
Operating ambient temperature	Cooling	°C (°F)	-30 to 50 (-22 to 122)			
	Heating	°C (°F)	-30 to 24 (-22 to 75)			
Connection Piping/Refrigerant						
Pre-charge length		ft. (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8
Maximum height difference		ft. (m)	49.21 (15)	49.21 (15)	49.21 (15)	49.21 (15)
Maximum total length		ft. (m)	65.62 (20)	65.62 (20)	98.43 (30)	98.43 (30)

[1] *1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged.*
[2] *Cross-Flow Fan Speeds: (UH) Ultra High (100%) / (H) High (80%) / (M) Medium (60%) / (L) Low (40%) / (S) Silence.*

Options

See Capella Options section

Why choosing a ductless heat pump?

Ductless wall-mounted heat pumps, commonly known as "mini split" heat pumps, do not need air ducts like central systems. The outdoor unit (condenser) and the indoor unit (evaporator) are connected by refrigerant piping and electrical wires that pass through a small 3" opening in the wall.

Single zone

A single zone system consists of an outdoor unit connected to an indoor unit. This system is ideal for providing heating and air conditioning to a predefined area, such as an open-concept kitchen/ living room or a family room in the basement.

Multizone

A multizone system consists of an outdoor unit that can be connected to multiple indoor units to provide optimal comfort in each room in the house, with independent control of each indoor unit.

Features and functions[1]

Smart Pan Heater

Prevents ice formation in the base pan of the outdoor unit.

Compressor Blanket and Preheating Technology

Garde l'huile à l'intérieur du compresseur au chaud, empêchant ainsi le mélange de fluide frigorigène avec l'huile du compresseur.

Anti-Corrosion Fin Coating

Condenser and evaporator fins are covered with a hydrophilic coating for greater corrosion resistance – a clear advantage for people living in coastal regions.

Refrigerant Leakage Detectiont

The indoor unit will display "EC" when the outdoor unit detects refrigerant leakage.

Smart Defrosting

Provides greater comfort and energy savings by eliminating unnecessary defrost cycles.

Smart Preheating

The system delays turning on the fan in heating mode to avoid blowing cold air out at startup.

Auto Restart

In case of power failure, user selection and system parameters are stored in non-volatile memory. The system will automatically return to the last operating mode when power resumes.

Freeze Protection

For extended absences, the temperature setpoint can be lowered to 8 °C (46 °F) in heating mode to prevent freezing.

Auto-Clean

Keeps the indoor unit dry to pevent mold growth.

Self-Diagnosis

A microcomputer monitors the system and turns the unit off if abnormal operation is encountered. An error code will be displayed on the indoor unit to facilitate maintenance.

Turbo Mode

The unit operates at super high speed to achieve quick cooling or heating.

Up & Down Swing

Can be used to select oscillating angles for the vertical louvres. Choose a fixed position or use the auto swing mode to swing the louvres up and down in all positions.

Timer

Allows you to program the time you want the unit to start and stop over a 24-hour period.

Sleep Mode

This function can be used to gradually increase or decrease room temperature, so you can save energy without affecting your sleep.

Silence Function

The unit will operate at low frequency and the fan at the lowest speed to reduce noise level.

Follow Me

With this function, the room temperature is read from the remote control, not from the indoor unit. This guarantees optimal comfort because the remote control is usually closer to you.

Wi-Fi

Device that connects the heat pump system to the home's Internet network for remote control.

A2L

A2L safety sensor.

[1] *Features and functions may vary depending on the choice of indoor unit.*