



MISTRAL B Series

Ductless Multizone Heat Pump



With heating performance down to -30°C and high cooling efficiency, the Mistral B heat pump is your ally for year-round comfort. Your investment will pay for itself in no time. With room for up to 6 indoor units, it's the ideal choice for cooling and heating several floors or rooms in your home.



Performance up to

Cooling



Heating



Up to

25 SEER2
in cooling

11 HSPF2
in heating

Features

Operation mode

- Cooling, heating, dehumidifying, fan and auto.

Nominal capacity

- 18000, 27000, 36000, 48000, 55000 BTU/hr.

Voltage

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

Indoor unit

- A2L leak detection sensor, included.
- High wall installation, dual side connection.
- Plastic housing, standard white.
- Evaporator fins covered with hydrophilic coating for improved corrosion resistance.
- Washable filters.

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

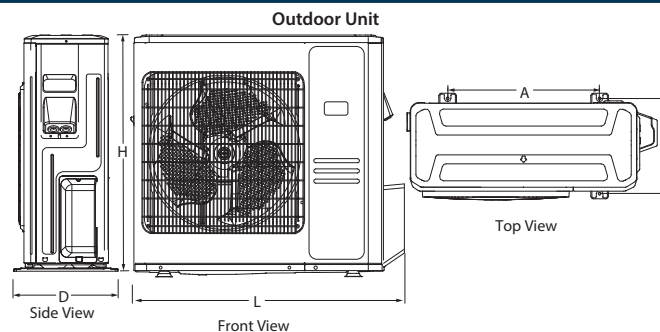
- Wireless remote included with wall bracket.
- Set temperature: 16 to 32 °C (61 to 90 °F).
- Temperature display format: °C or °F.
- Wi-Fi optional.

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.



Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CPM2B1-H18A-O	40 3/4	1034	31 7/8	810	17 7/8	455	26 1/2	673	15 7/8	403
CPM3B1-H27A-O										
CPM4B1-H36A-O	42 15/16	1090	38 3/8	975	17 3/8	440	24 1/4	616	15 5/8	397
CPM5B1-H48A-O										
CPM5B1-H55A-O	41 3/4	1060	52 1/2	1333	17 5/8	448	25	634	15 15/16	405

Models – Outdoor Unit

Product # ¹			CPM2B1-H18A-O	CPM3B1-H27A-O	CPM4B1-H36A-O	CPM5B1-H48A-O	CPM5B1-H55A-O
Technical Performance							
Voltage		Volts	230/208	230/208	230/208	230/208	230/208
Refrigerant type		-	R454B	R454B	R454B	R454B	
Cooling capacity	Nominal	W (BTU/hr)	5568 (19000)	7912 (27000)	10550 (36000)	13774 (47000)	14946 (51000)
	Min. – max.	W (BTU/hr)	1581 - 8206 (5400 - 28000)	2110 - 10862 (7200 - 37000)	2638 - 12527 (9000 - 43000)	3517 - 16665 (12000 - 57000)	5568 - 17223 (19000 - 59000)
Heating capacity	Nominal	W (BTU/hr)	5861 (20000)	7913 (27000)	10551 (36000)	14360 (49000)	16119 (55000)
	Min. – max.	W (BTU/hr)	1672 - 7913 (5700 - 27000)	2465 - 10551 (8400 - 36000)	3806 - 14360 (13000 - 49000)	5861 - 16665 (20000 - 57000)	8190 - 17223 (28000 - 59000)
Used cooling power input	Nominal	W	1265	2125	2750	3917	4250
	Min. – max.	W	400 - 2250	500 - 3500	600 - 4000	800 - 5400	1200 - 7400
Used heating power input	Nominal	W	1465	2082	2638	3881	4605
	Min. – max.	W	350 - 2300	500 - 3400	600 - 3750	800 - 5200	1200 - 7400
Cooling rated current		A	5.6	9.5	12	17.3	18.5
Heating rated current		A	6.5	9.1	11.5	17.3	20.1
MCA		A	17.5	30	37	37	39.5
Max. over-current protection (MOCP)		A	20	35	40	40	40
SEER2		-	25	23	23	23	22.2
HSPF2 IV		-	10.4	10.5	10.7	11	10.5
EER2		BTU/W	15	12.5	13	12	12
COP		W/W	4	3.8	4	3.7	3.5
AHRI number		-	216027632	216027635	216027638	216027641	216027644
ENERGY STAR		-	✓	✓	✓	✓	✓
Outdoor Unit							
Air flow volume		cfm	2130.7	2148.4	3037.2	4502.8	4502.8
Sound level		dB (A)	61.5	61	65	65	65
Compressor power input		W	2045	2765	3265	3430	3430
Compressor RLA		A	9.2	17	20.5	27	28
Fan motor power output		W	120	120	250	85	85
Fan motor RLA		A	1.2	1.3	2.6	2.5	2.5
Refrigerant volume (R454B)		oz (g)	78.31 (2220)	120.63 (3418)	134.04 (3800)	151.68 (4294)	151.68 (4294)
Net weight		lb (kg)	137 (62.3)	168 (76.4)	212 (96.1)	246 (112)	246 (112)
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)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)	24.6 (7.5)
Additional refrigerant charge		oz/ft. (g/m)	0.16 (15)	0.16 (15)	0.16 (15)	0.16 (15)	0.16 (15)
Liquid pipe outer diameter		in.	3 x 1/4	4 x 1/4	5 x 1/4	6 x 1/4	6 x 1/4
Gas pipe outer diameter		in.	3 x 3/8	3 x 3/8 + 1 x 1/2	3 x 3/8 + 2 x 1/2	4 x 3/8 + 2 x 1/2	4 x 3/8 + 2 x 1/2
Maximum height difference		ft. (m)	49.2 (15)	49.2 (15)	49.2 (15)	49.2 (15)	49.2 (15)
Maximum total length		ft. (m)	196.8 (60)	262.4 (80)	262.4 (80)	262.4 (80)	262.4 (80)

¹ Each unit is individually packaged.

Models - Indoor Unit

Product # ¹			CPPB-H09A-I	CPPB-H12A-I	CPPB-H18A-I	CPPB-H24A-I
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 / S2	dB (A)	47 / 38 / 33 / 21 / 20	47 / 37 / 33 / 22 / 20	50 / 45 / 38 / 32 / 20	55 / 44 / 39 / 27 / 16
Fan motor power output		W	20	20	30	58
Fan motor RLA		A	0.5	0.5	0.8	1.3
Net weight		lb (kg)	23.3 (10.6)	22.93 (10.4)	27.34 (12.4)	43.65 (19.8)
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

Models - Ceiling Cassette

Product # ¹			Ceiling Cassette	SICB1-H09A-I	SICB1-H12A-I	SICB1-H18A-I	SICB1-H24A-I
			Grille	SICGA	SICGA	SICGA	SICGB
Cooling capacity	Nominal	W (BTU/hr)		2638 (9000)	3517 (12000)	4689 (16000)	6887 (23500)
Heating capacity	Nominal	W (BTU/hr)		2931 (10000)	3517 (12000)	5568 (19000)	7327 (25000)
Dehumidification		pt/hr (l/hr)		1.19	1.96	2.71	3.19
Air flow volume	T / H / M / L / S	cfm		344 / 288 / 231 / 201 / 122	419 / 350 / 256 / 216 / 135	706 / 618 / 530 / 441 / --	854 / 706 / 618 / 500 / --
Sound level	T / H / M / L / S	dB (A)		30 / 29 / 28 / 26	33 / 31 / 29 / 26	36 / 34 / 32 / 28	40 / 37 / 35 / 30
Net weight		lb (kg)		35.27 (16)	35.27 (16)	35.27 (16)	47.18 (21.4)
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

Models - Ducted Fan Coil

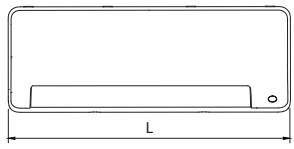
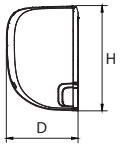
Product # ¹			SFCB1-H09A-I	SFCB1-H12A-I	SFCB1-H18A-I	SFCB1-H24A-I
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	5129 (17500)	7034 (24000)
Heating capacity	Nominal	W (BTU/hr)	2901 (9900)	3517 (12000)	5715 (19500)	7620 (26000)
Dehumidification		pt/hr (l/hr)	1.46	2.94	2.94	4.29
Air flow volume	T / H / M / L / S	cfm	344 / 288 / 231 / 201 / 122	419 / 350 / 256 / 216 / 135	706 / 618 / 530 / 441 / --	854 / 706 / 618 / 500 / --
Sound level	T / H / M / L / S	dB (A)	30 / 29 / 28 / 26	33 / 31 / 29 / 26	36 / 34 / 32 / 28	40 / 37 / 35 / 30
Net weight		lb (kg)	64 (29)	64 (29)	80 (36.3)	80.5 (36.5)
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

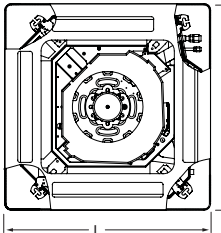
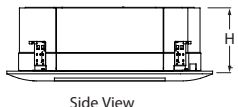
¹ Each unit is individually packaged.

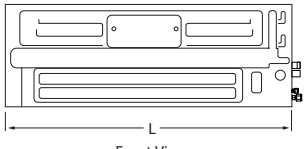
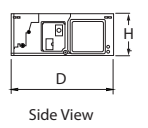
² Cross-Flow Fan Speeds: (UH) Ultra High (100%) / (H) High (80%) / (M) Medium (60%) / (L) Low (40%) / Silence (S).

Options

See Capella Options section

Indoor Unit						
						
Front View			Side View			
Indoor Unit	L		H		D	
	in.	mm	in.	mm	in.	mm
CPPB-H09A-I	33 3/8	848	11 3/4	300	9 3/16	233
CPPB-H12A-I						
CPPB-H18A-I	40	1017	12 1/2	319	9 3/4	247
CPPB-H24A-I	46 7/8	1190	14 9/16	370	11 3/16	284

Ceiling Cassette						
						
Front View			Side View			
Ceiling Cassette	L		H		D	
	in.	mm	in.	mm	in.	mm
SICB1-H09A-I	22 7/16	570	9 10/16	244	22 7/16	570
SICB1-H12A-I						
SICB1-H18A-I						
SICB1-H24A-I	32 11/16	830	8 1/16	205	32 11/16	830

Ducted Fan Coil						
						
Front View			Side View			
Ducted Fan Coil	L		H		D	
	in.	mm	in.	mm	in.	mm
SFCB1-H09A-I	27 9/16	700	9 10/16	244	29 1/2	750
SFCB1-H12A-I						
SFCB1-H18A-I	39 6/16	1000	9 10/16	244	29 1/2	750
SFCB1-H24A-I						

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 functions¹



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 Detection¹

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 prevent 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 louvers. Choose a fixed position or use the auto swing mode to swing the louvers 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.