

# CONVECTAIR

Legendary comfort



Ductless Single Zone Heat Pump  
Capella 16



## Why choose a Ductless Wall-Mounted 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.

### Indoor Unit

- Plastic housing, standard white.
- 3-speed cross-flow fan (high, medium and low) with 3 operation modes (turbo, auto and silence).
- Washable filters.

### Outdoor Unit

- Variable speed rotary compressor (INVERTER), with PCB control protection.
- Compressor blanket and preheating technology.
- Quiet axial-flow fan.
- Condenser fins covered with a hydrophilic coating for improved corrosion resistance.

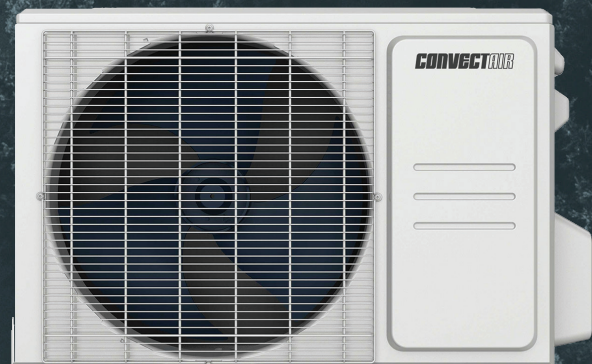
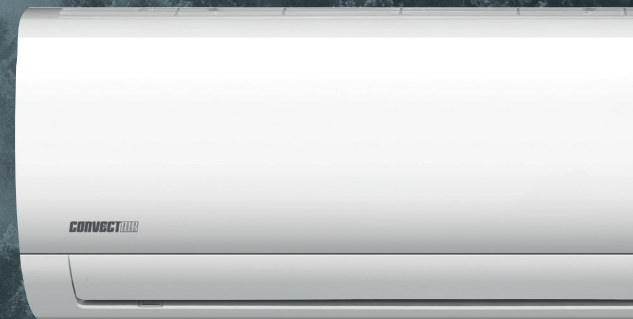
Performance up to



Up to

**16.8 SEER**  
IN COOLING

**9.7 HSPF**  
IN HEATING



## Features and functions



### Smart Pan Heater

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



### Compressor Blanket and Preheating Technology

Keeps the oil inside the compressor warm and prevents it from mixing with the refrigerant.



### 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 Detection

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 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.



**10-year basic warranty  
parts and compressor**

### Models

System capacity			9000 BTU	12000 BTU	18000 BTU	24000 BTU
Product #¹	Indoor Unit		8016-C09-I	8016-C12-I	8016-C18-I	8016-C24-I
	Outdoor Unit		8016-C09-O	8016-C12-O	8016-C18-O	8016-C24-O
Technical Performance						
Voltage		Volts	230/208	230/208	230/208	230/208
Cooling capacity	Nominal	W (BTU/hr)	2639 (9000)	3519 (12000)	4985 (17000)	7034 (24000)
	Min. – max.	W (BTU/hr)	0 - 3517 (0 - 12000)	0 - 3517 (0 - 12000)	2022 - 5744 (6900 - 19600)	1875 - 7121 (6400 - 24300)
Heating capacity	Nominal	W (BTU/hr)	3519 (12000)	3519 (12000)	5279 (18000)	7038 (24000)
	Min. – max.	W (BTU/hr)	0 - 3519 (0 - 12000)	0 - 3519 (0 - 12000)	1314 - 5513 (4480 - 18800)	1965 - 8064 (6700 - 27500)
Max. over-current protection (MOCP)		A	15	15	20	30
SEER (SEER2)		-	16.8 (18.5)	16.8 (17.6)	16.8 (18.3)	16.5 (17)
HSPF (HSPF2)		-	9.4 (8.8)	9.4 (8.8)	9.7 (8.7)	9.5 (8)
EER		W/W	8.8	8.8	9.9	8.9
COP		W/W	2.9	2.9	3.1	2.84
AHRI number		-	207709200	207709201	207709202	207709203
ENERGY STAR		-	-	-	-	-
Indoor Unit						
Dehumidification		pt/hr (l/hr)	2.11 (1)	2.54 (1.2)	3.8 (1.8)	5.49 (2.6)
Air flow volume	H / M / L²	cfm	318 / 241 / 176	318 / 241 / 176	464 / 369 / 275	565 / 447 / 341
Sound level	H / M / L²	dB (A)	41.5 / 34.5 / 25.5	41.5 / 34.5 / 25.5	44 / 38 / 30	46 / 40 / 33.5
Net weight		lb (kg)	17.2 (7.8)	17.2 (7.8)	22.93 (10.4)	28.88 (13.1)
Outdoor Unit						
Air flow volume		cfm	1058.82	1058.82	1235.29	1764.71
Sound level		dB (A)	54.5	54.5	57	59.5
Net weight		lb (kg)	52.9 (24)	52.9 (24)	64.15 (29.1)	97.88 (44.4)
Operating ambient temperature	Cooling	°C (°F)	-20 to 50 (-4 to 122)			
	Heating	°C (°F)	-20 to 30 (-4 to 86)			
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)	33 (10)	33 (10)	66 (20)	66 (20)
Maximum total length		ft. (m)	82 (25)	82 (25)	98 (30)	98 (30)

<sup>1</sup> 1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged.

<sup>2</sup> Cross-Flow Fan Speeds: (H) High / (M) Medium / (L) Low.