

# Capella 16

## Ductless Single Zone Heat Pump



### 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.
- 3-speed cross-flow fan (high, medium and low) with 3 operation modes (turbo, auto and silence).
- 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: 17 to 32 °C (63 to 90 °F).
- Temperature display format: °C or °F.
- Interface (optional HP6000ZB-MA and GT130 required).

#### Warranty

- 10-year basic warranty on parts and 10-year basic warranty on the compressor (labor not included).

#### Application

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

With great heating and air conditioning performance up to -20 °C, the Capella 16 is built for the Canadian climate. It provides comfort during summer's hot months and when the mercury drops in the winter.

You can therefore enjoy comfort and well-being throughout the year as well as a quick return on investment.



### Performance up to



Cooling

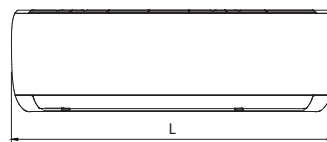


Heating

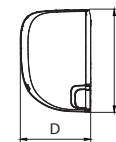
### Up to



Indoor Unit

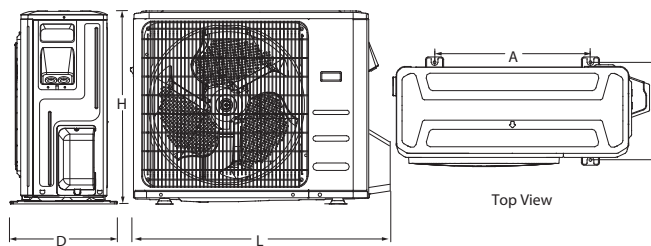


Front View



Side View

Outdoor Unit



Side View

Front View

Top View

Indoor Unit	L		H		D	
	in.	mm	in.	mm	in.	mm
8016-C09-I	28 1/8	715	11 1/4	285	7 5/8	194
8016-C12-I	31 11/16	805	11 1/4	285	7 5/8	194
8016-C18-I	37 11/16	957	11 7/8	302	8 3/8	213
8016-C24-I	40 15/16	1040	12 7/8	327	8 11/16	220

Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
8016-C09-O	28 3/8	720	19 1/2	495	10 5/8	270	17 13/16	452	10 1/16	255
8016-C12-O	30 1/8	765	21 7/8	555	11 15/16	303	17 13/16	452	11 1/4	286
8016-C18-O	35 1/16	890	26 1/2	673	13 7/16	342	26 1/8	663	13 15/16	354

## Features and functions

	<p><b>Smart Pan Heater</b> Prevents ice formation in the base pan of the outdoor unit.</p>
	<p><b>Compressor Blanket and Preheating Technology</b> Keeps the oil inside the compressor warm and prevents it from mixing with the refrigerant.</p>
	<p><b>Anti-Corrosion Fin Coating</b> Condenser and evaporator fins are covered with a hydrophilic coating for greater corrosion resistance – a clear advantage for people living in coastal regions.</p>
	<p><b>Refrigerant Leakage Detection</b> The indoor unit will display "EC" when the outdoor unit detects refrigerant leakage.</p>
	<p><b>Smart Defrosting</b> Provides greater comfort and energy savings by eliminating unnecessary defrost cycles.</p>
	<p><b>Smart Preheating</b> The system delays turning on the fan in heating mode to avoid blowing cold air out at startup.</p>
	<p><b>Auto Restart</b> 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.</p>
	<p><b>Freeze Protection</b> For extended absences, the temperature setpoint can be lowered to 8 °C (46 °F) in heating mode to prevent freezing.</p>

	<p><b>Auto-Clean</b> Keeps the indoor unit dry to prevent mold growth.</p>
	<p><b>Self-Diagnosis</b> 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.</p>
	<p><b>Turbo Mode</b> The unit operates at super high speed to achieve quick cooling or heating.</p>
	<p><b>Up &amp; Down Swing</b> 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.</p>
	<p><b>Timer</b> Allows you to program the time you want the unit to start and stop over a 24-hour period.</p>
	<p><b>Sleep Mode</b> This function can be used to gradually increase or decrease room temperature, so you can save energy without affecting your sleep.</p>
	<p><b>Silence Function</b> The unit will operate at low frequency and the fan at the lowest speed to reduce noise level.</p>
	<p><b>Follow Me</b> 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.</p>

Models

Product # <sup>1</sup>	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
<b>Technical Performance</b>						
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)
Used cooling power input	Nominal	W	1345	1385	1720	2695
	Min. – max.	W	180 - 1180	180 - 1580	190 - 1890	335 - 2940
Used heating power input	Nominal	W	1180	1212	1700	2475
	Min. – max.	W	350 - 1400	370 - 1500	815 - 2050	660 - 2600
Cooling rated current		A	5.92	5.92	7.6	12.3
Heating rated current		A	5.27	5.27	7.5	11.3
MCA		A	12	12	15	19
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		-	-	-	-	-
<b>Indoor Unit</b>						
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/L <sup>2</sup>	cfm	318 / 241 / 176	318 / 241 / 176	464 / 369 / 275	565 / 447 / 341
Sound level	H/M/L <sup>2</sup>	dB (A)	41.5 / 34.5 / 25.5	41.5 / 34.5 / 25.5	44 / 38 / 30	46 / 40 / 33.5
Fan motor power output		W	47.4	47.4	58.5	89
Fan motor RLA		A	0.34	0.34	0.66	0.45
Net weight		lb (kg)	17.2 (7.8)	17.2 (7.8)	22.93 (10.4)	28.88 (13.1)
<b>Outdoor Unit</b>						
Air flow volume		cfm	1058.82	1058.82	1235.29	1764.71
Sound level		dB (A)	54.5	54.5	57	59.5
Compressor power input		W	1140	1140	2085	2085
Compressor LRA		A	-	-	-	-
Compressor RLA		A	6.47	6.47	7.5	14.25
Fan motor power output		W	-	-	-	-
Fan motor RLA		A	0.34	0.47	0.82	0.76
Refrigerant volume (R410A)		oz (g)	25.75 (709)	25.75 (709)	47.97 (1332)	62.8 (1758)
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)			
<b>Connection Piping/Refrigerant</b>						
Pre-charge length		ft. (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)
Additional refrigerant charge		oz/ft. (g/m)	0.16 (15)	0.16 (15)	0.16 (15)	0.32 (30)
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.

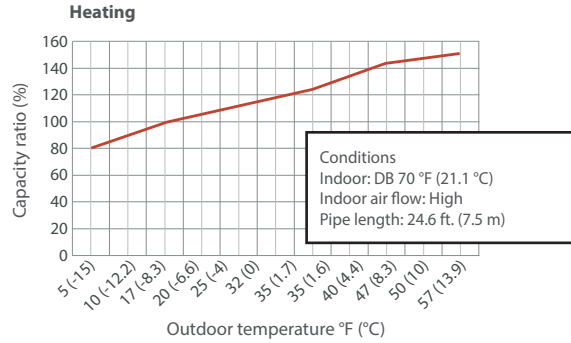
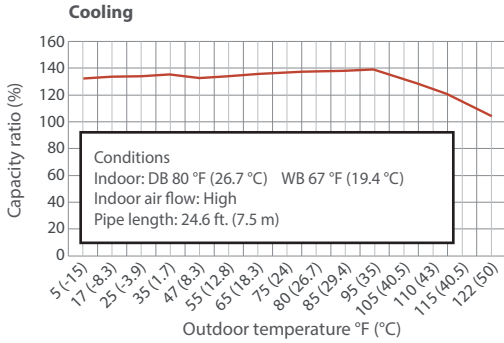
<sup>2</sup> Cross-Flow Fan Speeds: (H) High / (M) Medium / (L) Low.

Options

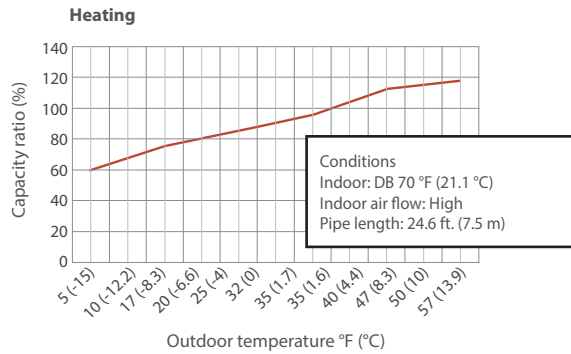
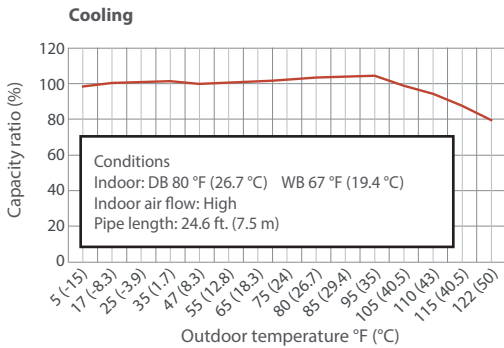
See Capella Options section

## Capacity Variation Ratio According to Temperature

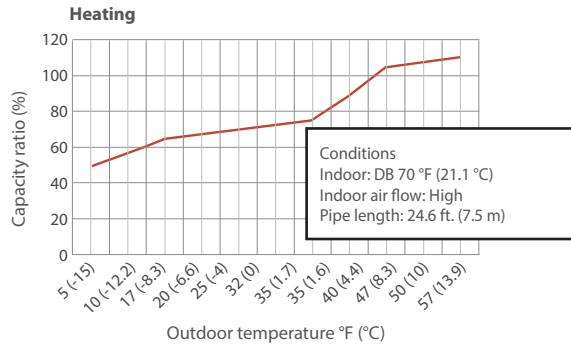
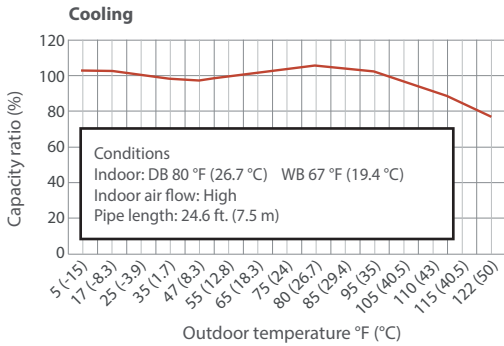
### Model 8016-C09



### Model 8016-C12



### Model 8016-C18



### Model 8016-C24

