



UHD

Ductless Single Zone Heat Pump
X61017_A



Indoor Unit



Outdoor Unit

Performance up to



Cooling



Heating

Up to



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.
- 7-speed cross-flow fan (auto, turbo, high, medium-high, medium, low and very low)
- Washable filters.

Outdoor unit

- Variable speed rotary compressor (INVERTER), with overload protection.
- Electronic expansion valve for precise control of refrigerant flow.
- Condenser fins covered with a hydrophilic coating for improved corrosion resistance.
- Large diameter quiet axial-flow fan for more efficient heat exchange.
- Smart pan heater to prevent ice formation.
- Compressor blanket and preheating technology.

Connection piping

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

Control

- Wireless remote included.
- Wired wall controller available.
- Wi-Fi capability.
- Sinopé interface (optional HP6000ZB-GE and GT130 required).
- Set temperature: 16 to 30 °C (61 to 86 °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).

Application

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

Includes



Smart Pan Heater



Crankcase Heater



Fin Coating



Quiet Design



Smart Defrosting



Smart Preheating



Auto Restart



Auto-Clean



Self-Diagnosis



Sleep Mode



Turbo Mode



Up & Down Swing



Left & Right Swing



Timer



I Feel



Lock



Wireless Remote



Wi-Fi

Optional



Wall Controller

UHD

Models

Phase out Product # ¹	Indoor Unit	UHD09KCH385-I / UHD09KCH385B-I	UHD12KCH315-I	UHD18KCH255-I	UHD24KCH225-I
	Outdoor Unit	UHD09KCH385-O	UHD12KCH315-O	UHD18KCH255-O	UHD24KCH225-O
Product # ¹	Indoor Unit	UHD09KCH385C-I	UHD12KCH315B-I	UHD18KCH255B-I	UHD24KCH225B-I
	Outdoor Unit	UHD09KCH385B-O	UHD12KCH315-O	UHD18KCH255-O	UHD24KCH225-O

Technical Performance

Voltage	Volts	230/208	230/208	230/208	230/208	
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	5276 (18000)	6450 (22000)
	Min. – max.	W (BTU/hr)	450 - 3800 (1535 - 12966)	850 - 4500 (2900 - 15354)	1200 - 6400 (4094 - 21837)	2000 - 9000 (6800 - 30700)
Heating capacity	Nominal	W (BTU/hr)	2638 (9000)	3575 (12200)	5276 (18000)	7000 (24000)
	Min. – max.	W (BTU/hr)	700 - 4000 (2388 - 13648)	900 - 5500 (3071 - 18766)	1200 - 7200 (4094 - 24566)	2000 - 9500 (6800 - 32000)
Used cooling power input	Nominal	W	540	785	1330	1700
	Min. – max.	W	50 - 1400	75 - 1500	350 - 2500	450 - 3700
Used heating power input	Nominal	W	590	940	1500	2000
	Min. – max.	W	200-1500	250 - 1600	350 - 2500	380 - 3700
Used rated input	W	1500	1600	2500	3700	
Rated current	A	6.2	6.5	10.8	16.4	
MCA	A	9	9	22	22	
Max. over-current protection (MOCP)	A	15	15	30	35	
SEER2 (SEER)	-	38	30.5	24.5	21.5	
HSPF2 (HSPF)	-	15	14	12	12	
EER	W/W	4.84	4.48	3.97	3.81	
COP	W/W	4.47	3.8	3.52	3.5	
AHRI number - Phase out	-	202110483 / 202409832	202110484	202110485	202132789	
AHRI number	-	211749865	211749866	211749867	211749868	
Energy Star	-	✓	✓	✓	✓	

Indoor Unit

Dehumidification	pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.80 (1.80)	5.20 (2.50)
Air flow volume	cfm	424 / 383 / 353 / 324 / 294 / 265 / 206	500 / 471 / 441 / 353 / 324 / 265 / 235	736 / 677 / 618 / 559 / 500 / 457 / 353	824 / 765 / 706 / 647 / 589 / 500 / 383
Sound level	dB (A)	43 / 40 / 38 / 36 / 33 / 31 / 19	49 / 46 / 43 / 40 / 37 / 34 / 22	51 / 48 / 45 / 42 / 39 / 36 / 34	52 / 49 / 46 / 43 / 40 / 37 / 34
Fan motor power output	W	60	60	60	70
Fan motor RLA	A	0.09	0.09	0.24	0.38
Deflector stepper motor power output	W	2.5 / 1.5	2.5 / 1.5	2.5 / 1.5	2.5
Net weight	lb (kg)	29.8 (13.5)	29.8 (13.5)	36.4 (16.5)	36.4 (16.5)

Outdoor Unit

Air flow volume	m3/hr	2400	2400	2354	4000
Sound level	dB (A)	53	53	59	59
Compressor power input	W	1070	1070	2443	2443
Compressor LRA	A	35	35	30	30
Compressor RLA	A	6.9	6.9	15.5	16
Fan motor power output	W	30	30	90	90
Fan motor RLA	A	0.24	0.24	0.65	0.65
Refrigerant volume (R410A)	oz (g)	45.9 (1301)	49.4 (1400)	70.6 (2101)	81.1 (2299)
Net weight	lb (kg)	99.2 (45)	99.2 (45)	141.1 (64)	147.7 (67)
Operating ambient temperature	Cooling	°C (°F)	-18 to 54 (0 to 129)		
	Heating	°C (°F)	-30 to 24 (-22 to 75)		

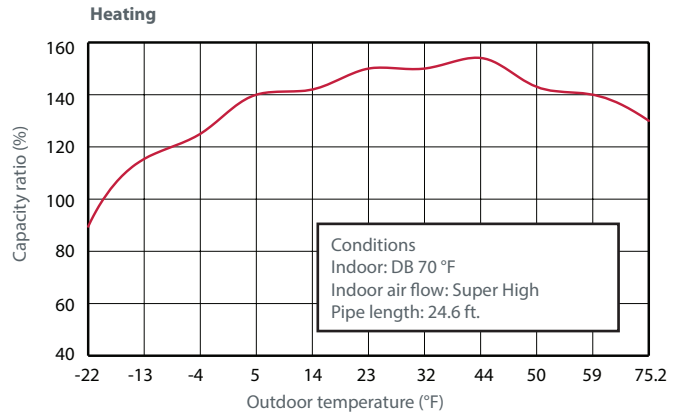
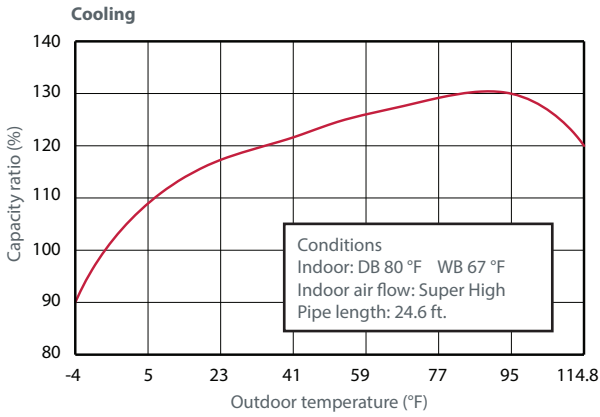
Connection Piping/Refrigerant

Pre-charge length	ft. (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)
Additional refrigerant charge	oz/ft. (g/m)	0.2 (20)	0.2 (20)	0.5 (505)	0.5 (50)
Liquid pipe outer diameter	in.	1/4	1/4	1/4	1/4
Gas pipe outer diameter	in.	1/2	1/2	5/8	5/8
Maximum height difference	ft. (m)	49 (15)	49 (15)	66 (20)	98 (30)
Maximum total length	ft. (m)	98 (30)	98 (30)	100 (30)	164 (50)

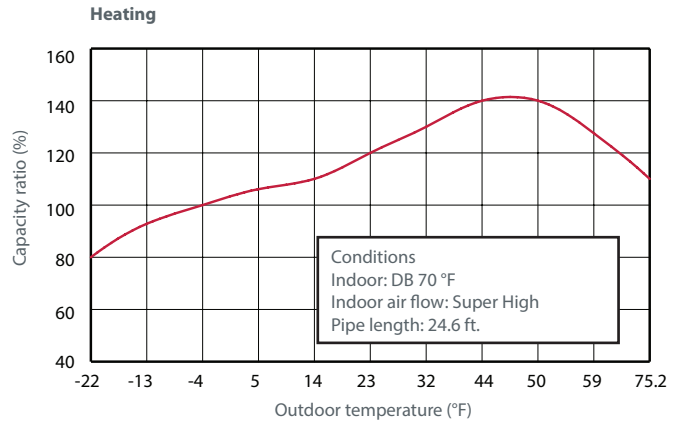
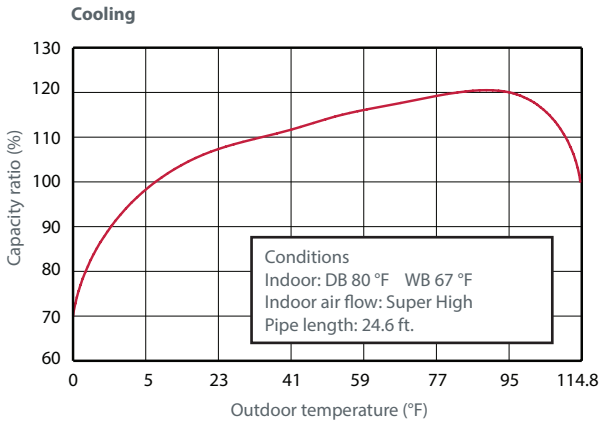
¹ 1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged.

Capacity Variation Ratio According to Temperature

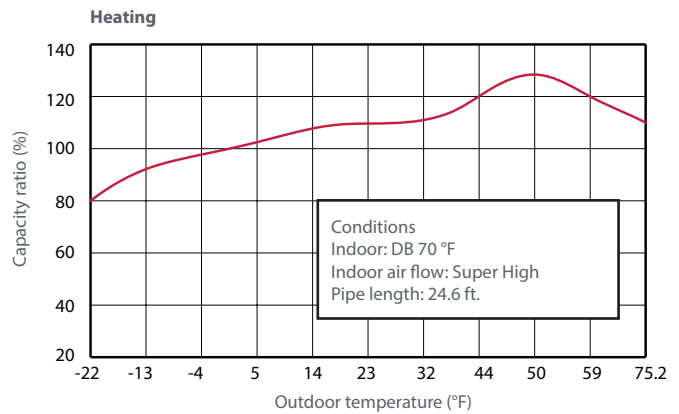
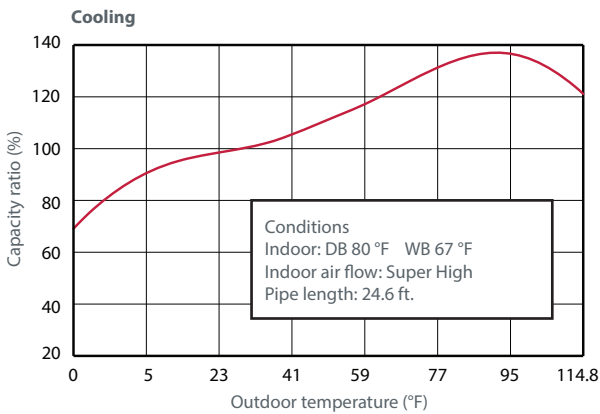
UHD09



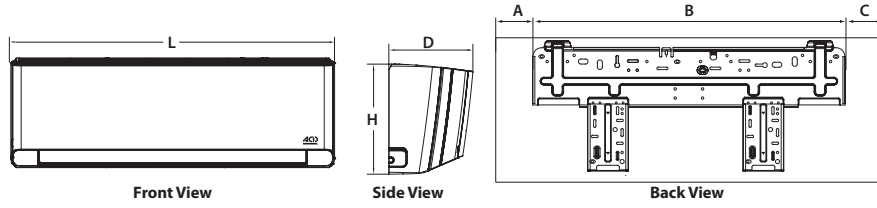
UHD12



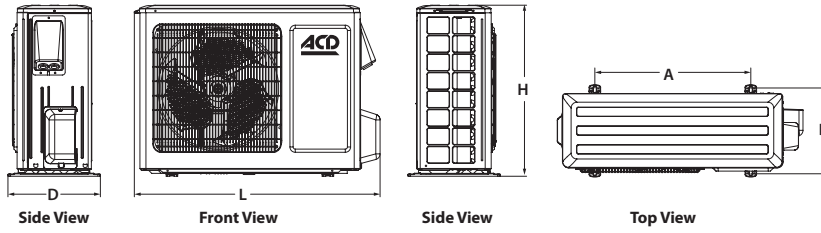
UHD18 & UHD24



Indoor Unit



Outdoor Unit



Indoor Unit	L		H		D		A		B		C	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
UHD09KCH38SB-I UHD12KCH315-I	39 3/16	970	11 7/8	302	8 7/8	225	4 5/8	117	27	685	7 5/8	194
UHD18KCH25S-I UHD24KCH22S-I	43 3/8	1078	12 7/8	325	9 13/16	246	8 9/16	217	26 15/16	684	7 7/8	199

Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
UHD09KCH38SB-O UHD12KCH315-O	35 3/8	899	23 1/2	596	14 7/8	378	21 11/16	550	13 1/2	343
UHD18KCH25S-O UHD24KCH22S-O	38 5/8	1000	31 1/8	790	16 13/16	427	24	610	15 9/16	395



TF 1.800.567.2733 X61017_A
info@dettson.ca
dettson.com

Specifications are subject to change without notice

Authorized Retailer