



Charmo 19

Ductless Single Zone
Heat Pump



Indoor Unit



Outdoor Unit



Performance up to



Cooling



Heating

Up to

19 SEER2
IN COOLING

8.8 HSPF2
IN HEATING



Eligible for certain government programs¹



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.

Connection piping

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

Control

- Wireless remote included.
- Wired wall controller available.
- Wi-Fi.
- 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



Fin Coating



Quiet Design



Smart Defrosting



Smart Preheating



Auto Restart



Auto-Clean



Self-Diagnosis



Wall Controller



Sleep Mode



Turbo Mode



Up & Down Swing



Timer



I Feel



Lock



Wireless Remote



Wi-Fi

Optional

¹ Validate your eligibility for government programs base on your regions and heat pump model.

Charmo 19

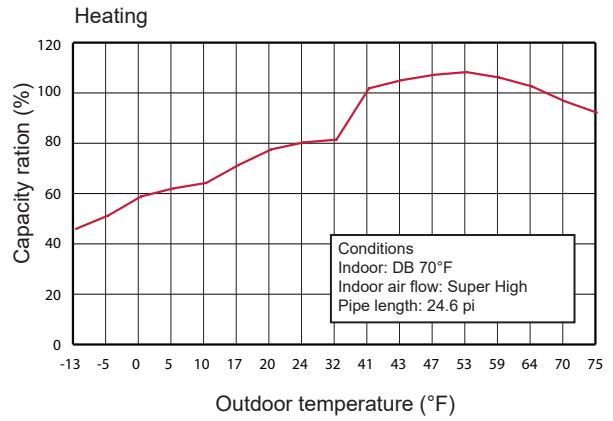
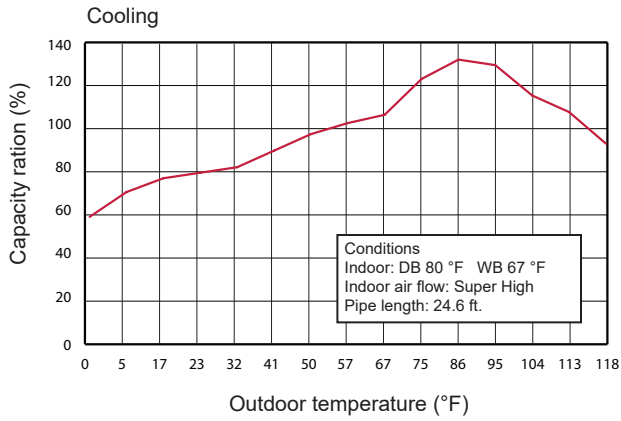
Models

Product # ¹	Indoor Unit Outdoor Unit	CHD09KCH195-I CHD09KCH195-O	CHD12KCH175-I CHD12KCH175-O	CHD18KCH175-I CHD18KCH175-O	CHD24KCH185-I CHD24KCH185-O	
Technical Performance						
Voltage	Volts	230/208	230/208	230/208	230/208	
Cooling capacity	Nominal	W (BTU/hr)	2667 (9100)	3517 (12000)	5159 (17600)	6450 (22000)
	Min. – max.	W (BTU/hr)	820 - 3018 (2800 - 10300)	700 - 3700 (2388 - 13307)	1100 - 5850 (3753 - 19960)	2000 - 7400 (6824 - 25249)
Heating capacity	Nominal	W (BTU/hr)	2931 (10000)	3517 (12000)	5598 (19100)	7040 (24000)
	Min. – max.	W (BTU/hr)	655 - 3575 (2200 - 12200)	700 - 4400 (2388 - 15013)	800 - 6600 (2730 - 22519)	1750 - 8000 (5971 - 27296)
Used cooling power input	Nominal	W	805	1334	1750	1896
	Min. – max.	W	180 - 1350	180 - 1500	200 - 2300	340 - 2350
Used heating power input	Nominal	W	781	1004	1750	2051
	Min. – max.	W	150 - 1450	260 - 1650	260 - 2300	370 - 2400
Used rated input	W	1450	1650	2300	2400	
Rated current	A	6.5	6.7	9.5	12	
MCA	A	9	11	14	15	
Max. over-current protection (MOCP)	A	15	15	20	20	
SEER2 (SEER)	-	19.5 (19.5)	17.5 (17.5)	17.5 (17.5)	18 (18)	
HSPF2 (HSPF)	-	8.8 (10)	8.5 (10)	8.5 (9)	8.5 (10)	
EER	W/W	3.30	2.64	2.95	3.40	
COP	W/W	3.75	3.50	3.20	3.43	
AHRI number	-	210410121	210410122	210410123	210410124	
Energy Star	-	-	-	-	-	
Indoor Unit						
Dehumidification	pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.8 (1.80)	5.28 (2.50)	
Air flow volume	cfm	353 / 282.5 / 264.8 / 229.5 / 211.86 / 194.2 / 158.8	424 / 353 / 324 / 277 / 247 / 224 / 182	618 / 512 / 471 / 436 / 395 / 336 / 283	677 / 588 / 559 / 500 / 471 / 441 / 412	
Sound level	dB (A)	51 / 47 / 44 / 42 / 41 / 38 / 36	57 / 49 / 48 / 45 / 43 / 42 / 37	60 / 56 / 54 / 52 / 50 / 46 / 42	61 / 57 / 55 / 52 / 50 / 48 / 46	
Fan motor power output	W	20	15	45	60	
Fan motor RLA	A	0.30	0.40	0.70	0.45	
Deflector stepper motor power output	W	1.5	1.5	2.5	2.5	
Net weight	lb (kg)	19.8 (9)	19.8 (9)	28.7 (13)	33 (18)	
Outdoor Unit						
Air flow volume	m3/hr	1950	1950	2520	3200	
Sound level	dB (A)	51	52	57	57	
Compressor power input	W	756	857	1295	1330	
Compressor LRA	A	-	-	25	35	
Compressor RLA	A	5.20	7.30	9.35	0.45	
Fan motor power output	W	30	30	30	60	
Fan motor RLA	A	0.4	0.6	0.9	0.6	
Refrigerant volume (R410A)	oz (g)	24.7 (700)	27.5 (750)	44.1 (1150)	52.9 (1500)	
Net weight	lb (kg)	56.22 (25.5)	57.33 (26)	71.70 (32.5)	97 (44)	
Operating ambient temperature	Cooling	°C (°F)				
	Heating	°C (°F)				
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)	0.2 (20)	0.5 (50)	
Liquid pipe outer diameter	in.	1/4	1/4	1/4	1/4	
Gas pipe outer diameter	in.	3/8	3/8	1/2	5/8	
Maximum height difference	ft. (m)	66 (20)	66 (20)	66 (20)	66 (20)	
Maximum total length	ft. (m)	66 (20)	66 (20)	82 (25)	82 (25)	

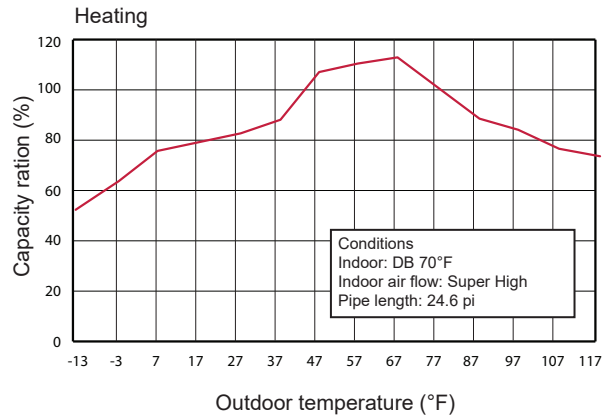
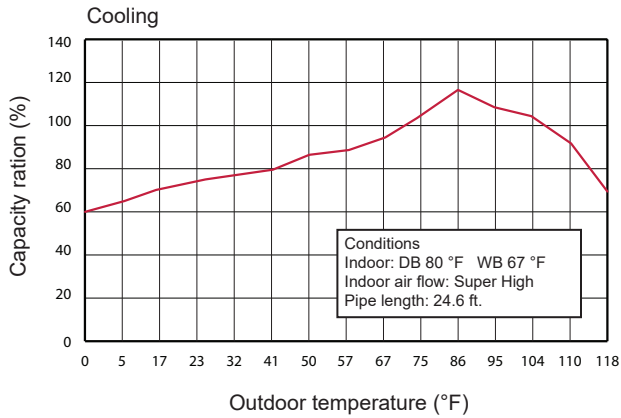
¹ 1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged.

Capacity Variation Ratio According to Temperature

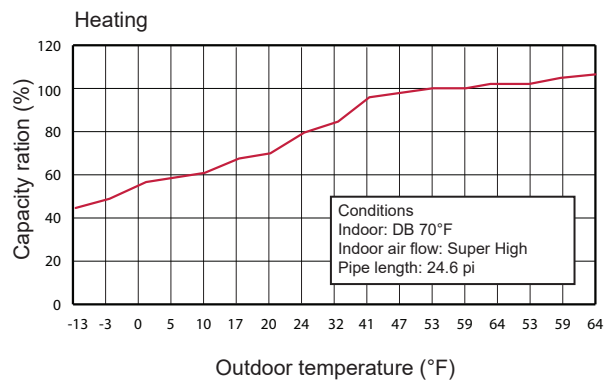
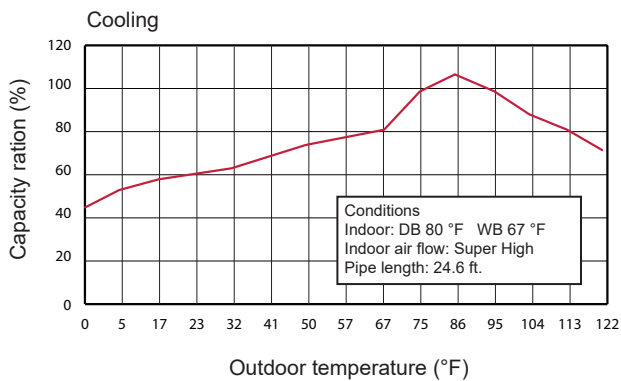
CHD09 & CHD12



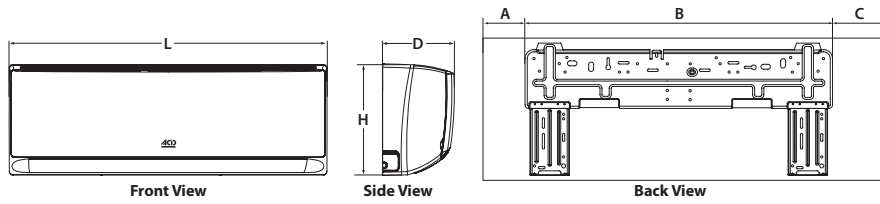
CHD18



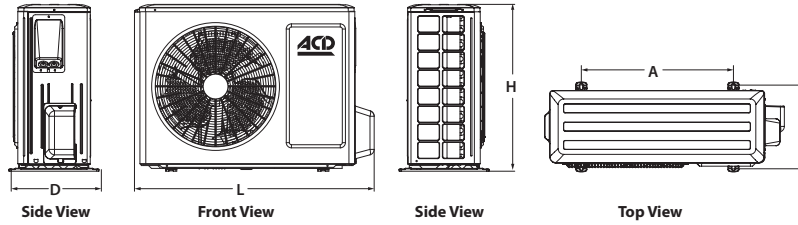
CHD24



Indoor Unit



Outdoor Unit



Indoor Unit	L		H		D		A		B		C	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CHD09KCH19S-I CHD12KCH17S-I	32 7/8	835	10 7/8	275	7 7/8	200	7 1/16	119	18 5/32	542	7 11/16	184
CHD18KCH17S-I	37 1/8	943	13 1/8	333	9 11/16	246	7 17/32	102	22 1/16	686	7 1/2	183
CHD24KCH18S-I	42 7/16	1078	13 1/8	333	9 11/16	246	10 3/16	206	22 1/16	686	10 5/32	186

Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CHD09KCH19S-O CHD12KCH17S-O	28 13/16	732	21 54/64	555	13	330	17 15/16	540	12 3/16	286
CHD18KCH17S-O	31 37/64	802	21 54/64	555	13 50/61	350	20 5/32	559	13 2/32	364
CHD24KCH18S-O	37 3/4	958	26	660	15 53/64	402	22 13/32	610	14 19/32	395



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Specifications are subject to change without notice

Authorized Retailer