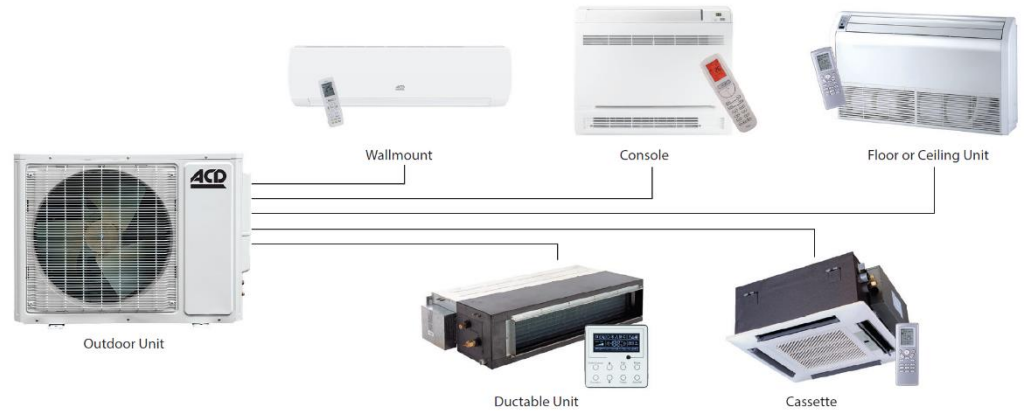


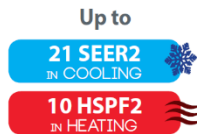
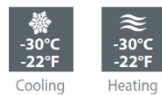


Free Match

Ductless Multizone Heat Pump



Performance up to



Features

Operation mode
Nominal capacity
Voltage
Outdoor unit

- Cooling, heating, dehumidifying, fan and auto.
- 18000, 24000, 30000, 36000, 42000 BTU/hr.
- 230/208V, 60 Hz, 1-phase.
- 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.
- Minimum piping length of 10 ft. (3 m).
- Flared connections.

Connection piping

Warranty

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

Application

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

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

Includes



Optional



Outdoor Unit Models

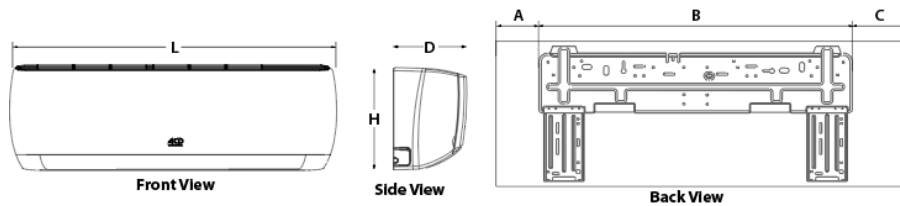
Product #		MPD18KCH21SB-O	MPD24KCH21SB-O	MPD30KCH21SB-O	MPD36KCH21SB-O	MPD42KCH21SB-O	
Qty							
Technical Performance							
Number of connectable indoor unit		-	1 to 2	2 to 3	2 to 4	2 to 5	
Voltage		Volts	230/208	230/208	230/208	230/208	
Cooling capacity	Nominal	W (BTU/hr)	4982 (17000)	6800 (23200)	8300 (28400)	9970 (34000)	10550 (36000)
	Min. – max.	W (BTU/hr)	2052 - 5744 (7000 - 19600)	2200 - 9200 (7500 - 31400)	2400 - 10000 (8190 - 34100)	2600 - 10500 (8871 - 35826)	2600 - 12000 (8871 - 40944)
Heating capacity	Nominal	W (BTU/hr)	5275 (18000)	7030 (24000)	8792 (30000)	10550 (36000)	11720 (40000)
	Min. – max.	W (BTU/hr)	2052 - 5744 (7000 - 19600)	2200 - 9200 (7500 - 31400)	2400 - 12000 (8188 - 40900)	2600 - 13000 (8871 - 44356)	2600 - 13500 (8871 - 46062)
Used cooling power input	Nominal	W	1420	1860	2270	2830	3000
Used heating power input	Nominal	W	1380	1800	2250	2900	3020
MCA	A		20	25	30	30	30
Max. over-current protection (MOCP)	A		20	25	35	45	45
SEER2	-		21	21	21	21	21
HSPF2	-		10	10	10	10	10
EER	W/W		3.52	3.66	3.66	3.52	3.52
COP	W/W		3.82	3.91	3.91	3.64	3.88
AHRI number	-		210534127	210534128	210534129	210534130	21053413
ENERGY STAR	-		✓	✓	✓	✓	✓
Air flow volume	cfm		1354	2236	3413	3413	3413
Sound level	dB (A)		64	68	74	74	74
Compressor power input	W		1295	1887	2047	2294	2294
Compressor LRA	A		-	-	-	-	-
Compressor RLA	A		9.95	12.1	14.25	18.2	18.4
Fan motor power output	W		30	60	130	130	130
Refrigerant volume (R410A)	oz (g)		45.9 (1300)	84.7 (2400)	105.8 (3000)	130.5 (3700)	134 (3800)
Dimension L x H x D	in. (mm)		32 3/8 x 21 11/16 x 13 7/8 (822 x 550 x 352)	37 15/16 x 26 x 15 13/16 (964 x 660 x 402)	40 1/8 x 32 1/2 x 17 5/16 (1020 x 826 x 427)	40 1/8 x 32 1/2 x 17 5/16 (1020 x 826 x 427)	40 1/8 x 32 1/2 x 17 5/16 (1020 x 826 x 427)
Net weight	lb (kg)		77 (35)	115 (52)	152 (69)	172 (78)	174 (79)
Operating ambient temperature	Cooling	°C (°F)	-30 to 48 (-22 to 118)				
	Heating	°C (°F)	-30 à 24 (-22 à 75)				
Connection Piping/Refrigerant							
Pre-charge length	ft. (m)		33 (10)	98 (30)	131 (40)	131 (40)	131 (40)
Additional refrigerant charge	oz/ft. (g/m)		0.2 (20)	0.2 (20)	0.2 (20)	0.2 (20)	0.2 (20)
Liquid pipe outer diameter	in.		1/4	1/4	1/4	1/4	1/4
Gas pipe outer diameter	in.		3/8	3/8	3/8	3/8	3/8
Max. height difference outdoor to indoor unit	ft. (m)		49 (15)	49 (15)	82 (25)	82 (25)	82 (25)
Max. total length	ft. (m)		131 (40)	197 (60)	262 (80)	262 (80)	328 (100)

Indoor Unit Models Wallmounted

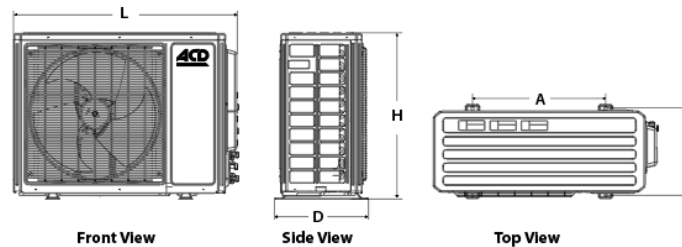
Product #			PUD09KCH25S-I	PUD12KCH24S-I	PUD18KCH23S-I	PUD24KCH24S-I
Qty						
Cooling capacity	Nominal	W (BTU/hr)	2667 (9100)	3517 (12000)	5275 (18000)	6450 (22000)
	Min. – max.	W (BTU/hr)	450 - 3150 (1535 - 10748)	900 - 4132 (3070 - 14100)	1500 - 6200 (5118 - 21154)	2600 - 8200 (8870 - 28000)
Heating capacity	Nominal	W (BTU/hr)	3077 (10500)	3517 (12000)	5275 (18000)	7040 (24000)
	Min. – max.	W (BTU/hr)	1000 - 4300 (3412 - 14671)	900 - 4543 (3071 - 15500)	1500 - 6200 (5118 - 21154)	2100 - 9000 (7200 - 30708)
Dehumidification		pt/hr (l/hr)	1.69 (0.8)	2.96 (1.4)	3.8 (1.8)	5 (2.40)
Air flow volume		cfm	353 / 323 / 294 / 264 / 235 / 176 / 158	400 / 364 / 329 / 288 / 264 / 247 / 229	589 / 500 / 441 / 412 / 383 / 353 / 324	736 / 588 / 530 / 471 / 441 / 412 / 383
Sound level		dB (A)	50 / 47 / 45 / 42 / 39 / 36 / 35	53 / 48 / 46 / 44 / 42 / 40 / 37	59 / 53 / 51 / 50 / 47 / 43 / 39	62 / 54 / 52 / 49 / 48 / 46 / 44
Fan motor power output		W	15	15	45	60
Fan motor RLA		A	0.22	0.20	0.35	0.30
Deflector stepper motor power output		W	1.5	1.5	1.5	1.5
Dimension L x H x D		in. (mm)	32 1/2 x 11 1/2 x 7 23/32 (825 x 293 x 196)	32 1/2 x 11 1/2 x 7 23/32 (825 x 293 x 196)	39 3/16 x 12 1/4 x 8 11/16 (995 x 311 x 221)	43 1/2 x 13 7/64 x 9 11/16 (1105 x 333 x 246)
Net weight		lb (kg)	21 (9.5)	21 (9.5)	29 (13.5)	35 (16)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	1/4
Gas pipe outer diameter		in.	3/8	1/2	5/8	5/8

Note that each unit is individually packaged.

Indoor Unit



Outdoor Unit



Indoor Unit	L		H		D		A		B		C	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
PUD09KCH25S-I PUD12KCH24S-I	32 1/2	825	11 1/2	293	7 23/32	196	5 7/8	149	21 5/16	542	8 1/32	204
PUD18KCH23S-I	39 3/16	995	12 1/4	311	8 11/16	221	8 1/2	203	27	686	9 1/4	235
PUD24KCH24S-I	43 1/2	1105	13 7/64	333	9 11/16	246	8 1/2	203	27	686	9 1/4	235

Outdoor Unit	L		H		D		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
MPD18KCH21SB-O	32 3/8	822	21 11/16	550	13 7/8	352	20 5/32	512	13 5/64	332
MPD24KCH21SB-O	37 15/16	964	26	660	15 13/16	402	22	559	14 1/2	368
MPD30KCH21SB-O MPD36KCH21SB-O MPD42KCH21SB-O	40 1/8	1020	32 1/2	826	17 5/16	427	24 13/16	630	14 13/16	376

Console

Product #			CMD09KCHVS-I	CMD12KCHVS-I
Qty				
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)
Heating capacity	Nominal	W (BTU/hr)	2784 (9500)	3810 (13000)
Dehumidification		pt/hr (l/hr)	1.69 (0.8)	2.96 (1.40)
Air flow volume	Min. - max.	cfm	188 / 382	206 / 441
Sound level	Min. - max.	dB (A)	25 / 40	27 / 43
Dimension L x H x D		In. (mm)	27 5/8 x 23 5/8 x 8 1/2 (701 x 599 x 216)	27 5/8 x 23 5/8 x 8 1/2 (701 x 599 x 216)
Net weight		lb (kg)	33 (15)	33 (15)
Liquid pipe outer diameter		in.	1/4	1/4
Gas pipe outer diameter		in.	3/8	3/8

Floor or Ceiling Unit

Product #			FCD09KCHVS-I	FCD12KCHVS-I	FCD18KCHVS-I	FCD24KCHVS-I
Qty						
Cooling capacity	Nominal	W (BTU/hr)	2491 (8500)	3488 (11900)	4982 (17000)	6682 (22800)
Heating capacity	Nominal	W (BTU/hr)	2784 (9500)	3839 (13100)	5480 (18700)	8030 (27400)
Dehumidification		pt/hr (l/hr)	1.69 (0.8)	2.96 (1.40)	3.80 (1.80)	5.28 (2.50)
Air flow volume	Min. - max.	cfm	265 / 383	265 / 383	294 / 559	412 / 736
Sound level	Min. - max.	dB (A)	36 / 40	36 / 40	40 / 45	44 / 48
Dimension L x H x D		In. (mm)	48 x 27 5/8 x 8 7/8 (1219 x 701 x 226)	48 x 27 5/8 x 8 7/8 (1219 x 701 x 226)	48 x 27 5/8 x 8 7/8 (1219 x 701 x 226)	48 x 27 5/8 x 8 7/8 (1219 x 701 x 226)
Net weight		lb (kg)	88 (40)	88 (40)	88 (40)	99 (45)
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

Ductable Unit

Product #			SMD09KCHVS-I	SMD12KCHVS-I	SMD18KCHVS-I	SMD24KCHVS-I
Qty						
Cooling capacity	Nominal	W (BTU/hr)	2491 (8500)	3488 (11900)	4484 (15300)	6975 (23800)
Heating capacity	Nominal	W (BTU/hr)	2784 (9500)	3839 (13100)	5480 (18700)	8030 (27400)
Dehumidification		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.80 (1.80)	5.28 (2.50)
Air flow volume	Min. - max.	cfm	147 / 265	176 / 324	294 / 412	324 / 588
Sound level	Min. - max.	dB (A)	31 / 37	32 / 39	33 / 41	34 / 42
ESP		InWg	0.25/0.4	0.3/0.4	0.32/0.4	0.35/0.4
Dimension L x H x D		In. (mm)	27 5/8 x 7 7/8 x 24 3/16 (701 x 201 x 615)	27 5/8 x 7 7/8 x 24 3/16 (701 x 201 x 615)	35 3/8 x 7 7/8 x 24 3/16 (899 x 201 x 615)	43 5/16 x 7 7/8 x 24 3/16 (1100 x 201 x 615)
Net weight		lb (kg)	49 (22)	51 (23)	60 (27)	68 (31)
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

Cassette

Product #			CCD12KCHVS-I	CCD18KCHVS-I	CCD24KCHVS-I
Qty					
Cooling capacity	Nominal	W (BTU/hr)	3517 (12000)	4500 (15354)	6682 (22800)
Heating capacity	Nominal	W (BTU/hr)	3810 (13000)	4982 (17000)	8030 (27400)
Dehumidification		pt/hr (l/hr)	2.96 (1.40)	3.80 (1.80)	5.28 (2.50)
Air flow volume	Min. - max.	cfm	265 / 353	265 / 353	500 / 694
Sound level	Min. - max.	dB (A)	42 / 46	42 / 46	35 / 39
Unit dimension L x H x D		In. (mm)	22 3/8 x 9 1/8 x 22 3/8 (569 x 231 x 569)	22 3/8 x 9 1/8 x 22 3/8 (569 x 231 x 569)	33 1/8 x 9 1/2 x 33 1/8 (841 x 241 x 841)
Grille dimension L x H x D		In. (mm)	25 1/2 x 1 7/8 x 25 1/2 (648 x 48 x 648)	25 1/2 x 1 7/8 x 25 1/2 (648 x 48 x 648)	37 3/8 x 2 5/16 x 37 3/8 (950 x 58 x 950)
Net weight		lb (kg)	40 (18)	40 (18)	62 (28)
Liquid pipe outer diameter		in.	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	1/2	5/8

—Note that each unit is individually packaged.



Specifications may change without prior notice

Project:	Approval Information
Consultant Engineer:	
Electrical Contractor:	
Distributor:	
Date:	
Contact at Dettson:	
Comments:	