



# Free Match

## Outdoor Unit Models

Product #		MPD18KCH21SB-O	MPD24KCH21SB-O	MPD30KCH21SB-O	MPD36KCH21SB-O	MPD42KCH21SB-O		
<b>Technical Performance</b>								
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 (SEER)		-	21 (21)	21 (21)	21 (21)	21 (21)	21 (21)	
HSPF2 (HSPF)		-	10 (10)	10 (10)	10 (10)	10 (10)	10 (10)	
EER2 (EER)		W/W	12 (3.52)	12.5 (3.66)	12.5 (3.66)	12 (3.52)	12 (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 to 24 (-22 to 75)	
<b>Connection Piping/Refrigerant</b>								
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	
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.

# Free Match

## Indoor Unit Models

### Console

Product #			CMD09KCHVS-I	CMD12KCHVS-I
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 (0.80)	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 × H × D	in. (mm)	27 5/8 × 23 5/8 × 8 1/2 (701 × 599 × 216)	27 5/8 × 23 5/8 × 8 1/2 (701 × 599 × 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
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 (0.80)	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 × H × D	in. (mm)	48 × 27 5/8 × 8 7/8 (1219 × 701 × 226)	48 × 27 5/8 × 8 7/8 (1219 × 701 × 226)	48 × 27 5/8 × 8 7/8 (1219 × 701 × 226)	48 × 27 5/8 × 8 7/8 (1219 × 701 × 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
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 × H × D	in. (mm)	27 5/8 × 7 7/8 × 24 3/16 (701 × 201 × 615)	27 5/8 × 7 7/8 × 24 3/16 (701 × 201 × 615)	35 3/8 × 7 7/8 × 24 3/16 (899 × 201 × 615)	43 5/16 × 7 7/8 × 24 3/16 (1100 × 201 × 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
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 × H × D	in. (mm)	22 3/8 × 9 1/8 × 22 3/8 (569 × 231 × 569)	22 3/8 × 9 1/8 × 22 3/8 (569 × 231 × 569)	33 1/8 × 9 1/2 × 33 1/8 (841 × 241 × 841)
Grille Dimension	L × H × D	in. (mm)	25 1/2 × 1 7/8 × 25 1/2 (648 × 48 × 648)	25 1/2 × 1 7/8 × 25 1/2 (648 × 48 × 648)	37 3/8 × 2 5/16 × 37 3/8 (950 × 58 × 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.

# Free Match

## To order

**1** Choose the outdoor unit based on the system capacity required.

**2** Choose the appropriate indoor unit combination by referring to the combination table below. Refer to the legend to find the product # of the indoor units you want to order.

Note that each unit is individually packaged.

### Example:

Outdoor unit required: MPD42KCH21SB-O

Indoor unit combination chosen:  
09 + 09 + 12 + 12 + 12



### Legend

Code	BTU/hr
09	9000 BTU/hr
12	12000 BTU/hr
18	18000 BTU/hr
24	24000 BTU/hr

## Combination Table

Outdoor Unit	2 Indoor Units
MPD18KCH21SB	09 + 09
	09 + 12
	12 + 12

Outdoor Unit	2 Indoor Units	3 Indoor Units
MPD24KCH21SB-O	09 + 09	09 + 09 + 09
	09 + 12	09 + 09 + 12
	09 + 18	-
	12 + 12	-
	12 + 18	-

Outdoor Unit	2 Indoor Units	3 Indoor Units	4 Indoor Units
MPD30KCH21SB-O	09 + 09	09 + 09 + 09	09 + 09 + 09 + 09
	09 + 12	09 + 09 + 12	09 + 09 + 09 + 12
	09 + 18	09 + 09 + 18	-
	12 + 12	09 + 12 + 12	-
	12 + 18	09 + 12 + 18	-
	18 + 18	12 + 12 + 12	-

Outdoor Unit	2 Indoor Units	3 Indoor Units	4 Indoor Units	5 Indoor Units
MPD36KCH21SB-O	09 + 09	09 + 09 + 09	09 + 09 + 09 + 09	09 + 09 + 09 + 09 + 09
	09 + 12	09 + 09 + 12	09 + 09 + 09 + 12	09 + 09 + 09 + 09 + 12
	09 + 18	09 + 09 + 18	09 + 09 + 09 + 18	-
	09 + 24	09 + 09 + 24	09 + 09 + 12 + 12	-
	12 + 12	09 + 12 + 12	09 + 09 + 12 + 18	-
	12 + 18	09 + 12 + 18	09 + 12 + 12 + 12	-
	12 + 24	09 + 12 + 24	12 + 12 + 12 + 12	-
	18 + 18	09 + 18 + 18	-	-
	18 + 24	09 + 18 + 24	-	-
	24 + 24	12 + 12 + 12	-	-
	-	12 + 12 + 18	-	-
	-	12 + 12 + 24	-	-

Outdoor Unit	2 Indoor Units	3 Indoor Units	4 Indoor Units	5 Indoor Units
MPD42KCH21SB-O	09 + 09	09 + 09 + 09	09 + 09 + 09 + 09	09 + 09 + 09 + 09 + 09
	09 + 12	09 + 09 + 12	09 + 09 + 09 + 12	09 + 09 + 09 + 09 + 12
	09 + 18	09 + 09 + 18	09 + 09 + 09 + 18	09 + 09 + 09 + 09 + 18
	09 + 24	09 + 09 + 24	09 + 09 + 09 + 24	09 + 09 + 09 + 12 + 12
	12 + 12	09 + 12 + 12	09 + 09 + 12 + 12	09 + 09 + 12 + 12 + 12
	12 + 18	09 + 12 + 18	09 + 09 + 12 + 18	-
	12 + 24	09 + 12 + 24	09 + 09 + 12 + 24	-
	18 + 18	09 + 18 + 18	09 + 09 + 18 + 18	-
	18 + 24	09 + 18 + 24	09 + 09 + 18 + 24	-
	24 + 24	09 + 24 + 24	09 + 12 + 12 + 12	-
	-	12 + 12 + 12	09 + 12 + 12 + 18	-
	-	12 + 12 + 18	09 + 12 + 12 + 24	-
	-	12 + 12 + 24	09 + 12 + 18 + 18	-
	-	12 + 18 + 18	09 + 12 + 18 + 24	-
	-	12 + 18 + 24	09 + 18 + 18 + 18	-
	-	18 + 18 + 18	12 + 12 + 12 + 12	-
	-	-	12 + 12 + 12 + 18	-

The combinations in red represent the combinations that offer 100% performance of the system in heating mode.

It is important that the sum power of the indoor units does not exceed 133% of the power of the outdoor unit.



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Specifications are subject to change without notice

Authorized Retailer