

OTP-MZ Myriad Plus Ductless Multizone Heat Pump



Indoor Units

Outdoor Unit



Performance up to



-30°C
-22°F

Cooling



-30°C
-22°F

Heating

Up to



Features

Operation mode

- Cooling, heating, dehumidifying, fan and auto.

Nominal capacity

- 18000, 24000, 30000, 36000, 42000 BTU/hr.

Voltage

- 230/208V, 60 Hz, 1-phase.

Indoor unit

- High wall installation, dual side connection.
- Plastic housing, standard white.
- 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.
- 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 each indoor unit.
- 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



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

Optional



Wall Controller



Wi-Fi

OTP-MZ

Models - Outdoor Unit

Product #		MPD18KCH21SB-0	MPD24KCH21SB-0	MPD30KCH21SB-0	MPD36KCH21SB-0	MPD42KCH21SB-0	
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
EER2		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	210534131
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)
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)		-30 to 48 (-22 to 118)	
	Heating	°C (°F)		-30 to 24 (-22 to 75)		-30 to 24 (-22 to 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)
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)

OTP-MZ / OTP-P (Pacific)

Models - OTP-P (Pacific) Indoor Unit

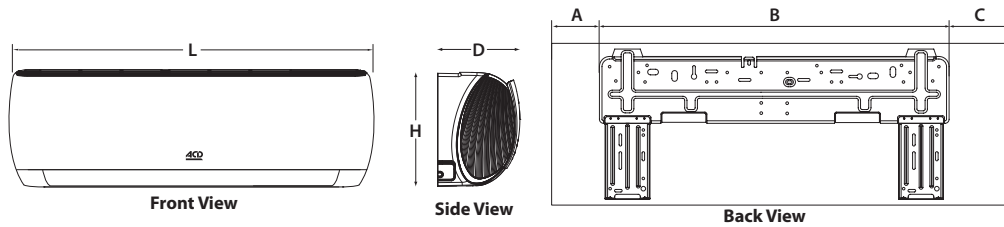
Product #		PUD09KCH25S-I	PUD12KCH24S-I	PUD18KCH23S-I	PUD24KCH24S-I
Cooling capacity	Nominal	W (BTU/hr) 2667 (9100)	3517 (12000)	5275 (18000)	6450 (22000)
	Min. – max.	W (BTU/hr) 450 – 3150 (1535 - 10748)	900 – 4132 (3070 - 14100)	1500 - 6200 (5118 - 21154)	2600 - 8200 (8870 - 28000)
Heating capacity	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
Net Weight	lb (kg)	21 (9.5)	21 (9.5)	29 (13.5)	35 (16)
Connection Piping/Refrigerant					
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.

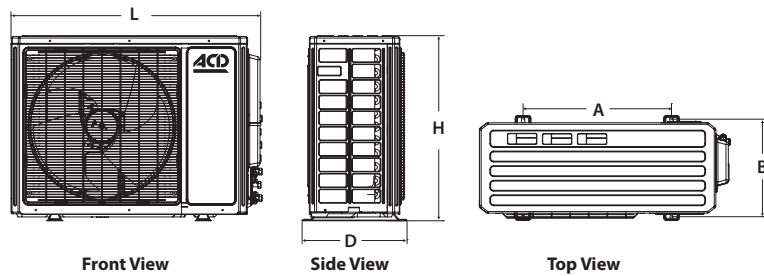
Options

See OTP Options section

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 PUD24KCH24S-I	39 3/16	995	12 1/4	311	8 11/16	221	8 1/2	203	27	686	9 1/4	235
	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 MPD24KCH21SB-O	32 3/8	822	21 11/16	550	13 7/8	352	20 5/32	512	13 5/64	332
MPD30KCH21SB-O MPD36KCH21SB-O	37 15/16	964	26	660	15 13/16	402	22	559	14 1/2	368
MPD42KCH21SB-O	40 1/8	1020	32 1/2	826	17 5/16	427	24 13/16	630	14 13/16	376

OTP-MZ / OTP-P (Pacific)

To order

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

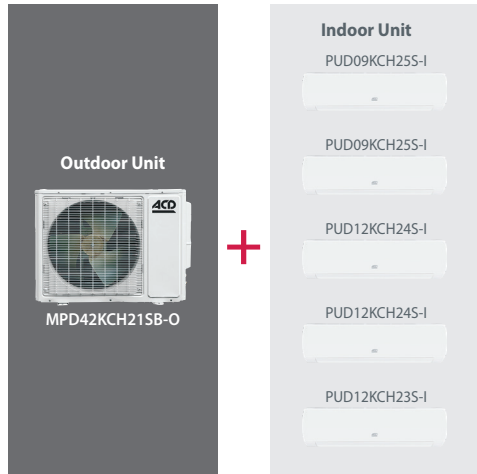
2 Choose the appropriate indoor unit combination by referring to the combination table below.
Refer to the legend to find the product # of the indoor units you want to order.

Note that each unit is individually packaged.

Example:

Outdoor unit required: MPD42KCH21SB-O

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



Combination Table

Outdoor Unit	2 Indoor Units	3 Indoor Units	4 Indoor Units	5 Indoor Units
MPD18KCH21SB-O	09 + 09			
	09 + 12			
	12 + 12			
MPD24KCH21SB-O	09 + 09	09 + 09 + 09		
	09 + 12	09 + 09 + 12		
	09 + 18	-		
	12 + 12	-		
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	-	
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	-
MPD42KCH21SB-O	12 + 12	09 + 12 + 12	09 + 09 + 12 + 12	-
	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	-	-
	-	12 + 18 + 18	-	-
	-	12 + 18 + 24	-	-
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.

Legend

Code	BTU/hr	Product # Indoor Unit
09	9000 BTU/hr	PUD09KCH25S-I
12	12000 BTU/hr	PUD12KCH24S-I
18	18000 BTU/hr	PUD18KCH23S-I
24	24000 BTU/hr	PUD24KCH24S-I