

Multi zone inverter mini split

MODEL: MPD24KCH21S-O



Job Name:

Location:

Engineer Name:

File Resubmit

Contractor:

System No:

Approval Other

Date:

General Features

- High And Low Pressure Protection Features
- Over Load Protection Features
- Over-Current Protection
- Anti Freeze Protection



Unit Performance:

<i>Cooling:</i>	
Capacity (Min-Rated-Max, Btu/h)	7,500-24,000-33,000
SEER	21
EER (Btu/h)/w	12,5
<i>Heating:</i>	
Capacity (Min-Rated-Max, Btu/h)	7,500-26,000-27,978
HSPF	10,5
COP (W/W)	3,72

Piping

Refrigerant Charge (lbs)	4,8
Liquid Line (in)	1/4
Gas Line (in)	3/8
Max Total Piping (ft)	197
Max ODU to IDU Piping (ft)	65,6
Total Piping Length (no add'l refrigerant, ft)	98,4
Max Elevation between ODU and IDU (ft)	32,8
Max Elevation between IDU and IDU (ft)	32,8

Operating Range:

Cooling (°F WB)	0~118
Heating (°F DB)	-5~75

Unit Specification

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (dB(A))	59
Net Weight (lbs)	152,9
Min. Number IDU	N/A
Max. Number IDU	3
Dehumidification (Pint/h)	N/A
Heat Exchanger Coating	GoldFin™

Electrical Specification

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 14/4
MOP (A)	30
MCA (A)	30
Cooling Rated Amps (A)	8,35
Heating Rated Amps (A)	8,9
Compressor RLA (A)	15,82
Fan Motor RLA (A)	0,46
Nominal Cooling Power Input (kW)	1,92
Nominal Heating Power Input (kW)	2,05

Compressor:

Quantity	1
Type	Inverter Rotary
Oil/Type	RB68EP

Fan

Type	Axial-flow
Quantity	1
Motor/Drive	DC motor/Direct drive
Max Air Flow Rate (CFM)	2354

AHRI Certification Ref #

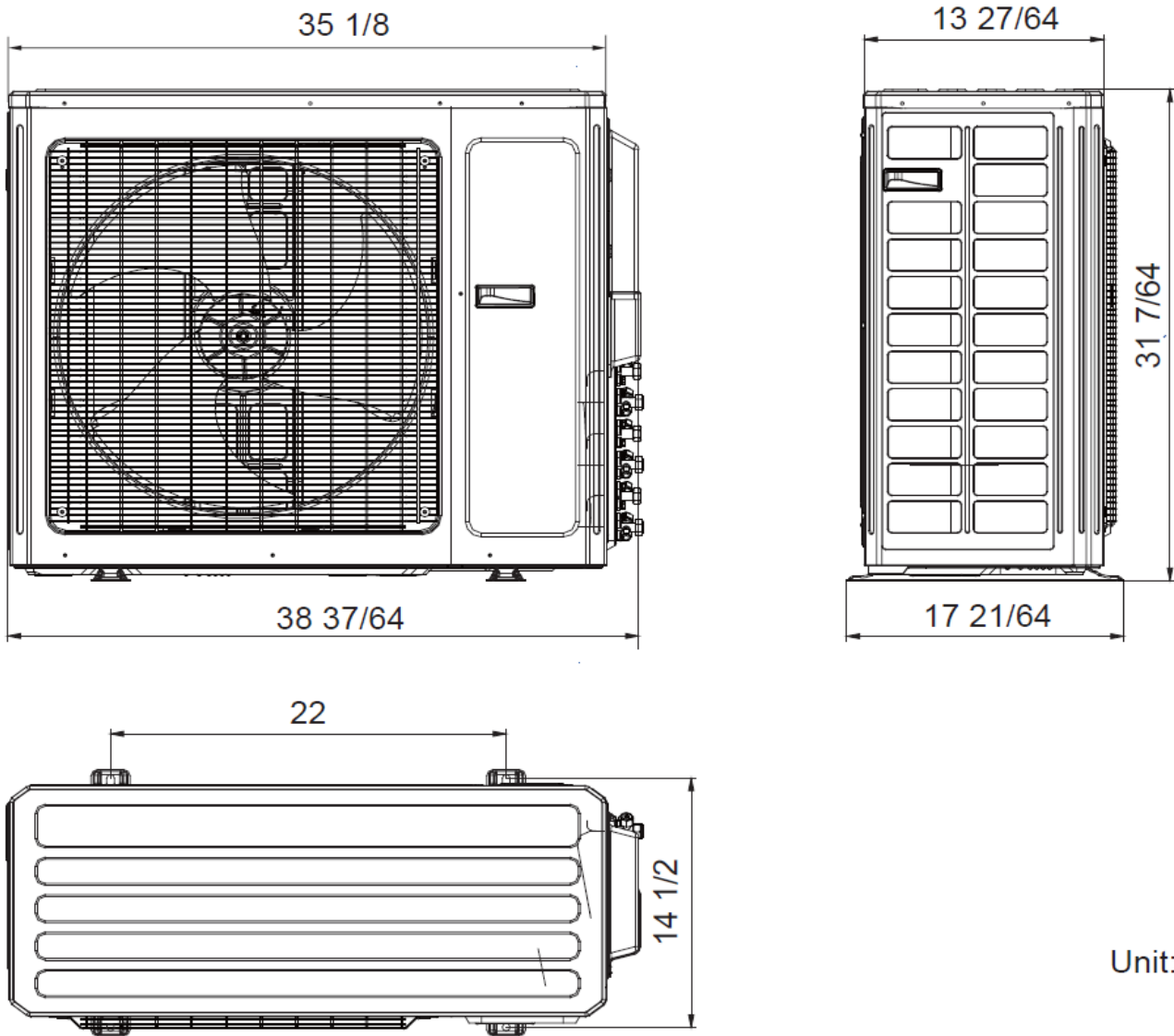


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Outline Dimension Diagram



Unit:inch

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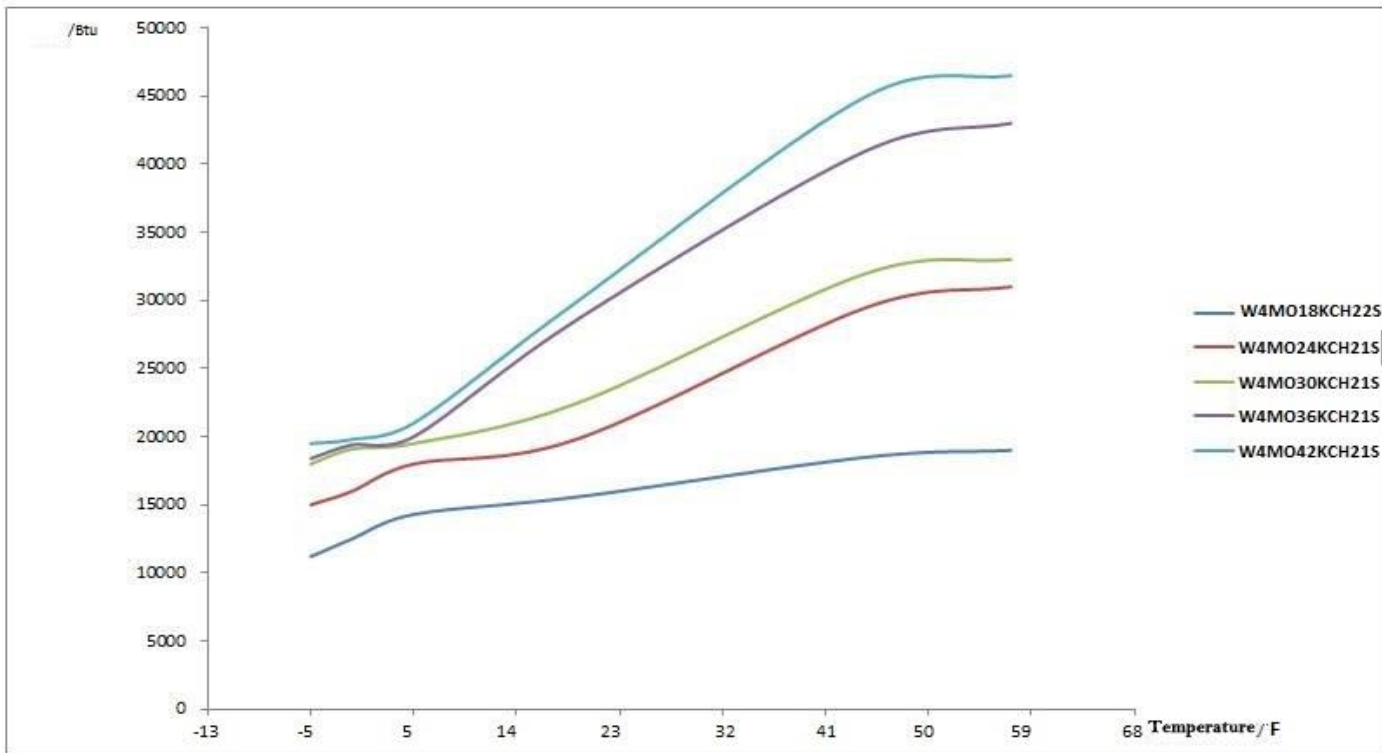
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COMBINATIONS

24K ODU

09 + 09	✓
09 + 12	✓
09 + 18	✓
12 + 12	✓
12 + 18	✓
18 + 18	✓
09 + 09 + 09	✓
09 + 09 + 12	✓
09 + 09 + 18	✓
09 + 12 + 12	✓
12 + 12 + 12	✓



GLOSSARY

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

HSPF - Heating Seasonal Performance Factor

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity



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COOLING PERFORMANCE

DB WB		Indoor Ambient Temperature											
		70 F 59 F			75 F 63 F			80 F 67 F			90 F 73 F		
		TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)
Outdoor Ambient Temperature (DB)	-0.4 F	14,670	11,510	1180	16,550	12,980	1250	17,500	13,720	1300	19,720	15,460	1390
	5 F	15,050	11,800	1180	16,970	13,320	1260	18,160	14,240	1300	20,220	15,860	1390
	14 F	16,590	13,010	1200	17,710	14,680	1270	19,780	15,510	1320	22,290	17,480	1410
	23 F	18,170	14,260	1200	20,700	16,240	1270	22,270	17,470	1310	24,500	19,220	1400
	32 F	19,103	14,986	1196	21,764	14,466	1265	22,379	17,543	1309	25,759	20,204	1404
	41 F	20,083	15,754	1257	22,880	15,208	1330	23,527	18,442	1376	27,080	21,240	1476
	50 F	20,919	16,411	1310	23,833	15,841	1386	24,507	19,211	1433	28,209	22,125	1538
	59 F	22,040	17,290	1380	25,110	16,690	1460	25,820	20,240	1510	29,720	23,310	1620
	68 F	24,961	19,577	2,028	26,521	20,797	2,092	28,341	22,228	2,219	32,501	25,494	2,375
	77 F	24,666	19,349	2,082	26,235	20,578	2,146	28,081	22,026	2,283	32,241	25,283	2,448
	86 F	23,453	18,392	2,329	25,013	19,621	2,402	27,301	21,412	2,548	31,245	24,502	2,731
	95 F	22,196	17,409	2,503	23,748	18,620	2,576	26,001	20,394	2,740	29,927	23,475	2,932
	104 F	21,122	16,566	2,585	22,664	17,777	2,667	25,325	19,867	2,831	28,853	22,623	3,032
113 F	20,038	15,714	2,640	21,581	16,926	2,722	24,250	19,015	2,895	27,769	21,781	3,096	
118 F	19,501	15,293	2,667	20,801	16,311	2,749	23,401	18,357	2,923	26,781	21,008	3,124	

HEATING PERFORMANCE

DB WB		Indoor Ambient Temperature											
		70 F 59 F			75 F 63 F			80 F 67 F			90 F 73 F		
DB		TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)	TC (BtuH)	SC (BtuH)	Input Power (watts)
Outdoor Ambient Temperature (DB)	-4 F	15,660	15,660	1,440	15,220	15,220	1,470	15,070	15,070	1,490	14,550	14,550	1,550
	0 F	16,974	16,974	1,577	16,485	16,485	1,609	16,177	16,177	1,669	15,751	15,751	1,708
	5 F	17,442	17,442	1,613	16,939	16,939	1,645	16,622	16,622	1,706	16,187	16,187	1,746
	7 F	17,909	17,909	1,648	17,393	17,393	1,682	17,067	17,067	1,744	16,622	16,622	1,784
	17 F	19,224	19,224	1,719	18,662	18,662	1,754	18,308	18,308	1,819	17,828	17,828	1,861
	28 F	21,716	21,716	1,832	21,145	21,145	1,869	20,538	20,538	1,938	20,293	20,293	1,983
	38 F	27,000	27,000	2,108	26,429	26,429	2,151	25,831	25,831	2,230	25,577	25,577	2,282
	47 F	30,517	30,517	2,192	29,592	29,592	2,237	29,003	29,003	2,320	28,206	28,206	2,374
	57 F	31,523	31,523	2,235	30,571	30,571	2,281	29,964	29,964	2,365	29,130	29,130	2,420
	68 F	32,810	32,810	2,310	31,810	31,810	2,360	31,180	31,180	2,450	30,310	30,310	2,500
	77 F	33,570	33,570	2,370	32,550	32,550	2,420	31,900	31,900	2,510	31,020	31,020	2,570

LEGEND

DB --- Dry Bulb TC --- Total Net Cooling Capacity (BtuH)
 WB --- Wet Bulb SC --- Sensible Capacity (BtuH) Input Power---(Watts)