

Multi zone inverter mini split

MODEL: MPD36KCH21S-O



Job Name: _____

Location: _____

Engineer Name: _____

File Resubmit

Contractor: _____

System No: _____

Approval Other

Date: _____

General Features

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



Unit Performance:

<i>Cooling:</i>	
Capacity (Min-Rated-Max, Btu/h)	8,871-34,000-35,826
SEER	21
EER (Btu/h)/w	12,48
<i>Heating:</i>	
Capacity (Min-Rated-Max, Btu/h)	8,871-42,500-44,356
HSPF	10,5
COP (W/W)	3,7

Piping

Refrigerant Charge (lbs)	8
Liquid Line (in)	1/4
Gas Line (in)	3/8
Max Total Piping (ft)	246
Max ODU to IDU Piping (ft)	82
Total Piping Length (no add'l refrigerant, ft)	131,2
Max Elevation between ODU and IDU (ft)	49,2
Max Elevation between IDU and IDU (ft)	24,6

Operating Range:

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

Unit Specification

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (dB(A))	61
Net Weight (lbs)	198
Min. Number IDU	N/A
Max. Number IDU	5
Dehumidification (Pint/h)	N/A
Heat Exchanger Coating	GoldFin™

Electrical Specification

Power Supply	208-230V / 60Hz
Communications Wire Size	AWG 14/4
MOP (A)	35
MCA (A)	35
Cooling Rated Amps (A)	11,84
Heating Rated Amps (A)	14,64
Compressor RLA (A)	15,6
Fan Motor RLA (A)	0,73
Nominal Cooling Power Input (kW)	2,72
Nominal Heating Power Input (kW)	3,37

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)	4531

AHRI Certification Ref # _____

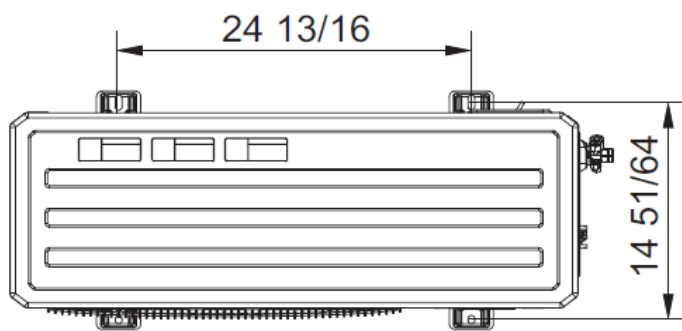
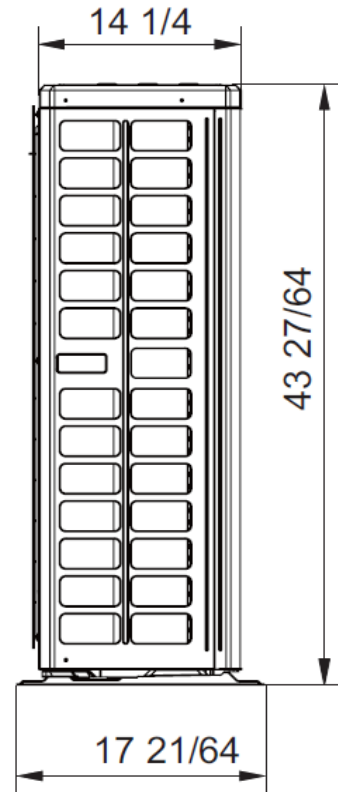
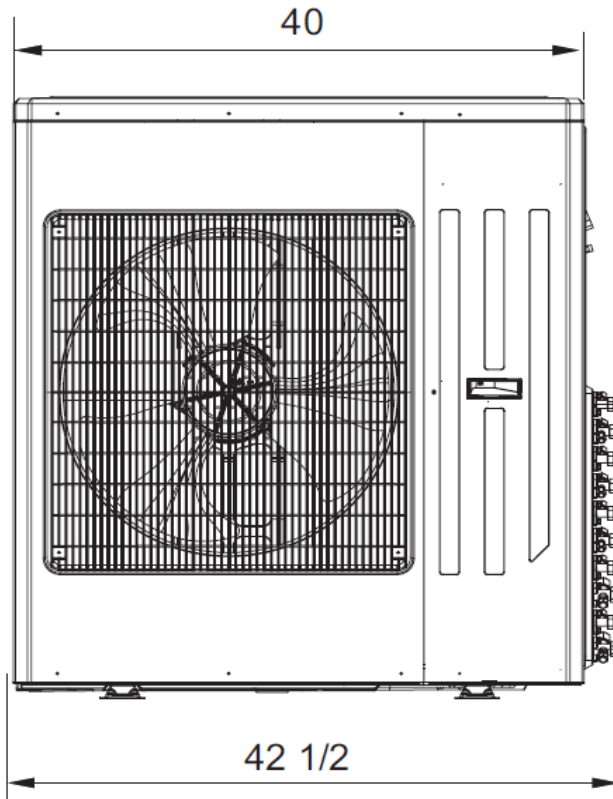


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Outline Dimension Diagram



Unit:inch

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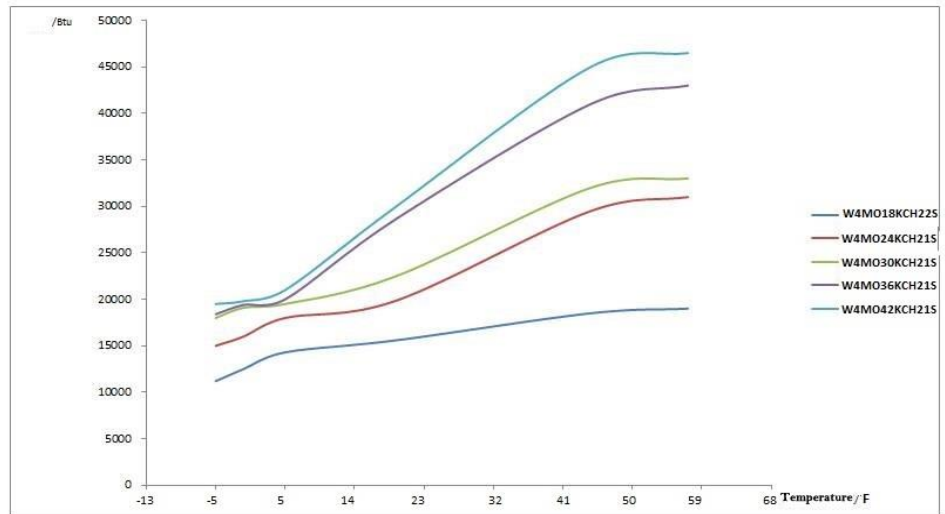
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COMBINATIONS

36K ODU

09 + 09	✓
09 + 12	✓
09 + 18	✓
09 + 24	✓
12 + 12	✓
12 + 18	✓
12 + 24	✓
18 + 18	✓
18 + 24	✓
24 + 24	✓
09 + 09 + 09	✓
09 + 09 + 12	✓
09 + 09 + 18	✓
09 + 09 + 24	✓
09 + 12 + 12	✓
09 + 12 + 18	✓
09 + 12 + 24	✓
09 + 18 + 18	✓
12 + 12 + 12	✓
12 + 12 + 18	✓
12 + 12 + 24	✓
12 + 18 + 18	✓
09 + 09 + 09 + 09	✓
09 + 09 + 09 + 12	✓
09 + 09 + 09 + 18	✓
09 + 09 + 12 + 12	✓
09 + 09 + 12 + 18	✓
09 + 12 + 12 + 12	✓
12 + 12 + 12 + 12	✓
09 + 09 + 09 + 09 + 09	✓
09 + 09 + 09 + 09 + 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	20,420	16,010	1200	23,030	18,060	1270	24,340	19,090	1320	27,430	21,510	1410
	5 F	20,940	16,420	1200	23,620	18,530	1280	25,270	19,820	1320	28,130	22,030	1410
	14 F	21,690	17,010	1220	24,470	19,190	1300	25,860	20,280	1340	29,150	22,860	1440
	23 F	23,770	18,640	1220	27,080	21,240	1300	29,130	22,840	1330	32,040	25,130	1430
	32 F	24,979	19,588	1222	28,455	22,319	1291	29,261	22,943	1335	33,681	25,057	1395
	41 F	26,260	20,593	1285	29,914	23,463	1358	30,762	24,119	1403	35,409	26,342	1467
	50 F	27,355	21,451	1338	31,161	24,441	1414	32,043	25,124	1462	36,884	27,440	1528
	59 F	28,820	22,600	1410	32,830	25,750	1490	33,760	26,470	1540	38,860	28,910	1610
	68 F	32,620	29,556	2,010	33,422	30,044	1,995	34,582	31,733	2,010	41,526	33,695	2,025
	77 F	35,145	30,300	2,450	39,240	31,409	2,435	38,796	32,791	2,440	45,040	34,872	2,430
	86 F	35,486	30,368	3,120	38,438	32,364	3,125	38,984	33,012	3,160	45,211	34,650	3,185
	95 F	32,176	28,781	3,300	35,827	31,255	3,400	36,083	31,921	3,335	41,014	34,275	3,405
	104 F	27,451	26,444	3,075	30,095	28,543	3,085	30,795	29,856	3,115	35,452	32,671	3,145
	113 F	23,544	23,203	2,765	25,642	24,926	2,790	26,956	25,779	2,800	29,686	28,833	2,825
118 F	16,382	16,232	1,856	17,504	17,242	1,911	19,040	18,354	1,986	20,186	19,923	2,023	

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	17060	17060	1500	16580	16580	1530	16260	16260	1580	15850	15850	1620
	0 F	18,500	18,500	1,650	17,960	17,960	1,680	17,630	17,630	1,740	17,160	17,160	1,780
	5 F	19,510	19,510	1,720	18,950	18,950	1,750	18,590	18,590	1,820	18,110	18,110	1,860
	7 F	20,010	20,010	1,750	19,050	19,050	1,790	19,360	19,360	1,870	18,860	18,860	1,920
	17 F	20,940	20,940	1,790	20,330	20,330	1,830	19,950	19,950	1,900	19,420	19,420	1,940
	28 F	23,660	23,660	1,910	23,040	23,040	1,950	22,380	22,380	2,020	22,110	22,110	2,070
	38 F	29,420	29,420	2,200	28,800	28,800	2,240	28,140	28,140	2,330	27,870	27,870	2,380
	47 F	33,250	33,250	2,290	32,240	32,240	2,330	31,600	31,600	2,420	30,730	30,730	2,480
	57 F	34,350	34,350	2,330	33,310	33,310	2,380	32,650	32,650	2,470	31,740	31,740	2,520
	68 F	35,750	35,750	2,410	34,660	34,660	2,460	33,970	33,970	2,550	33,030	33,030	2,610
	77 F	36,580	36,580	2,470	35,470	35,470	2,520	34,760	34,760	2,620	33,800	33,800	2,680

LEGEND

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