

Submittal M48SZA2

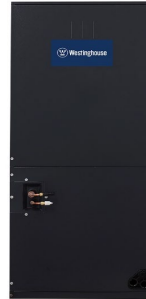
48000 BTU Duct Type - Heat Pump

Job Name _____
Location _____
Engineer _____
Submitted To _____
Submitted By _____
Reference _____

Date _____
Approval _____
Construction _____
Unit No _____
Drawing No _____

FEATURES

Up to 0.8" WG (200 Pa)
 Heating down to -13°F(-25°C)
 3-Position AHU: Up, Right, Left
 Maximum line set length is 246 ft.
 Built-in Base Pan Heater
 Optional Auxiliary Heater Kit


SYSTEM COMPONENTS

Indoor Unit Model Number	WHM48DMA21S
Outdoor Unit Model Number	WHM48SZA21S
System model number	M48SZA2

ELECTRICAL

Voltage/Phase/Frequency	208 / 230V, 1-Phase, 60Hz
Voltage Range - V	198 - 253
MCA - A	56.7 + 49.9
Max Circuit Breaker - A	60 + 50
Max. Current (Cooling) - A	50
Max. Current (Heating) - A	50
Rated Current (Cooling) - A	21
Rated Current (Heating) - A	19
Rated Input Power (Cooling) - W	4690
Min - Max Input Power (Cooling) - W	1423 - 5708
Rated Input Power (Heating) - W	4260
Min - Max Input Power (Heating) - W	1228 - 5080

CAPACITIES

Cooling Capacity - BTUh	48000
Cooling Capacity Range - BTUh	18300 - 52000
Heating Capacity - BTUh	48000
Heating Capacity Range - BTUh	17600 - 52000

FAN SPEEDS

Indoor Airflow Rate (H/M/L) - CFM	1588
Indoor Airflow Rate (H/M/L) - m³/h	2700
Outdoor Airflow Rate (H) - CFM	3525
Outdoor Airflow Rate (H) - m³/h	6000

STATIC PRESSURE

Static Pressure Range - inWG (Pa)	0 to 0.8 (0 to 200)
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SOUND PRESSURE

Sound Pressure Level Indoor (H)	64
Sound Pressure Level Outdoor (H) - dB(A)	59

LINESET REQUIREMENTS

Connection Pipe Diameter - Liquid (Flare) - in (mm)	Ø3/8 (Ø9.52)
Connection Pipe Diameter - Gas (Flare) - in (mm)	Ø7/8 (Ø22.22)
Minimum Lineset Length - ft (m)	10(3.04)
Maximum Lineset Length (Total) - ft (m)	246 (75)
Max Height Difference (IDU higher than ODU) - ft (m)	98 (30)
Max Height Difference (ODU higher than IDU) - ft (m)	98 (30)
Pre-charged Lineset Length - ft (m)	24.6 (7.5)


OUTDOOR TEMPERATURE OPERATING RANGE

Cooling - °F (°C)	5 to 122 (-15 to 50)
Heating - °F (°C)	-13 to 75 (-25 to 24)

INDOOR TEMPERATURE SETTING RANGE

Cooling - °F (°C)	61°F to 86°F (16°C to 30°C)
Heating - °F (°C)	61°F to 86°F (16°C to 30°C)
Mositure Removal pints/h (L/h)	4.6 (2.2)

EFFICIENCIES

SEER	18
EER	10.2
HSPF	10
COP - BTU/hW	11.26
COP - W/W	3.3
Energy Star	No

NET DIMENSIONS & WEIGHTS

Indoor Unit Net Dimensions (W x H x D) - in	53-7/8 x 22 x 24
Indoor Unit Net Dimensions (W x H x D) - mm	1,370 x 560 x 610
Indoor Unit Gross Dimensions (W x H x D) - in	55-1/2 x 25-1/4 x 28
Indoor Unit Gross Dimensions (W x H x D) - mm	1,410 x 640 x 710
Outdoor Unit Net Dimensions (W x H x D) - in	54-5/8 x 37-3/8 x 13-3/8
Outdoor Unit Net Dimensions (W x H x D) - mm	1,386 x 950 x 340
Outdoor Unit Gross Dimensions (W x H x D) - in	60-1/4 x 43-3/4 x 18-1/8
Outdoor Unit Gross Dimensions (W x H x D) - mm	1,530 x 1,110 x 460
Indoor Unit - Net Weight - lbs (kg)	187.2 (85)
Outdoor Unit - Net Weight - lbs (kg)	227.1 (103)

REFRIGERANT

Refrigerant Type	410A
Refrigerant Weight - lb oz	8 lb 15 oz
Oil type	VG74

COMPRESSOR

Compressor Type	Rotary
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WARRANTY


7 Year Compressor, 5 Year Parts out-of-the-box Warranty

Note: Specifications are based on the following conditions:

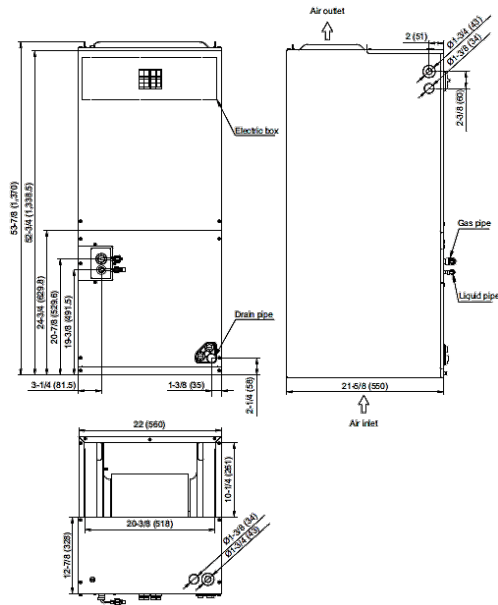
Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C) DB/75°F (23.9°C) WB. Heating: Indoor temperature of 70°F (21.1°C) DB/60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F (6.1°C) WB. Pipe length: 25ft. (7.5m), Height difference: 0ft. (0m) (Outdoor unit – indoor unit).

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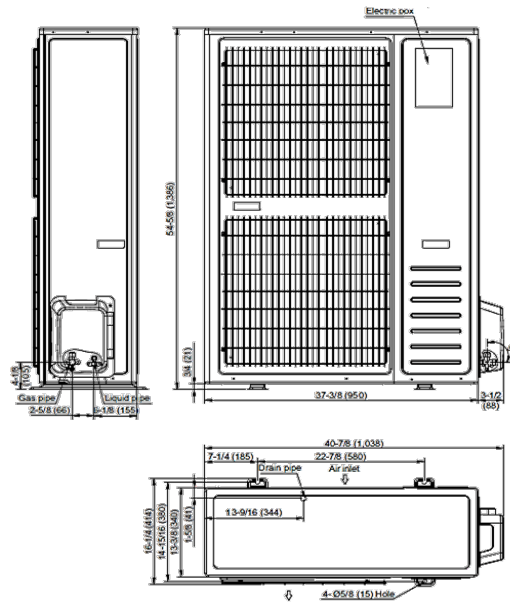
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DIMENSIONS

Unit: In. (mm)



Indoor Unit Mode	Heater Part No.	Description
WHM48DMA21S	2105340	Electric heater kit (5 kW)
	2105342	Electric heater kit (7.5 kW)
	2105343	Electric heater kit (10 kW)
	2105344	Electric heater kit (15 kW)
	2105345	Electric heater kit (20 kW)
Voltage	208/230V, 60Hz, 1φ	



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