

Submittal M24SZA2

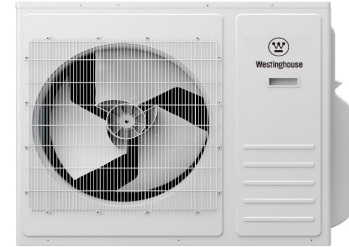
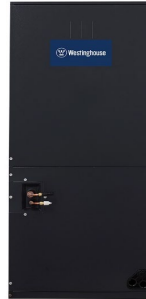
24000 BTU Duct Type - Heat Pump

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 164 ft.
 Built-in Base Pan Heater
 Optional Auxiliary Heater Kit


SYSTEM COMPONENTS

Indoor Unit Model Number	WHM24DMA21S
Outdoor Unit Model Number	WHM24SZA21S
System model number	M24SZA2

ELECTRICAL

Voltage/Phase/Frequency	208 / 230V, 1-Phase, 60Hz
Voltage Range - V	198 - 253
MCA - A	53.2
Max Circuit Breaker - A	60
Max. Current (Cooling) - A	25
Max. Current (Heating) - A	25
Rated Current (Cooling) - A	9.6
Rated Current (Heating) - A	8.7
Rated Input Power (Cooling) - W	2200
Min - Max Input Power (Cooling) - W	560 - 2900
Rated Input Power (Heating) - W	2000
Min - Max Input Power (Heating) - W	725 - 3960

CAPACITIES

Cooling Capacity - BTUh	24000
Cooling Capacity Range - BTUh	6700 - 26000
Heating Capacity - BTUh	24000
Heating Capacity Range - BTUh	6700 - 26000

FAN SPEEDS

Indoor Airflow Rate (H/M/L) - CFM	800
Indoor Airflow Rate (H/M/L) - m³/h	1360
Outdoor Airflow Rate (H) - CFM	1825
Outdoor Airflow Rate (H) - m³/h	3150

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)	55
Sound Pressure Level Outdoor (H) - dB(A)	54

LINESET REQUIREMENTS

Connection Pipe Diameter - Liquid (Flare) - in (mm)	Ø3/8 (Ø9.52)
Connection Pipe Diameter - Gas (Flare) - in (mm)	Ø5/8 (Ø15.88)
Minimum Lineset Length - ft (m)	10(3.04)
Maximum Lineset Length (Total) - ft (m)	164 (50)
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	10.9
HSPF	10
COP - BTU/hW	11.95
COP - W/W	3.5
Energy Star	No

NET DIMENSIONS & WEIGHTS

Indoor Unit Net Dimensions (W x H x D) - in	46-1/8 x 19-5/8 x 21-5/8
Indoor Unit Net Dimensions (W x H x D) - mm	1,170 x 500 x 550
Indoor Unit Gross Dimensions (W x H x D) - in	49-5/8 x 22-1/2 x 25-3/8
Indoor Unit Gross Dimensions (W x H x D) - mm	1,260 x 570 x 645
Outdoor Unit Net Dimensions (W x H x D) - in	26-3/8 x 33-7/8 x 12-1/4
Outdoor Unit Net Dimensions (W x H x D) - mm	670 x 860 x 310
Outdoor Unit Gross Dimensions (W x H x D) - in	28-3/4 x 39 x 1-3/4
Outdoor Unit Gross Dimensions (W x H x D) - mm	730 x 990 x 450
Indoor Unit - Net Weight - lbs (kg)	135.5 (61.5)
Outdoor Unit - Net Weight - lbs (kg)	112.4 (51)

REFRIGERANT

Refrigerant Type	410A
Refrigerant Weight - lb oz	4 lb 7 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).

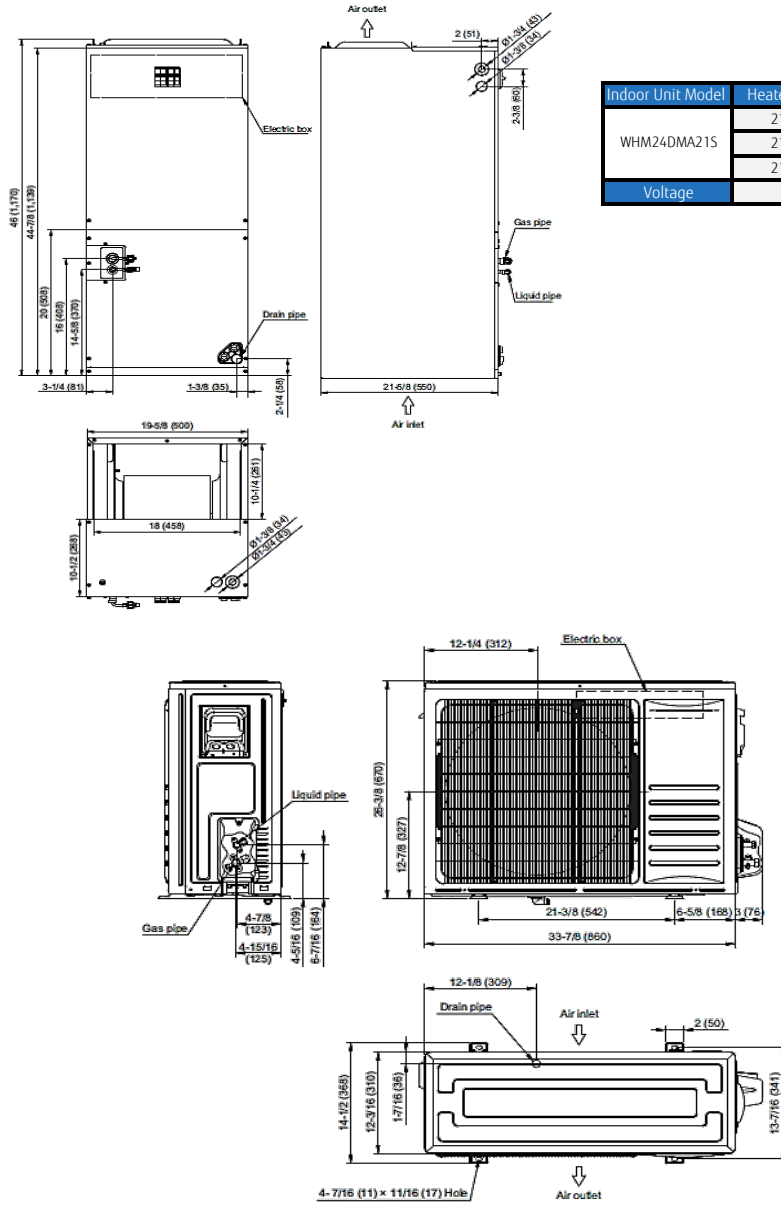


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DIMENSIONS

Unit: In. (mm)



Indoor Unit Model	Heater Part No.	Description
WHM24DMA21S	2105340	Electric heater kit (5 kW)
	2105342	Electric heater kit (7.5 kW)
	2105343	Electric heater kit (10 kW)
Voltage	208/230V, 60Hz, 1f	

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