

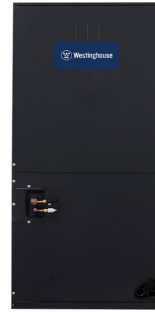
**48000 BTU Duct Type - Heat Pump**

**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  
 Dual Point Power Connection


**SYSTEM COMPONENTS**

Indoor Unit Model Number	WHM48DMA21S
Outdoor Unit Model Number	WHM48SZA21S
System model number	M48SZA2
<b>ELECTRICAL - Outdoor Unit</b>	
Voltage/Phase/Frequency	208 / 230V, 1-Phase, 60Hz
Voltage Range - V	198 - 253
MCA - Outdoor Unit - A	35
Max Circuit Breaker - Outdoor Unit - A	50
MCA - Indoor Unit - A	6.8
Max Circuit Breaker - Indoor Unit - A	15
Rated Load Amperage (RLA) - A	24.8

**STATIC PRESSURE**

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

**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)  
 Moisture Removal pints/h (L/h) 4.6 (2.2)

**EFFICIENCIES**

SEER	17.5	SEER2	17.5
EER	10.2	EER2	10.1
HSPF	10	HSPF2	8.5
COP - BTU/hW	11.26	COP2 - BTU/hW	11.26
COP - W/W	3.3	COP2 - W/W	3.3
Energy Star Cold Climate			Yes

**NET DIMENSIONS & WEIGHTS**

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

**WARRANTY**


7 Year Compressor, 5 Year Parts Warranty

**CAPACITIES**

Cooling Capacity - BTU/h	48000
Cooling Capacity Range - BTU/h	18300 - 52000
Heating Capacity - BTU/h	47000
Heating Capacity Range - BTU/h	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

**SOUND PRESSURE**

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

**LINESET REQUIREMENTS**

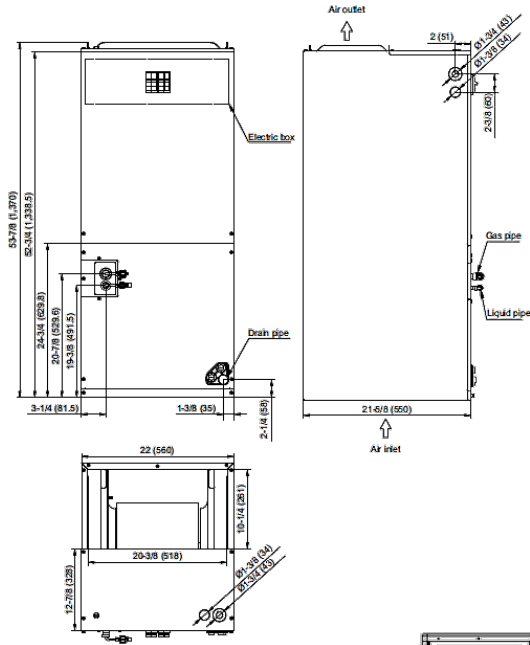
Connection Pipe Diameter - Liquid (Flare) - in (mm)	Ø3/8 (Ø9.52)
Connection Pipe Diameter - Gas (Flare) - in (mm)	Ø7/8 (Ø22.22)
Minimum Lineset Length - ft (m)	10(3.04)
Maximum Lineset Length (Total) - ft (m)	246 (75)
Max Height Difference - ft (m)	98 (30)
Pre-charged Lineset Length - ft (m)	24.6 (7.5)



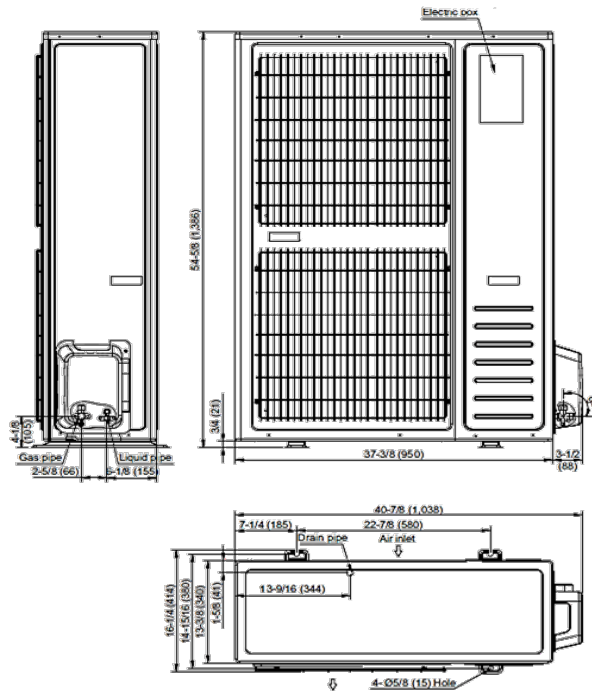
Note: Specifications are based on the following conditions:  
 Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C) DB/75°F (23.9°C) WB. Heating: Indoor temperature of 70°F (21.1°C) DB/60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F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

### DIMENSIONS

Unit: In. (mm)



Indoor Unit Model	Heater Part No.	Description
WHM48DMA21S	21-4245-01	Electric heater kit (5 kW)
	21-4245-02	Electric heater kit (7.5 kW)
	21-4245-03	Electric heater kit (10 kW)
	21-4245-04	Electric heater kit (15 kW)
	21-4245-05	Electric heater kit (20 kW)
Voltage	208/230V,60Hz,1f	



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