

**Indoor: KEENHYDAH24AA**

**Outdoor KEENHYDHP24AA**

**Air Handler Heat Pump System**

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
ESP (in WG)	0 - 0.8	
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	824.0 / 759.3 / 694.5 / 629.8 / N/A	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	N/A / 44 / 42 / 28 / N/A	
Dimension (WxDxH)	inch	21.02 x 17.52 x 45.00
	mm	534.0 x 445.0 x 1143.0
Package (WxDxH)	inch	26.57 x 20.87 x 48.62
	mm	675 x 530 x 1235
Net/Gross Weight	lbs	105.60 / 127.43
	kg	47.9 / 57.8

OUTDOOR SPECIFICATION		
Compressor Type	ROTARY	
Compressor Model	KTM240D46UKT2	
Refrigerant	R454B	
Refrigerant Oil Charge (mL)	620	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	1765.7	
Outdoor Noise Level (dBA)	60	
Dimension (WxDxH)	inch	35.04 x 13.46 x 26.50
	mm	890.0 x 342.0 x 673.0
Package (WxDxH)	inch	39.17 x 15.67 x 29.13
	mm	995 x 398 x 740
Net/Gross Weight	lbs	102.29 / 109.13
	kg	46.4 / 49.5

EFFICIENCY			
Cooling		Heating	
SEER2	18.3	HSPF2-4	10.0
EER2	11.7	COP	3.33

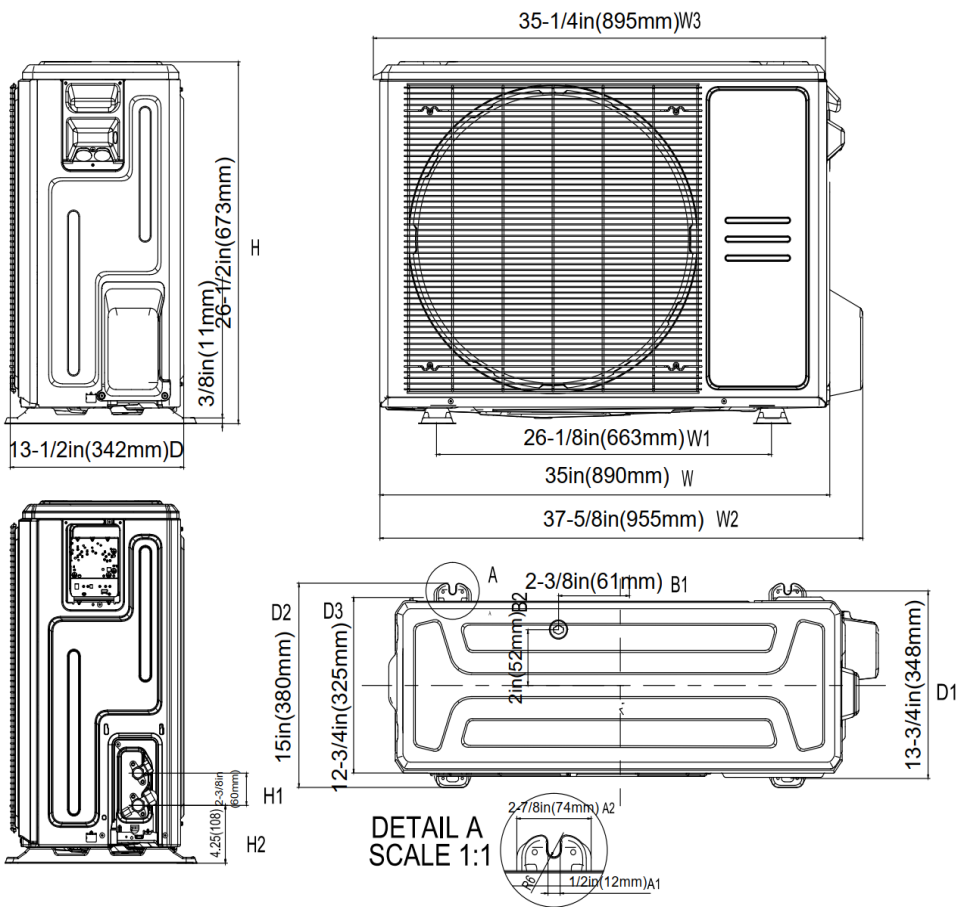
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	23000
Min/Max Capacity	7200-27000
Moisture Removal(L/h)	2.05
Standard Operating Range(*F/*C)	-22~-122 (-30 ~ 50)
Rated Cooling Conditions:	Indoor: 80°F DB / 67°F WB Outdoor: 95°F DB / 75°F WB

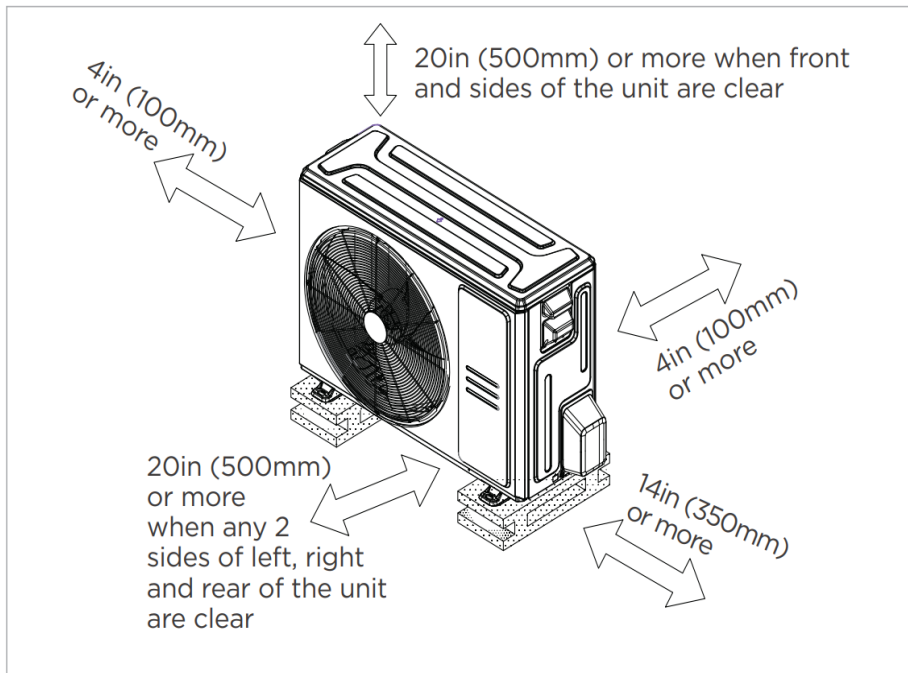
PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	24000
1. @ 47°F Min/Max Capacity	7100-30000
2. @ 17°F Rated	20000
3. @ 5°F Rated: Capacity / COP	21600 / 1.87
3. @ 5°F Max: Capacity	21600
Standard Operating Range (*F/*C)	-22~-75 (-30 ~ 24)
1. Rated Heating Conditions:	Indoor: 70°F DB / 60°F WB Outdoor: 47°F DB / 43°F WB
2. Rated Heating Conditions:	Indoor: 70°F DB / 60°F WB Outdoor: 17°F DB / 15°F WB
3. Heating Conditions, Compressor Operating at Max. Frequency	Indoor: 70°F DB / 60°F WB Outdoor: 5°F DB / 5°F WB

ELECTRICAL	
Indoor Power Supply	115 / 208 / 230V, 60Hz, 1Ph
Indoor MCA 115V / (208/230V)	5.5 / 4.0
Indoor MOP	15
Outdoor Power Supply	208 / 230V, 60Hz, 1Ph
Outdoor MCA	19
Outdoor MOP	20
Communication Wiring	AWG 20-2
Compressor RLA	14
Outdoor Fan Motor RLA	1
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	3
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1965 (530 ~ 2870)
System Power Input @ Heating (W)	2112 (440 ~ 2730)
MCA: Min. circuit amps (A)	MOP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING	
Throttle type (Indoor)	EXV
Throttle type (Outdoor)	EXV
Liquid Size	9.52mm (3/8in)
Gas Size	19mm (3/4in)
Max. Piping Length (ft/m)	164 (50)
Max. Height Difference (ft/m)	82 (25)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	74.08 (2.1)
Additional Charge of Refrigerant ((oz/ft) / (g/m))	0.7 (65)
Connection Method	Flared

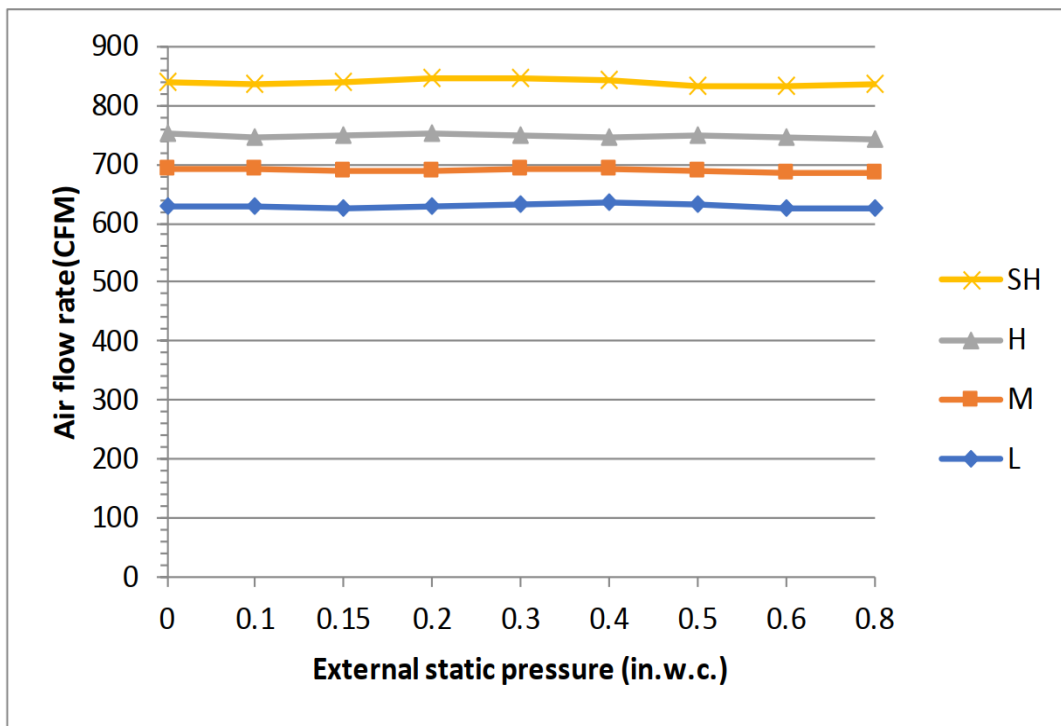






- Meets all spatial requirements shown in Installation Clearance Requirements above.

## Fan Performance For Indoor Unit



### Features

- Multi-position installation: horizontal (left or right), vertical (up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency (optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
  - Two way communication wired controller:120N(X6)
  - Two way communication wired controller with built-in WiFi:120N(X6W)
  - Wireless remote controller
  - Third-Party 24V Thermostat
- Adaptive Control System
- High efficiency up to 19 SEER2, 12.5 EER2, 10.3 HSPF2
- 100% heat output at -4F\*
- Chassis heater and crankcase heater equipped as standard

\* For 36K model, rated cooling capacity/heating capacity at -4F=100%