

Indoor KEENULDAH24AA
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 ~ 1.0
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 / 47.5 / 44 / 33 / N/A
Dimension (W×D×H)	inch	21.50 x 14.49 x 49.72
	mm	546.0 x 368.0 x 1263
Package (W×D×H)	inch	52.95 x 17.52 x 31.10
	mm	1345 x 445 x 790
Net/Gross Weight	lbs	123.02 / 154.76
	kg	55.8 / 70.2

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KTM240D46UKT2
Refrigerant		R454B
Refrigerant Oil Charge (mL)		620
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1765.8
Outdoor Noise Level (dBA)		59
Dimension (W×D×H)	inch	35.04 x 13.46 x 26.50
	mm	890.0 x 342.0 x 673.0
Package (W×D×H)	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	18.6	HSPF2-4	10.0
EER2	12.0	COP	3.49

PERFORMANCE of Cooling
Cooling (Btu/hr)

Rated Capacity	24000
Min/Max Capacity	6400 ~ 28700
Moisture Removal (L/h)	2.23
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)

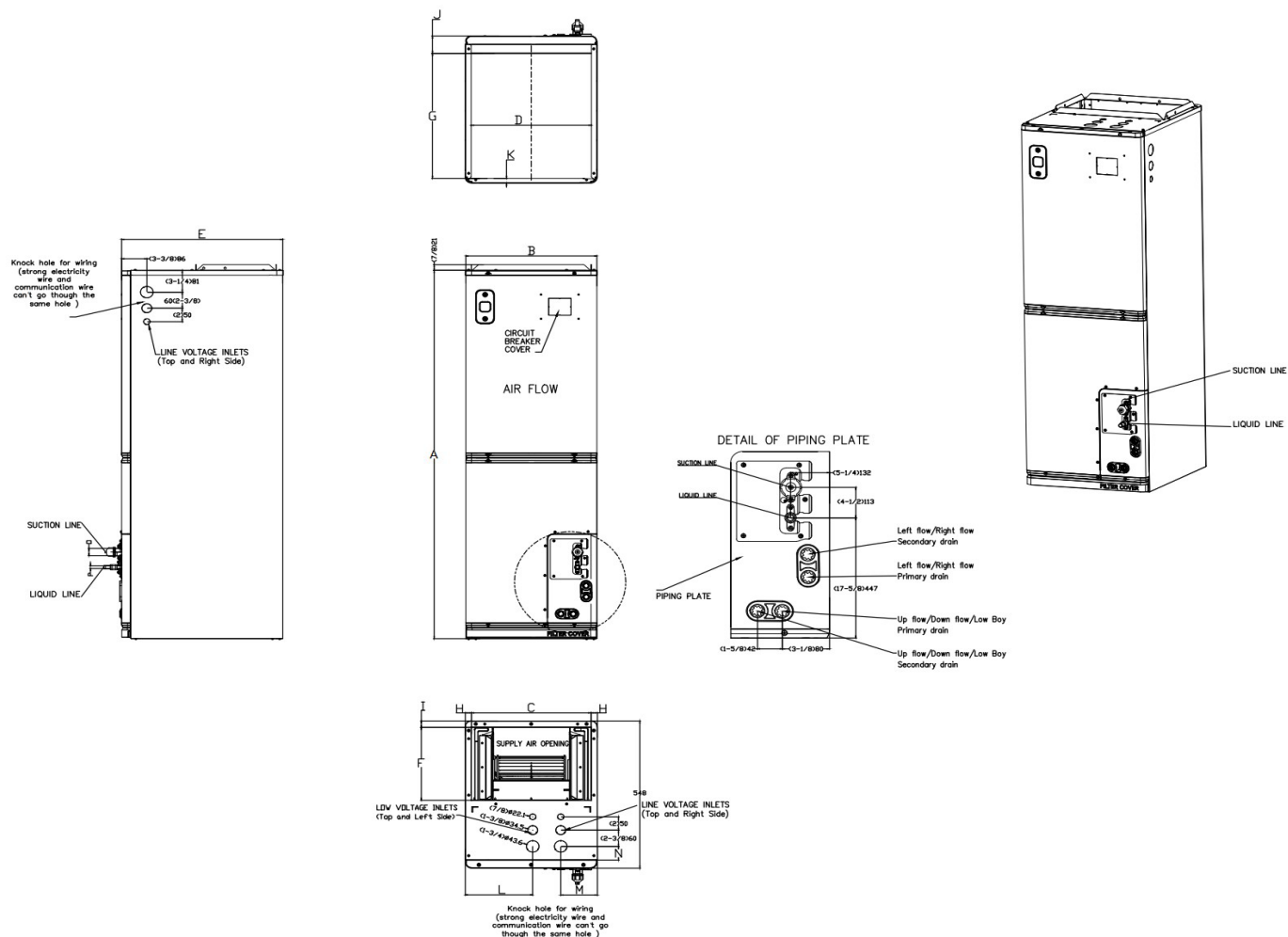
1. @ 47°F Rated	24000
2. @ 47°F Min/Max Capacity	6700 ~ 29100
3. @ 17°F Rated	19000
4. @ 5°F Rated: Capacity / COP	20600 / 2.14
5. @ 5°F Max: Capacity	20600
Standard Operating Range (°F/°C)	-22 ~ 75 (-30 ~ 24)
1. Rated Heating Conditions:	Indoor: 70°F DB / 60°F WB Outdoor: 47°F DB / 43°F WB
2. Rated 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 / 3.5
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	2.5
Indoor Fan Motor W	N/A
System Power Input @ Cooling (W)	2150 (830 ~ 2850)
System Power Input @ Heating (W)	2150 (405 ~ 2450)
MCA: Min. circuit amps (A)	MOCPP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

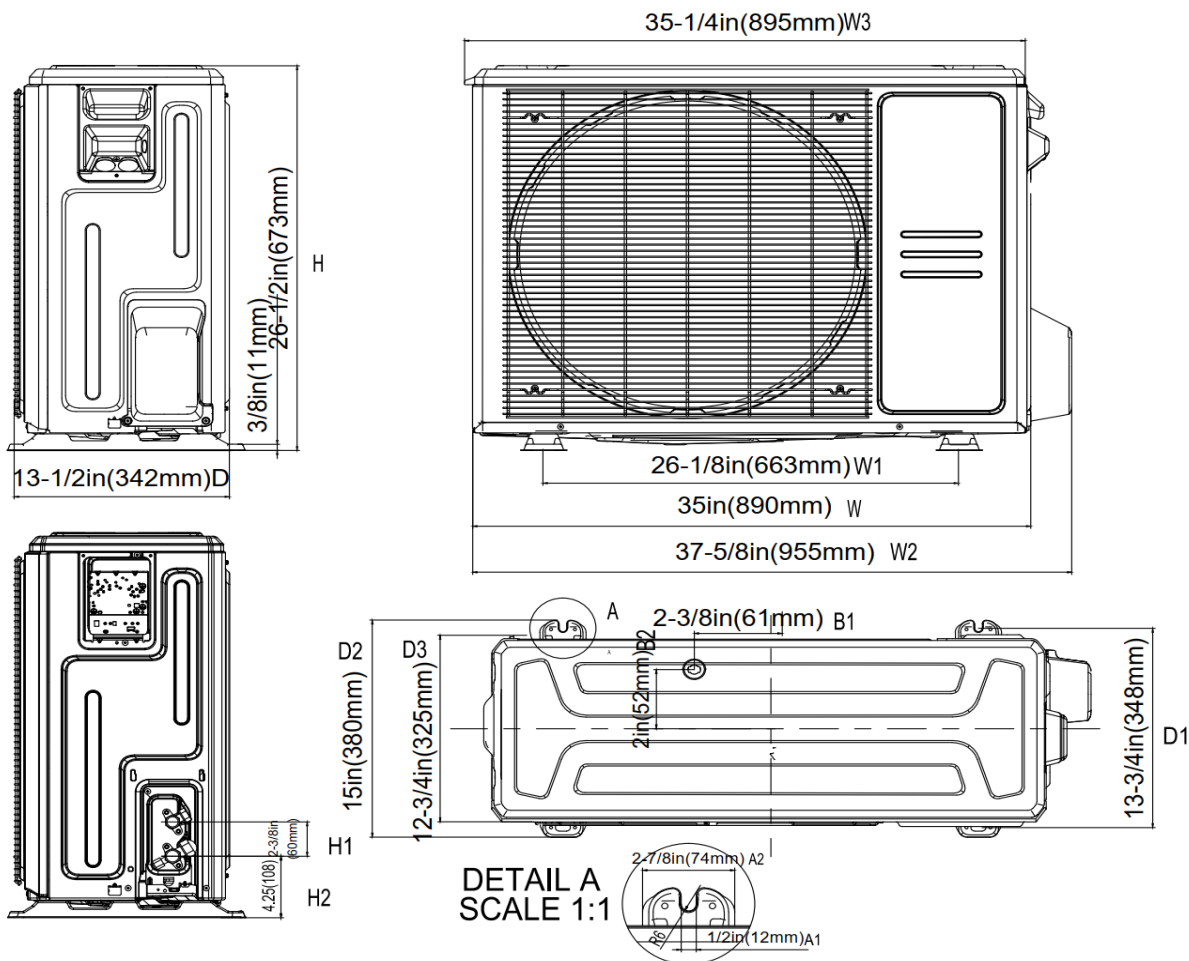
PIPING

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

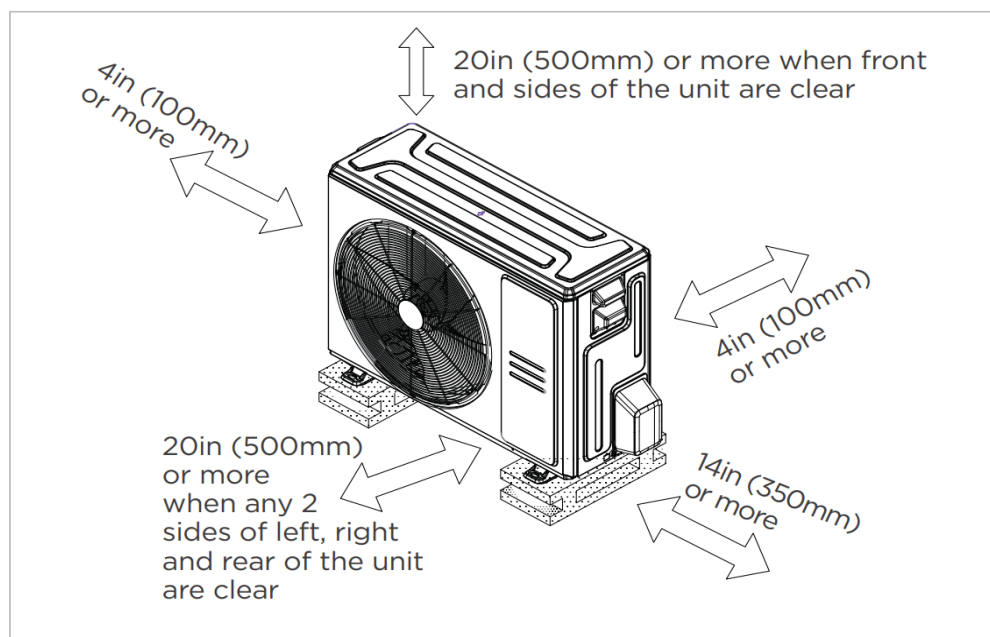


Dimensions		Model(Btu/h)		18K/24K		30K/36K		48K/54K	
				inch	mm	inch	mm	inch	mm
A	Model Height			49-3/4	1263	54	1371	56	1421
B	Model Width			14-1/2	368	17-1/2	445	21-1/2	546
C	Supply Air Opening Width			12-7/8	328	16	405	19-7/8	506
D	Return Air Opening Width			13	331	16	407	20	509
E	Model Depth			21-1/2	546	21-1/2	546	21-1/2	546
F	Supply Air Opening Depth			10-5/8	271	10-5/8	271	10-5/8	271
G	Return Air Opening Depth			18-1/4	465	18-1/4	465	18-1/4	465
H	Supply Air Opening Clearance			7/8	22	7/8	22	7/8	22
I	Supply Air Opening Clearance			1	24	1	24	1	24
J	Return Air Opening Front Clearance			2-1/2	65	2-1/2	65	2-1/2	65
K	Return Air Opening Back Clearance			3/4	18	3/4	18	3/4	18
L	Top cover knock hole			/	/	9	229	10-7/8	275
M	Top cover knock hole			4-1/2	113	4-7/8	124	5-1/8	131
N	Top cover knock hole			2	51	2	51	1-5/8	41
O	Refrigerant piping flareconnection(gas)			3/4	19	3/4	19	3/4	19
P	Refrigerant piping flareconnection(liquid)			3/8	9	3/8	9	3/8	9

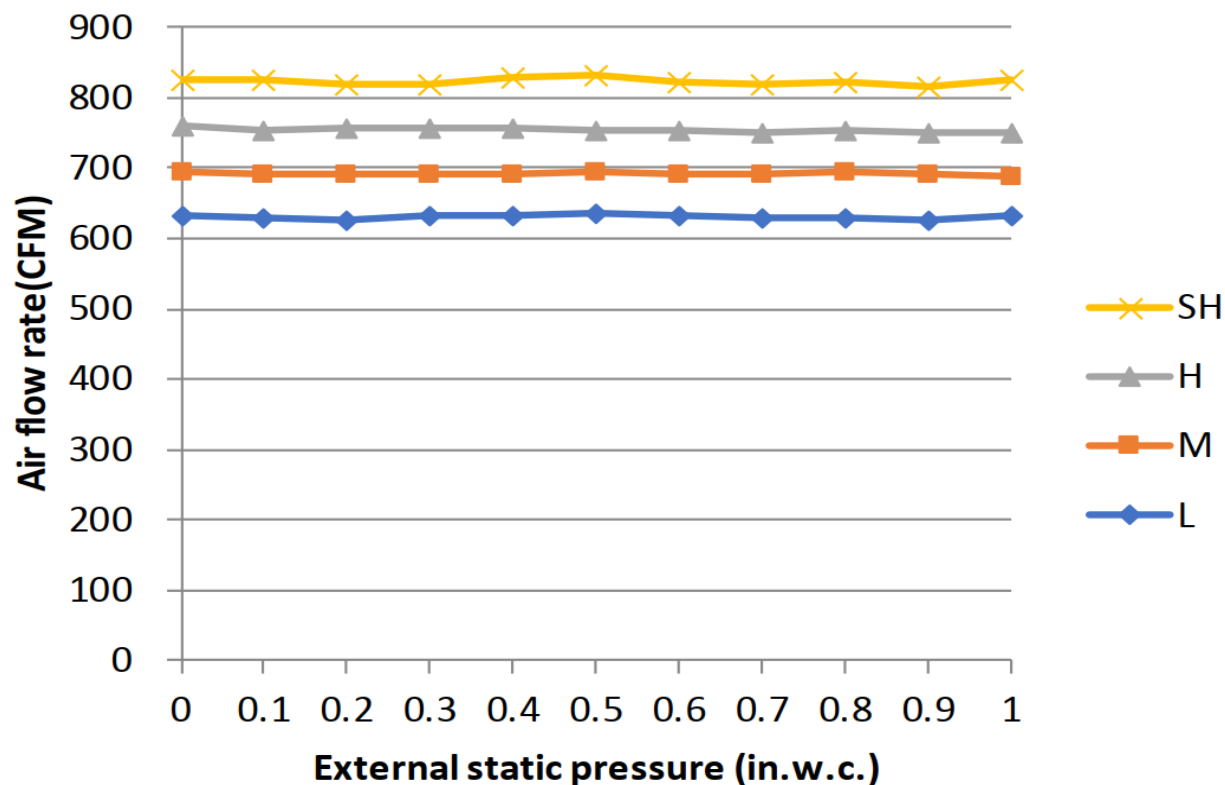
Outdoor Unit Dimension



Installation Instruction For Outdoor Unit



Meets all spatial requirements shown in Installation Clearance Requirements above.



Features

- Multi-position installation: horizontal (left or right), vertical (up or down)
- 115/230V voltage compatible for IDU
- Aluminum Coil
- Constantly Air Flow system up to 1.0 In.W.G
- 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, 10.8 HSPF2
- 100% heat output at -13F*
- Chassis heater and crankcase heater equipped as standard

* For MVBDM-36HWFN10-WB3-D pairing with MOX630-36HFN10-M3X, rated cooling capacity/heating capacity at -13F=100%