

Mitsutomo Submittal Data Sheet

R-454B 42k High Heat Multi Position Air Handler Heat Pump

Job Name: _____

Engineer: _____

Submitted By: _____

Date: _____

Unit Tag: _____

System Info & Features:

- 4 way multi position air handler
- Up to .8" static pressure
- 24V thermostat option
- Heating down to -22 deg F
- Self diagnostics
- Super quiet
- ECM blower motor
- Programmable smart wall thermostat
- Large handheld remote
- Auto condenser coil cleaning cycle



MODEL NUMBER

Indoor unit:	UHM42-DB-LD-Q
Outdoor unit:	UHO42-NB-LD-Q
Certified:	  

SYSTEM PERFORMANCE AND DATA

Cooling Efficiencies and Performance

SEER2	16.7
EER2	11.7
Rated Capacity	42000
Min/Max Capacity	15600~51000
Moisture Removal (L/H)	3.85
Standard Operating Range (F°)	-22~-122

Conditions:	Indoor: 80F° DB/67F° WB Outdoor: 95F° DB/75F° WB
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Heating Efficiencies and Performance

HSPF2-4	9.5
COP	3.40
1. @ 47F° Rated	50000
1. @ 47F° Min/Max Capacity	15500~57300
2. @ 17F° Rated	37000
3. @ 5F° Rated: Capacity / COP	46000/1.9
3. @ 5F° Max: Capacity	46000
Standard Operating Range (F°)	-22~-75

1. Conditions:	Indoor: 70F° DB/60F° WB Outdoor: 47F° DB/43F° WB
2. Conditions:	Indoor: 70F° DB/60F° WB Outdoor: 17F° DB/15F° WB
3. Conditions:	Indoor: 70F° DB/60F° WB Outdoor: 5F° DB/5F° WB

ELECTRICAL

Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor Min. Circuit Amps (115V/208/230V)	14.5/11.0
Indoor Max Over Current Protection	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor Min. Circuit Amps	38
Outdoor Max Over Current Protection	40
Communication Wiring	18-2 Mitsutomo Thermostat 18-10 3rd Party Thermostat
Compressor (RLA)	28
Outdoor Fan Motor (RLA)	2
Outdoor Fan Motor (W)	250
Indoor Fan Motor (RLA)	7.8
Indoor Fan Motor (W)	750
System Power Input @ Cooling (W)	3590(1345 ~ 5180)
System Power Input @ Heating (W)	4310(1045 ~5200)

OPTIONAL ACCESSORIES

8kw Electric Heat Kit	M-EAH-08-Q
15kw Electric Heat Kit	M-EAH-15-Q

SPECIFICATIONS

Indoor:

Indoor Air Flow (Turbo/H/M/L/Q)	(CFM) 1601.0 / 1471.5 / 1283.1 / 1094.8 / 1094.8
Indoor Noise Level (Turbo/H/M/L/Q)	(DBA) 52 / 52 / 50 / 34 / 34

Heating Efficiencies and Performance

Compressor Type	ROTARY
Refrigerant	R454B
Refrigerant Oil Charge (OZ)	60.87
Refrigerant Oil	HAF68D1C
Outdoor Air Flow (Max)	(CFM) 3037.1
Outdoor Noise Level	(DBA) 65

DIMENSIONS

Indoor:

Dimension (W×D×H)	24.49 x 21.02 x 52.99
Package (W×D×H)	27.95 x 26.77 x 56.50
Unit Weight (lbs)	162.92
Shipping Weight (lbs)	190.92

Outdoor:

Dimension (W×D×H)	38.58 x 16.34 x 38.39
Package (W×D×H)	45.08 x 19.68 x 42.52
Unit Weight (lbs)	201.06
Shipping Weight (lbs)	232.36

REFRIGERANT PIPE DATA

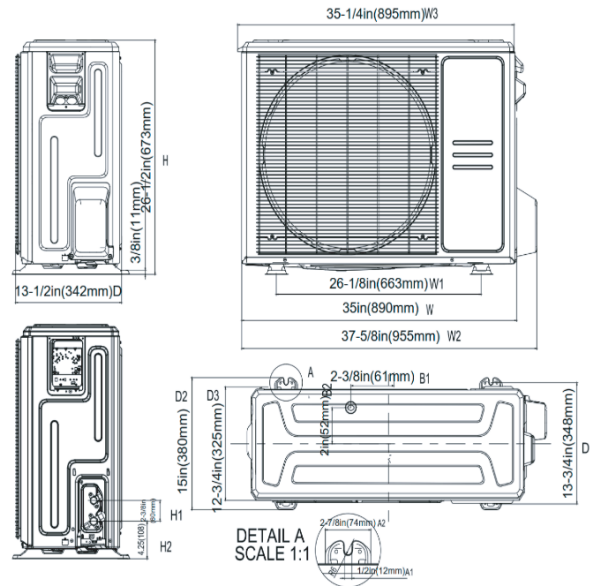
Liquid Size (in.)	3/8
Gas Size (in.)	3/4
Max. Piping Length (ft)	246.0
Max. Height Difference (ft)	98.4
Max. Pre-charged Length (ft)	24.6
Refrigerant Pre-charged Amount (oz)	134.04
Additional Charge of Refrigerant (oz/ft)	0.70
Connection Method	Flared

WARRANTY

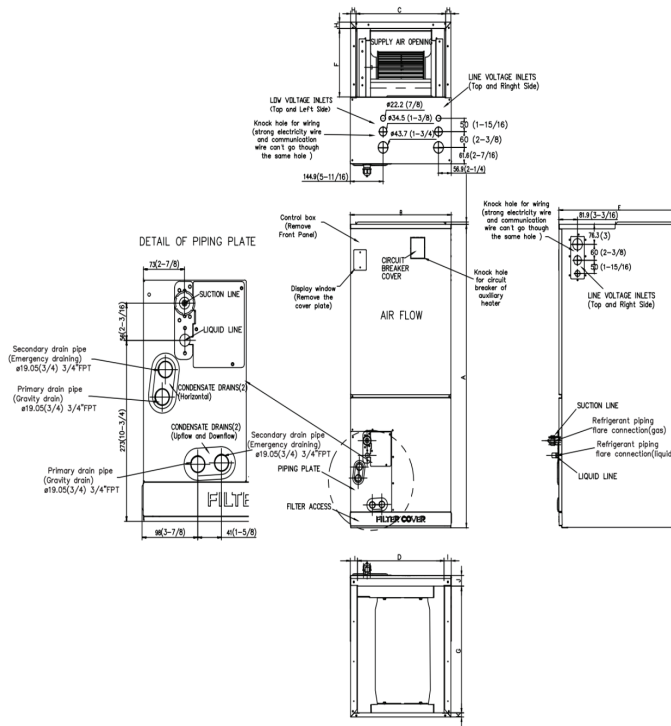


5 years compressor
5 years parts

Outdoor Unit Dimension



Indoor Unit Dimension (Internal Pump)



Model	Unit	A	B	C	D	E	F	G	H	I	J	K
42K	inch	49	21	19 1/8	18 5/8	21	10 1/4	18 3/4	15/16	11/4	15/8	5/8