

Mitsutomo Submittal Data Sheet

R-454B 18k Non 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 -13°
- Self diagnostics
- Super quiet
- ECM blower motor
- Programmable smart wall thermostat
- Large handheld remote
- Auto condenser coil cleaning cycle



MODEL NUMBER

Indoor unit:	UHM18-BB-LA-Q
Outdoor unit:	RHO18-NB-LA-Q
Certified:	  

SYSTEM PERFORMANCE AND DATA

Cooling Efficiencies and Performance

SEER2	18.8
EER2	11.0
Rated Capacity	18000
Min/Max Capacity	5350~20000
Moisture Removal (L/H)	1.71
Standard Operating Range (F°)	-13~-122

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

HSPF2-4	9.1
COP	3.15
1. @ 47F° Rated	18000
1. @ 47F° Min/Max Capacity	5600~19000
2. @ 17F° Rated	12600
3. @ 5F° Rated: Capacity / COP	11200/2
3. @ 5F° Max: Capacity	11200
Standard Operating Range (F°)	-13~-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)	5.5/4.0
Indoor Max Over Current Protection	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor Min. Circuit Amps	16
Outdoor Max Over Current Protection	20
Communication Wiring	18-2 Mitsutomo Thermostat, 18-10 3rd Party Thermostat
Compressor (RLA)	10
Outdoor Fan Motor (RLA)	0.8
Outdoor Fan Motor (W)	34
Indoor Fan Motor (RLA)	2
Indoor Fan Motor (W)	250
System Power Input @ Cooling (W)	1635(400 ~ 1900)
System Power Input @ Heating (W)	1675(340 ~ 1650)

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)	618.03 / 576.83 / 529.74 / 488.54 / 488.54
Indoor Noise Level (Turbo/H/M/L/Q) (DBA)	44 / 43 / 41 / 33 / 33

Heating Efficiencies and Performance

Compressor Type	ROTARY
Refrigerant	R454B
Refrigerant Oil Charge (OZ)	14.88
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	1450.9
Outdoor Noise Level (DBA)	55

DIMENSIONS

Indoor:

Dimension (W×D×H)	17.52 x 21.02 x 45.00
Package (W×D×H)	26.57 x 20.87 x 48.62
Unit Weight (lbs)	105.82
Shipping Weight (lbs)	126.76

Outdoor:

Dimension (W×D×H)	31.69 x 12.99 x 21.81
Package (W×D×H)	36.02 x 14.57 x 24.21
Unit Weight (lbs)	77.16
Shipping Weight (lbs)	83.77

REFRIGERANT PIPE DATA

Liquid Size (in.)	3/8
Gas Size (in.)	3/4
Max. Piping Length (ft)	98.4
Max. Height Differencex (ft)	65.6
Max. Pre-charged Length (ft)	24.6
Refrigerant Pre-charged Amount (oz)	51.15
Additional Charge of Refrigerant (oz/ft)	0.70
Connection Method	Flared

WARRANTY



5 years compressor
5 years parts

