

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: Slim Duct Regular Series  
Model Number: MDHHS-H48B-2A/MO1BU-H48B-2A

### Slim Duct Regular System

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



### INDOOR SPEINDOOR SPECIFICATIONCIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	1648 / 1472 / 1295 / 1060 / 1060
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	51 / 51 / 46 / 42 / 40
Indoor static pressure range(in.w.g.)	0-0.8
Dimension (WxDxH)	inch 47-1/8 x 29-1/2 x 11-7/8
	mm 1200 x 750 x 300
Package (WxDxH)	inch 56-1/8 x 33-7/8 x 14-1/8
	mm 1425 x 860 x 359
Net/Gross Weight	lbs 111 / 125
	kg 50.5 / 56.6

### OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KTQ420D1UMU
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1,400
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	4,238
Outdoor Noise Level (dBA)	64
Dimension (WxDxH)	inch 37-1/2 x 16-3/8 x 52-1/2
	mm 952 x 415 x 1333
Package (WxDxH)	inch 43-1/8 x 19-1/2 x 57-1/2
	mm 1095 x 495 x 1460
Net/Gross Weight	lbs 209 / 240
	kg 94.7 / 108.8

### EFFICIENCY

Cooling		Heating	
SEER2	17.1	HSPF2-4	9.8
EER2	10.0	COP	3.49

### PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	48,000
Min/Max Capacity	11,000~56,500
Moisture Removal(L/h)	4.02
Standard Operating Range(°F/°C)	-13~122 (-25 ~ 50)
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	50,000
1. @ 47°F Min/Max Capacity	11,200~60,500
2. @ 17°F Rated	39,000
3. @ 5°F Rated: Capacity / COP	38,000/2.00
3. @ 5°F Max: Capacity	38,000
Standard Operating Range(°F/°C)	-13~75 (-25 ~ 24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

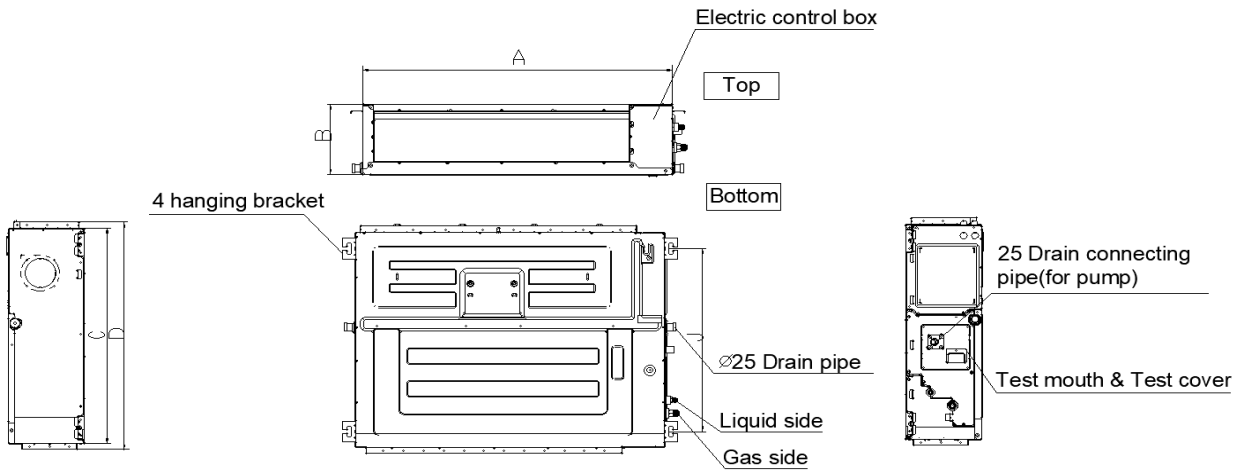
### ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	39.0
Connection Wiring	AWG 14/3
System MOCP	40.0
Compressor RLA	24.0
Outdoor Fan Motor RLA	1.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	4.0
Indoor Fan Motor W	560
System Power Input @ Cooling (W)	4,800 (930 ~ 5,850)
System Power Input @ Heating (W)	4,200 (780 ~5,100)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

### PIPING

Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	246 (75)
Max. Height Difference(ft/m)	98 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)	127 (3.60)
Additional Charge of Refrigerant(oz/ft)(g/m)	0.32 (30)
Connection Method	Flared

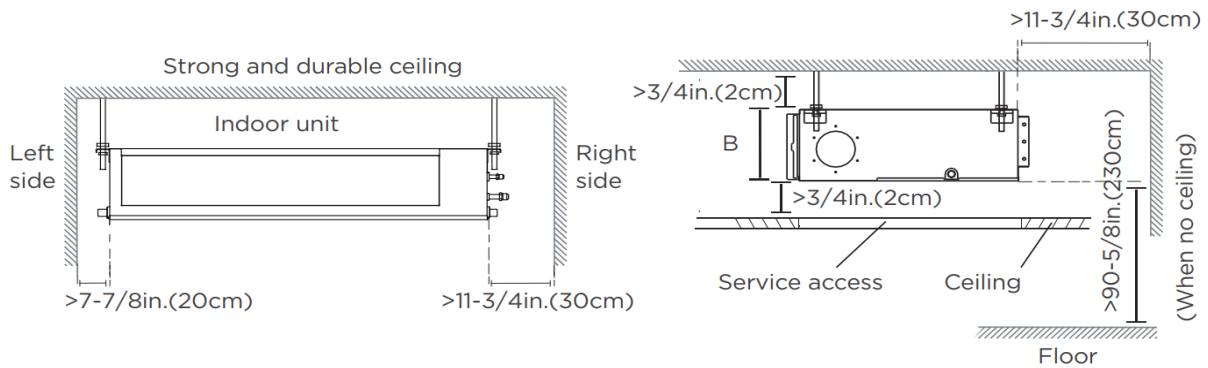
### Indoor Unit Dimension



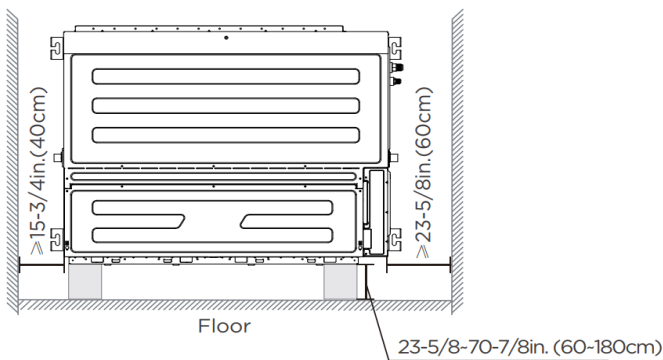
	inch (mm)			
MODEL	A	B	C	D
9" 12K	27-1/2 (700)	9-5/8 (245)	29-1/2 (750)	31-1/4 (795)
18K 24K	39-3/8 (1000)	9-5/8 (245)	29-1/2 (750)	31-1/4 (795)
36K 48K	47-1/8 (1200)	11-7/8 (300)	29-1/2 (750)	31-1/4 (795)
60K	55-1/8 (1400)	15 (380)	31-1/2 (800)	33-1/4 (845)

### Installation Instruction

#### 1) Ceiling-mounted

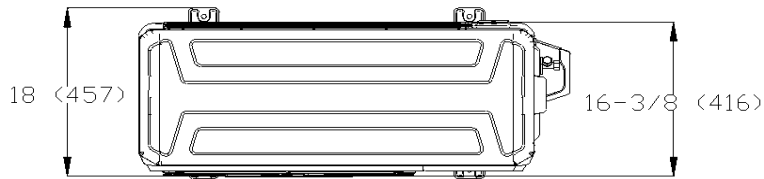
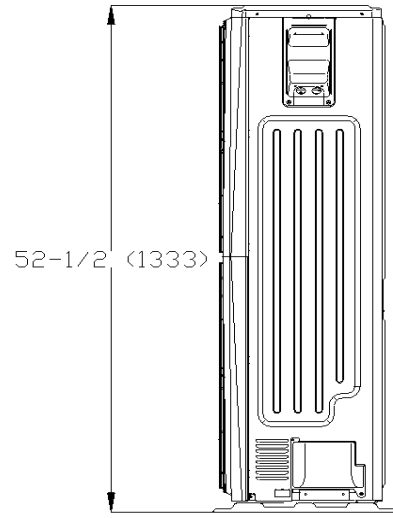
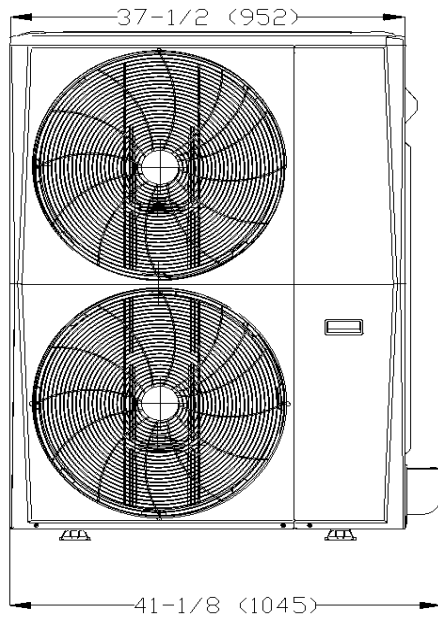


#### 2) Wall-mounted

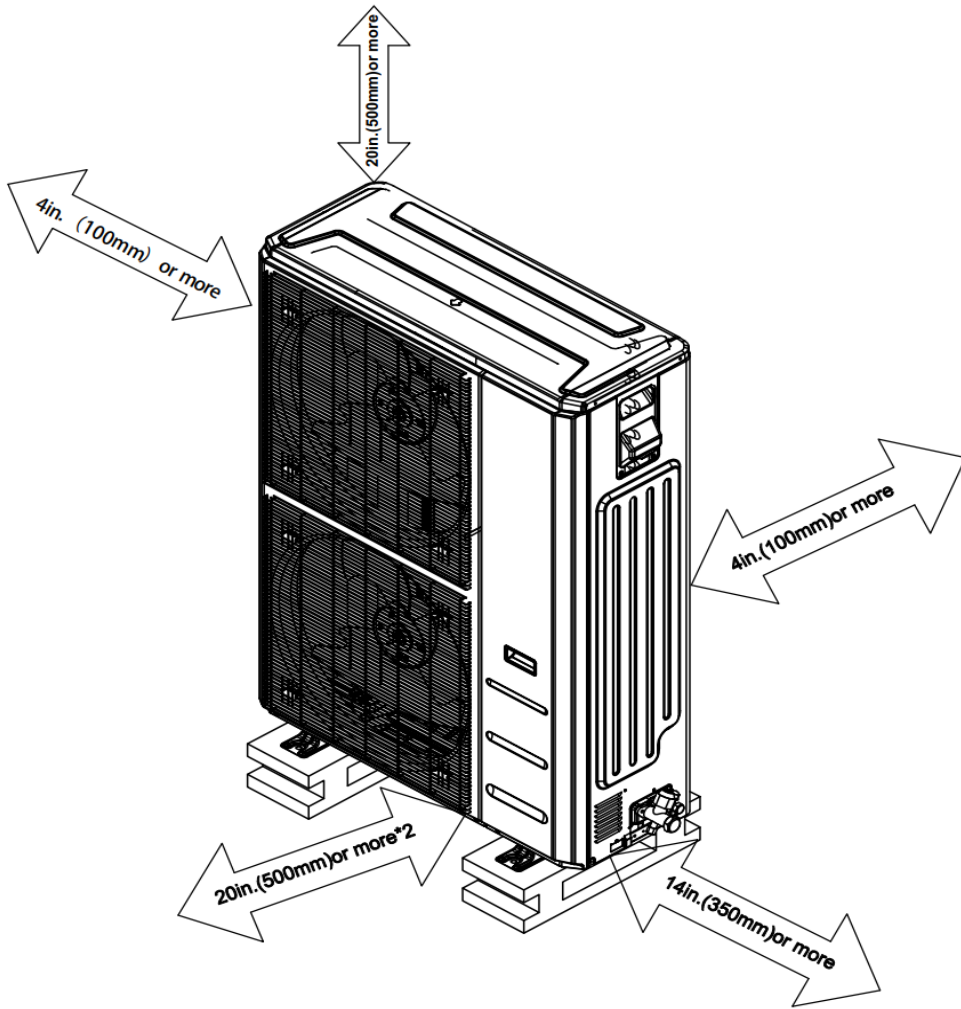


Outdoor Unit Dimension

Unit: inch (mm)

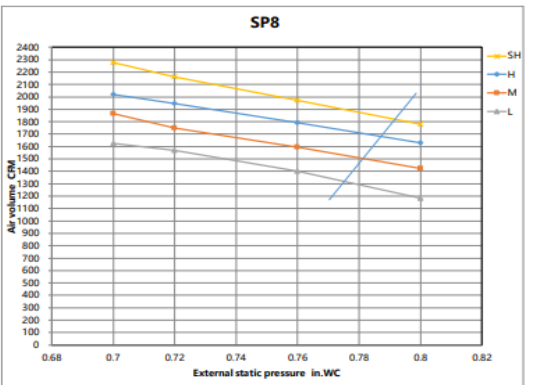
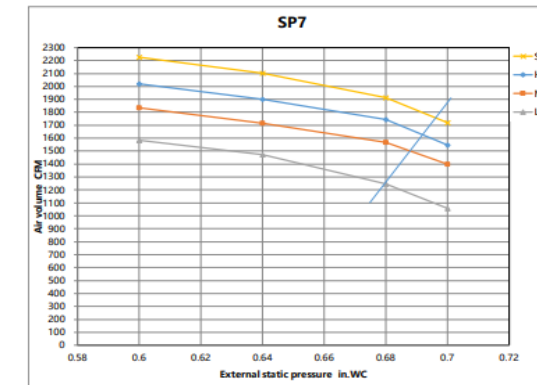
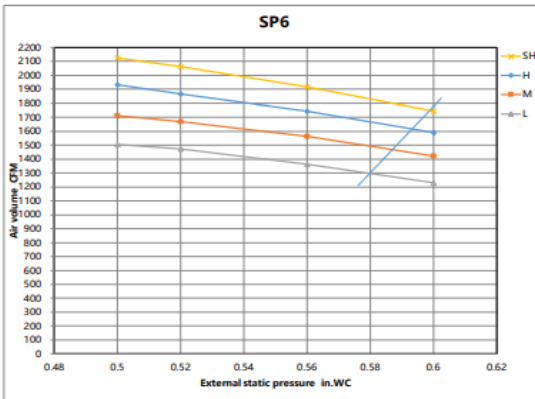
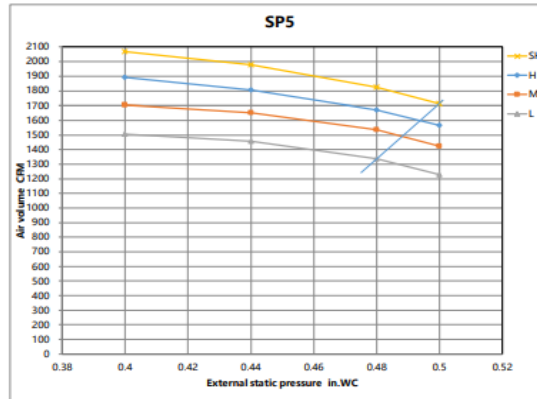
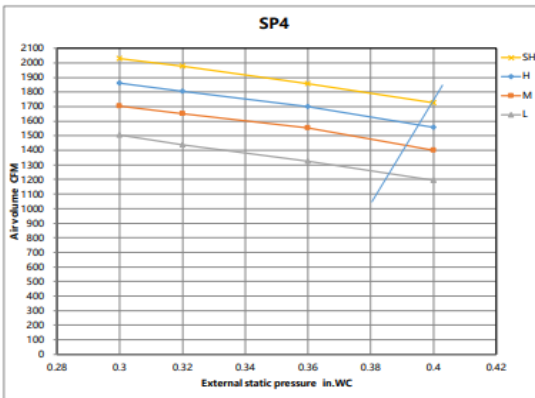
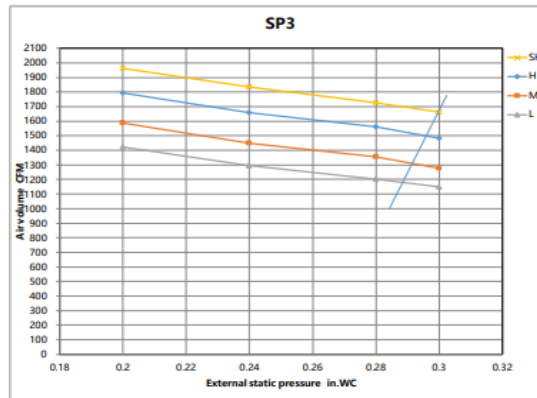
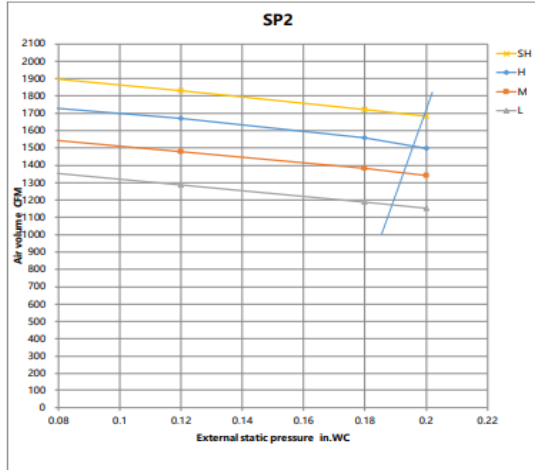
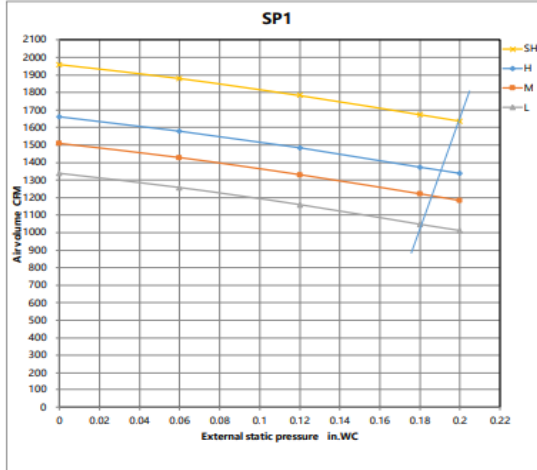


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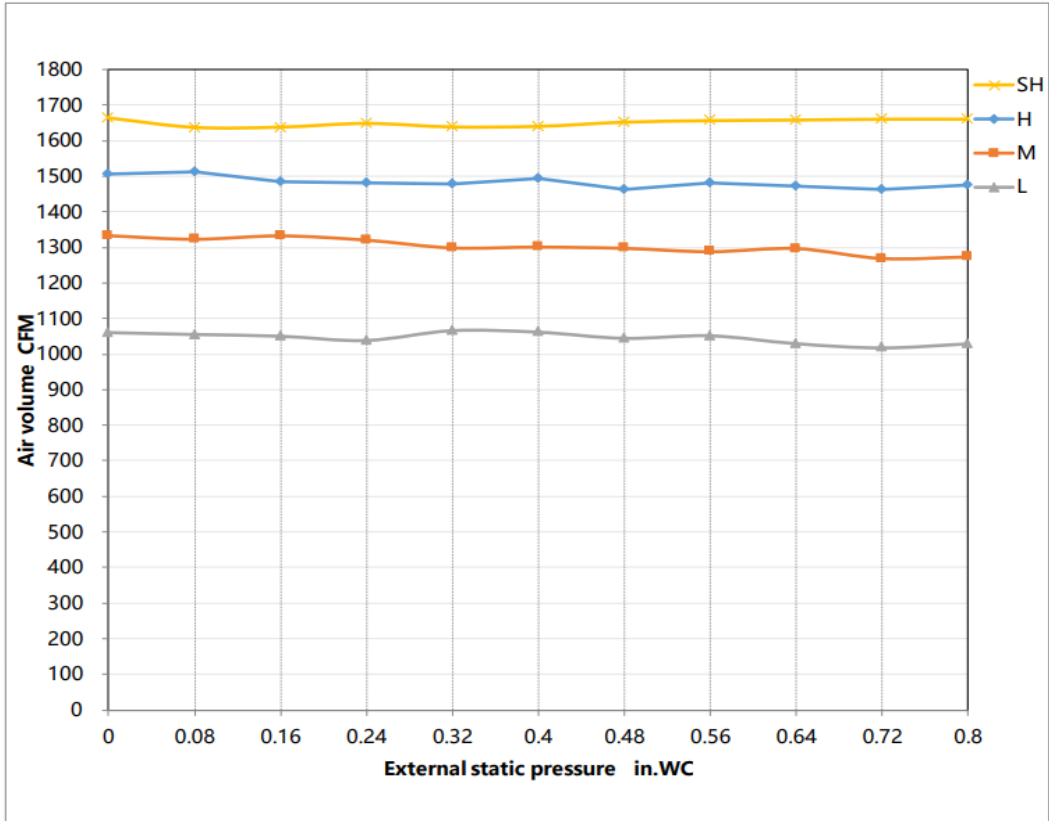


## Fan performance

The default setting is SP1, which can be changed to SP2,3,4,5,6,7,8 using the wired controller.



### Constant air volume



## FEATURES

- Compatible with both horizontal and vertical installation
- Static pressure up to 0.8 in.w.g(for all models)
- Static pressure setting stages: 8
- Refrigerant leakage detection sensor
- Constant airflow
- Built-in pump
- i-clean
- Fan speed stages: 1~100%
- WiFi capability: through wired controller with built-in WiFi
- OTA(by using wired controller 120N(X6W))
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple control options available:
  - Two way communication wired controller:120N(X6)
  - Two way communication wired controller with built-in WiFi:120N(X6W)
  - Infrared wired controller: 120L
  - Wireless remote controller
  - Third-Party 24V Thermostat\*

\*24V interface is required.

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