

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Slim Duct Regular Series
Model Number: MDHHS-H60B-2A/MO1BU-H60B-2A

Slim Duct Regular System

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



INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	2001 / 1707 / 1413 / 1118 / 1118
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	52 / 52 / 48 / 43 / 42
Indoor static pressure range(in.w.g.)	0-0.8
Dimension (WxDxH)	inch 55-1/8 x 31-1/2 x 15
	mm 1400 x 800 x 380
Package (WxDxH)	inch 63 x 36 x 17-1/2
	mm 1600 x 915 x 445
Net/Gross Weight	lbs 161 / 178
	kg 73.2 / 80.8

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 95 / 108.9

EFFICIENCY

Cooling		Heating	
SEER2	17.0	HSPF2-4	9.7
EER2	10.0	COP	3.70

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	58,000
Min/Max Capacity	14,600~63,000
Moisture Removal(L/h)	5.24
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	60,000
1. @ 47°F Min/Max Capacity	11,800~67,000
2. @ 17°F Rated	40,000
3. @ 5°F Rated: Capacity / COP	40,000/2.20
3. @ 5°F Max: Capacity	40,000
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

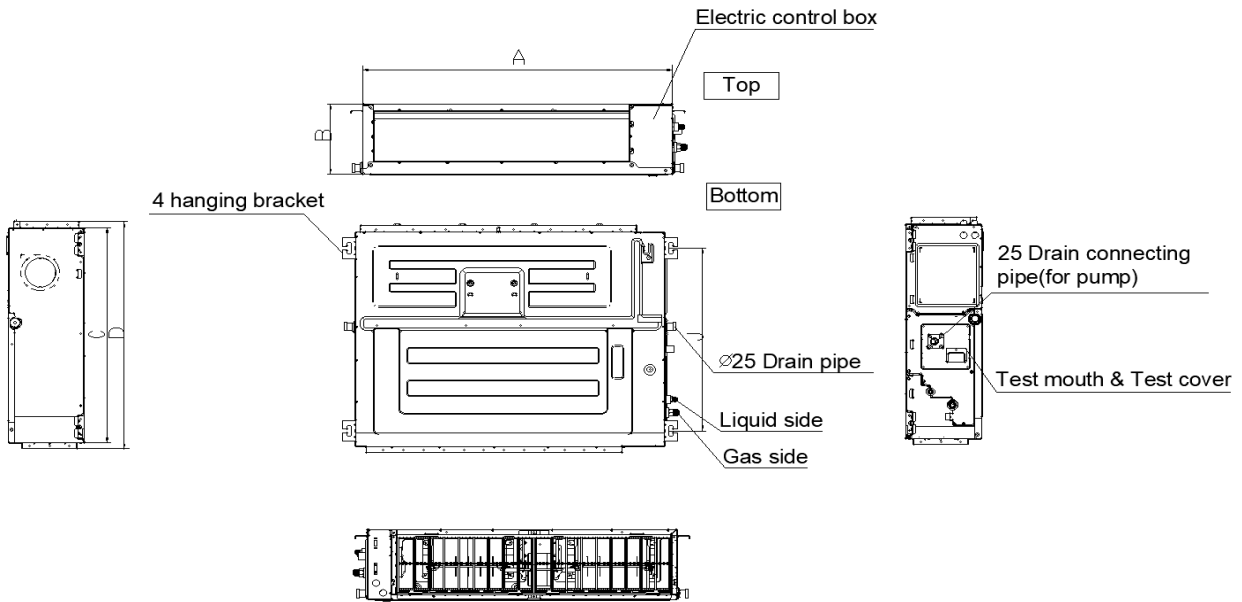
ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	42.0
Connection Wiring	AWG 14/3
System MOCP	45.0
Compressor RLA	25.0
Outdoor Fan Motor RLA	2.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	4.0
Indoor Fan Motor W	560
System Power Input @ Cooling (W)	5,800 (1,200 ~ 6,780)
System Power Input @ Heating (W)	4,750 (775 ~5,170)
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)	145 (4.10)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

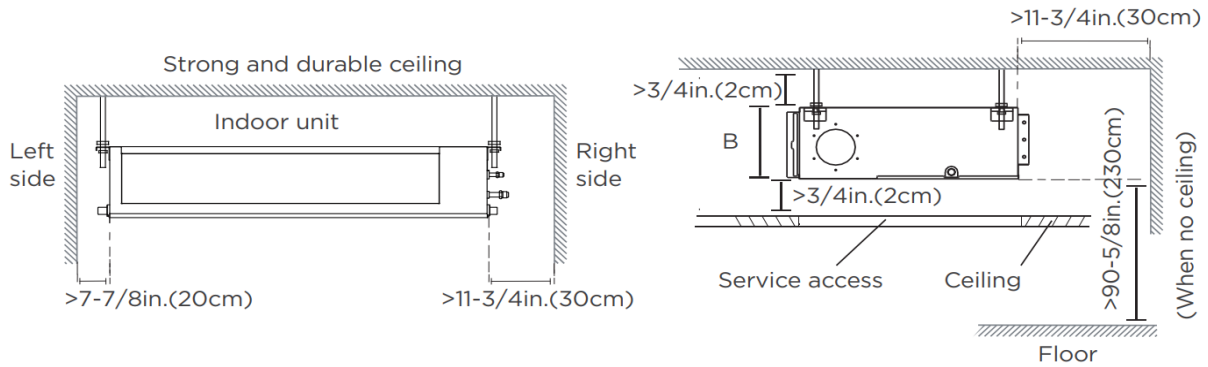
Indoor Unit Dimension



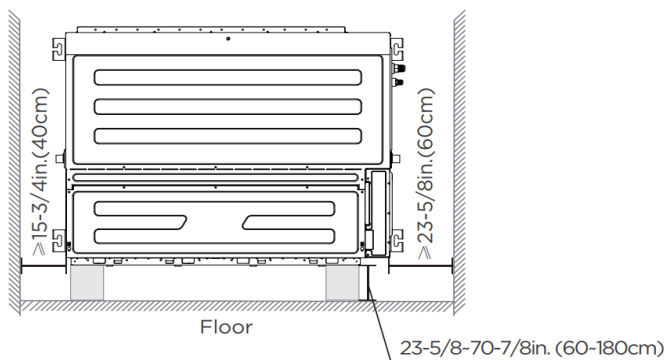
MODEL	A	B	C	D	inch (mm)
9~12K	27-1/2 (700)	9-5/8 (245)	29-1/2 (750)	31-1/4 (795)	
18K~24K	39-3/8 (1000)	9-5/8 (245)	29-1/2 (750)	31-1/4 (795)	
36K~48K	47-1/8 (1200)	11-7/8 (300)	29-1/2 (750)	31-1/4 (795)	
60K	55-1/8 (1400)	15 (380)	31-1/2 (800)	33-1/4 (845)	

Installation Instruction

1) Ceiling-mounted

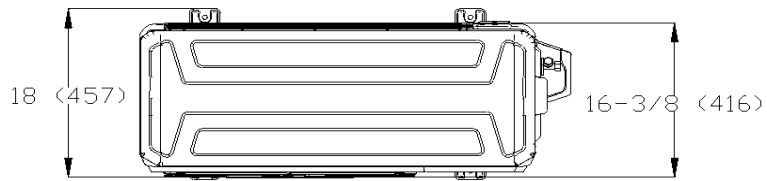
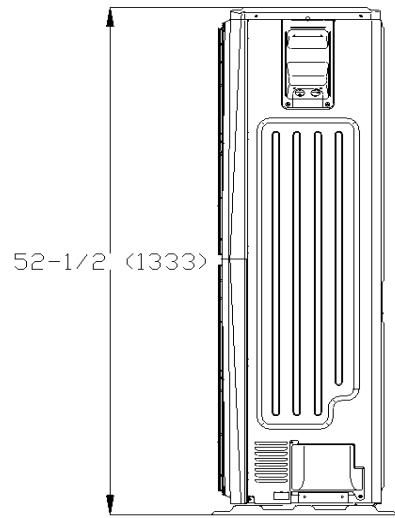
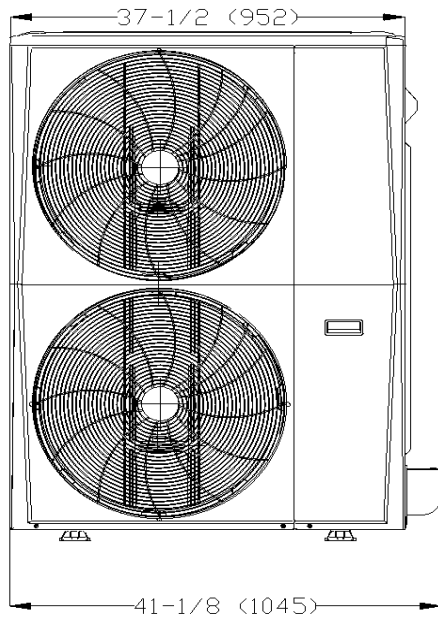


2) Wall-mounted

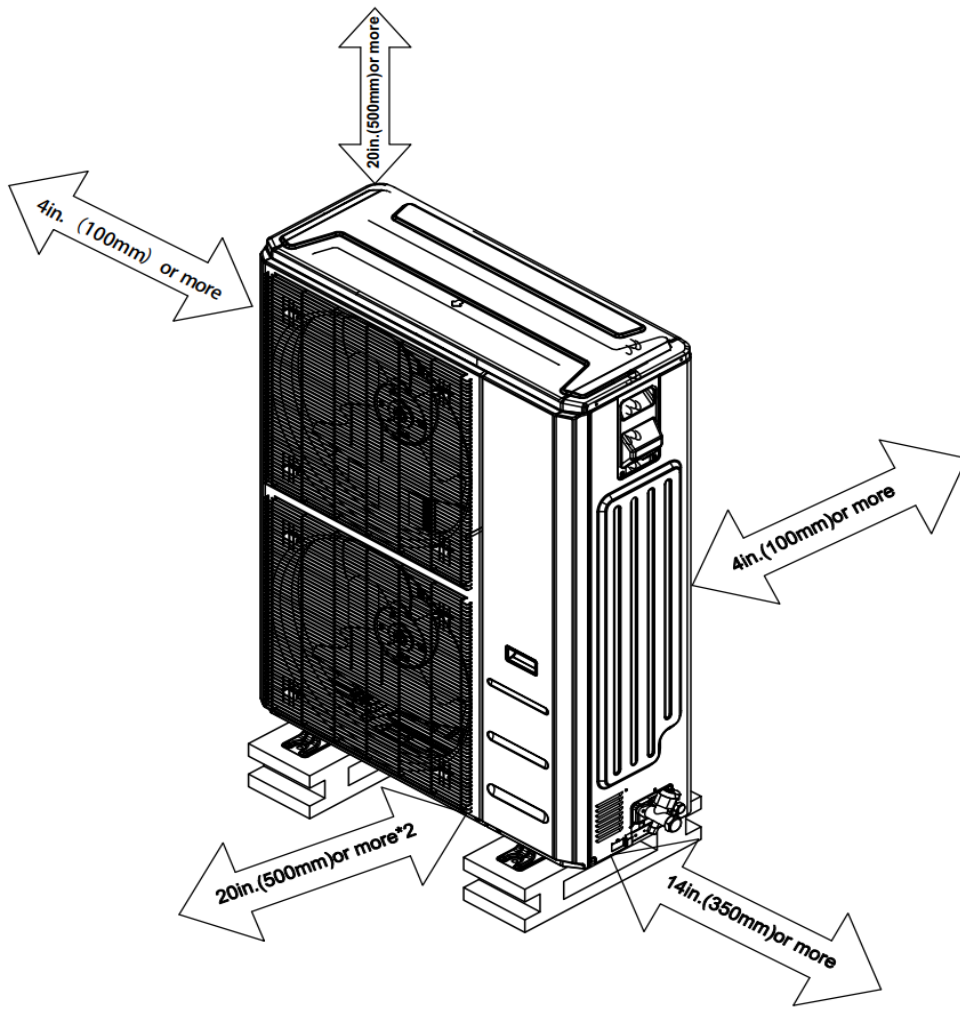


Outdoor Unit Dimension

Unit: inch (mm)

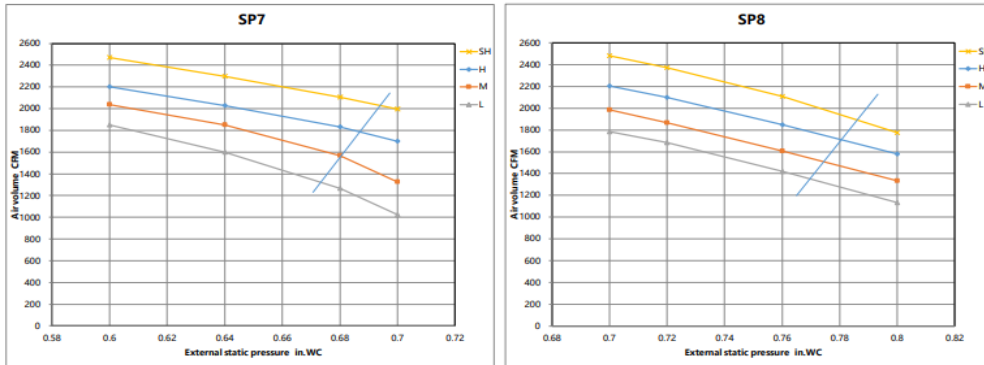
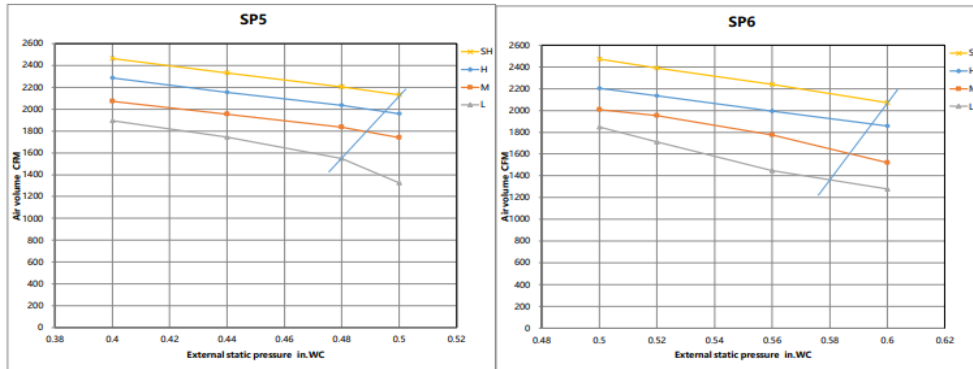
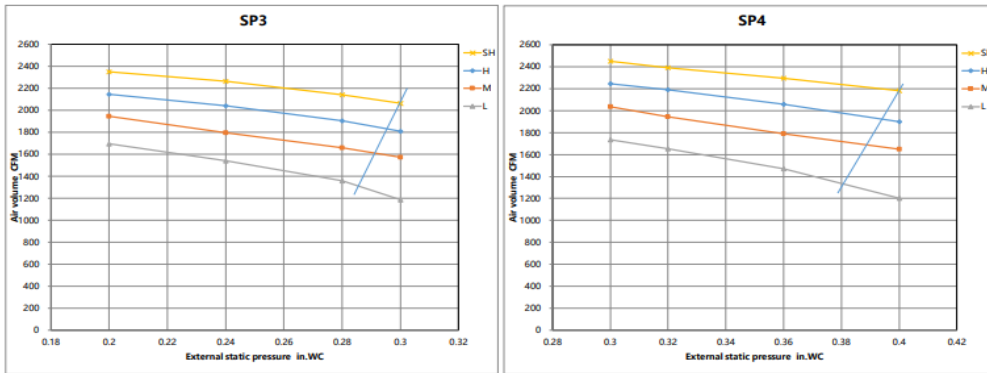
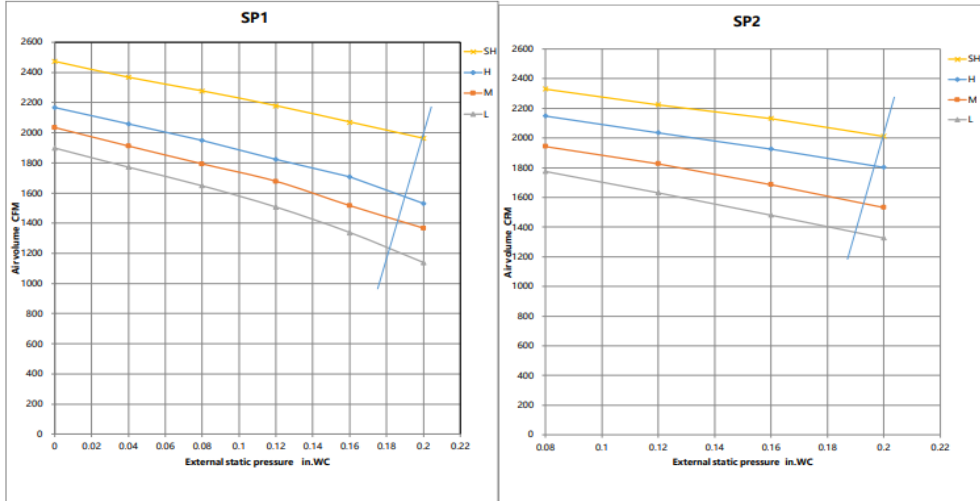


Installation Instruction

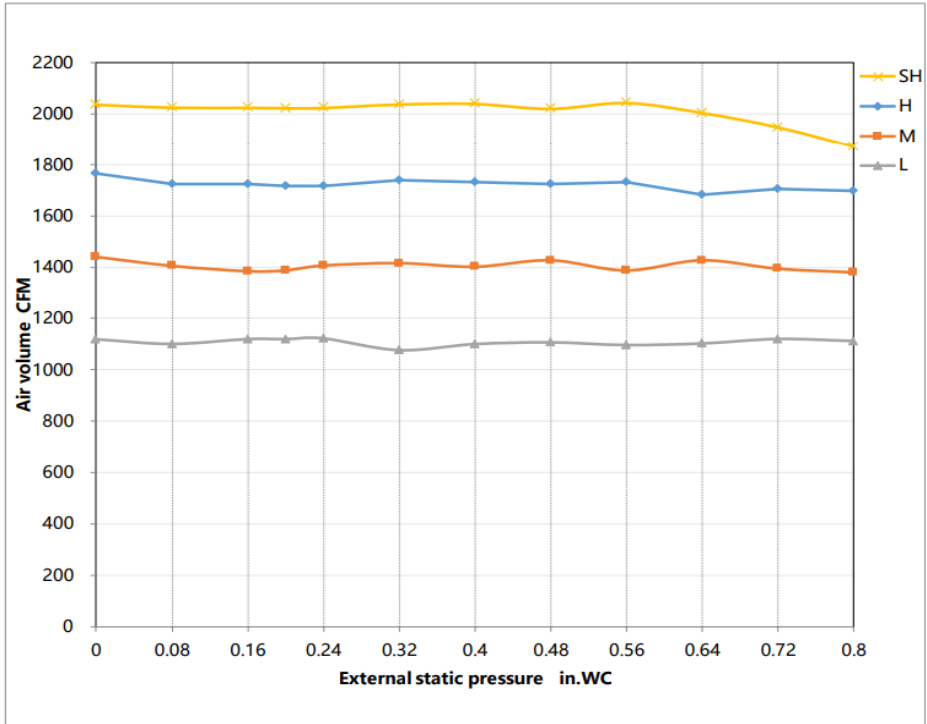


Fan performance

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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