

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Slim Duct Regular Series
Model Number: MDHHS-H36B-2A/MO1BU-H36B-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)		1236 / 1060 / 942 / 765 / 765
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		45 / 45 / 40 / 33 / 30
Indoor static pressure range(in.w.g.)		0-0.8
Dimension (W×D×H)	inch	47-1/8 x 29-1/2 x 11-7/8
	mm	1200 × 750 × 300
Package (W×D×H)	inch	56-1/8 x 33-7/8 x 14-1/8
	mm	1425 × 860 × 359
Net/Gross Weight	lbs	106 / 120
	kg	48.2 / 54.6

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KTF310D43UMT
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1,000
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		2,413
Outdoor Noise Level (dBA)		63
Dimension (W×D×H)	inch	37-1/4 x 16-1/8 x 31-7/8
	mm	946 x 410 x 810
Package (W×D×H)	inch	42-7/8 x 19-5/8 x 34-7/8
	mm	1090 x 500 x 885
Net/Gross Weight	lbs	152 / 162
	kg	69.1 / 73.7

EFFICIENCY

Cooling		Heating	
SEER2	18.7	HSPF2-4	10.2
EER2	10.1	COP	3.70

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	36,000
Min/Max Capacity	7,900~42,500
Moisture Removal(L/h)	3.65
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	40,000
1. @ 47°F Min/Max Capacity	8,100~43,500
2. @ 17°F Rated	27,400
3. @ 5°F Rated: Capacity / COP	25,600/2.10
3. @ 5°F Max: Capacity	25,600
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

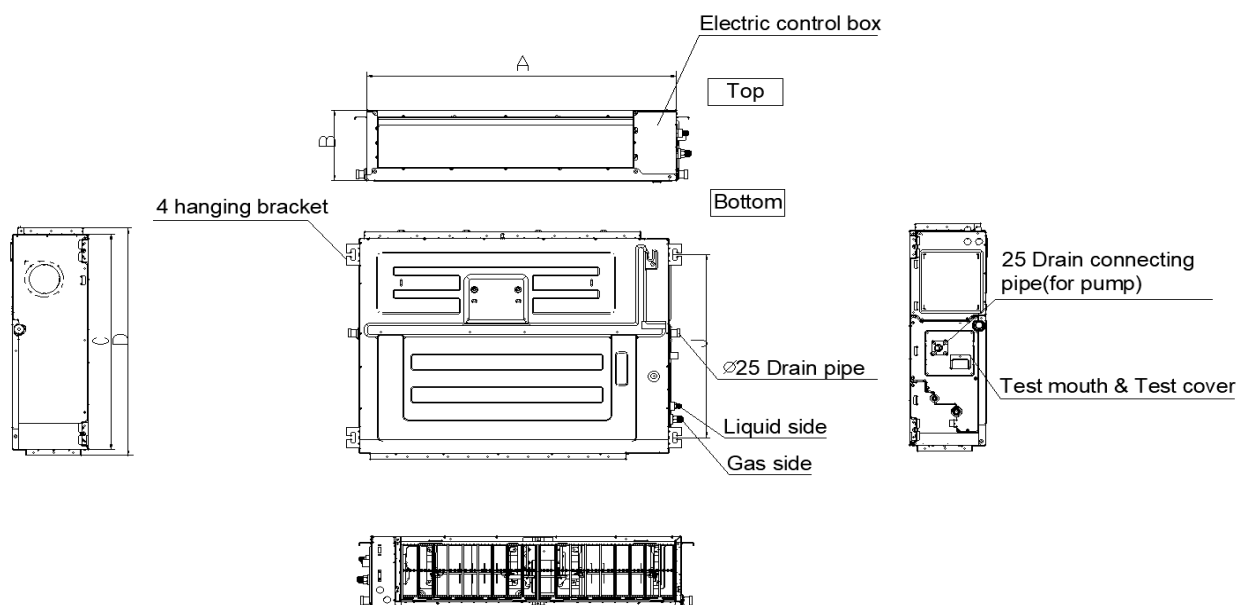
ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	33.0
Connection Wiring	AWG 14/3
System MOC	35.0
Compressor RLA	21.5
Outdoor Fan Motor RLA	1.4
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	3.2
Indoor Fan Motor W	400
System Power Input @ Cooling (W)	3,530 (660 ~ 4,250)
System Power Input @ Heating (W)	3,170 (520 ~ 3,360)
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)	92 (2.60)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.32 (30)
Connection Method	Flared

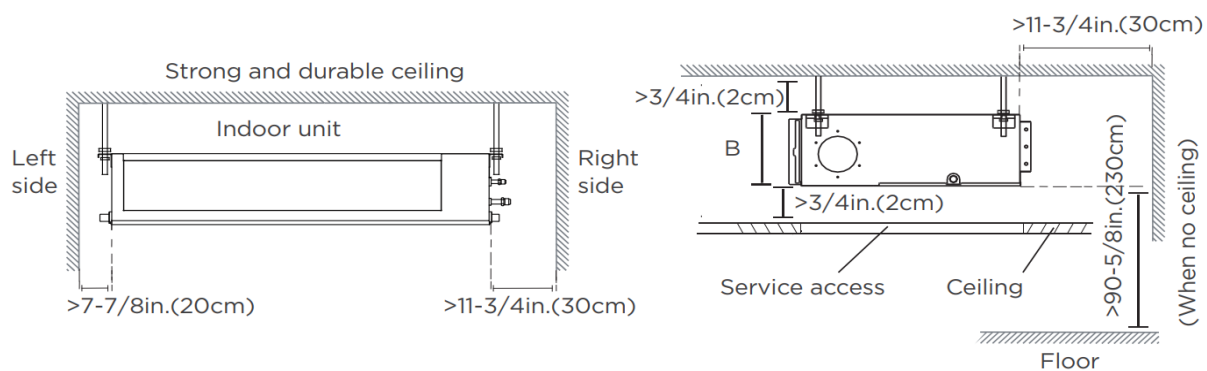
Indoor Unit Dimension



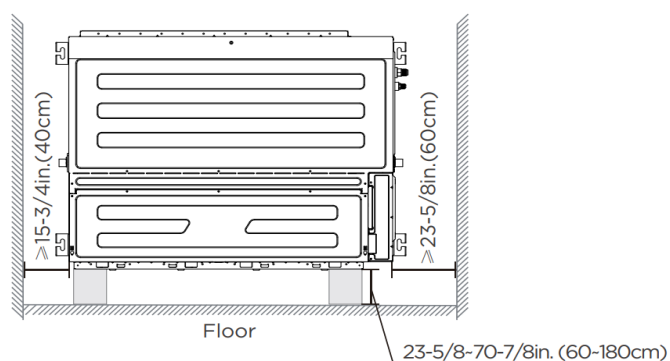
MODEL	A	B	C	D	inch (mm)
9~12K	27-1/2 (700)	9-5/8 (245)	29-1/2 (750)	31-1/4 (795)	
18K~24K	39-3/8 (1000)	9-5/8 (245)	29-1/2 (750)	31-1/4 (795)	
36K~48K	47-1/8 (1200)	11-7/8 (300)	29-1/2 (750)	31-1/4 (795)	
60K	55-1/8 (1400)	15 (380)	31-1/2 (800)	33-1/4 (845)	

Installation Instruction

1) Ceiling-mounted

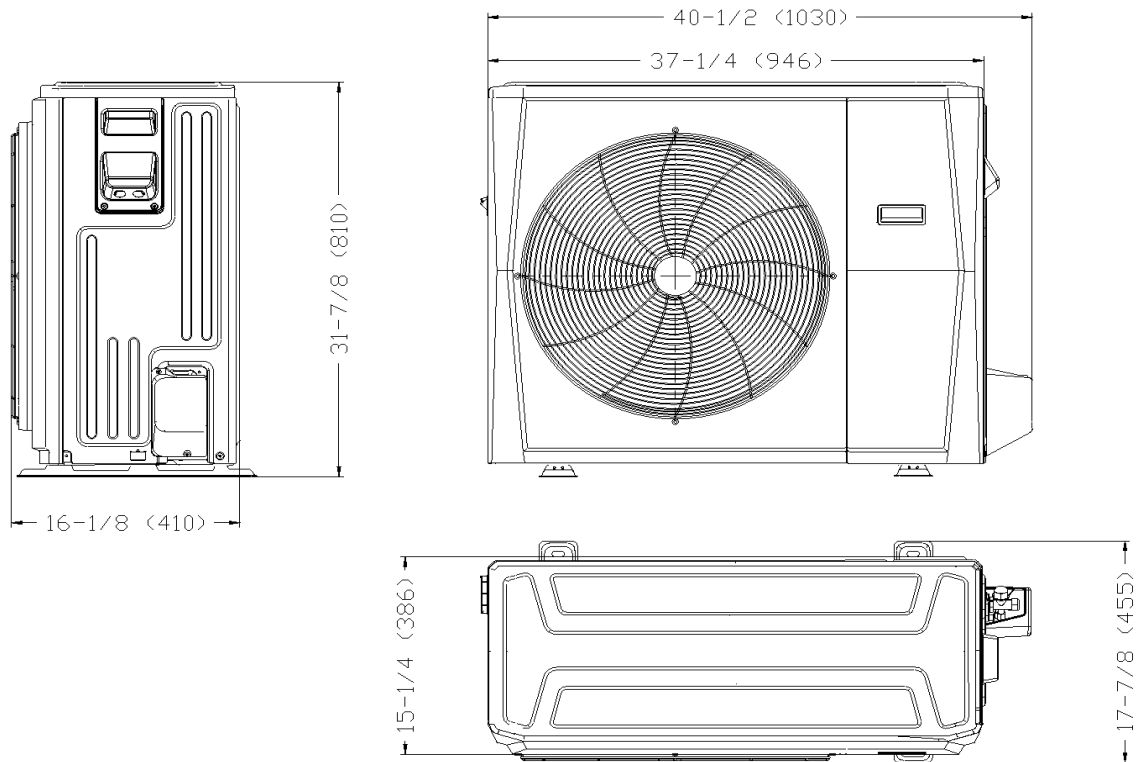


2) Wall-mounted

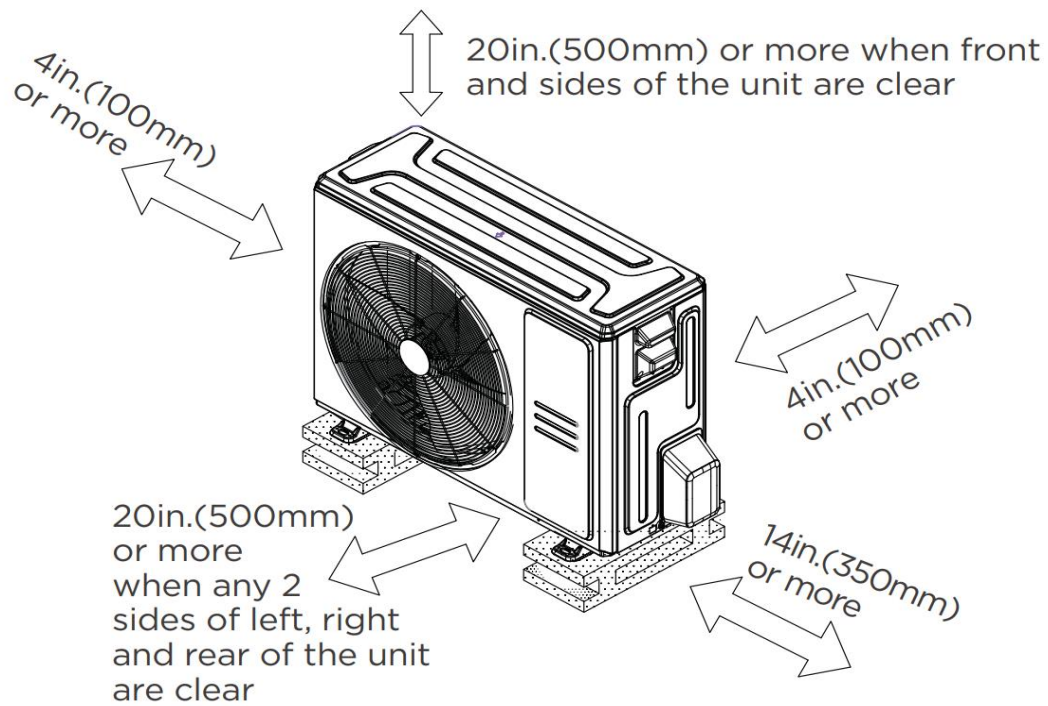


Outdoor Unit Dimension

Unit: inch (mm)

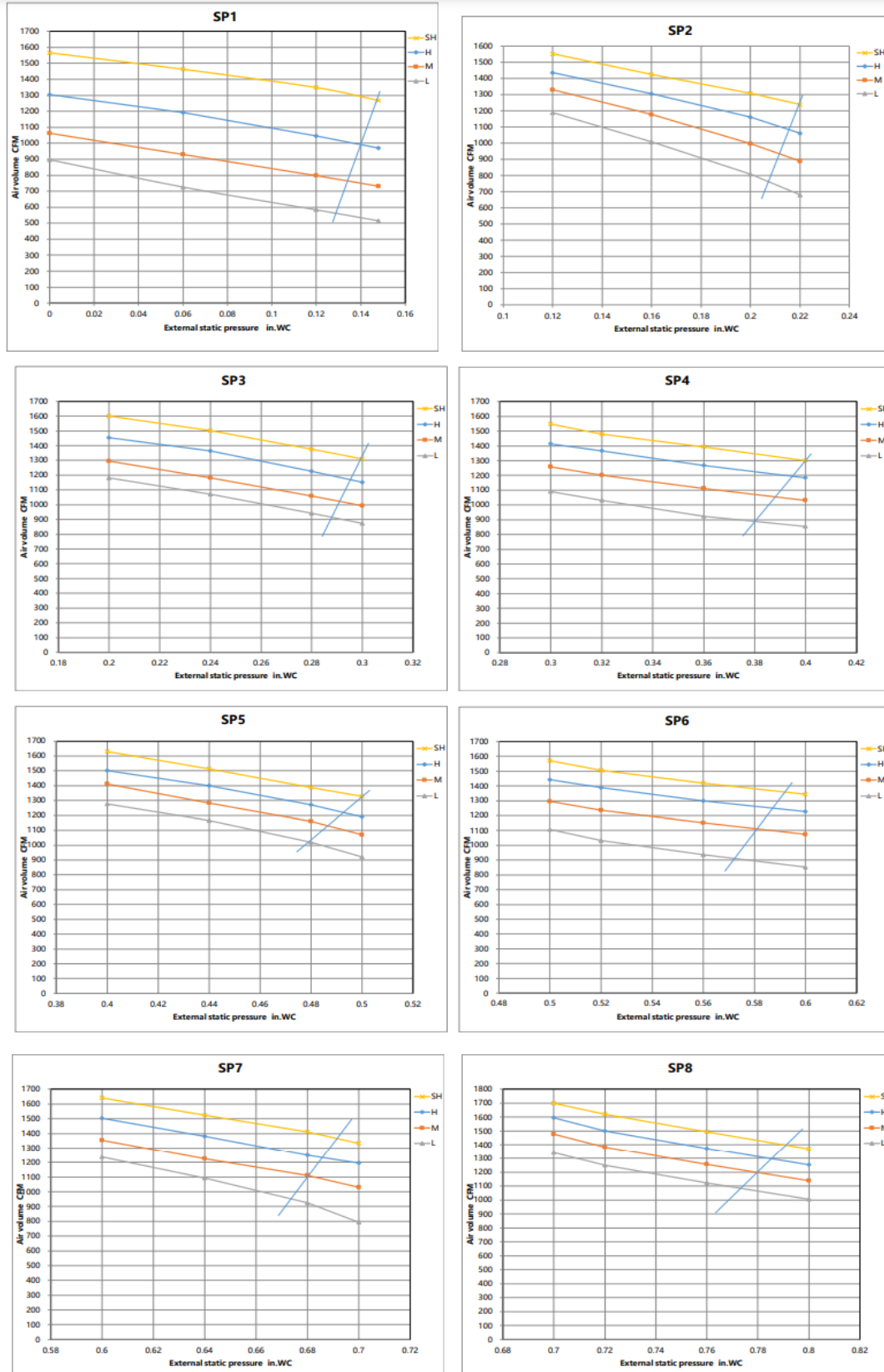


Installation Instruction

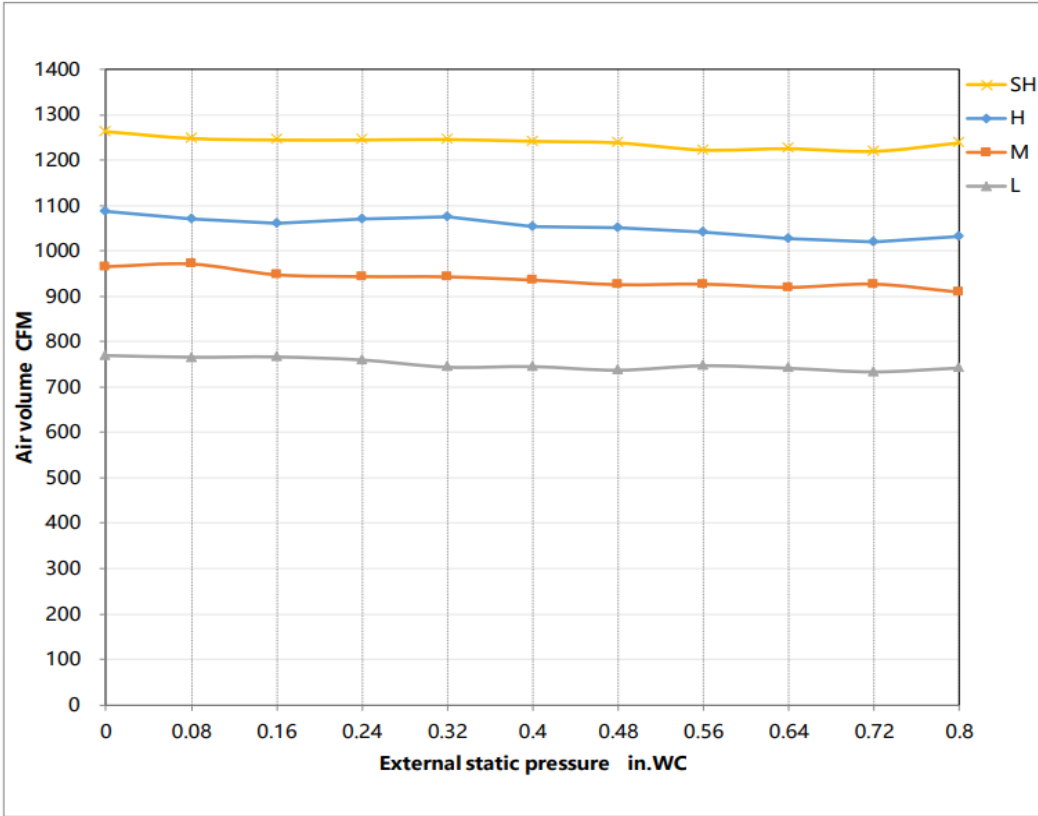


Fan performance

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.