

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Slim Duct Xtreme Heat Series
Model Number: MDHHS-H48B-2A/MO1HU-H48B-2A

Slim Duct Heat Pump 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 (W×D×H)	inch 47-1/8 x 29-1/2 x 11-7/8 mm 1200 x 750 x 300
Package (W×D×H)	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	TWIN-ROTARY
Compressor Model	EKPQ420D1UMUA
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1460
Refrigerant Oil	VG75
Outdoor Air Flow (Max) (CFM)	4,238
Outdoor Noise Level (dBA)	65
Dimension (W×D×H)	inch 37-1/2 x 16-3/8 x 52-1/2 mm 952 x 415 x 1333
Package (W×D×H)	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 16.7	HSPF2-4 10.8
EER2 10.4	COP 3.60

PERFORMANCE of Cooling

Cooling (Btu/hr)
Rated Capacity 48,000
Min/Max Capacity 11,000~56,500
Moisture Removal(L/h) 4.22
Standard Operating Range(°F/°C) -22 ~ 122 (-30 ~ 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 52,000
1. @ 47°F Min/Max Capacity 11,200~60,000
2. @ 17°F Rated 45,000
3. @ 5°F Rated: Capacity / COP 47,500/2.00
3. @ 5°F Max: Capacity 47,500
Standard Operating Range(°F/°C) -22 ~ 75 (-30 ~ 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

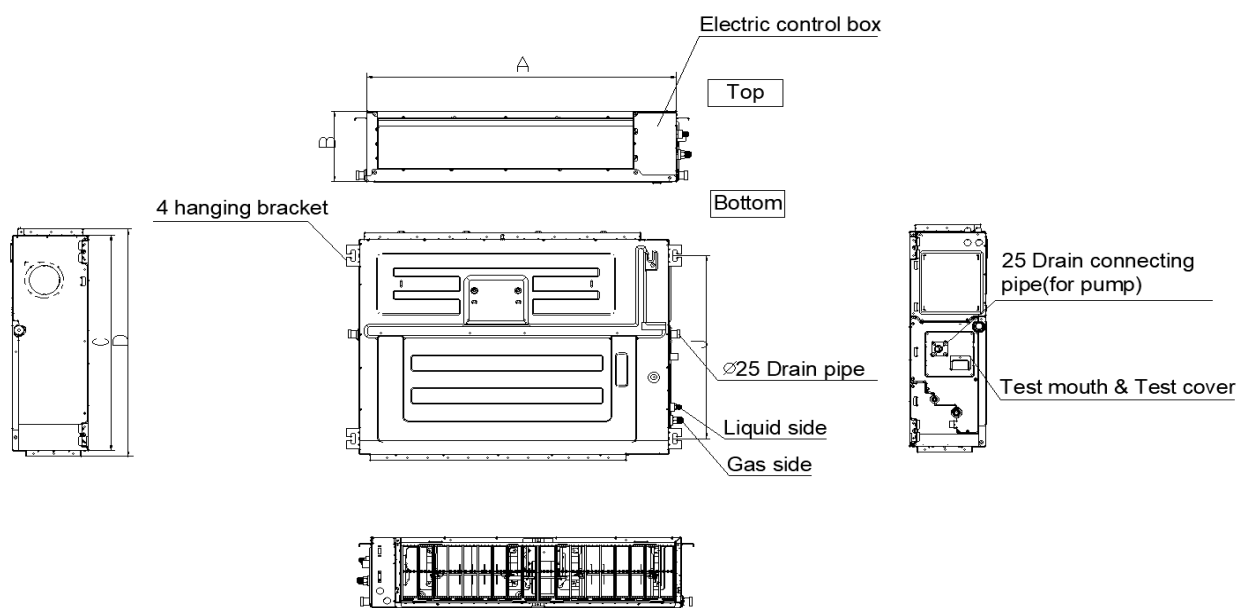
ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	44.0
Connection Wiring	AWG 14/3
System MOC	45.0
Compressor RLA	27.0
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)	4,610 (930 ~ 6,050)
System Power Input @ Heating (W)	4,230 (770 ~ 5,380)
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

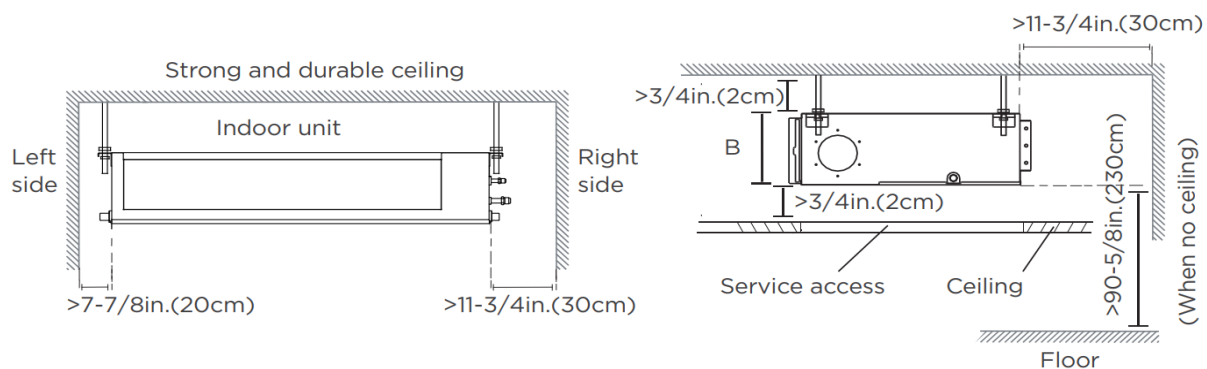
Indoor Unit Dimension



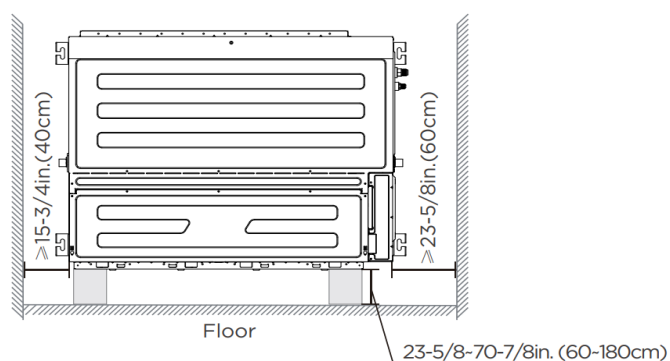
	inch (mm)			
MODEL	A	B	C	D
9~12K	27-1/2 (700)	9-5/8 (245)	29-1/2 (750)	31-1/4 (795)
18K~24K	39-3/8 (1000)	9-5/8 (245)	29-1/2 (750)	31-1/4 (795)
36K~48K	47-1/8 (1200)	11-7/8 (300)	29-1/2 (750)	31-1/4 (795)
60K	55-1/8 (1400)	15 (380)	31-1/2 (800)	33-1/4 (845)

Installation Instruction

1) Ceiling-mounted

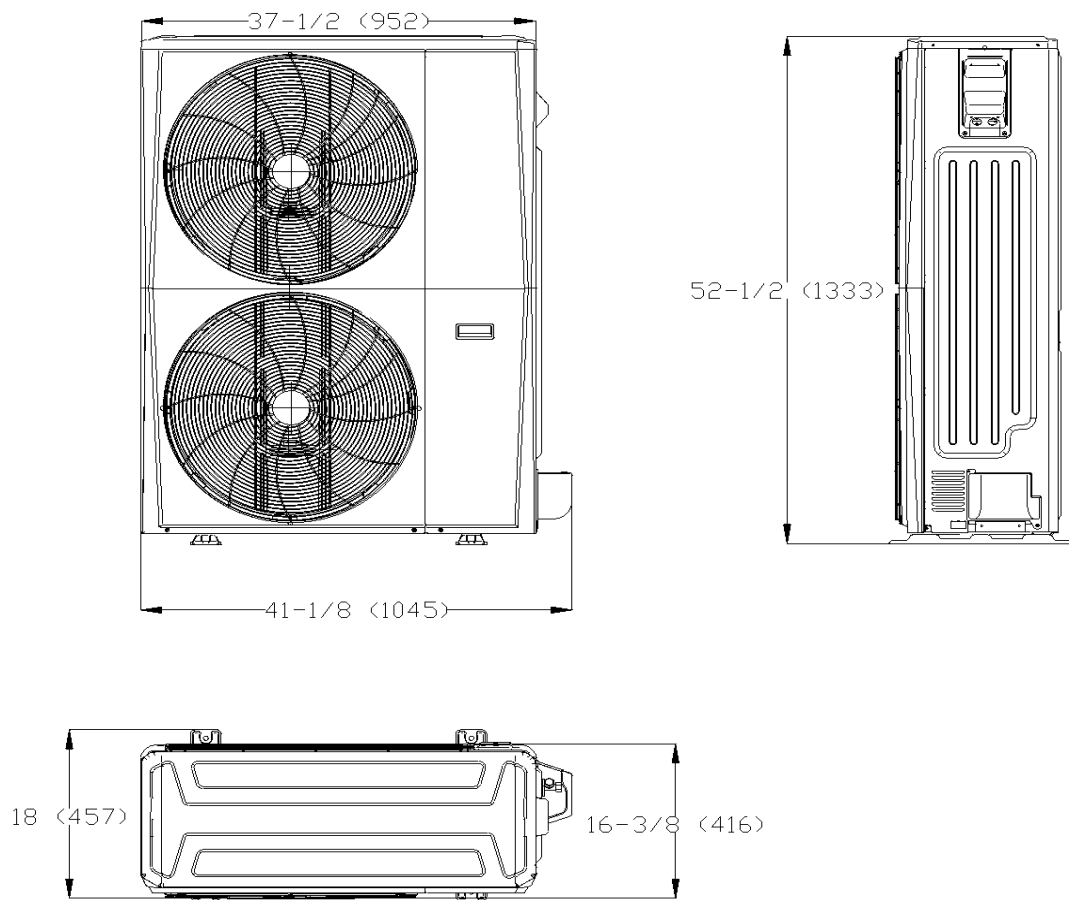


2) Wall-mounted

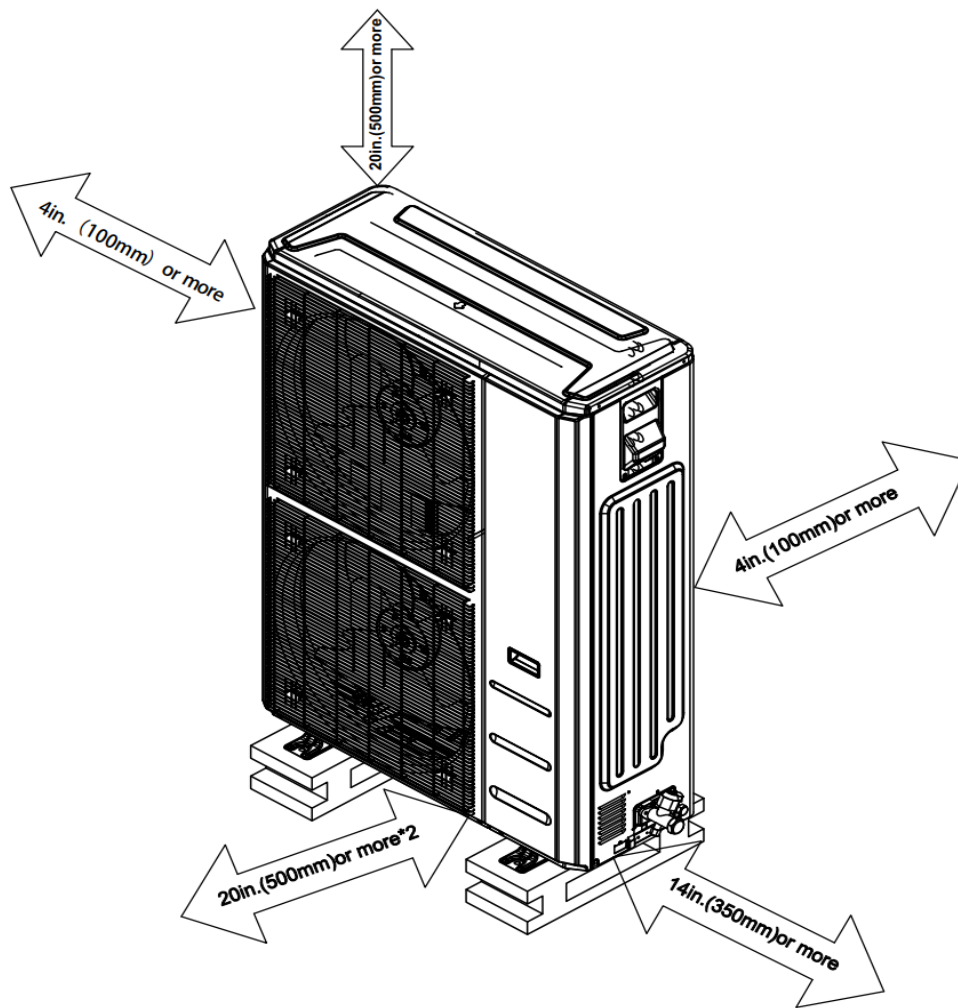


Outdoor Unit Dimension

Unit: inch (mm)

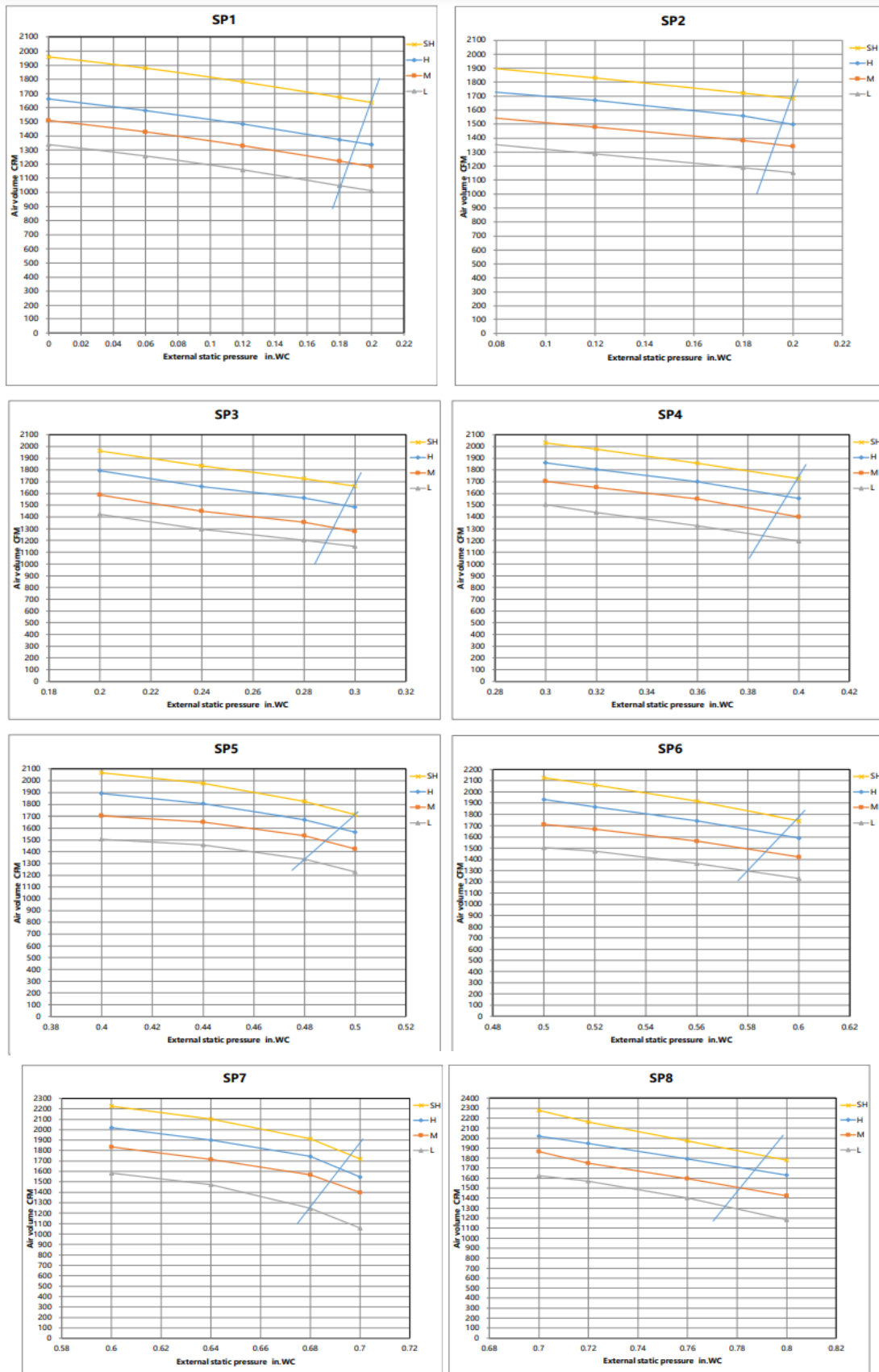


Installation Instruction

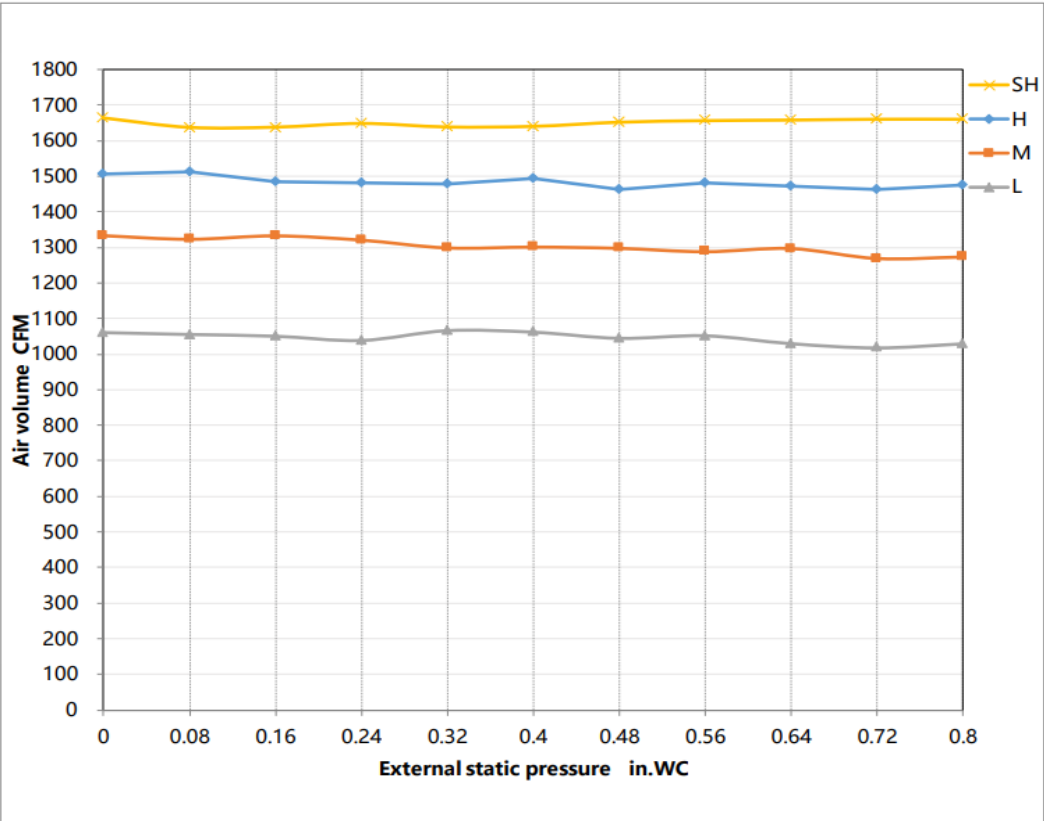


Fan performance

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.