



# Submittal Data Sheet

Indoor Unit Model#: ACiQ-18CD-HH-MC  
Outdoor Unit Model#: ACiQ-18ZS-HP230C

## 18K R454B Concealed Duct (High Static Pressure) & 18K Std. Heat Single-Zone Condenser

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



INDOOR UNIT SPECIFICATIONS	
Indoor Air Flow (Turbo/Hi/Med/Lo/Si) (CFM)	706.3 / 618.0 / 529.7 / 441.4 / NA
Indoor Noise Level (Turbo/Hi/Med/Lo/Si) (dBA)	40 / 37 / 35 / 33 / 29.0
Indoor static pressure range (in.w.g.)	0 - 0.8
Dimension (WxDxH)	inch
	mm
Package (WxDxH)	inch
	mm
Net/Gross Weight	lbs
	kg

OUTDOOR UNIT SPECIFICATIONS	
Compressor Type	ROTARY
Compressor Model	KSN140D58UFZ
Refrigerant Type	R454B
Refrigerant Oil Charge (mL)	440
Refrigerant Oil	7.2
Outdoor Air Flow (Max) (CFM)	1765.8
Outdoor Noise Level (dBA)	58.0
Dimension (WxDxH)	inch
	mm
Package (WxDxH)	inch
	mm
Net/Gross Weight	lbs
	kg

EFFICIENCY RATINGS			
Cooling		Heating	
SEER2	20.0	HSPF2-4	11.3
EER2	13.3	COP	3.90

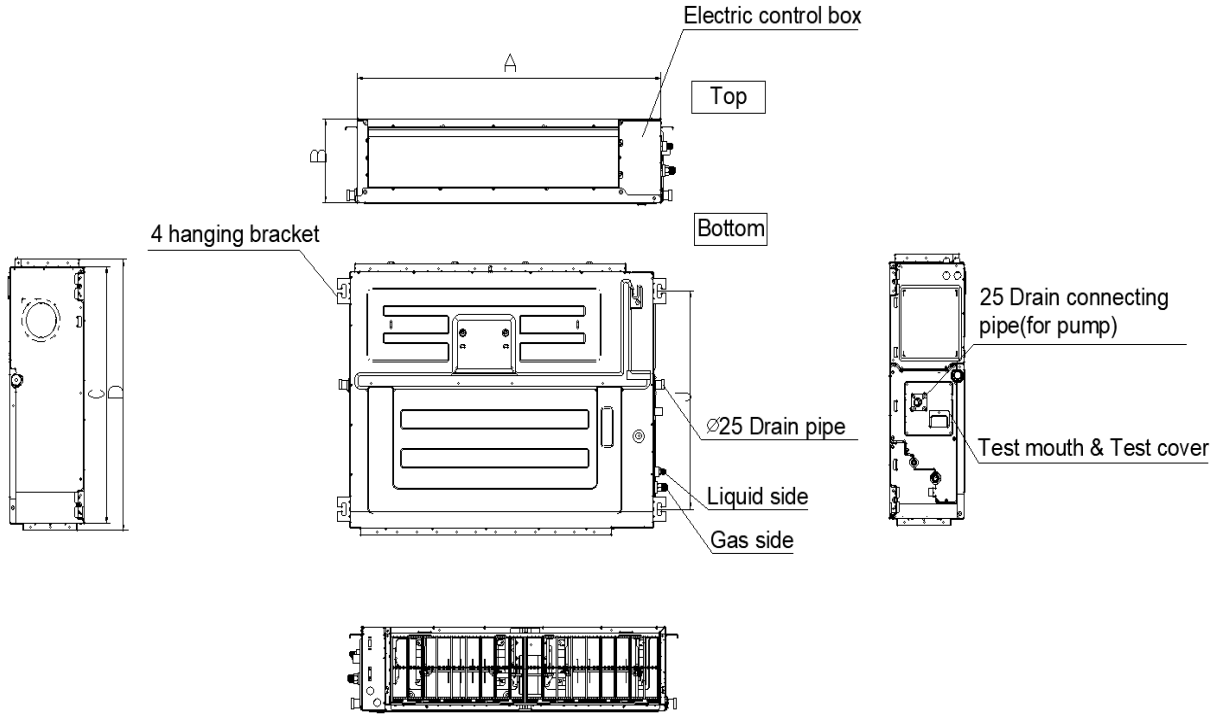
COOLING PERFORMANCE	
Cooling (Btu/hr)	
Rated Capacity	17500
Min/Max Capacity	4500 ~ 20200
Moisture Removal (L/h)	1.71
Standard Operating Range (°F/°C)	-13°F ~ 122°F (-25°C ~ 50°C)
Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

HEATING PERFORMANCE	
Heating (Btu/hr)	
1. @ 47°F Rated	20000
1. @ 47°F Min/Max Capacity	5200 ~ 23000
2. @ 17°F Rated	14900
3. @ 5°F Rated: Capacity / COP	14200 / 2.40
3. @ 5°F Max: Capacity	14200
Standard Operating Range (°F/°C)	-13°F ~ 75°F (-25°C ~ 24°C)
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 SPECIFICATIONS	
Power Supply	208/230V, 60Hz, 1Ph
System MCA	18.00
Connection Wiring	14#x4
System MOP	20
Compressor RLA	10.0
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	1.8
Indoor Fan Motor W	165
System Power Input @ Cooling (W)	1315 (570 ~ 1770)
System Power Input @ Heating (W)	1500 (310 ~ 1720)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

REFRIGERANT PIPING SPECIFICATIONS	
Throttle type (Indoor)	N/A
Throttle type (Outdoor)	EXV+Throttle valve
Liquid Size	6.35mm (1/4in)
Gas Size	12.7mm (1/2in)
Max. Piping Length (ft/m)	98.40 (30)
Max. Height Difference (ft/m)	65.60 (20)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	47.97 (1.36)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.16 (15)
Connection Method	Flared

## Indoor Unit Dimensions



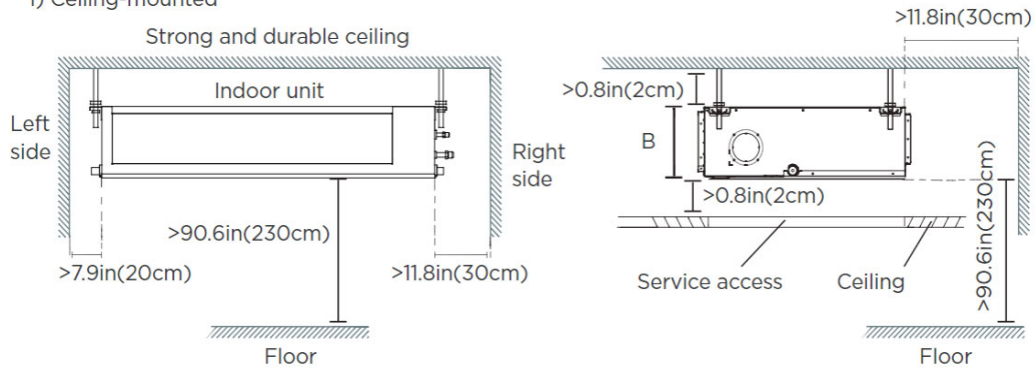
MODEL	A	B	C	D
9K	27-1/2in(700mm)	7-7/8in(200mm)	17-3/4(450mm)	20in(506mm)
12K	27-1/2in(700mm)	9-5/8in(245mm)	29-1/2(750mm)	31-1/4in(795mm)
18K~24K	39-3/8in(1000mm)	9-5/8in(245mm)	29-1/2(750mm)	31-1/4in(795mm)

## Indoor Unit Installation Instructions

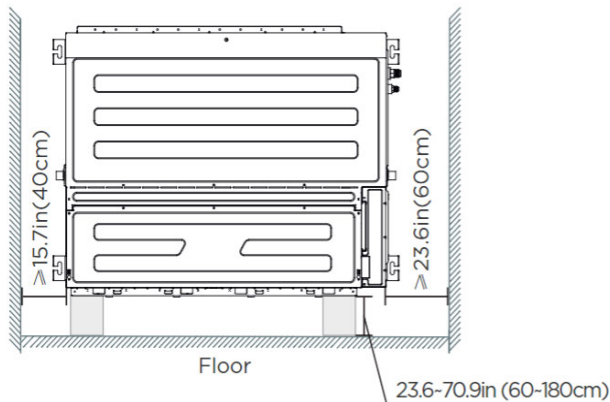
### Installation place

The distance between the mounted indoor unit should meet the specifications illustrated in the following diagram.

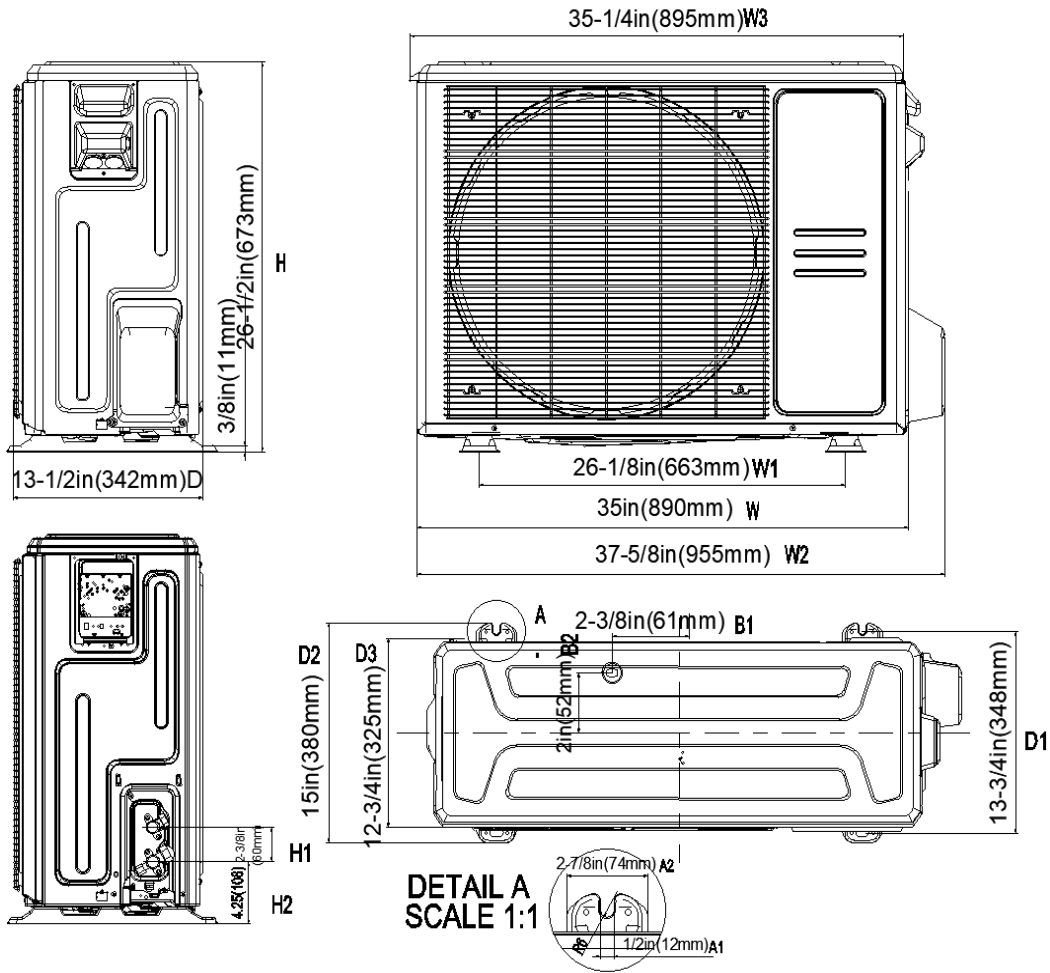
#### 1) Ceiling-mounted



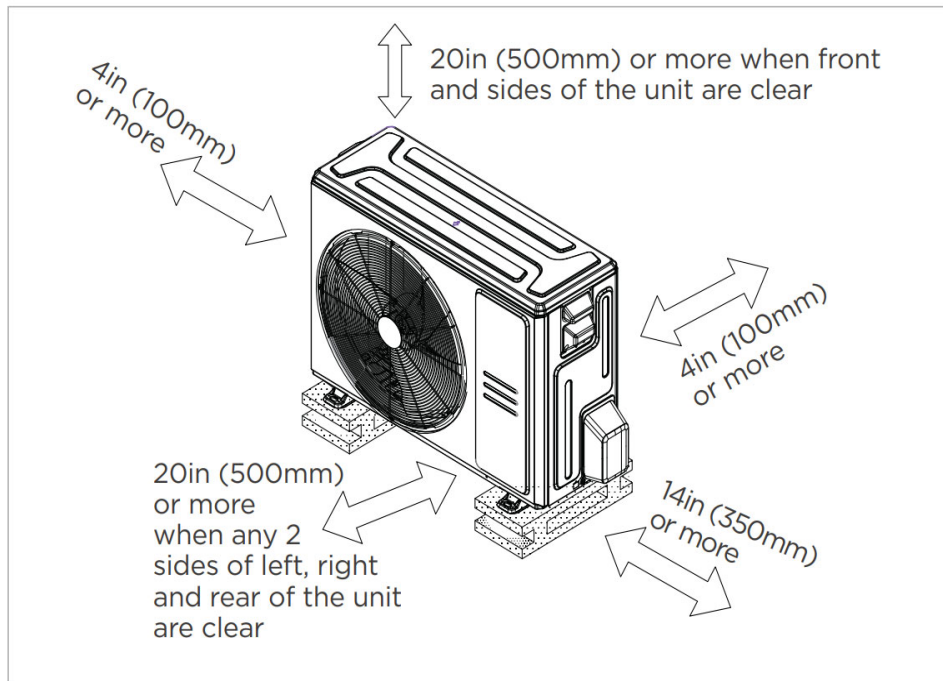
#### 2) Wall-mounted



### Outdoor Unit Dimensions

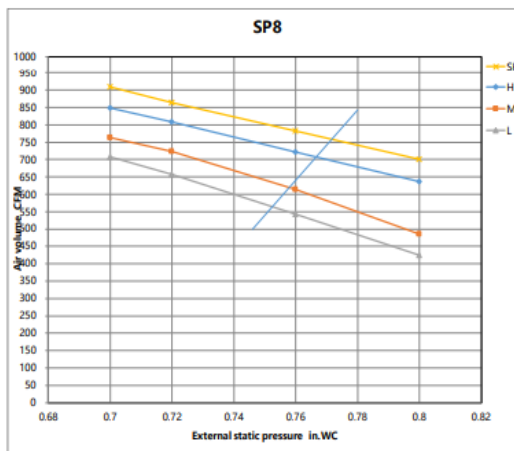
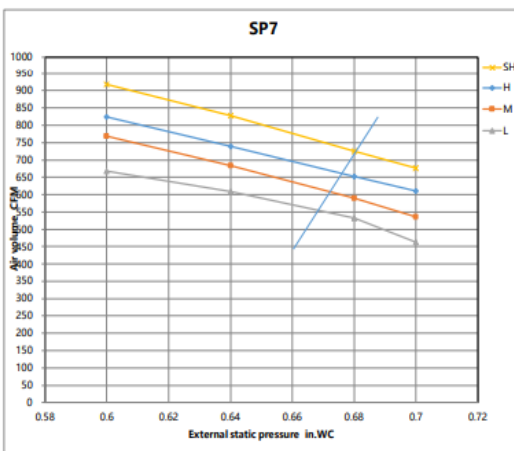
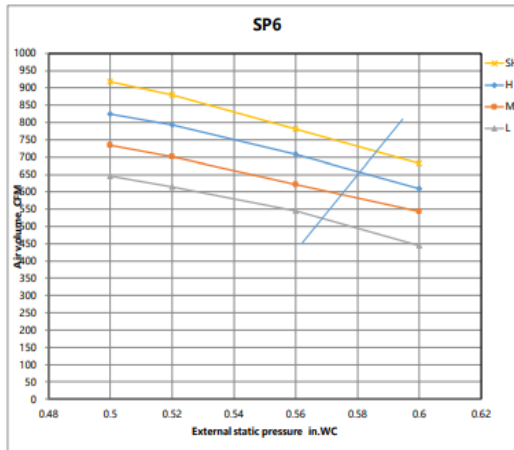
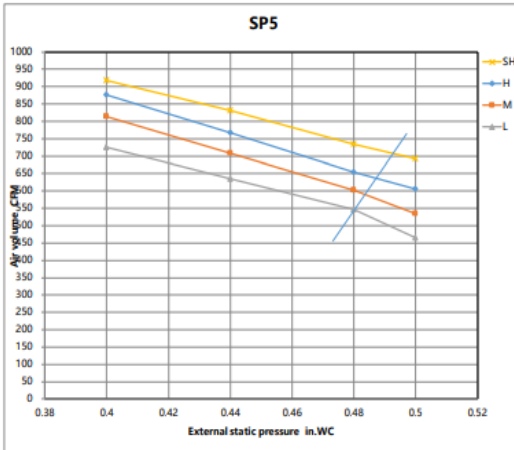
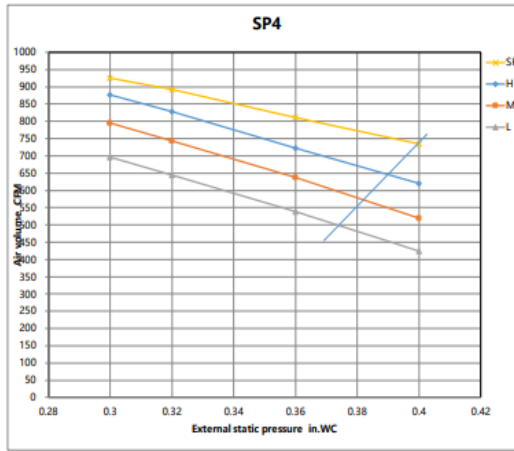
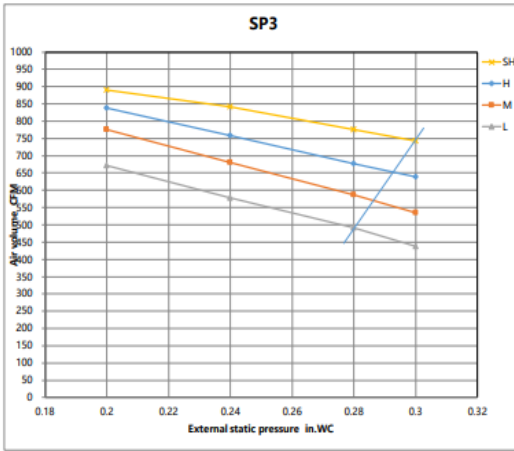
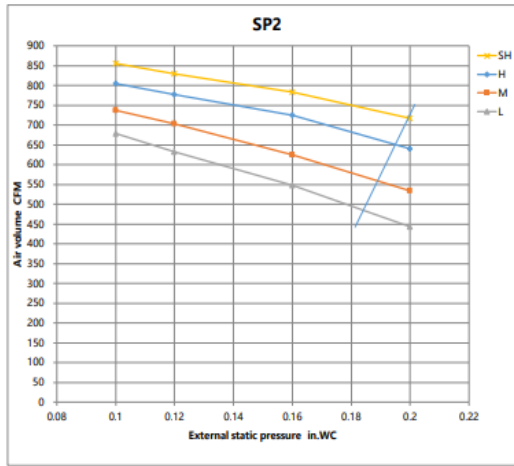
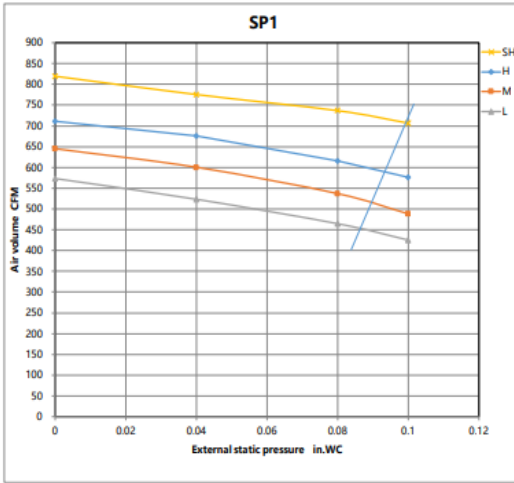


### Outside Unit Installation Instructions

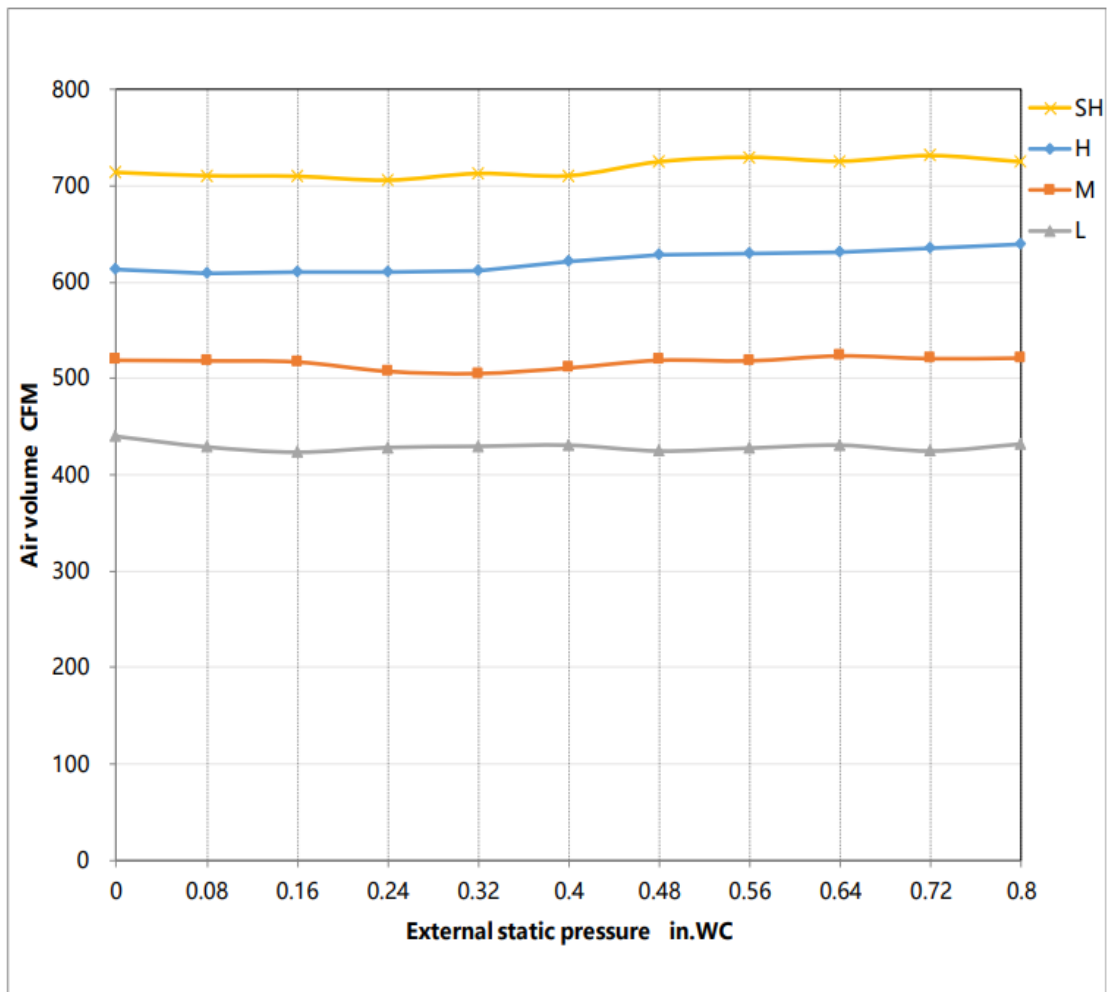


Meets all spatial requirements shown in Installation Clearance Requirements above.

Indoor Unit Fan Performance



## 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.