

OMEGA Commercial AHU

SUBMITTAL DATA

208~230V/3/60Hz

Job: _____
Location: _____
Schedule No.: _____
System Designation: _____

Engineer: _____
Architect: _____
Location: _____
Date: _____

Approval Review Construction

FEATURES

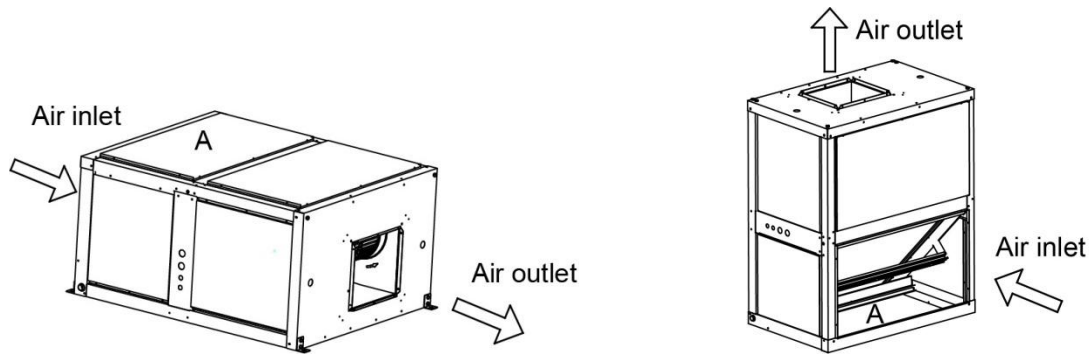
- Vertical/ Horizontal Installation.
- 4 Washable Filters.
- TXV (Thermal Expansion Valves).
- Variable Speed Pulley.
- 24V Control Signal.
- Easy Maintenance.



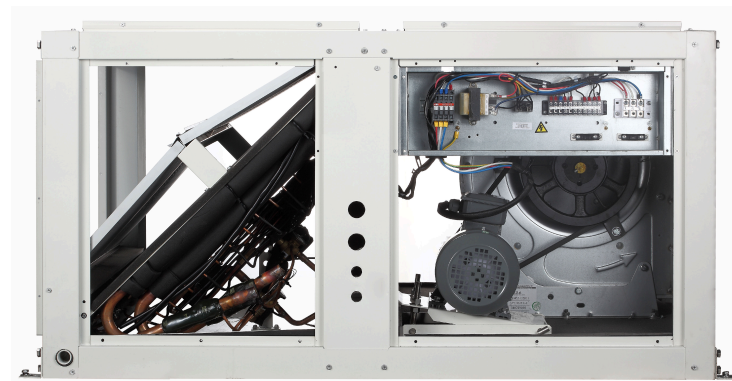
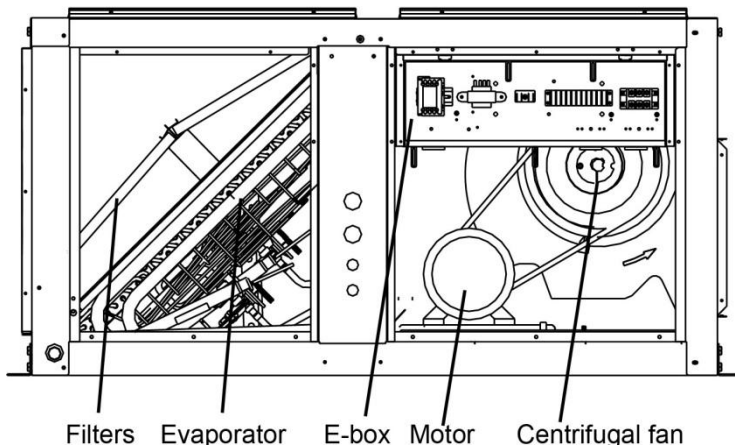
1. Features

- ✧ Flexible installation, horizontal installation as default, vertical installation is available.

As default, the airflow intake is from the rear of the unit. Then the unit can be installed as horizontal type. When panel A is moved to rear side, the airflow intake is changed to rear-top side. The unit could be installed as vertical type.



- ✧ Variable speed pulley.
 - ✓ Change the speed of a rotating shaft member, so it will increase or decrease the revolutions per minute of that particular shaft to adjust CFM as required.
 - ✓ The external static pressure can be adjusted up to 200Pa.
- ✧ 4 washable filters (grade G3) as standard, easy to maintenance.
- ✧ 24V control signal between IDU and ODU, more safety.
- ✧ Air inlet and outlet flanges are standard and easy for duct connection.
- ✧ TXV (Thermal Expansion Valves) as standard, wired controller as optional.
- ✧ R410A refrigerant, environmentally friendly.
- ✧ Easy maintenance, Inlet & outlet pipe of evaporator, control box, fan and motor are in same side.



2. Specifications

Model		SEVA120C4A-DCN350	
Power supply		\	220V~, 3Ph, 60Hz
Cooling	Capacity	Btu/h	119,400
		W	35,000
	Input	W	12,100
	EER	W/W	2.89
Rated input (IDU)		W	1,800
Rated current (IDU)		A	7.8
Indoor air flow		CFM [L/s]	4,000 [1,889]
IDU standard external static pressure		In.H ₂ O [Pa]	0.30 [75]
External static pressure range		In.H ₂ O [Pa]	0.1~0.8 [24.9~199.2]
Indoor noise level		dB(A)	60
Refrigerant type		\	R410A
Refrigerant control		\	TXV
Fan	Type	\	Centrifugal fan
	Diameter	In. [mm]	12-3/16 [Φ309]
	Width	In. [mm]	12-1/8 [308]
motor	Motor model (xQuantity)	\	YE2-90L-4 (x1)
	Speed (Hi/med/lo)	r/min	1,680
Coil	Fin type	\	Hydrophilic aluminum fin
	Tube type	\	Inner grooved copper pipe
	Tube size	In. [mm]	1/4 [Φ7]
	No. of rows	\	3
	Fin per Inch [mm]	\	17 [0.67]
	Tube pitch(a)xrow pitch(b)	In. [mm]	13/16x1/2 [21x13.37]
	Face area	sq. feet [m ²]	8.2 [0.758]
	Number of circuits	\	10+10
Design pressure		Pa	4.4/2.6
Controller		\	KJR-25B (Wired controller) (Optional)
Refrigerant pipe (Liquid/ Gas)		In. [mm]	1/2, 1-1/8 [Φ12.7, Φ28.6]
Drain pipe size		\	3/4" NPT Female
Power wire (IDU)		\	3x2.5mm ² +1x1.0mm ²
Sign wire (IDU & ODU)		\	2x1.0mm ²
Dimension (WxHxD)		In. [mm]	44-7/8x28-3/8x57-1/8 [1,139x721x1,450]
Packing (WxHxD)		In. [mm]	45-1/16x34-1/8x57-7/8 [1,145x867x1,470]
Net/Gross weight		Lbs. [kg]	375/443 [170/201]

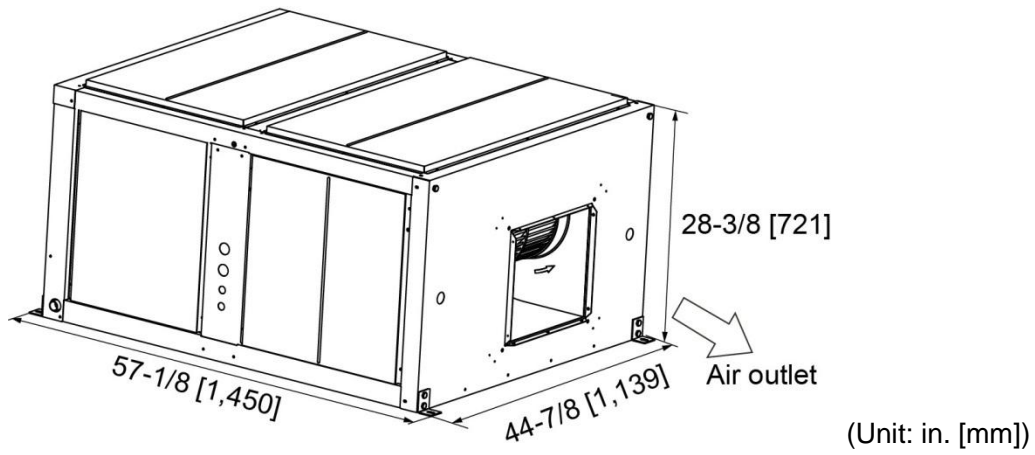
Notes:

1. Nominal cooling capacities are based on the following conditions:

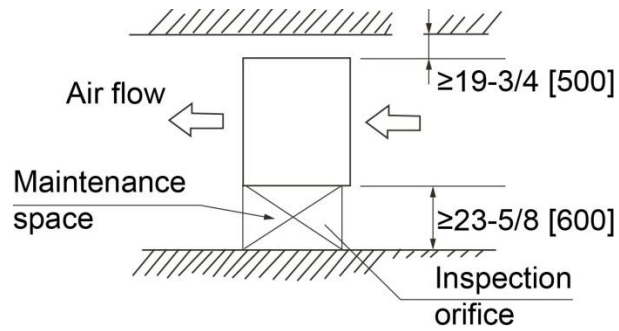
Indoor Temp.: 27°CDB, 19°CWB; Outdoor Temp.: 35°CDB, 24°CWB; Equivalent refrigerant pipe: 7.5m (horizontal).

2. Specifications are subject to change without prior notice for product improvement.

3. Dimensions



4. Service Space



Top view (Unit: in. [mm])

5. Wiring Diagrams

