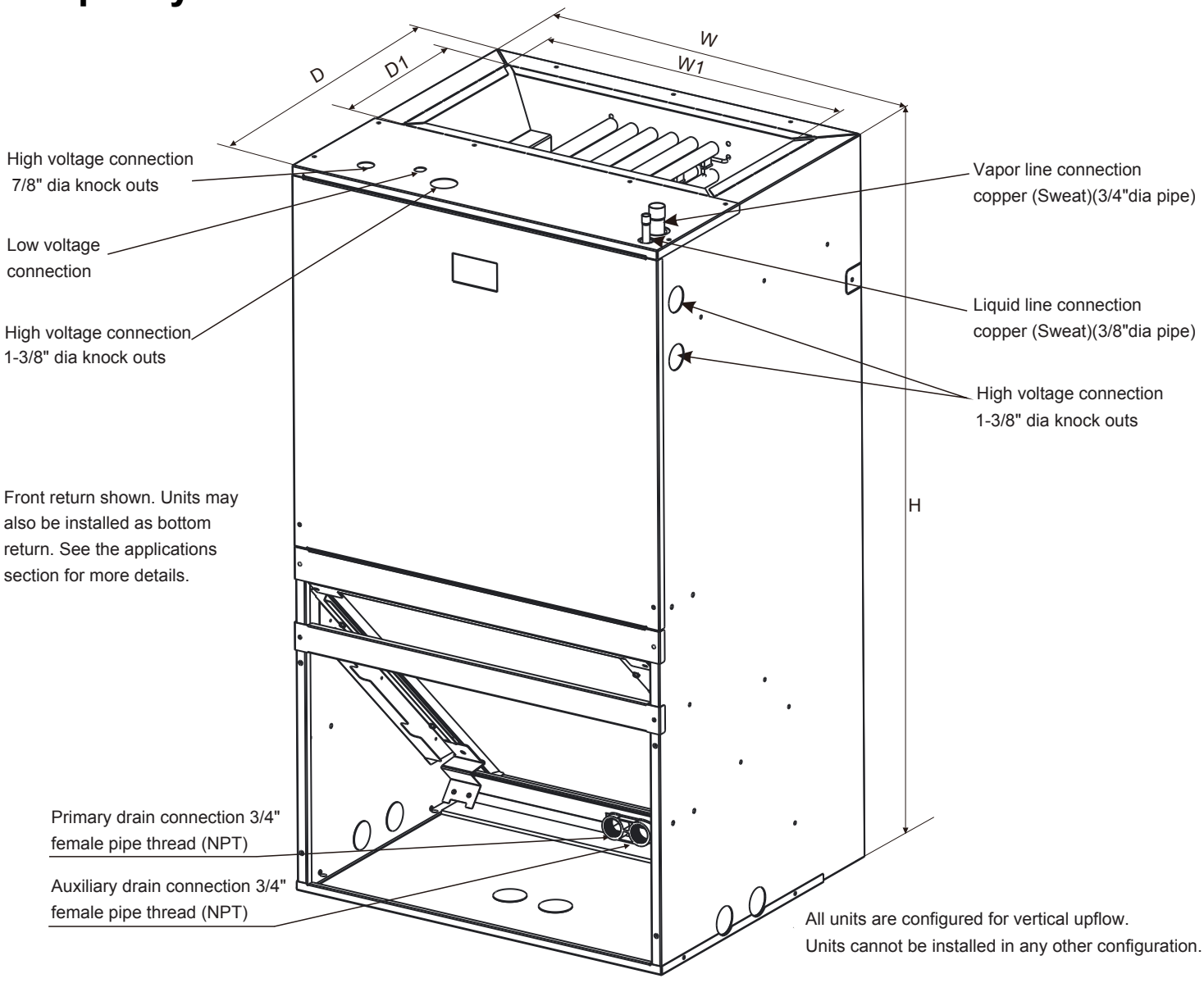
FAHC3614BA15

Submittal

TAG:

Air Handler
FAHC3614BA15
Capacity: 36 kBTU/h



DIMENSIONAL DATA

Model	Dimensions-In.(mm)					Unit Weight/ Shipping Weight Lbs.(kg)
	Height H	Width W	Width W1	Depth D	Depth D1	
36K	39-3/5 (1006)	22(559)	18-4/5(477)	19(485)	10 (251)	112/123 (51 /56)

Product Specifications

INDOOR UNIT	FAHC3614BA15
NOMINAL RATING	
Cooling (BTU/h)	33000
External Static(in.w.c.)	0-0.8
ELECTRICAL DATA	
Voltage/Phase/Hz	208/230/1/60
Min. / Max. Voltage	187/253
MCA	4.8
MOP	6
EVAPORATOR COIL	
Type	Copper Tube & Fin
Tube Size(in.)	9/32
Refrigerant Control	Orifice
FAN MOTOR	
Motor Type	ECM
Horsepower (HP)	1/2
Full Load Amps (FLA)	2.7
Capacitor (uF)	/
Rated RPM	1000
REFRIGERATION SYSTEM	
Refrigerant	R454B
Liquid Line Size (O.D.)	3/8
Suction Line Size (O.D.)	3/4
FAN BLOWER	
Type	Centrifugal
Diameter (in.)	11
Height (in.)	10
DIMENSIONS	W×D×H
Unit	22×19-1/10×39-3/5
Packing	24-3/5×21-3/5×42-9/10
WEIGHT	
SHIPPING (LBS.)	123
NET (LBS.)	112

Airflow Data

Model	Blower Speeds	External Static Pressure (in.w.c.)								
		0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
36K/ 3Ton	1	1005	960	926	862	811	735	687	636	600
	2	1103	1061	1030	982	930	880	810	762	716
	3	1220	1180	1150	1115	1069	1016	963	895	850
	4-Factory Default	1323	1296	1262	1230	1200	1153	1106	1053	993
	5	1432	1407	1371	1346	1312	1272	1235	1180	1119

--- Shaded boxes represent airflow outside the required 300-450 cfm/ton, which are not recommended.

NOTES:
1. Airflow based upon dry coil at 230V with no electric heat and no filter. For 18, 24, 30 and 36 sizes, airflow at 208V is approximately the same as 230V because the mult-tap ECM motor is a constant torque motor. The torque doesn't drop off at the speeds in which the motor operates.
2. Airflow is equivalent for front or bottom return configurations.
3. The air distribution system has the greatest effect on airflow. The duct system is totally controlled by the contractor. For this reason, the contractor should use only industry-recognized procedures.
Heat pump systems require a specified airflow. Each ton of cooling requires between 350 and 450 cubic feet of air per minute (CFM), or 400 CFM nominally.
4. Duct design and construction should be carefully done. System performance can be lowered dramatically through bad planning or workmanship. Air supply diffusers must be selected and located carefully. They must be sized and positioned to deliver air along the perimerter of the space. If they are too small for their intended airflow, they become noisy. If they are not located properly, they cause drafts. Air grilles must be properly sized to carry air back to the blower.If they are too small, they also cause noise. The installers should balance the air distribution system to ensure proper quiet airflow to all rooms in the home. This ensures a comfortable living space.
5. Shaded boxes represent airflow outside the required 300-450 cfm/ton.

Electrical Data

Electrical Data for Regular Air Handlers					
Model	Heater Kit Usage	MCA (Min. Circuit Ampacity)		MOP (Max. Fuse or Breaker (HACR) Ampacity)	
		208V	**230V**	**208V**	**230V**
FAHC3614BA15	WFM0502BE / 5kW	23.1	25.1	25	30
	WFM0802BE / 7.5kW	35.3	38.5	40	40
	WFM1002BE / 10kW	46.3	50.3	50	60

Note:
1. Heat kit suitable for Wall-Mounted installation.
2. Ampacities for MCA and Fuse/breaker excluding the blower motor.

Standard Features:

a. R454B environmentally friendly refrigerant.

b. Metal shell and glass cotton thermal insulation layer.

c. 24V communication.

d. Front or bottom return air.

e. Braze in Refrigerant Connection.

f. All use DC motors.

g. Inner-groove copper tube and high -efficiency aluminumfin fin.

h. Refrigerant Leakage Detection. Ensure safe use of the unit.

i. AHRI certified and ETL listed.

Optional Features:

a. Electrical heater kits are optional: 5/7.5/10kW.

b. TXV is optional.