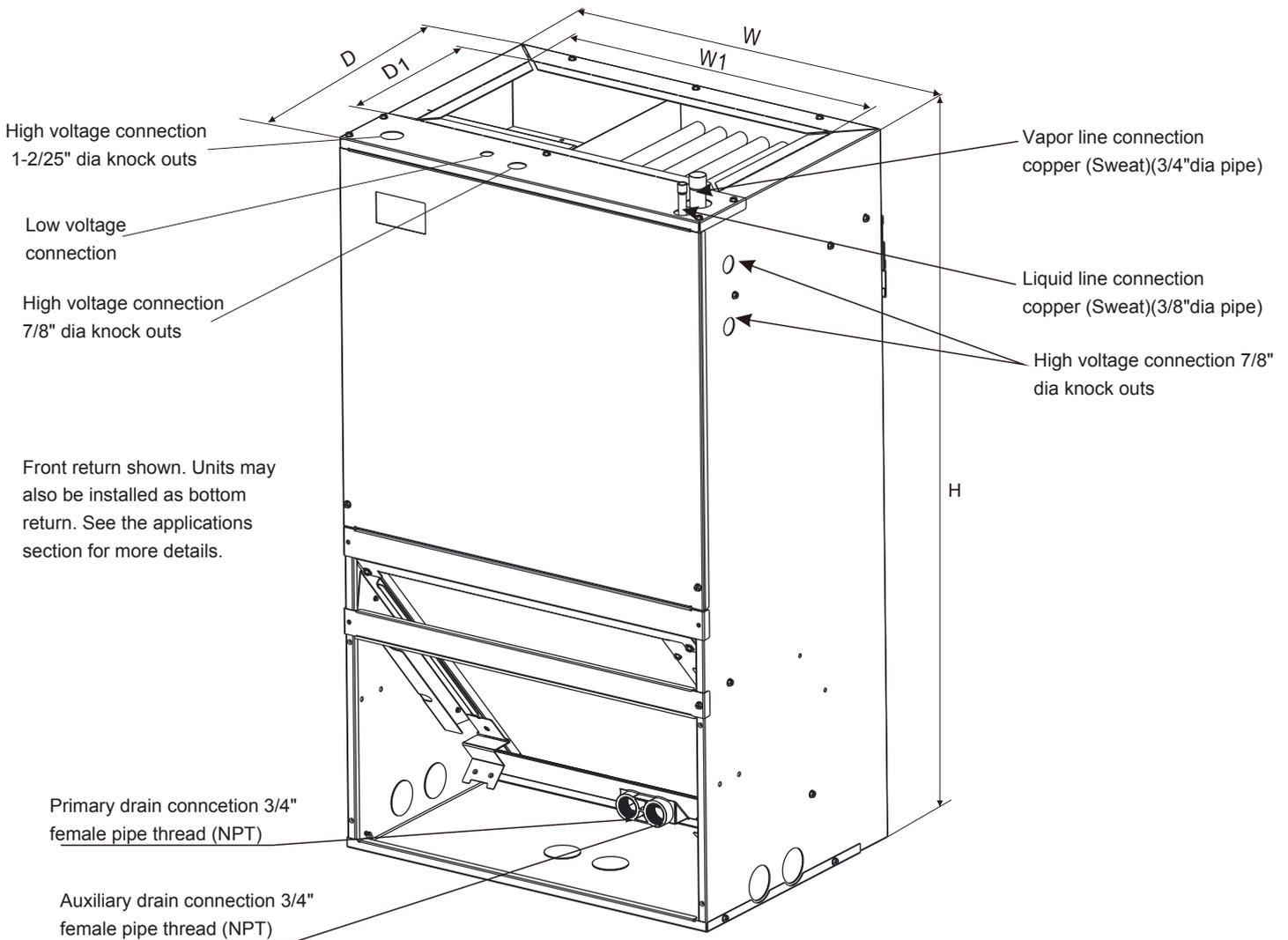


# Submittal

TAG:

## Air Handler FAHC2414BA15 Capacity: 24 kBTU/h



All units are configured for vertical upflow.  
Units cannot be installed in any other configuration.

### DIMENSIONAL DATA

Model	Dimensions-In.(mm)					Unit Weight/ Shipping Weight Lbs.(kg)
	Height H	Width W	Width W1	Depth D	Depth D1	
24K	36 (915)	20-1/2(522)	17-2/5 (442)	15(381)	9-3/5 (244)	88/97 (40/44)



## Product Specifications

INDOOR UNIT	FAHC2414BA15
<b>NOMINAL RATING</b>	
Cooling (BTU/h)	22000
External Static(in.w.c.)	0-0.8
<b>ELECTRICAL DATA</b>	
Voltage/Phase/Hz	208/230/1/60
Min. / Max. Voltage	187/253
MCA	4.2
MOP	6
<b>EVAPORATOR COIL</b>	
Type	Copper Tube & Fin
Tube Size(in.)	9/32
Refrigerant Control	Orifice
<b>FAN MOTOR</b>	
Motor Type	ECM
Horsepower (HP)	1/3
Full Load Amps (FLA)	2.2
Capacitor (uF)	/
Rated RPM	960
<b>REFRIGERATION SYSTEM</b>	
Refrigerant	R454B
Liquid Line Size (O.D.)	3/8
Suction Line Size (O.D.)	3/4
<b>FAN BLOWER</b>	
Type	Centrifugal
Diameter (in.)	11
Height (in.)	6
<b>DIMENSIONS</b>	
Unit	W×D×H 20-1/2×15×36
Packing	23-1/5×17-7/10×39-2/5
<b>WEIGHT</b>	
SHIPPING (LBS.)	97
NET (LBS.)	88



## 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
24K/ 2Ton	1	806	776	735	698	664	618	581	527	473
	2	893	854	815	788	749	721	678	640	595
	3-Factory Default	997	962	934	900	873	839	814	781	740
	4	1099	1068	1042	1010	985	952	926	896	857
	5	1156	1125	1098	1067	1038	1008	982	949	893

--- 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 multi-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 perimeter 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
FAHC2414BA15	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.

