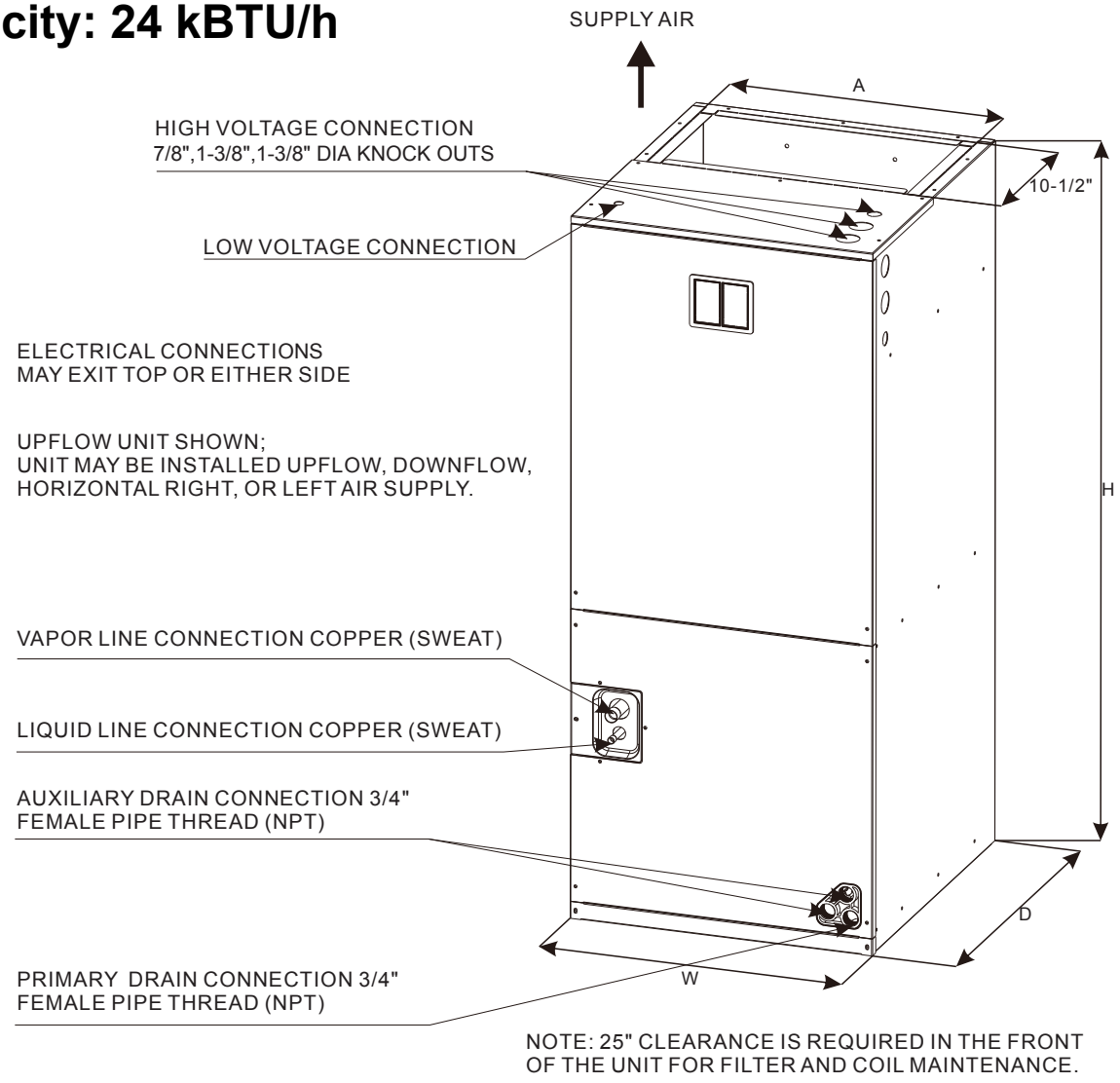
AHC2414BA15

Submittal

TAG:

Air Handler
AHC2414BA15
Capacity: 24 kBTU/h



NOTE: 25" CLEARANCE IS REQUIRED IN THE FRONT OF THE UNIT FOR FILTER AND COIL MAINTENANCE.

DIMENSIONAL DATA

MODEL SIZE	Dimensions inch[mm]				
	UNIT HEIGHT "H" IN. [mm]	UNIT WIDTH "W" IN.[mm]	UNIT LENGTH "D" IN. [mm]	SUPPLYDUCT "A" IN[mm]	LIQUID LINE/ VAPOR LINE IN
24K	45-3/4"[1162]	19-5/8"[500]	22"[560]	17-7/8"[454]	3/8" / 3/4"

Product Specifications

INDOOR UNIT	AHC2414BA15
NOMINAL RATING	
Cooling (BTU/h)	22000
External Static(in.w.c.)	0-0.8
ELECTRICAL DATA	
Voltage/Phase/Hz	208/230/1/60
Min. / Max. Voltage	187/253
MCA	2.4
MOP	3
EVAPORATOR COIL	
Type	Copper Tube & Fin
Tube Size(in.)	9/32
Refrigerant Control	Orifice
FAN MOTOR	
Motor Type	PSC
Horsepower (HP)	2/7
Full Load Amps (FLA)	1.7
Capacitor (uF)	10
Rated RPM	910
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.)	11
DIMENSIONS	W×D×H
Unit	19-2/3×22×45-3/4
Packing	22-5/6×25-3/5×47-5/8
WEIGHT	
SHIPPING (LBS.)	139
NET (LBS.)	128

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	L-Factory Default	1215	1157	1097	1028	887	805	725	597	444
	M	1259	1236	1179	1113	972	875	799	696	527
	H	1382	1324	1265	1199	1118	956	871	777	645

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

Note:
1. The advanced airflow must be used as the rated airflow for the full-load operation of the machine.
2. The rated airflow of a system without an electric heater kit requires 300 to 450 cubic feet of air per minute (CFM).
3. The rated airflow of a system with an electric heater kit requires 350 to 450 cubic feet of air per minute(CFM).
4. The air distribution system has the greatest influence on air flow. Therefore, the contractor should only use the procedures recognized by the industry.
5 The design and construction of air duct should be done carefully. Poor design or process will lead to a significant decline in system performance.
6. The air supply duct should be set along the periphery of the air-conditioned space with appropriate size. Improper location of insufficient airflow may lead to insufficient ventilation or noise in the pipeline system.
7. The installer should balance the air distribution system to ensure that all rooms in the room have proper quiet airflow. The speedometer or airflow hood can be used to balance and verify the branch pipe and system airflow (CFM).

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**
AHC2414BA15	WTM0502BE / 5kW	22.8	24.9	25	25
	WTM0802BE / 7.5kW	34.8	37.9	35	40
	WTM1002BE / 10kW	45.4	49.8	50	50

Note:
1. Heat kit suitable for AHU 4-way position 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. Multi-Position UP/Down Flow Horizon -tal Left /Right.

e. Braze in Refrigerant Connection.

f. Horizontal and vertical condensate drain pans standard.

g. Inner-groove copper tube and high -efficiency aluminumfin Coil with Integrated Slide Deck for Easy Removal.

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

i. AHRI certified and ETL listed.

Optional Features:

a. Electrical heater kits are optional: 5/7.5/10/15/20kW.

b. TXV is optional.