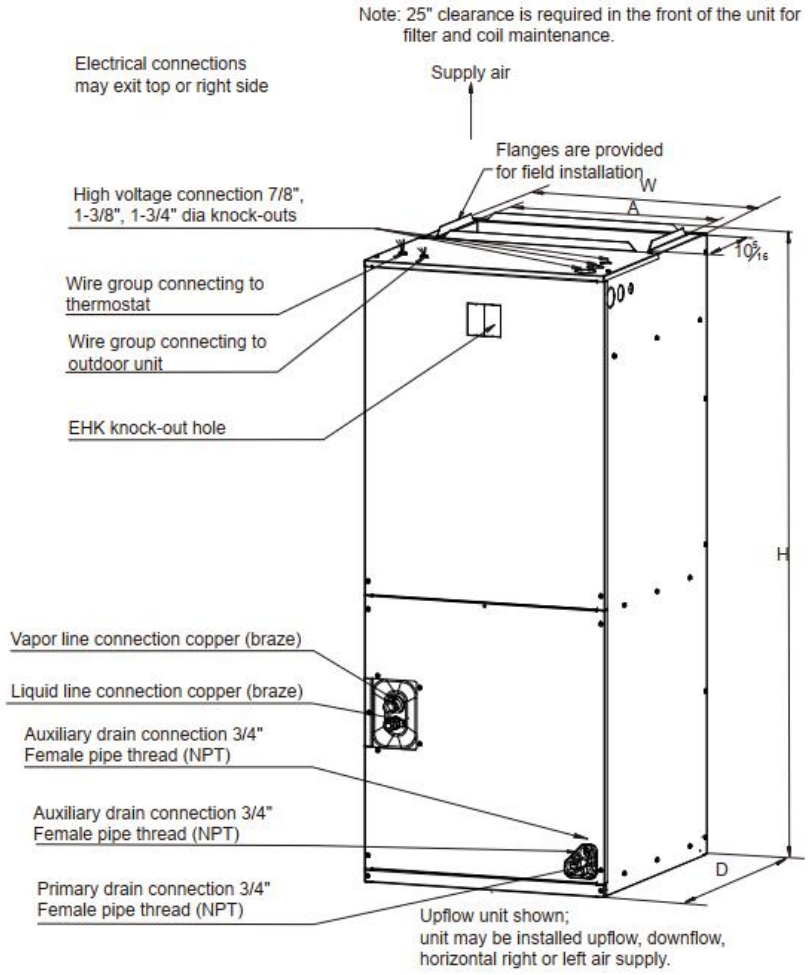
Submittal

TAG:

High-Efficiency Air Handlers
T4AH Series
Cooling capacity: 18-60 kBTU/h



Model Size	Unit Height "H" in. [mm]	Unit Width "W" in. [mm]	Unit Length "D" in. [mm]	Supply Duct "A"	Unit Weight (lbs.[kg])
T4AH4P19A000A	41-3/8'' [1050]	18-1/8'' [460]	20-1/2'' [520]	16'' [406]	108 [49]

Specifications

	T4AH4P19A000A
NOMINAL RATING	
Cooling (BTU/h)	18000
CFM (High/Low range)	600
External Static Pressure (in.w.c) [Pa]	0.58 [145]
ELECTRICAL DATA	
Voltage / Phase(60Hz)	208V/230V-1ph-60Hz
Min. / Max. Voltage (V)	187/253
Min. Circuit Amps (MCA) (A)	1.8
Max. Overcurrent Protection (MOP) (A)	15
FAN MOTOR	
Motor Type	PSC
Capacitor (uF)	6
Horsepower (HP)	1/5
Rated RPM	755
Full Load Amps (FLA) (A)	1.4
FAN BLOWER	
Material	Metal
Type	Centrifugal
Diameter(in.) [mm]	10 [278.5]
Height(in.) [mm]	8 [207]
Coil Drain Connection FPT (in.)	3/4
EVAPORATOR COIL	
Type	Aluminum-Hydrophilic Aluminum
Tube Material	Aluminum
Tube Size (in.)	9/32
SOUND POWER (dB)	65
REFRIGERANT CONNECTION SIZE	
Liquid Line Size (O.D.) (in.)	3/8
Suction Line Size (O.D.) (in.)	3/4
DIMENSIONS	
Width (In.) [mm]	18-1/8 [460]
Height (In.) [mm]	41-3/8 [1050]
Depth (In.) [mm]	20-1/2 [520]
packaging dimension (W × H × D) (In.) [mm]	20-3/4 × 42 × 24-3/16 [527 × 1067 × 614]
Service Valve	
Liquid (in.)	3/8
Suction (in.)	3/4
Weight	
Net weight (lbs.) [kg]	108 [49]
Shipping weight (lbs.) [kg]	121 [55]

Airflow Data

Model Number	Outdoor Unit Size (Ton)	Motor Speed		CFM Wet Coil Without Filter and Electric Heat								
				External Static Pressure (in w.c)								
				0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
T4AH4P19A 000A	1.5	Low	Current / A	0.90	0.89	0.87	0.85	0.83	0.81	0.79	0.75	0.7
			Power / W	2S07	203	198	191	187	182	173	162	151
			CFM	649	618	586	548	509	467	420	350	283
		Medium	Current / A	1.04	1.01	0.99	0.97	0.94	0.92	0.89	0.87	0.82
			Power / W	243	236	230	224	218	210	204	198	184
			CFM	815	796	758	720	677	624	573	522	421
		High	Current / A	1.34	1.31	1.28	1.25	1.22	1.19	1.15	1.12	1.09
			Power / W	313	305	297	289	280	270	259	250	242
			CFM	945	933	897	855	811	757	692	633	566

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

NOTES: Airflow based upon cooling performance at 230V with no electric heat and no filter.

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 for electric heat operating. Each ton of cooling requires between 350 and 450 cubic feet of air per minute (CFM), or 400 CFM nominally.

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 treated 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. Return 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.

An air velocity meter or airflow hood can be used to balance and verify branch and system airflow (CFM).

IMPORTANT:

1. If unit is converted to downflow, the airflow for model 18 must be between 350 and 450 cfm/ton.
2. When model 42 used for mobile home, you need to ensure that the air volume is not less than 1335 CFM.
3. When model 48 used for mobile home, you need to ensure that the air volume is not less than 1584 CFM.

Features

- High heat-transfer efficiency and low static-pressure drop A-shaped coil.
- Foil-faced insulation to prevent energy loss through the cabinet.
- Factory-sealed cabinet certified to achieve 2% or less air leakage rate at 1.0-inch water column.
- Multi-stage blower Speed Control to align with varying capacity demands.
- 4-position installation: Upflow, Horizontal Right, Downflow, Horizontal Left.
- Horizontal and vertical condensate drain pans standard, primary and secondary condensate fittings.
- Field-installed electric heater kits 5, 7.5, 10, 15, 20 kW available as accessories. Multiple electrical entry locations.
- Dual front panel, volute and coil with slide track, TXV with threaded connection for easy maintenance.
- Integrated filter rack with toolless door access.
- Easy-to-braze copper evaporator connection.
- TXV designed for easy piston replacement.
- All-aluminum heat exchanger extends product lifetime.
- Advanced internal welding process to reduce potential corrosion.
- AHRI and ETL listed.
- Polymer condensate drain pan with UVC inhibitor to extends product lifetime.
- Fully-insulated cabinet design.
- R454B refrigerant sensor ensures safe operation.
- R454B refrigerant sensor is factory-installed, making unit suitable for more room types and applications.