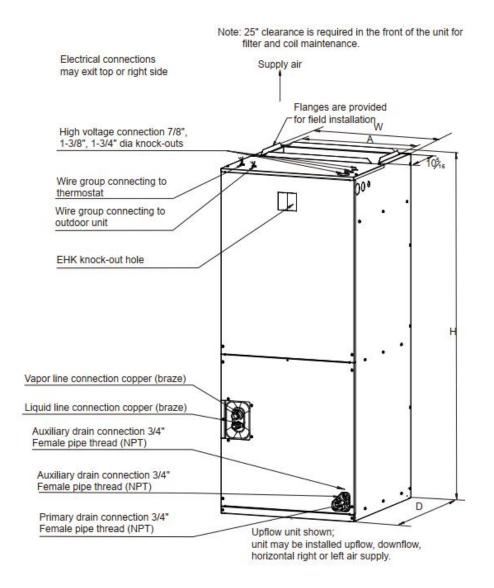
Submittal

TAG:

High-Efficiency Air Handlers T4AH Series

Cooling capacity: 24-60 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])	
T4AH4E43B000A	46-1/2 [1180]	19-5/8 [500]	21-5/8 [550]	18 [456]	121 [55]	

Specifications

	T4AH4E43B000A				
NOMINAL RATING					
Cooling (BTU/h)	34200				
CFM (High/Low range)	1240				
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)	4.2				
Max. Overcurrent Protection (MOP) (A)	15				
FAN MOTOR					
Motor Type	ECM				
Capacitor (uF)	/				
Horsepower (HP)	1/2				
Rated RPM	1050				
MOC	3.3				
FAN BLOWER					
Material	Metal				
Туре	Centrifugal				
Diameter(in.) [mm]	10 [278.5]				
Height(in.) [mm]	10 [271]				
Coil Drain Connection FPT (in.)	3/4				
EVAPORATOR COIL					
Туре	Aluminum-Hydrophilic Aluminum				
Tube Material	Aluminum				
Tube Size (in.)	9/32				
SOUND POWER (dB)	70				
REFRIGERANT CONNECTION SIZE					
Liquid Line Size (O.D.) (in.)	3/8				
Suction Line Size (O.D.) (in.)	3/4				
DIMENSIONS					
Width (In.) [mm]	19-5/8 [500]				
Height (In.) [mm]	46-1/2 [1180]				
Depth (In.) [mm]	21-5/8 [550]				
Packaged dimension (W × H × D) (In.) [mm]	22-5/16 × 47-1/8 × 25-3/8 [567 × 1197 × 644]				
SERVICE VALVE					
Liquid (in.)	3/8				
Suction (in.)	3/4				
WEIGHT					
Net weight (lbs.) [kg]	121 [55]				
Shipping weight (lbs.) [kg]	134 [61]				

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
T4AH4E43B000A	2.5	1	Current / A	1.05	1.09	1.14	1.19	1.27	1.33	1.4	/	/
			Power / W	113	119	126	133	144	151	158	/	/
			CFM	1013	946	891	823	709	634	566	/	/
		2	Current / A	1.45	1.5	1.56	1.61	1.66	1.76	1.83	1.89	1.95
			Power / W	166	174	181	188	195	208	218	255	234
			CFM	1180	1123	1072	1023	969	865	794	733	674
		3	Current / A	1.87	1.93	1.99	2.05	2.1	2.15	2.25	2.35	2.42
			Power / W	224	232	240	248	255	262	276	288	299
			CFM	1335	1283	1231	1189	1146	1093	1009	923	864
		4	Current / A	2.42	2.49	2.55	2.61	2.67	2.73	2.79	2.87	2.99
			Power / W	299	308	317	325	334	342	350	361	378
			CFM	1484	1437	1386	1347	1309	1271	1231	1176	1075
		5	Current / A	2.92	2.99	3.07	3.14	3.19	3.25	3.35	3.49	3.50
			Power / W	369	378	388	397	404	411	424	441	443
			CFM	1560	1520	1480	1442	1403	1378	1323	1248	1179
T4AH4E43B000A	3	1	Current / A	1.05	1.09	1.14	1.19	1.27	1.33	1.4	/	/
			Power / W	113	119	126	133	144	151	158	/	/
			CFM	1013	946	891	823	709	634	566	/	/
		2	Current / A	1.45	1.5	1.56	1.61	1.66	1.76	1.83	1.89	1.95
			Power / W	166	174	181	188	195	208	218	225	234
			CFM	1180	1123	1072	1023	969	865	794	733	674
		3	Current / A	1.87	1.93	1.99	2.05	2.1	2.15	2.25	2.35	2.42
			Power / W	224	232	240	248	255	262	276	288	299
			CFM	1335	1283	1231	1189	1146	1093	1009	923	864
		4	Current / A	2.42	2.49	2.55	2.61	2.67	2.73	2.79	2.87	2.99
			Power / W	299	308	317	325	334	342	350	361	378
			CFM	1484	1437	1386	1347	1309	1271	1231	1176	1075
		5	Current / A	2.92	2.99	3.07	3.14	3.19	3.25	3.35	3.49	3.50
			Power / W	369	378	388	397	404	411	424	441	443
			CFM	1560	1520	1480	1442	1403	1378	1323	1248	1179

⁻⁻⁻ 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 or filter. Airflow at 208V is approximately the same as 230V because the multi-tap ECM motor provides constant torque with no drop off relative to motor operating speed.

The air distribution system has the greatest effect on airflow and is in the control of the installing 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 poor 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 would 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 can cause noise.

Installers should balance the air distribution system to ensure sufficient, quiet airflow to all spaces to ensure maximum occupant comfort.

An air velocity meter or airflow hood can be used to balance and verify branch and system airflow (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.
- Multi-speed constant-torque ECM motor.
- 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.









