

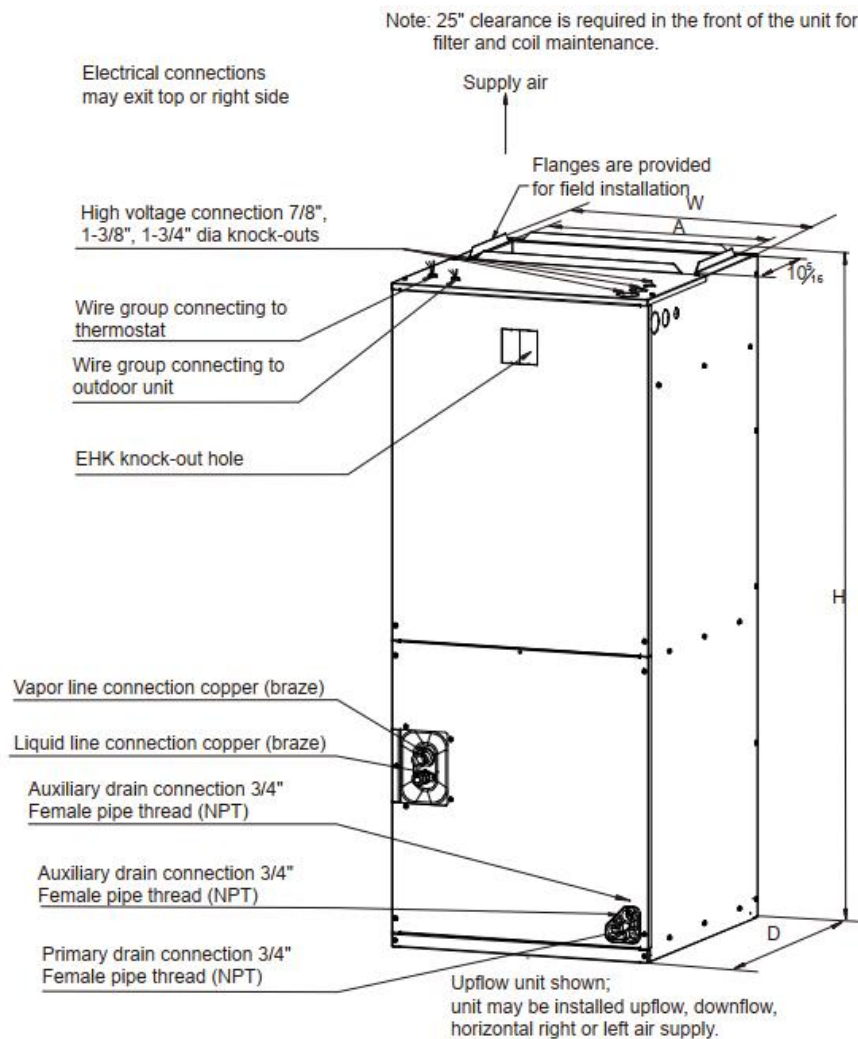
# Submittal

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])
T4AH4E25A000A	41-3/8 [1050]	18-1/8 [460]	20-1/2 [520]	16 [406]	101 [46]

# Specifications

	<b>T4AH4E25A000A</b>
<b>NOMINAL RATING</b>	
Cooling (BTU/h)	23200
CFM (High/Low range)	740
External Static Pressure (in.w.c) [Pa]	0.58 [145]
<b>ELECTRICAL DATA</b>	
Voltage / Phase(60Hz)	208V/230V-1ph-60Hz
Min. / Max. Voltage (V)	187/253
Min. Circuit Amps (MCA) (A)	3.3
Max. Overcurrent Protection (MOP) (A)	15
<b>FAN MOTOR</b>	
Motor Type	ECM
Capacitor (uF)	/
Horsepower (HP)	1/3
Rated RPM	1050
MOC	2.6
<b>FAN BLOWER</b>	
Material	Metal
Type	Centrifugal
Diameter(in.) [mm]	10 [278.5]
Height(in.) [mm]	8 [207]
Coil Drain Connection FPT (in.)	3/4
<b>EVAPORATOR COIL</b>	
Type	Aluminum-Hydrophilic Aluminum
Tube Material	Aluminum
Tube Size (in.)	9/32
<b>SOUND POWER (dB)</b>	
	67
<b>REFRIGERANT CONNECTION SIZE</b>	
Liquid Line Size (O.D.) (in.)	3/8
Suction Line Size (O.D.) (in.)	3/4
<b>DIMENSIONS</b>	
Width (In.) [mm]	18-1/8 [460]
Height (In.) [mm]	41-3/8 [1050]
Depth (In.) [mm]	20-1/2 [520]
Packaged dimension (W x H x D) (In.) [mm]	20-3/4 x 42 x 24-3/16 [527 x 1067 x 614]
<b>SERVICE VALVE</b>	
Liquid (in.)	3/8
Suction (in.)	3/4
<b>WEIGHT</b>	
Net weight (lbs.) [kg]	101 [46]
Shipping weight (lbs.) [kg]	112 [51]

# 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
MVME24A1MN100A	1.5	1	Current / A	0.63	0.67	0.7	0.74	0.77	0.81	0.84	0.88	0.9
			Power / W	72	78	82	87	92	97	102	107	112
			CFM	676	608	550	492	422	369	311	274	233
		2	Current / A	0.81	0.85	0.89	0.93	0.97	1	1.04	1.09	1.12
			Power / W	98	103	109	114	120	124	130	136	140
			CFM	770	717	666	615	552	512	457	406	364
		3	Current / A	1.14	1.18	1.22	1.26	1.31	1.36	1.41	1.45	1.49
			Power / W	143	148	154	159	166	172	178	183	189
			CFM	903	856	808	767	722	665	618	577	535
		4	Current / A	1.42	1.46	1.51	1.55	1.6	1.65	1.69	1.75	1.8
			Power / W	179	185	191	197	203	210	215	223	229
			CFM	987	945	900	861	821	766	737	677	636
		5	Current / A	1.66	1.71	1.76	1.81	1.86	1.91	1.95	2	2.06
			Power / W	211	217	224	230	237	244	249	255	264
			CFM	1055.6	1012.3	970.6	930.3	883.4	844.9	811.8	774.8	715.3
MVME24A1MN100A	2	1	Current / A	0.63	0.67	0.7	0.74	0.77	0.81	0.84	0.88	0.9
			Power / W	72	78	82	87	92	97	102	107	112
			CFM	676	608	550	492	422	369	311	274	233
		2	Current / A	0.81	0.85	0.89	0.93	0.97	1	1.04	1.09	1.12
			Power / W	98	103	109	114	120	124	130	136	140
			CFM	770	717	666	615	552	512	457	406	364
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			Power / W	211	217	224	230	237	244	249	255	264
			CFM	1056	1012	971	930	883	845	812	775	715

--- 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.

