TAG:

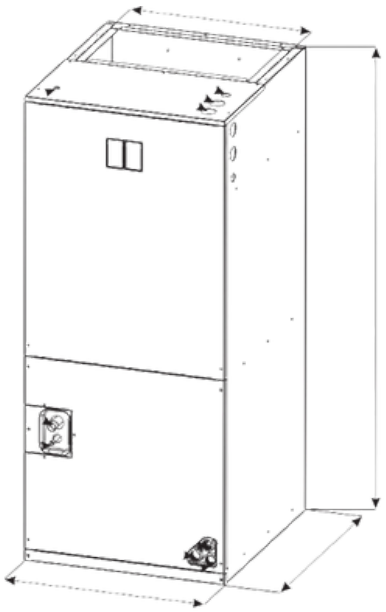
Submittal

4 / 5 Ton Multi-Position
Standard Air Handler (STD) - 1 Phase
*D4AH4P49E1B00**
*D4AH4E60E1B00**

Standard Features:

- Multi-stage blower Speed Control to align with varying capacity demands
- Multi-position installation: Upflow, Horizontal Right, Downflow, Horizontal Left.
- Horizontal and vertical condensate drain pans standard, primary and secondary condensate fittings. Optional electric heater kits: 5, 7.5, 10, 15, 20kW
- Slide out coil design for easy maintenance.
- Integrated filter rack with toolless door access.
- All-aluminum heat exchanger prevent for formicary corrosion.
- R32 refrigerant sensor is factory-installed, ensures safe operation.

FOR ILLUSTRATIVE PURPOSES ONLY



Model	W - inch [mm]	H - inch [mm]	L - inch [mm]	GAS VALVE SIZE in.	LIQUID VALVE SIZE in.
D4AH4P49E1B00*	22[560]	53-1/8[1350]	24-1/2[623]	7/8	3/8
D4AH4E60E1B00*	22[560]	53-1/8[1350]	24-1/2[623]	7/8	3/8

NOMINAL RATING	4Ton	5Ton
Cooling (BTU/h)	45,000	55,000
Rate CFM	1,450	1,520
External Static Pressure (in.w.c) [Pa]	0.5[125]	0.5[125]
ELECTRICAL DATA		
Voltage / Phase (60 Hz)	208/230/1	208/230/1
Min. / Max. Voltage	187/253	187/253
MCA	3.76	7.1
MOP	6	10
INDOOR UNIT COIL		
Type	Tube & Fin	Tube & Fin
Material	ALL-Aluminum	ALL-Aluminum
Tube Size (in.)	9/32	9/32
FAN MOTOR		
Motor Type	PSC	ECM
Capacitor(uF)	20	/
Horsepower (HP)	2/5	3/4
Full Load Amps (FLA)	3.01	6.5
BLOWER		
Material	Metal	Metal
Diameter(in.)	11	11
Coil Drain Connection FPT (in.)	3/4"	3/4"
REFRIGERATION CONNECTION		
Liquid Line Size (“O.D.)	3/8"	3/8"
Suction Line Size (“O.D.)	7/8"	7/8"
SHIPPING DIMMENTION - (IN.) [mm]		
Width	25-1/4[640]	25-1/4[640]
Height	54-15 /16[13 95]	54-15/16[1395]
Length	27-3/4[705]	27-3/4[705]
SHIPPING WEIGHT		
Shipping (LBS.) [kg]	181[82]	190[86]

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

Heater Kit Model	Electric Heater (kW)	Min. Circuit Ampacity		Max. Fuse or Breaker (HACR) Ampacity		REFERENCE AIR HANDLER USE	Min. Heating Blower Speed (AC/HP) PSC MOTOR		
		208V	230V	208V	230V		LOW	MEDIUM	HIGH
AEHK-05(STD)	5	22.8	24.9	25	25	48K (PSC)	✕	✕	●
AEHK-08(STD)	7.5	34.8	37.9	35	40	48K (PSC)	✕	✕	●
AEHK-10(STD)	10	45.4	49.8	50	50	48K (PSC)	✕	✕	●
AEHK-15(STD)	15	34.8/34.8	37.9/37.9	3 5 /35	40/40	48K (PSC)	✕	✕	●
AEHK-20(STD)	20	45.4/45.4	49.8/49.8	5 0 /50	50/50	48K (PSC)	✕	✕	●

✕ = Not available, ● = Available

Heater Kit Model	Electric Heater (kW)	Min. Circuit Ampacity		Max. Fuse or Breaker (HACR) Ampacity		REFERENCE AIR HANDLER USE	Min. Heating Blower Speed (AC/HP) ECM MOTOR				
		208V	230V	208V	230V		1	2	3	4	5
AEHK-05(STD)	5	22.8	24.9	25	25	48K (ECM)	✕	●	●	●	●
						60K (ECM)	✕	✕	✕	●	●
AEHK-08(STD)	7.5	34.8	37.9	35	40	48K (ECM)	✕	●	●	●	●
						60K (ECM)	✕	✕	✕	●	●
AEHK-10(STD)	10	45.4	49.8	50	50	48K (ECM)	✕	●	●	●	●
						60K (ECM)	✕	✕	✕	●	●
AEHK-15(STD)	15	34.8/34.8	37.9/37.9	3 5 /35	40/40	48K (ECM)	✕	●	●	●	●
						60K (ECM)	✕	✕	✕	●	●
AEHK-20(STD)	20	45.4/45.4	49.8/49.8	5 0 /50	50/50	48K (ECM)	✕	●	●	●	●
						60K (ECM)	✕	✕	✕	●	●

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AIR HANDLER MODEL	Motor Speed	AIR FLOW PERFORMANCE (PSC MOTOR)								
		External Static Pressure-Inches W.C. (kPa)								
			0(0)	0.1(.02)	0.2(.05)	0.3(.07)	0.4(.10)	0.5(12)	0.6(.15)	0.7(.17)	0.8(.20)
48K	Low	CFM	1460	1380	1300	1230	1150	1070	990	910	830
	Medium	CFM	1790	1700	1610	1520	1430	1340	1250	1160	1070
	High (*)	CFM	2120	2020	1920	1830	1730	1640	1540	1440	1350

(*) = Factory Default

Note:

1. Airflow ratings are based on dry coil operation at 230V, without electric heat or filter. Verify that line voltage remains stable at the rated 230V to ensure consistent air delivery.
2. System airflow requirement: 300–450 CFM per ton. (Note: Indoor Units equipped with electric heat kits require 350–450 CFM per ton.)
3. Rated airflow must be maintained during full-load operation of the equipment.
4. The duct system has the greatest impact on delivered airflow. Since the duct system is fully controlled by the contractor, only industry-recognized procedures should be applied.
5. Duct design and installation must be performed carefully. Improper layout or poor workmanship can reduce system capacity and efficiency.
6. Supply ducts and diffusers must be properly sized and located along the perimeter of the conditioned space. Undersized or misapplied diffusers can cause noise, drafts, or inadequate ventilation. Return grilles must also be correctly sized to provide sufficient airflow back to the blower.
7. The installer must balance the air distribution system to ensure quiet, uniform airflow throughout all zones. Air balancing should be verified using appropriate test instruments.

Important:

1. When model 48 used with electrical heater kit model 15kW and 20kW, you need to ensure that the air volume is not less than 1415 CFM.

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AIR HANDLER MODEL	Motor Speed	AIR FLOW PERFORMANCE (ECM MOTOR)								
		External Static Pressure-Inches W.C. (kPa)								
			0(0)	0.1(.02)	0.2(.05)	0.3(.07)	0.4(.10)	0.5(12)	0.6(.15)	0.7(.17)	0.8(.20)
48K	2	CFM	1404	1360	1316	1267	1219	1170	1136	1051	964
	3	CFM	1585	1544	1503	1467	1431	1388	1344	1288	1231
	4(*)	CFM	1730	1689	1655	1621	1587	1549	1514	1457	1416
	5	CFM	1887	1852	1815	1780	1745	1707	1681	1599	1517
60K	2	CFM	1404	1360	1316	1267	1219	1170	1136	1051	964
	3	CFM	1585	1544	1503	1467	1431	1388	1344	1288	1231
	4(*)	CFM	1730	1689	1655	1621	1587	1549	1514	1457	1416
	5	CFM	1887	1852	1815	1780	1745	1707	1681	1599	1517

(*) = Factory Default

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