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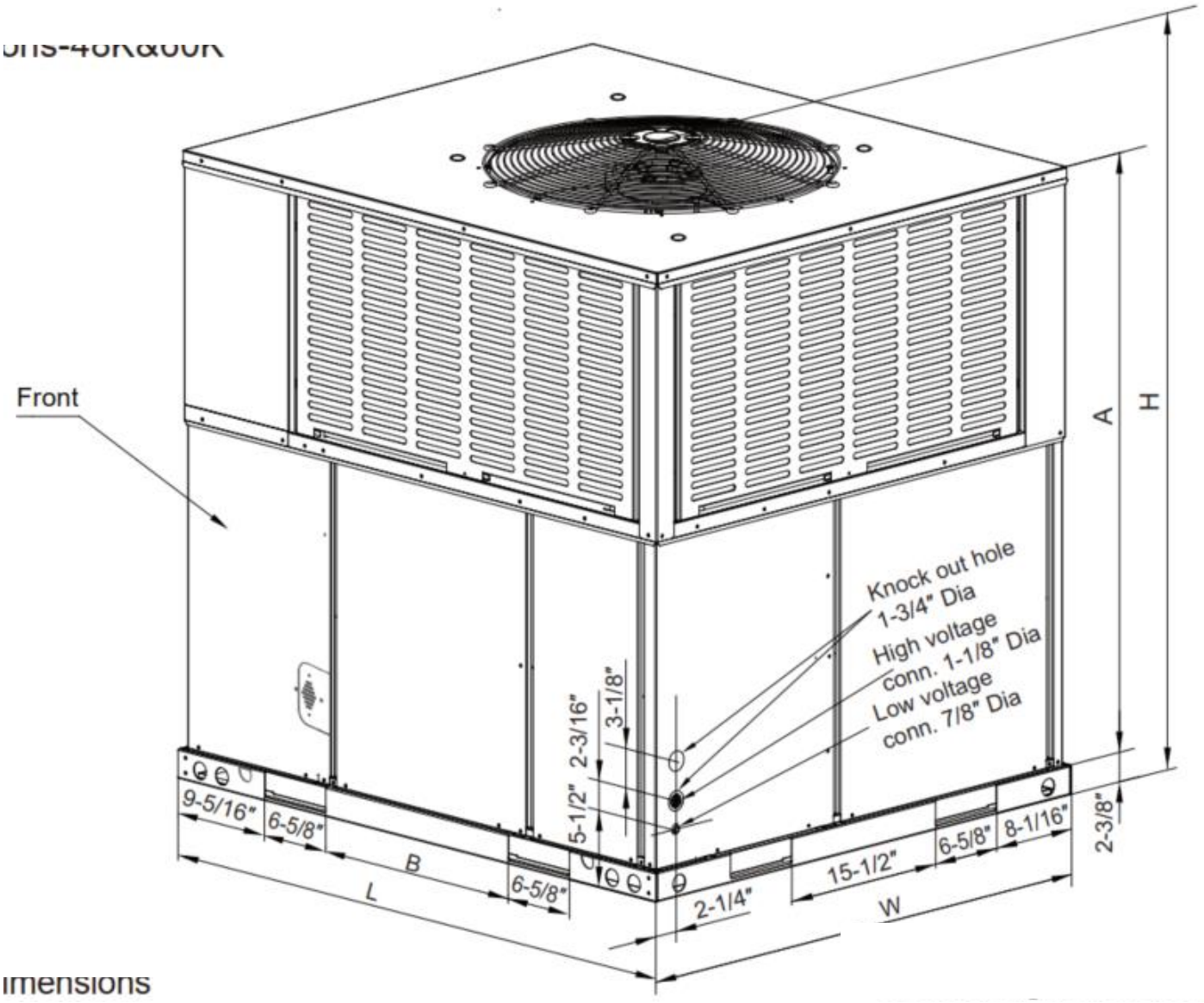
Submittal

TAG:

PACKAGE HEAT PUMP& AIR CONDITIONING
14 SEER SERIES 1Ph
Cooling capacity: 3Tons



imensions

Model size	Dimensions				
Heat Pump	"L" in.[mm]	"W" in.[mm]	"H" in.[mm]	"A" in.[mm]	"B" in.[mm]
3Tons	50-11/16 [1287]	35-1/16 [891]	46-13/16 [1190]	46-13/16 [1190]	11-3/4 [298]

Specifications

Nominal Tonnage	3.0
Volt (V-Ph-Hz)	208/230-1-60
ARI COOLING PERFORMANCE	
ARI net capacity (Btu)	36,000
EER	10.6
SEER	13.4
Nominal CFM	1100
System power (kW)	3.21
Refrigerant type	R410a
Refrigerant charge (lb-oz)	7-15
ARI HEATING PERFORMANCE	
47°F Capacity Rating (Btu)	34200
System power (kW)	2.90
17°F Capacity Rating (Btu)	17000
System power (kW)	2.41
HSPF	6.7
DIMENSIONS (Inches)	
Length	50-11/16
Width	50-11/16
Height	46-13/16
OPERATING WT. (lbs)	408
COMPRESSORS	
Type	Rotary
Quantity	1
CONDENSER COIL DATA	
Face area (Sq. Ft)	14.11
Rows	2+3
Fins per inch	17
Tube diameter	9/32
Circuitry type	interlaced

EVAPORATOR COIL DATA	
Face area (Sq. Ft)	3.96
Rows	4
Fins per inch	17
Tube diameter	9/32
Circuitry type	interlaced
Refrigerant control	Orifice
CONDENSER FAN DATA	
Fan diameter (inch)	23-5/8
Type	Prop
Drive type	Direct
No. speeds	1
Number of motors	1
Motor HP each	1/6（110W）
RPM	840
Nominal total CFM	2770
DIRECT DRIVE EVAP FAN DATA	
Quantity	1
Fan Size (inch)	10×10
Type	Centrifugal
No. speeds	1
Motor HP each	1/2（375W）

Airflow Performance Data

Side and Bottom Duct Application

Model Number	Motor Speed		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]
3Tons	Low (Tap2)	CFM	1170	1107	1042	984	926	867	/	/	/
		Current/A	1.6	1.6	1.7	1.7	1.8	1.8	/	/	/
		Power/W	176	182	188	194	200	206	/	/	/
	Middle (Tap3)-Factory	CFM	1339	1284	1224	1168	1119	1065	1014	961	900
		Current/A	2.2	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.6
		Power/W	254	260	266	272	279	286	294	300	305
	High (Tap4)	CFM	/	1385	1328	1274	1226	1178	1128	1079	1031
		Current/A	/	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.0
		Power/W	/	315	322	328	335	342	350	357	364

- 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. 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 give a reading of system CFM.
- When installation, installer should select the air speed according to the actual setting static pressure. Please refer to the Airflow Performance Data.

Electrical Data

Size (Tons)	Compressors		OD Fan Motors	Supply Blower Motor	Heater Circuit(without units)						Heater Fan Speed		
	RLA	LRA	FLA	FLA	Model	kW	Stages	Amps	MCA (Amps)	Max Fuse Breaker Size (Amps)	Low	Middle	High
36(3.0)	16.0	72	1.0	3.2	None	-	-	None	35.2	50			
					EHK-05J	3.8/5	1	18.1/20.8	23/26	25/30	•	•	•
					EHK-08J	5.6/7.5	1	27.1/31.3	34/40	35/40	•	•	•
					EHK-10J	7.5/10	1	36.1/41.7	46/53	50/60	×	•	•
					EHK-15J	11.3/15	2	54.2/62.5	68/79	70/80	×	•	•

Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document. Tuttokool has a policy of continuous product and product data improvement and it reserves the right to change design and specification without notice.