

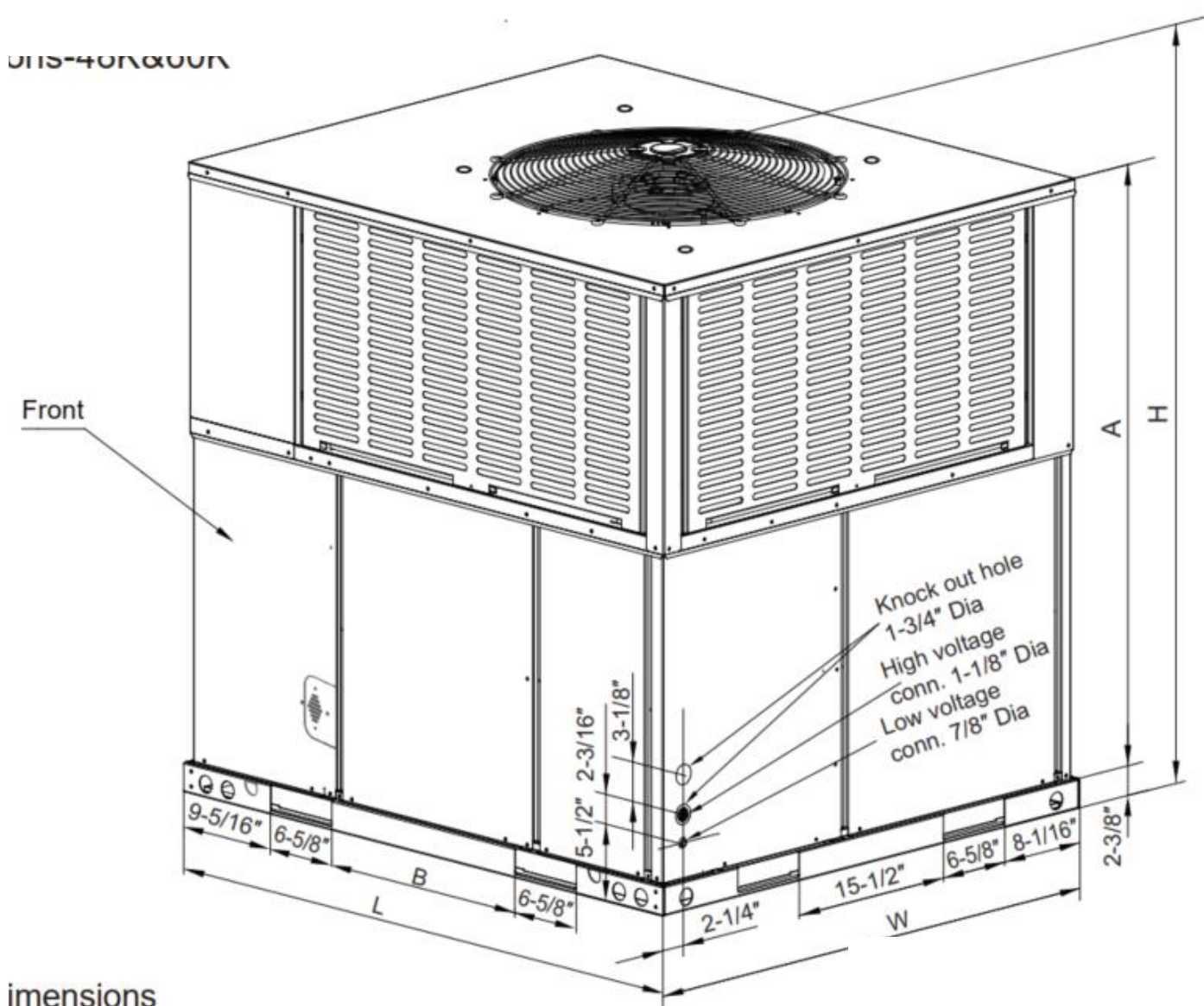
Submittal

TAG:

PACKAGE HEAT PUMP& AIR CONDITIONING

14 SEER SERIES 1Ph

Cooling capacity: 2Tons



Model size	Dimensions				
Heat Pump	"L" in.[mm]	"W" in.[mm]	"H" in.[mm]	"A" in.[mm]	"B" in.[mm]
2Tons	50-11/16 [1287]	35-1/16 [891]	46-13/16 [1190]	46-13/16 [1190]	11-3/4 [298]

Specifications

Nominal Tonnage	2.0
Volt (V-Ph-Hz)	208/230-1-60
ARI COOLING PERFORMANCE	
ARI net capacity (Btu)	22800
EER	10.6
SEER	13.4
Nominal CFM	800
System power (kW)	2.15
Refrigerant type	R410a
Refrigerant charge (lb-oz)	6-6
ARI HEATING PERFORMANCE	
47°F Capacity Rating (Btu)	22800
System power (kW)	1.98
17°F Capacity Rating (Btu)	11000
System power (kW)	1.55
HSPF	6.7
DIMENSIONS (Inches)	
Length	51-9/16
Width	35-1/16
Height	46-13/16
OPERATING WT. (lbs)	392
COMPRESSORS	
Type	Rotary
Quantity	1
CONDENSER COIL DATA	
Face area (Sq. Ft)	14.11
Rows	2+2
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	1/12 (60W)
RPM	880
Nominal total CFM	2200
DIRECT DRIVE EVAP FAN DATA	
Quantity	1
Fan Size (inch)	10×10
Type	Centrifugal
No. speeds	1
Motor HP each	1/5 (150W)

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]
2Tons	Low (Tap1)	CFM	/	860	767	677	593	/	/	/	/
		Current/A	/	1.0	1.0	1.0	1.0	/	/	/	/
		Power/W	/	229	225	222	218	/	/	/	/
	Middle (Tap2)-	CFM	/	/	/	900	819	736	629	/	/
		Current/A	/	/	/	1.4	1.4	1.3	1.3	/	/
		Power/W	/	/	/	314	309	303	298	/	/
	High (Tap3)	CFM	/	/	/	/	/	868	761	653	600
		Current/A	/	/	/	/	/	1.7	1.7	1.7	1.7
		Power/W	/	/	/	/	/	384	376	370	365

- 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
24(2.0)	10.0	34.8	0.61	2.0	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	×	•	•

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Model size	Dimensions				
Heat Pump	"L" in.[mm]	"W" in.[mm]	"H" in.[mm]	"A" in.[mm]	"B" in.[mm]
5Tons	51-9/16 [1310]	44-13/16 [1140]	51-7/16 [1306]	47-5/16 [1202]	19-11/16 [500]

Specifications

Nominal Tonnage	5.0
Volt (V-Ph-Hz)	208/230-1-60
ARI COOLING PERFORMANCE	
ARI net capacity (Btu)	57000
EER	10.6
SEER	13.4
Nominal CFM	1900
System power (kW)	5.38
Refrigerant type	R410a
Refrigerant charge (lb-oz)	11-14
ARI HEATING PERFORMANCE	
47°F Capacity Rating (Btu)	57000
System power (kW)	4.70
17°F Capacity Rating (Btu)	31000
System power (kW)	4.13
HSPF	6.7
DIMENSIONS (Inches)	
Length	51-9/16
Width	44-13/16
Height	51-7/16
OPERATING WT. (lbs)	562
COMPRESSORS	
Type	Scroll
Quantity	1
CONDENSER COIL DATA	
Face area (Sq. Ft)	20.17
Rows	3+3
Fins per inch	17
Tube diameter	9/32
Circuitry type	interlaced

EVAPORATOR COIL DATA	
Face area (Sq. Ft)	6.1
Rows	4
Fins per inch	17
Tube diameter	9/32
Circuitry type	interlaced
Refrigerant control	Orifice
CONDENSER FAN DATA	
Fan diameter (inch)	26-3/8
Type	Prop
Drive type	Direct
No. speeds	1
Number of motors	1
Motor HP each	1/3 (290W)
RPM	1070
Nominal total CFM	5000
DIRECT DRIVE EVAP FAN DATA	
Quantity	1
Fan Size (inch)	11×10-5/8
Type	Centrifugal
No. speeds	1
Motor HP each	3/4 (560W)

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]
5Tons	Low (Tap3)	CFM	1784	1732	1675	1610	1548	/	/	/	/
		Current/A	2.6	2.7	2.7	2.8	2.9	/	/	/	/
		Power/W	312	321	329	337	347	/	/	/	/
	Middle (Tap4)-	CFM	2046	1996	1953	1900	1844	1790	1738	1676	1520
		Current/A	3.7	3.8	3.9	3.9	4.0	4.1	4.2	4.3	4.6
		Power/W	459	471	481	492	503	514	527	538	577
	Factory	CFM	/	2227	2185	2142	2094	2042	1991	1938	1761
		Current/A	/	5.1	5.2	5.2	5.3	5.4	5.5	5.6	5.7
		Power/W	/	646	658	670	683	695	709	724	735
	High (Tap5)	CFM	/	2227	2185	2142	2094	2042	1991	1938	1761
		Current/A	/	5.1	5.2	5.2	5.3	5.4	5.5	5.6	5.7
		Power/W	/	646	658	670	683	695	709	724	735

- 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
60(5.0)	26.0	127.9	1.9	5.8	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	×	•	•
					EHK-20J	15/20	2	72.3/83.4	91/105	100/110	×	×	•

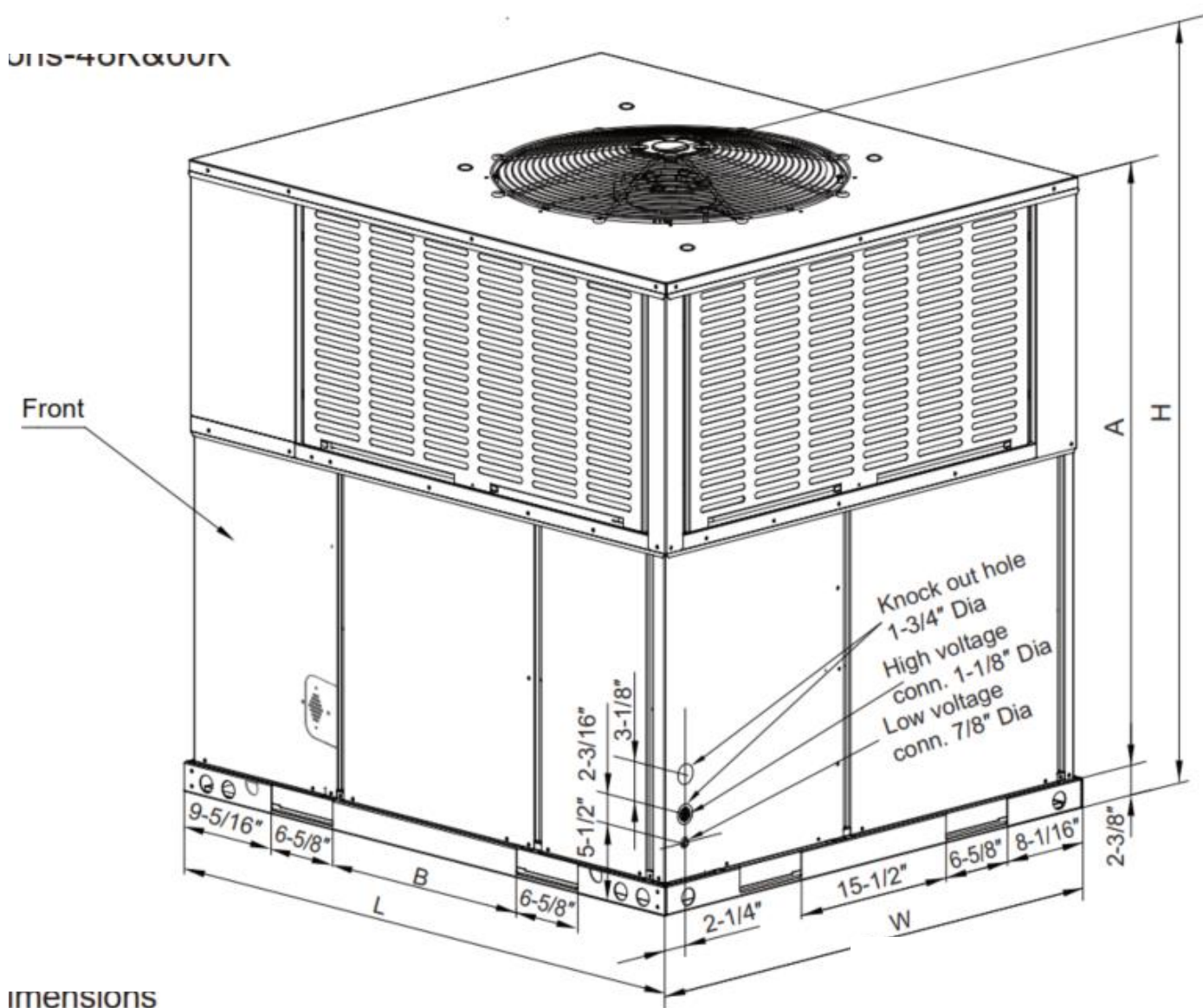
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Submittal

TAG:

PACKAGE HEAT PUMP& AIR CONDITIONING
14 SEER SERIES 3Ph
Cooling capacity: 4Tons



Model size	Dimensions				
Heat Pump	"L" in.[mm]	"W" in.[mm]	"H" in.[mm]	"A" in.[mm]	"B" in.[mm]
4Tons	51-9/16 [1310]	44-13/16 [1140]	51-7/16 [1306]	47-5/16 [1202]	19-11/16 [500]

Specifications

Nominal Tonnage	5.0
Volt (V-Ph-Hz)	208/230-3-60
ARI COOLING PERFORMANCE	
ARI net capacity (Btu)	46500
EER	10.6
SEER	13.4
Nominal CFM	1600
System power (kW)	4.39
Refrigerant type	R410a
Refrigerant charge (lb-oz)	9-4
ARI HEATING PERFORMANCE	
47°F Capacity Rating (Btu)	48000
System power (kW)	4.12
17°F Capacity Rating (Btu)	27000
System power (kW)	3.60
HSPF	6.7
DIMENSIONS (Inches)	
Length	51-9/16
Width	44-13/16
Height	51-7/16
OPERATING WT. (lbs)	531
COMPRESSORS	
Type	Scroll
Quantity	1
CONDENSER COIL DATA	
Face area (Sq. Ft)	20.17
Rows	2+2
Fins per inch	17
Tube diameter	9/32
Circuitry type	interlaced

EVAPORATOR COIL DATA	
Face area (Sq. Ft)	6.1
Rows	4
Fins per inch	17
Tube diameter	9/32
Circuitry type	interlaced
Refrigerant control	Orifice
CONDENSER FAN DATA	
Fan diameter (inch)	26-3/8
Type	Prop
Drive type	Direct
No. speeds	1
Number of motors	1
Motor HP each	1/3 (290W)
RPM	1070
Nominal total CFM	5100
DIRECT DRIVE EVAP FAN DATA	
Quantity	1
Fan Size (inch)	11×10-5/8
Type	Centrifugal
No. speeds	1
Motor HP each	3/4 (560W)

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]
4Tons	Low	CFM	/	/	/	1897	1804	1715	1605	1511	1403
		Current/A	/	/	/	3.0	2.9	2.8	2.7	2.6	2.5
		Power/W	/	/	/	685	663	643	615	582	557
	Middle	CFM	/	/	/	/	1904	1801	1689	1557	1432
		Current/A	/	/	/	/	3.2	3.1	3.0	2.9	2.8
		Power/W	/	/	/	/	728	702	673	643	611
	High	CFM	/	/	/	/	/	1873	1757	1621	1500
		Current/A	/	/	/	/	/	3.4	3.3	3.2	3.0
		Power/W	/	/	/	/	/	771	743	712	676

- 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.
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- 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
60(5.0)	23.0	108	1.9	4.0	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	×	•	•
					EHK-20J	15/20	2	72.3/83.4	91/105	100/110	×	×	•

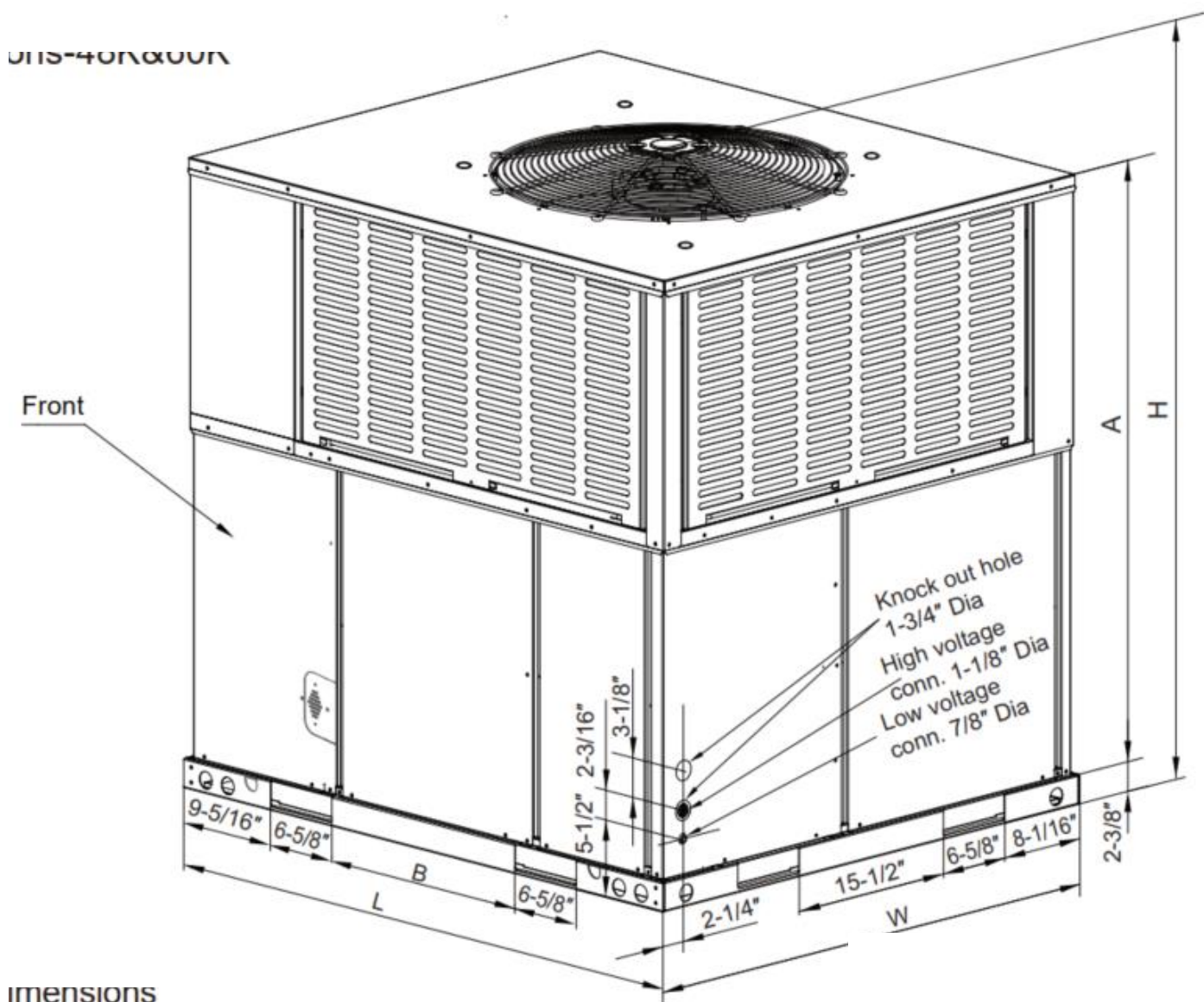
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Submittal

TAG:

PACKAGE HEAT PUMP& AIR CONDITIONING
14 SEER SERIES 1Ph
Cooling capacity: 5Tons



Model size	Dimensions				
Heat Pump	"L" in.[mm]	"W" in.[mm]	"H" in.[mm]	"A" in.[mm]	"B" in.[mm]
5Tons	51-9/16 [1310]	44-13/16 [1140]	51-7/16 [1306]	47-5/16 [1202]	19-11/16 [500]

Specifications

Nominal Tonnage	5.0
Volt (V-Ph-Hz)	208/230-1-60
ARI COOLING PERFORMANCE	
ARI net capacity (Btu)	57000
EER	10.6
SEER	13.4
Nominal CFM	1900
System power (kW)	5.38
Refrigerant type	R410a
Refrigerant charge (lb-oz)	11-14
ARI HEATING PERFORMANCE	
47°F Capacity Rating (Btu)	57000
System power (kW)	4.70
17°F Capacity Rating (Btu)	31000
System power (kW)	4.13
HSPF	6.7
DIMENSIONS (Inches)	
Length	51-9/16
Width	44-13/16
Height	51-7/16
OPERATING WT. (lbs)	562
COMPRESSORS	
Type	Scroll
Quantity	1
CONDENSER COIL DATA	
Face area (Sq. Ft)	20.17
Rows	3+3
Fins per inch	17
Tube diameter	9/32
Circuitry type	interlaced

EVAPORATOR COIL DATA	
Face area (Sq. Ft)	6.1
Rows	4
Fins per inch	17
Tube diameter	9/32
Circuitry type	interlaced
Refrigerant control	Orifice
CONDENSER FAN DATA	
Fan diameter (inch)	26-3/8
Type	Prop
Drive type	Direct
No. speeds	1
Number of motors	1
Motor HP each	1/3 (290W)
RPM	1070
Nominal total CFM	5000
DIRECT DRIVE EVAP FAN DATA	
Quantity	1
Fan Size (inch)	11×10-5/8
Type	Centrifugal
No. speeds	1
Motor HP each	3/4 (560W)

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]
5Tons	Low (Tap3)	CFM	1784	1732	1675	1610	1548	/	/	/	/
		Current/A	2.6	2.7	2.7	2.8	2.9	/	/	/	/
		Power/W	312	321	329	337	347	/	/	/	/
	Middle (Tap4)-	CFM	2046	1996	1953	1900	1844	1790	1738	1676	1520
		Current/A	3.7	3.8	3.9	3.9	4.0	4.1	4.2	4.3	4.6
		Power/W	459	471	481	492	503	514	527	538	577
	Factory	CFM	/	2227	2185	2142	2094	2042	1991	1938	1761
		Current/A	/	5.1	5.2	5.2	5.3	5.4	5.5	5.6	5.7
		Power/W	/	646	658	670	683	695	709	724	735

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- 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.
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- 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
60(5.0)	26.0	127.9	1.9	5.8	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	×	•	•
					EHK-20J	15/20	2	72.3/83.4	91/105	100/110	×	×	•

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