DAIKIN
AIR INTELLIGENCE

DRH Commercial

High-Efficiency Heat Pump
Direct-Drive Packaged Rooftop Unit
DRH Commercial
6 Nominal Tons

17 IEER / 11.5 EER

5 YEAR PARTS LIMITED WARRANTY*

C ETL LISTED US Intertek

AHRI CERTIFIED

ISO 9001 QUALITY MANAGEMENT SYSTEM

ISO 14001 CERTIFIED ENVIRONMENTAL MANAGEMENT SYSTEM

*Complete warranty details available from your local distributor or manufacturer's representative or at www.daikincomfort.com or www.daikinac.com

Our Perfect Package:

Harnessing energy-efficient performance, proven technology, and enhanced comfort for life.

Since becoming the first company in Japan to manufacture packaged air conditioning systems, in 1951, Daikin has supported comfortable indoor living based on the strengths and technologies that have led to the growth of the company becoming one of the world's largest manufacturers of HVAC products, systems and refrigerants.

Today, as a comprehensive global manufacturer of HVAC products and systems, the Daikin brand is committed to being recognized as a truly global and excellent company capable of continually creating new value for its customers. The company plans to pursue sustainable growth and foster business operations that consistently harmonize with the goals of improving indoor comfort.

The group philosophy of the company includes:

- Creating new value continuously for customers
- Developing world leading energy-saving technology
- Being a flexible and dynamic organization
- Allowing employees to be the driving force for the success of the company
- Fostering an atmosphere of best practices, boldness, and innovation
- Thinking and acting globally

Contents

Nomenclature

D	R	H	072	3	D	XXX	C	X	A	X	X	X	X	X	X	X	X	X	A	*
1	2	3	4,5,6	7	8	9,10,11	12	13	14	15	16	17	18	19	20	21	22	23	24	

Revision Levels
Major & Minor

Brand
D Daikin

Configuration
R High-Efficiency

Application
H Heat Pump

Nominal Cooling Capacity
072 6 Tons

Voltage
3 208-230/3/60
4 460/3/60
7 575/3/60

Supply Fan/Drive Type/Motor
D Direct-Drive - Standard Static
W Direct-Drive - High-Static

Nominal Heating Capacity
H/P Factory/Field-Installed Electric Heat
XXX No Heat
005 5kW
010 10 kW
015 15 kW
020 20 kW
021 20 kW
030 30 kW
031 30 kW

See product specifications for heat size(s) available for each capacity.

Refrigeration Systems
C Two-stage cooling modes

Heat Exchanger
X No options

Controls
A Electromechanical controls

Sensors
X No Options
A RA Smoke Detector
B SA Smoke Detector
C RA & SA Smoke Detector

Coils, Hail guard
X No Options
C Hail Guard

Economizer
X No Options
A Ultra Low-Leak Downflow Economizer w/Enthalpy Sensor
B Low-Leak Downflow Economizer w/Enthalpy Sensor
G Ultra Low-Leak Downflow Economizer w/Dry Bulb Sensor
H Low-Leak Downflow Economizer w/Dry Bulb Sensor

Electrical
X No Options
A Non-Fused Disconnect
B Phase Monitor
C Thru-the-base connections
E Non-Fused Disconnect and Phase Monitor
F Non-Fused Disconnect and Thru-the-base connections
H Phase Monitor and Thru-the-base connections
L Non-Fused Disconnect, Thru-the-base connections and Phase Monitor

Service Options
X No Option
A Powered convenience outlet
B Non-powered convenience outlet
C Hinge Panels
D Hinged Panels and Powered convenience outlet
E Hinged Panels and non-powered convenience outlet

IAQ
X No Options

Power Exhaust
X No Options
B Single-point power connection for Power Exhaust

X No Options

HP Stocking Models	
New Daikin 6 Ton High-Efficiency HP	
Model Number	**Code String**
DRH0723D000001S	DRH0723DXXXCXAXXXXXXXX
DRH0724D000001S	DRH0724DXXXCXAXXXXXXXX
DRH0727D000001S	DRH0727DXXXCXAXXXXXXXX

Daikin Packaged Rooftop Units (RTUs) are built to perform, with features and options that help provide low installation and operation costs, superior indoor air quality, efficient operation, and longevity.

Installation

Daikin Packaged units are designed with fast and easy installation in mind and are ideal for both new construction and retrofit projects. Our packaged rooftop units are built to be a direct replacement for most rooftop units on the field without the need of a curb adapter, to be able to replace the unit in a shorter time and at a lower cost (compared to the previous design).

Cabinet Construction

Daikin packaged rooftop units are made with high quality galvanized steel with a powder-paint finish to provide higher corrosion resistance.

- Easy accessibility using our tool-less filter access.
- The interior surface in the indoor air section is fully insulated to prevent sweating and thermal losses, using our foil face fiberglass insulation which also omits exposed filter fibers into the airstream.
- 1" Raised flanged edges around the supply and return offer easy installation for the duct connections.

- The full perimeter base rail is built using heavy gauge galvanized steel for a stronger structural installation, the base rails are a minimum of 3 ½" tall and include holes to allow for overhead rigging and lifting with forklifts.
- Electrical lines and can be brought through the base of the unit or through the horizontal knockout for easy installation and accessibility on the field.

Compressor

High performance, low noise scroll compressors to match the required total load for efficient part load control.

- Two-stage scroll compressor for partial load applications.
- Resiliently factory-mounted on rubber grommets for vibration isolation
- Unit is factory charged with environmentally friendly R-410A refrigerant.
- Compressor location outside the condenser section to avoid air bypass.
- Internal overload protection included with compressor.

Supply Fan

The direct-drive with airfoil single width, single inlet (SWSI) Class II construction supply fan with aluminum fan +blades provides efficient and quiet operation at wide ranging static pressure and air flow requirements.

- Fan wheel is continuously welded to the hub plate and end rim for long lasting reliable operation.
- Direct-drive ECM motor removes the need for belts, sheaves, or bearings and its permanently lubricated motors provides low maintenance cost.
- Each fan assembly is dynamically trim balanced at the factory before shipment for quick start-up and efficient operation.
- Electromechanical integrated controls modulate the supply fan motor
- Motor with thermal overload is provided for motor long lasting operation.

Coils

All units use large face area outdoor coils. These coils are constructed with seamless copper tubes, mechanically bonded into aluminum plate-type fins with full drawn collars to completely cover the tubes for high operating efficiencies.

The indoor coil section is installed in a draw through configuration to provide better dehumidification.

» Coils are factory pressure tested to ensure pressure and leak integrity.
» Copper tube / aluminum fin coils on condenser and evaporator
» 5mm Smart Coil Technology on all condenser coils for improved performance and reduced refrigerant load.

Heat Pump Heating

Evaporator coil, condenser coil, compressors and refrigerant circuit are designed for heat pump operation.

» The refrigerant circuit contains a 4-way reversing valve to provide heat.
» The outdoor coil includes a thermal expansion valve to control the refrigerant flow during heat pump operation.
» Hybrid heating option is provided for auxiliary heating.
» The refrigerant system includes a pump-down cycle for durable operation.

Controls and Wiring

Packaged rooftop units come equipped with a well-organized, large, easy to use weatherproof internal control box with easy access, for a better user experience.

» Units are factory-wired with labeled color-coded wires and complete 24-volt electromechanical controls package.
» Units include single-point power entry as standard and also available with electric heat kits if selected.
» Terminal blocks are provided as standard for easy installation and field power wiring.

Filtration

Unit provides a draw-through filter section as standard for better air quality and long lasting component maintenance.

» Filters installed on the units are standard off the shelf sizes for easy replacement.
» One or two size filter per unit for low maintenance cost and easy replacement.
» Easy and fast filter service access.

Heating Section

Wide ranging of electric heat selections effectively handle most comfort heating demand from morning warm-up control to full heat.

Electric Heat

ETL approved electric heat is factory assembled, installed and tested.

» Heating control is fully integrated into the unit's control system for quick start-up and reliable control.
» Durable low watt density, nickel chromium elements provide longer life (compared to units without).
» Fuses are provided in each branch circuit to a maximum of 48 Amps per NEC requirements.
» Single-point power connection reduces installation cost.
» For operational safeties electric heat includes automatic reset, and high temperature limit safety protection and an airflow safety switch to prevent electric heat operation in the event of no airflow.

Electrical

Units are completely wired and tested at the factory to provide faster commissioning and start-up.

» Wiring complies with NEC requirements and all applicable UL standards.
» For ease of use, wiring and electrical components are number coded and labeled according to the electrical diagram.
» A 120 V GFI convenience receptacle requiring independent power supply for the receptacle is optional.
» An optional unit powered 20 amp 115 V convenience receptacle, complete with factory mounted transformer, disconnect switch, and primary and secondary overload protection, eliminates the need to pull a separate 115 V power source.
» Unit includes knockouts in the bottom of the main control panels for field wiring entrance.
» A single-point power connection with power block is standard and a terminal board is provided for connecting low voltage control wiring.
» For better serviceability an optional non-fused disconnect switch can be installed inside the control panel and operated by an externally mounted handle to disconnect the electrical power at the unit.


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Applications

Daikin Rooftop units are intended for comfort cooling applications in normal heating, ventilating, and air conditioning. Consult your local Daikin sales representative for applications involving operations at high ambient temperatures, high altitudes, non-cataloged voltages, or for job-specific unit selections that fall outside of the range of the catalog tables.

For proper operation, units should be rigged in accordance with instructions stated on the installation manual. Fire dampers, if required, must be installed in the ductwork according to local and/or state codes. No space is allowed for these dampers in the unit.

Follow factory check, test and start procedures explicitly to achieve satisfactory start-up and operation.

Most rooftop applications take advantage of the significant energy savings provided with economizer operation. When an economizer system is used, mechanical refrigeration is typically not required below an ambient temperature of 50°F.

Serviceability

Daikin packaged rooftop units are built with serviceability in mind, designed to make future maintenance and service on the unit easy and accessible.

- Our packaged rooftop units offer a slide out blower to facilitate the access and removal of the fan.
- Filter panels on the small chassis line offer tool-less access for easy maintenance.
- Independent compressor outside of the air bypass to eliminate component blockage and provide easy access.
- Labeled field connections, color coded and continuously marked wire to identify point-to-point component connections.
- All 3 - 5 ton units are designed for convertible airflow orientation to serve downflow or horizontal applications. Every unit ships prepared to convert to horizontal orientation in the field if required.
- Condenser clean out from inside-out.
- Easy access to gas valves and control panel.

Model	DRH0723D000001S	DRH0724D000001S	DRH0727D000001S
COOLING CAPACITY			
Total, BTU/h	69,000	69,000	69,000
IEER / EER	17/11.5	17/11.5	17/11.5
HEATING CAPACITY			
BTU/h (47°F)	62,000	62,000	62,000
HSPF	NA	NA	NA
COP	3.4	3.4	3.4
EVAPORATOR MOTOR / COIL			
Motor Type	Direct-Drive	Direct-Drive	Direct-Drive
External Static Pressure (ESP)	Standard	Standard	Standard
Wheel Dia. X Width	12x11	12x11	12x11
Indoor Nominal CFM	2200	2200	2200
RPM	1500	1500	1500
Indoor Horsepower	1.20	1.20	1.20
Filter Size (in)	20 X 20 X 2 (4)	20 X 20 X 2 (4)	20 X 20 X 2 (4)
Drain Size (NPT)	3/4	3/4	3/4
R-410A Refrigerant Charge (oz.)	304	304	304
Evaporator Coil Face Area (ft^2)	10.1	10.1	10.1
Rows Deep/ Fins per Inch	$^4/_{16}$	$^4/_{16}$	$^4/_{16}$
CONDENSER FAN/COIL			
Quantity of Condenser Fan Motors	1	1	1
RPM (High/Low stage)	1122	1122	1122
Outdoor Horsepower	0.33	0.33	0.33
Fan Diameter/ # Fan Blades	22 / 4	22 / 4	22 / 4
Face Area (ft^2)	24.5	24.5	24.5
Rows Deep / Fins per Inch	$^2/_{16}$	$^2/_{16}$	$^2/_{16}$
COMPRESSOR			
Quantity / Type / Stages	1 / Scroll / 2	1 / Scroll / 2	1 / Scroll / 2
Compressor RLA / LRA	17.6/136	8.5/66.1	6.3/55.3
ELECTRICAL DATA			
Voltage-Phase-Frequency	208/230-3-60	460-3-60	575-3-60
Indoor Blower FLA	5	2.5	2
Max External Static (In. W.C.)	0.75	0.75	0.75
Outdoor Fan FLA	2	0.85	0.67
Min. Circuit Ampacity[1]	29.0/29.0	13.9	10.6
Max. Overcurrent Protection (A)[2]	45/45	20	15
Power Supply Conduit Hole Dia. (in)	1.125	1.125	1.125
Low-Voltage Conduit Hole Dia. (in)	0.5	0.5	0.5
OPERATING WEIGHT (LBS.)			
Operating Weight (lbs)	708	708	708
SHIPPING WEIGHT (LBS.)			
Ship Weight (lbs)	766	766	766

[1] Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.
[2] May use fuses or HACR-type circuit breakers of the same size as noted.
Note: Always check the S&R plate for electrical data on the unit being installed.

AHRI Ratings

MODEL	Cooling CAPACITY	EER	IEER	Heating CAPACITY	COP
DRH072*D	69000	11.5	17.0	62000	3.4

Sound Data

Model	OUTDOOR SOUND (DB) AT 60 Hz								
	A-Weighted	63	125	250	500	1000	2000	4000	8000
072*D	81	82.7	80.6	80.5	77.7	75.2	72.1	69.7	67.2
072*W	81	86.4	81.7	81.2	77.7	75.4	72.2	70.1	67.7

Notes:
[1] Outdoor sound data is measured in accordance with AHRI standard 270.
[2] Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environment factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
[3] A-weighted sound ratings filter out high and very low frequencies, to better approximate the response of "average" human ear. A-weighted measurements for Daikin units are taken in accordance with AHRI standard 270.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB	Airflow	ID WB	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1800	Capacity	69,830	70,822	72,919	-	69,202	70,193	72,290	-	67,369	68,360	70,457	-	64,215	65,206	67,304	-	60,361	61,352	63,449	-	56,842	57,833	59,930	-
		S/T	0.55	0.48	0.35	-	0.56	0.49	0.35	-	0.59	0.51	0.38	-	1.00	0.53	0.40	-	1.00	0.55	0.42	-	1.00	0.60	0.47	-
		Evap dT	20.05	18.25	14.88	-	20.00	18.20	14.84	-	20.25	18.45	15.09	-	19.98	18.18	14.82	-	19.74	17.94	14.58	-	20.87	19.06	15.70	-
		Pr Suc	124.38	125.92	129.11	-	131.99	133.54	136.73	-	138.66	140.21	143.40	-	144.30	145.85	149.04	-	149.84	151.38	154.57	-	156.77	158.31	161.50	-
		Pr Dis	268.48	269.65	271.54	-	311.02	312.19	314.09	-	355.59	356.76	358.65	-	403.58	404.75	406.64	-	455.32	456.49	458.38	-	510.54	511.70	513.60	-
		ODAmps	15.72	15.70	15.66	-	18.04	18.02	17.98	-	20.63	20.61	20.57	-	23.43	23.42	23.38	-	26.57	26.55	26.51	-	30.24	30.22	30.18	-
		TotalPower	4,245	4,241	4,232	-	4,779	4,775	4,766	-	5,375	5,371	5,361	-	6,020	6,016	6,006	-	6,740	6,736	6,727	-	7,586	7,581	7,572	-
	2180	Capacity	71,049	72,040	74,137	-	70,421	71,412	73,509	-	68,587	69,579	71,676	-	65,434	66,425	68,522	-	61,579	62,571	64,668	-	58,061	59,052	61,149	-
		S/T	0.65	0.57	0.44	-	0.65	0.58	0.45	-	0.68	0.60	0.47	-	1.00	0.62	0.49	-	1.00	0.64	0.51	-	1.00	0.69	0.56	-
		Evap dT	18.45	16.65	13.29	-	18.40	16.60	13.24	-	18.66		13.49	-	18.38	16.58	13.22	-	18.14	16.34	12.98	-	19.27	17.47	14.11	-
		Pr Suc	126.88	128.43	131.61	-	134.49	136.04	139.23	-	141.17	142.71	145.90	-	146.80	148.35	151.54	-	152.34	153.89	157.07	-	159.27	160.82	164.00	-
		Pr Dis	271.72	272.89	274.78	-	314.26	315.43	317.32	-	358.83	360.00	361.89	-	406.82	407.99	409.88	-	458.56	459.73	461.62	-	513.77	514.94	516.84	-
		ODAmps	15.89	15.88	15.84	-	18.22	18.20	18.16	-	20.81	20.79	20.75	-	23.61	23.59	23.55	-	26.74	26.72	26.68	-	30.42	30.40	30.36	-
		TotalPower	4,286	4,281	4,272	-	4,820	4,815	4,806	-	5,415	5,411	5,402	-	6,060	6,056	6,047	-	6,781	6,777	6,768	-	7,626	7,622	7,613	-
	2400	Capacity	71,907	72,898	74,995	-	71,278	72,270	74,367	-	69,445	70,437	72,534	-	66,291	67,283	69,380	-	62,437	63,428	65,526	-	58,918	59,910	62,007	-
		S/T	0.68	0.60	0.47	-	0.68	0.61	0.48	-	0.71	0.63	0.50	-	1.00	0.65	0.52	-	1.00	0.67	0.54	-	1.00	0.72	0.59	-
		Evap dT	17.70	15.90	12.54	-	17.65	15.85	12.49	-	17.91	16.10	12.74	-	17.63	15.83	12.47	-	17.39	15.59	12.23	-	18.52	16.72	13.36	-
		Pr Suc	128.48	130.02	133.21	-	136.09	137.64	140.83	-	142.76	144.31	147.50	-	148.40	149.95	153.14	-	153.94	155.48	158.67	-	160.87	162.41	165.60	-
		Pr Dis	273.50	274.67	276.56	-	316.04	317.21	319.10	-	360.60	361.77	363.67	-	408.59	409.76	411.66	-	460.33	461.50	463.40	-	515.55	516.72	518.62	-
		ODAmps	15.98	15.96	15.92	-	18.30	18.28	18.24	-	20.89	20.87	20.83	-	23.69	23.67	23.63	-	26.83	26.81	26.77	-	30.50	30.48	30.44	-
		TotalPower	4,305	4,301	4,291	-	4,839	4,834	4,825	-	5,434	5,430	5,421	-	6,079	6,075	6,066	-	6,800	6,796	6,787	-	7,645	7,641	7,632	-
75	1800	Capacity	69,871	70,863	72,960	76,163	69,243	70,234	72,331	75,535	67,410	68,401	70,498	73,701	64,256	65,247	67,344	70,548	60,401	61,393	63,490	66,693	56,883	57,874	59,971	63,175
		S/T	0.68	0.61	0.47	0.33	0.69	0.61	0.48	0.34	1.00	0.64	0.50	0.37	1.00	0.66	0.52	0.38	1.00	0.68	0.55	0.41	1.00	1.00	0.60	0.46
		Evap dT	24.00	22.20	18.84	15.36	23.96	22.16	18.79	15.31	24.21	22.41	19.05	15.56	23.94	22.14	18.78	15.29	23.70	21.90	18.53	15.05	24.82	23.02	19.66	16.18
		Pr Suc	124.41	125.95	129.14	134.47	132.02	133.57	136.76	142.09	138.69	140.24	143.43	148.76	144.33	145.88	149.07	154.40	149.87	151.41	154.60	159.93	156.80	158.34	161.53	166.86
		Pr Dis	268.72	269.89	271.78	276.48	311.26	312.43	314.32	319.02	355.83	357.00	358.89	363.59	403.82	404.99	406.88	411.58	455.56	456.73	458.62	463.32	510.77	511.94	513.84	518.54
		ODAmps	15.70	15.68	15.64	15.82	18.02	18.01	17.97	18.14	20.61	20.60	20.56	20.73	23.42	23.40	23.36	23.54	26.55	26.53	26.49	26.67	30.23	30.21	30.17	30.35
		TotalPower	4,242	4,237	4,228	4,269	4,775	4,771	4,762	4,803	5,371	5,367	5,358	5,399	6,016	6,012	6,003	6,044	6,737	6,733	6,723	6,764	7,582	7,578	7,569	7,610
	2180	Capacity	71,090	72,081	74,178	77,382	70,461	71,453	73,550	76,753	68,628	69,620	71,717	74,920	65,475	66,466	68,563	71,766	61,620	62,612	64,709	67,912	58,101	59,093	61,190	64,393
		S/T	0.77	0.70	0.57	0.43	1.00	0.70	0.57	0.43	1.00	0.73	0.60	0.46	1.00	0.75	0.62	0.48	1.00	0.77	0.64	0.50	1.00	1.00	0.69	0.55
		Evap dT	22.41	20.61	17.25	13.77	22.36	20.56	17.20	13.72	22.61	20.81	17.45	13.97	22.34	20.54	17.18	13.70	22.10	20.30	16.94	13.46	23.23	21.43	18.07	14.59
		Pr Suc	126.91	128.45	131.64	136.97	134.52	136.07	139.26	144.59	141.19	142.74	145.93	151.26	146.83	148.38	151.57	156.90	152.37	153.92	157.10	162.43	159.30	160.85	164.03	169.36
		Pr Dis	271.96	273.13	275.02	279.72	314.50	315.67	317.56	322.26	359.06	360.23	362.13	366.83	407.05	408.22	410.12	414.82	458.80	459.97	461.86	466.56	514.01	515.18	517.08	521.78
		ODAmps	15.88	15.86	15.82	16.00	18.20	18.18	18.14	18.32	20.79	20.77	20.73	20.91	23.60	23.58	23.54	23.71	26.73	26.71	26.67	26.85	30.40	30.38	30.35	30.52
		TotalPower	4,282	4,278	4,269	4,310	4,816	4,812	4,803	4,844	5,412	5,408	5,399	5,439	6,057	6,053	6,044	6,084	6,777	6,773	6,764	6,805	7,623	7,619	7,609	7,650
	2400	Capacity	71,948	72,939	75,036	78,239	71,319	72,311	74,408	77,611	69,486	70,478	72,575	75,778	66,332	67,324	69,421	72,624	62,478	63,469	65,566	68,770	58,959	59,951	62,048	65,251
		S/T	0.80	0.73	0.60	0.46	1.00	0.73	0.60	0.46	1.00	0.76	0.63	0.49	1.00	0.78	0.65	0.51	1.00	1.00	0.67	0.53	1.00	1.00	0.72	0.58
		Evap dT	21.66	19.86	16.50	13.02	21.61	19.81	16.45	12.97	21.86	20.06	16.70	13.22	21.59	19.79	16.43	12.95	21.35	19.55	16.19	12.71	22.48	20.68	17.32	13.83
		Pr Suc	128.51	130.05	133.24	138.57	136.12	137.67	140.86	146.19	142.79	144.34	147.53	152.86	148.43	149.98	153.17	158.50	153.97	155.51	158.70	164.03	160.90	162.44	165.63	170.96
		Pr Dis	273.73	274.90	276.80	281.50	316.28	317.44	319.34	324.04	360.84	362.01	363.91	368.61	408.83	410.00	411.90	416.60	460.57	461.74	463.64	468.34	515.79	516.96	518.86	523.55
		ODAmps	15.96	15.94	15.90	16.08	18.28	18.26	18.23	18.40	20.87	20.86	20.82	20.99	23.68	23.66	23.62	23.80	26.81	26.79	26.75	26.93	30.49	30.47	30.43	30.61
		TotalPower	4,301	4,297	4,288	4,329	4,835	4,831	4,822	4,863	5,431	5,427	5,418	5,459	6,076	6,072	6,063	6,103	6,796	6,792	6,783	6,824	7,642	7,638	7,628	7,669

IDB: Entering Indoor Dry Bulb Temperature

Shaded area reflects ACCA (TVA) conditions

kW = Total system power

High and low pressures are measured at the liquid and suction access fittings.

Amps: Unit amps (comp.+ evaporator + condenser fan motors)

Design Subcooling, 16 - 19 °F @ the liquid access fitting connection ARI 95 test conditions. Design Superheat 8 - 12°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB	Airflow	ID WB	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1800	Capacity	70,235	71,226	73,323	76,527	69,606	70,598	72,695	75,898	67,773	68,765	70,862	74,065	64,620	65,611	67,708	70,911	60,765	61,757	63,854	67,057	57,246	58,238	60,335	63,538
		S/T	1.00	0.73	0.60	0.46	1.00	0.73	0.60	0.46	1.00	0.76	0.63	0.49	1.00	1.00	0.65	0.51	1.00	1.00	0.67	0.53	1.00	1.00	0.72	0.58
		Evap dT	27.99	26.19	22.83	19.35	27.94	26.14	22.78	19.30	28.19	26.39	23.03	19.55	27.92	26.12	22.76	19.28	27.68	25.88	22.52	19.04	28.81	27.01	23.65	20.16
		Pr Suc	124.96	126.51	129.69	135.02	132.57	134.12	137.31	142.64	139.25	140.79	143.98	149.31	144.88	146.43	149.62	154.95	150.42	151.97	155.15	160.48	157.35	158.90	162.08	167.41
		Pr Dis	269.21	270.38	272.28	276.98	311.76	312.92	314.82	319.52	356.32	357.49	359.39	364.09	404.31	405.48	407.38	412.08	456.05	457.22	459.12	463.82	511.27	512.44	514.34	519.03
		ODAmps	15.71	15.70	15.66	15.83	18.04	18.02	17.98	18.16	20.63	20.61	20.57	20.75	23.43	23.41	23.37	23.55	26.56	26.55	26.51	26.68	30.24	30.22	30.18	30.36
		TotalPower	4,244	4,240	4,231	4,272	4,778	4,774	4,765	4,806	5,374	5,370	5,361	5,402	6,019	6,015	6,006	6,047	6,740	6,735	6,726	6,767	7,585	7,581	7,572	7,612
	2180	Capacity	71,454	72,445	74,542	77,745	70,825	71,817	73,914	77,117	68,992	69,984	72,081	75,284	65,838	66,830	**68,927**	72,130	61,984	62,975	65,072	68,276	58,465	59,457	61,554	64,757
		S/T	1.00	0.82	0.69	0.55	1.00	0.83	0.69	0.55	1.00	0.85	0.72	0.58	1.00	1.00	**0.74**	0.60	1.00	1.00	0.76	0.62	1.00	1.00	0.81	0.67
		Evap dT	26.40	24.60	21.23	17.75	26.35	24.55	21.19	17.70	26.60	24.80	21.44	17.96	26.33	24.53	**21.17**	17.68	26.09	24.29	20.93	17.44	27.22	25.41	22.05	18.57
		Pr Suc	127.46	129.01	132.20	137.53	135.08	136.62	139.81	145.14	141.75	143.29	146.48	151.81	147.39	148.93	**152.12**	157.45	152.92	154.47	157.66	162.99	159.85	161.40	164.59	169.92
		Pr Dis	272.45	273.62	275.52	280.22	314.99	316.16	318.06	322.76	359.56	360.73	362.63	367.33	407.55	408.72	**410.62**	415.32	459.29	460.46	462.36	467.06	514.51	515.68	517.57	522.27
		ODAmps	15.89	15.87	15.83	16.01	18.21	18.19	18.15	18.33	20.80	20.79	20.75	20.92	23.61	23.59	**23.55**	23.73	26.74	26.72	26.68	26.86	30.42	30.40	30.36	30.53
		TotalPower	4,285	4,281	4,272	4,312	4,819	4,815	4,806	4,846	5,415	5,411	5,401	5,442	6,060	6,055	**6,046**	6,087	6,780	6,776	6,767	6,808	7,626	7,621	7,612	7,653
	2400	Capacity	72,311	73,303	75,400	78,603	71,683	72,674	74,771	77,975	69,850	70,841	72,938	76,142	66,696	67,687	69,784	72,988	62,842	63,833	65,930	69,133	59,323	60,314	62,411	65,615
		S/T	1.00	0.85	0.72	0.58	1.00	0.86	0.72	0.58	1.00	0.88	0.75	0.61	1.00	1.00	0.77	0.63	1.00	1.00	0.79	0.65	1.00	1.00	0.84	0.70
		Evap dT	25.65	23.84	20.48	17.00	25.60	23.80	20.43	16.95	25.85	24.05	20.69	17.20	25.58	23.78	20.42	16.93	25.34	23.54	20.18	16.69	26.46	24.66	21.30	17.82
		Pr Suc	129.06	130.61	133.79	139.12	136.67	138.22	141.41	146.74	143.35	144.89	148.08	153.41	148.98	150.53	153.72	159.05	154.52	156.07	159.25	164.58	161.45	163.00	166.18	171.51
		Pr Dis	274.23	275.40	277.30	281.99	316.77	317.94	319.84	324.54	361.34	362.51	364.40	369.10	409.33	410.50	412.39	417.09	461.07	462.24	464.13	468.83	516.29	517.46	519.35	524.05
		ODAmps	15.97	15.96	15.92	16.09	18.30	18.28	18.24	18.41	20.89	20.87	20.83	21.01	23.69	23.67	23.63	23.81	26.82	26.80	26.76	26.94	30.50	30.48	30.44	30.62
		TotalPower	4,304	4,300	4,291	4,332	4,838	4,834	4,825	4,865	5,434	5,430	5,420	5,461	6,079	6,075	6,065	6,106	6,799	6,795	6,786	6,827	7,645	7,640	7,631	7,672
85	1800	Capacity	71,418	72,409	74,506	77,709	70,789	71,781	73,878	77,081	68,956	69,948	72,045	75,248	65,802	66,794	68,891	72,094	61,948	62,939	65,037	68,240	58,429	59,421	61,518	64,721
		S/T	1.00	0.83	0.70	0.56	1.00	1.00	0.70	0.56	1.00	1.00	0.73	0.59	1.00	1.00	0.74	0.61	1.00	1.00	0.77	0.63	1.00	1.00	1.00	0.68
		Evap dT	31.53	29.72	26.36	22.88	31.48	29.68	26.31	22.83	31.73	29.93	26.57	23.08	31.46	29.66	26.30	22.81	31.22	29.42	26.05	22.57	32.34	30.54	27.18	23.70
		Pr Suc	126.84	128.38	131.57	136.90	134.45	136.00	139.19	144.52	141.12	142.67	145.86	151.19	146.76	148.31	151.49	156.83	152.30	153.84	157.03	162.36	159.23	160.77	163.96	169.29
		Pr Dis	270.48	271.65	273.55	278.25	313.02	314.19	316.09	320.79	357.59	358.76	360.66	365.35	405.58	406.75	408.65	413.34	457.32	458.49	460.39	465.09	512.54	513.71	515.60	520.30
		ODAmps	15.76	15.74	15.70	15.88	18.08	18.06	18.02	18.20	20.67	20.65	20.61	20.79	23.48	23.46	23.42	23.59	26.61	26.59	26.55	26.73	30.28	30.26	30.23	30.40
		TotalPower	4,255	4,250	4,241	4,282	4,788	4,784	4,775	4,816	5,384	5,380	5,371	5,412	6,029	6,025	6,016	6,057	6,750	6,746	6,736	6,777	7,595	7,591	7,582	7,623
	2180	Capacity	72,636	73,628	75,725	78,928	72,008	72,999	75,097	78,300	70,175	71,166	73,263	76,467	67,021	68,013	70,110	73,313	63,167	64,158	66,255	69,458	59,648	60,639	62,736	65,940
		S/T	1.00	0.92	0.79	0.65	1.00	1.00	0.79	0.65	1.00	1.00	0.82	0.68	1.00	1.00	0.84	0.70	1.00	1.00	1.00	0.72	1.000	1.000	1.000	0.769
		Evap dT	29.93	28.13	24.77	21.29	29.88	28.08	24.72	21.24	30.13	28.33	24.97	21.49	29.86	28.06	24.70	21.22	29.62	27.82	24.46	20.98	30.75	28.95	25.59	22.11
		Pr Suc	129.34	130.88	134.07	139.40	136.95	138.50	141.69	147.02	143.62	145.17	148.36	153.69	149.26	150.81	154.00	159.33	154.80	156.35	159.53	164.86	161.73	163.28	166.46	171.79
		Pr Dis	273.72	274.89	276.79	281.49	316.26	317.43	319.33	324.03	360.83	362.00	363.89	368.59	408.82	409.99	411.88	416.58	460.56	461.73	463.63	468.32	515.78	516.95	518.84	523.54
		ODAmps	15.94	15.92	15.88	16.06	18.26	18.24	18.20	18.38	20.85	20.83	20.79	20.97	23.65	23.63	23.59	23.77	26.78	26.77	26.73	26.90	30.46	30.44	30.40	30.58
		TotalPower	4,295	4,291	4,282	4,323	4,829	4,825	4,816	4,857	5,425	5,421	5,412	5,452	6,070	6,066	6,057	6,097	6,790	6,786	6,777	6,818	7,636	7,632	7,622	7,663
	2400	Capacity	73,494	74,486	76,583	79,786	72,866	73,857	75,954	79,157	71,033	72,024	74,121	77,324	67,879	68,870	70,967	74,171	64,024	65,016	67,113	70,316	60,506	61,497	63,594	66,797
		S/T	1.00	0.95	0.82	0.68	1.00	1.00	0.82	0.68	1.00	1.00	0.85	0.71	1.00	1.00	0.87	0.73	1.00	1.00	1.00	0.75	1.00	1.00	1.00	0.80
		Evap dT	29.18	27.38	24.02	20.54	29.13	27.33	23.97	20.49	29.38	27.58	24.22	20.74	29.11	27.31	23.95	20.47	28.87	27.07	23.71	20.23	30.00	28.20	24.84	21.35
		Pr Suc	130.94	132.48	135.67	141.00	138.55	140.10	143.29	148.62	145.22	146.77	149.96	155.29	150.86	152.41	155.60	160.93	156.40	157.94	161.13	166.46	163.33	164.87	168.06	173.39
		Pr Dis	275.50	276.67	278.56	283.26	318.04	319.21	321.10	325.80	362.61	363.78	365.67	370.37	410.60	411.77	413.66	418.36	462.34	463.51	465.40	470.10	517.55	518.72	520.62	525.32
		ODAmps	16.02	16.00	15.96	16.14	18.34	18.32	18.28	18.46	20.93	20.91	20.87	21.05	23.73	23.72	23.68	23.85	26.87	26.85	26.81	26.99	30.54	30.52	30.48	30.66
		TotalPower	4,314	4,310	4,301	4,342	4,848	4,844	4,835	4,876	5,444	5,440	5,431	5,472	6,089	6,085	6,076	6,116	6,809	6,805	6,796	6,837	7,655	7,651	7,641	7,682

IDB: Entering Indoor Dry Bulb Temperature

Shaded area reflects ACCA (TVA) conditions

kW = Total system power

High and low pressures are measured at the liquid and suction access fittings.

Amps: Unit amps (comp.+ evaporator + condenser fan motors)

Design Subcooling, 16 - 19 °F @ the liquid access fitting connection ARI 95 test conditions. Design Superheat 8 - 12°F @ the compressor suction access fitting connection.

Electrical Heater Data

AIR FLOW FOR ELECTRIC HEAT

UNIT	HEATER KIT MODEL NUMBER	KW	MINIMUM CFM	MAXIMUM CFM
6 ton HP STD Static	EH*D-*S05	5	1950	3000
	EH*D-*S10	10		
	EH*D-*S15	15		
	EH*D-*S21	20		
	EH*D-*S31	30		
6 ton HP High-Static	EH*D-*S05	5		
	EH*D-*S10	10		
	EH*D-*S15	15		
	EH*D-*S20	20		
	EH*D-*S30	30		

HEATER KIT MODEL NUMBER NOMENCLATURE

E	H	*	B	-	*	S	15
1	2	3	4	-	5	6	7,8

Electric

Heater

Heater Type

X Staged

Drive Type

B Belt-Drive Unit

D Direct-Drive Unit

Voltage

1	208-230/1/60	Single phase 60 Hz
3	208-230/3/60	Three phase 60 Hz
4	460/3/60	Three phase 60 Hz
7	575/3/60	Three phase 60 Hz

Chassis

S Small

M Medium

L Large

Kilowatt

6 Ton Heat Pump
Standard Static Drive
Models: DRH0723D, DRH0724D and DRH0727D

Down Flow				
SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) IN W. C.	STANDARD CFM	SCFM	RPM
T1	0.2	1394	635	0.21
	0.4	1265	711	0.24
	0.6	1127	805	0.27
	0.8	983	885	0.29
	1.0	855	952	0.32
T2	0.2	2226	892	0.69
	0.4	2143	931	0.72
	0.6	2052	973	0.75
	0.8	1950	1027	0.79
	1.0	1861	1080	0.84
T3	0.2	2226	892	0.69
	0.4	2143	931	0.72
	0.6	2052	973	0.75
	0.8	1950	1027	0.79
	1.0	1861	1080	0.84
T4	0.2	2301	903	0.84
	0.4	2229	935	0.87
	0.6	2156	987	0.92
	0.8	2083	1034	0.96
	1.0	2011	1080	1.00
T5	0.2	2435	972	0.93
	0.4	2362	1007	0.96
	0.6	2293	1043	0.99
	0.8	2209	1086	1.03
	1.0	2124	1134	1.08

Horizontal Flow				
SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) IN W. C.	STANDARD CFM	SCFM	RPM
T1	0.2	1382	642	0.21
	0.4	1259	724	0.24
	0.6	1160	799	0.27
	0.8	1016	879	0.29
	1.0	899	948	0.32
T2	0.2	2211	885	0.68
	0.4	2128	938	0.73
	0.6	2034	988	0.76
	0.8	1950	1042	0.81
	1.0	1859	1098	0.85
T3	0.2	2211	885	0.68
	0.4	2128	938	0.73
	0.6	2034	988	0.76
	0.8	1950	1042	0.81
	1.0	1859	1098	0.85
T4	0.2	2348.22	926	0.86
	0.4	2274.11	973	0.90
	0.6	2200	1020	0.95
	0.8	2125.89	1066	0.99
	1.0	2051.78	1113	1.03
T5	0.2	2404	961	0.91
	0.4	2347	995	0.95
	0.6	2273	1050	1.00
	0.8	2193	1100	1.05
	1.0	2111	1149	1.09

Shaded area indicates air flow below 1800 SCFM (300 SCFM/ton) that is not recommended for High Stage cooling or heating

6 Ton Heat Pump
High-Static Drive
Models: DRH0723W, DRH0724W, DRH072

Down Flow

SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) IN W. C.	STANDARD CFM	SCFM	RPM	SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) IN W. C.	STANDARD CFM	SCFM	RPM
T1	0.2	1384	673	0.22	T1	0.2	2615	1069	1.18
	0.4	1262	751	0.25		0.4	2538	1108	1.23
	0.6	1145	821	0.27		0.6	2448	1148	1.27
	0.8	1017	899	0.30		0.8	2372	1195	1.32
	1.0	884	968	0.32		1.0	2299	1246	1.38
	1.2	756	1030	0.34		1.2	2224	1282	1.42
	1.4	564	1069	0.36		1.4	2160	1326	1.47
	1.6	442	1118	0.37		1.6	2092	1364	1.51
	1.8	-	-	-		1.8	2021	1405	1.55
	2.0	-	-	-		2.0	1946	1448	1.60
T2	0.2	2209	928	0.72	T2	0.2	2731	1111	1.34
	0.4	2122	975	0.75		0.4	2655	1146	1.38
	0.6	2013	1037	0.80		0.6	2570	1188	1.43
	0.8	1925	1088	0.84		0.8	2483	1234	1.48
	1.0	1848	1131	0.88		1.0	2410	1280	1.54
	1.2	1762	1182	0.91		1.2	2337	1322	1.59
	1.4	1675	1230	0.95		1.4	2290	1356	1.63
	1.6	1584	1282	0.99		1.6	2219	1392	1.67
	1.8	1486	1332	1.03		1.8	2156	1435	1.72
	2.0	1399	1379	1.07		2.0	2085	1473	1.77
T3	0.2	2731	1111	1.34	T3	0.2	2815	1142	1.45
	0.4	2655	1146	1.38		0.4	2741	1177	1.50
	0.6	2570	1188	1.43		0.6	2668	1211	1.54
	0.8	2483	1234	1.48		0.8	2585	1255	1.60
	1.0	2410	1280	1.54		1.0	2507	1302	1.66
	1.2	2337	1322	1.59		1.2	2436	1350	1.72
	1.4	2290	1356	1.63		1.4	2369	1383	1.76
	1.6	2219	1392	1.67		1.6	2320	1416	1.80
	1.8	2156	1435	1.72		1.8	2255	1454	1.85
	2.0	2085	1473	1.77		2.0	2188	1492	1.90
T4	0.2	2815	1142	1.45	T4	0.2	2903	1176	1.61
	0.4	2741	1177	1.50		0.4	2829	1204	1.65
	0.6	2668	1211	1.54		0.6	2769	1242	1.70
	0.8	2585	1255	1.60		0.8	2681	1284	1.76
	1.0	2507	1302	1.66		1.0	2601	1323	1.81
	1.2	2436	1350	1.72		1.2	2530	1372	1.88
	1.4	2369	1383	1.76		1.4	2466	1406	1.92
	1.6	2320	1416	1.80		1.6	2424	1440	1.97
	1.8	2255	1454	1.85		1.8	2356	1476	2.02
	2.0	2188	1492	1.90		2.0	-	-	-
T5	0.2	2970	1200	1.74	T5	0.2	2970	1200	1.74
	0.4	2905	1236	1.79		0.4	2905	1236	1.79
	0.6	2841	1268	1.84		0.6	2841	1268	1.84
	0.8	2759	1308	1.90		0.8	2759	1308	1.90
	1.0	2681	1348	1.96		1.0	2681	1348	1.96
	1.2	2606	1398	2.03		1.2	2606	1398	2.03
	1.4	2550	1436	2.09		1.4	2550	1436	2.09
	1.6	2485	1470	2.13		1.6	2485	1470	2.13
	1.8	-	-	-		1.8	-	-	-
	2.0	-	-	-		2.0	-	-	-

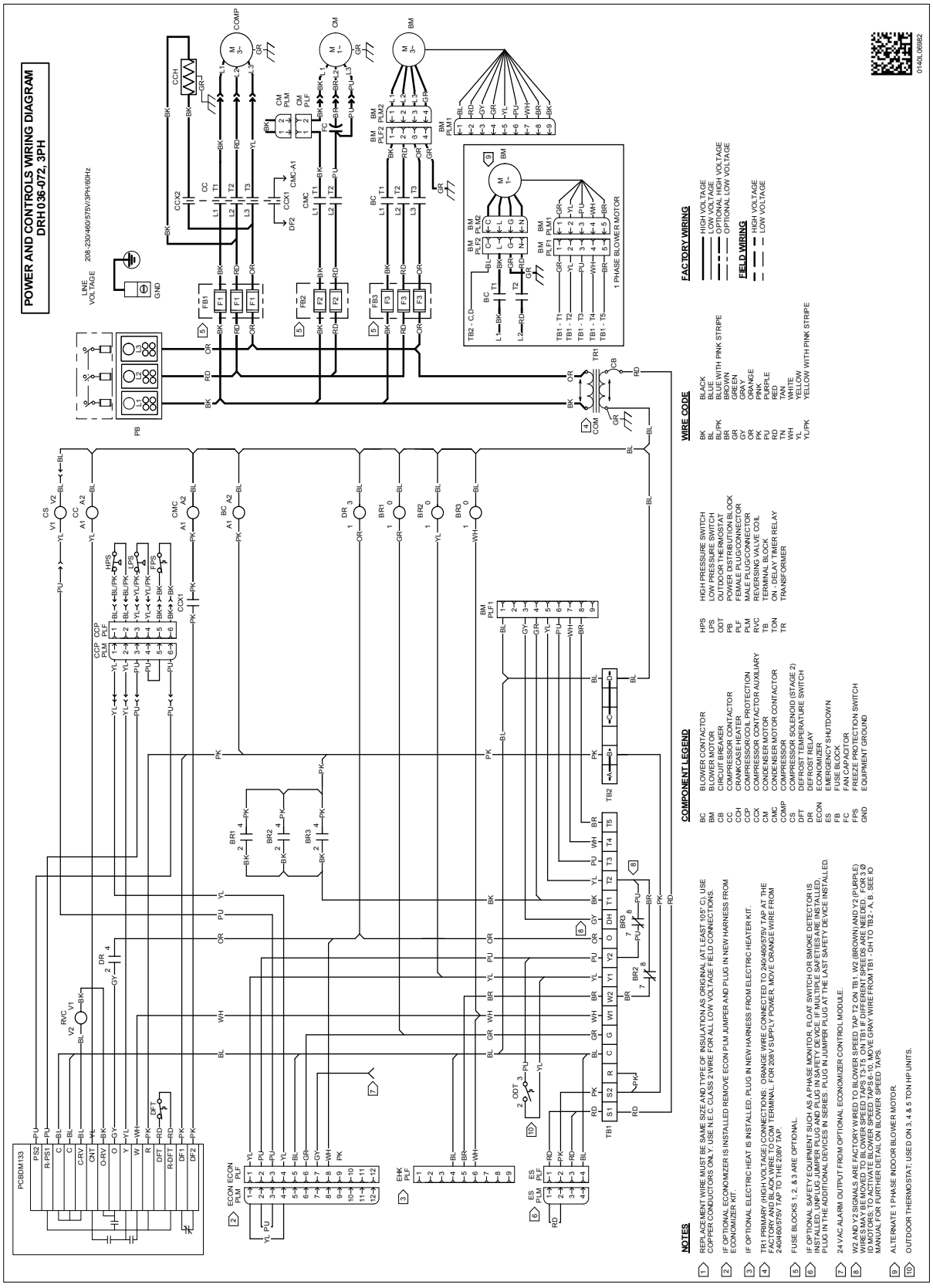
Shaded area indicates air flow below 1800 SCFM (300 SCFM/ton) that is not recommended for High Stage cooling or heating

Electrical Data

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	Type	HP	FLA	PART #	KW*	FLA	FLA	FLA	MCA	MOP
DRH0723D	208/230/3/60	1	17.6	136	1	0.33	2	Direct-Drive Standard Static	1.2	5	-	-	-	-	-	29.0/29.0	45/45
											-	-	-	9.6/8.7	-	38.6/37.7	50/50
											-	-	-	-	1.7/1.5	30.7/30.5	45/45
											-	-	-	9.6/8.7	1.7/1.5	40.3/39.2	50/50
											EH*D-3S05	3.76/5.00	10.4/12.0	-	-	42.0/44.0	50/50
														9.6/8.7	-	51.6/52.7	60/60
														-	1.7/1.5	43.7/45.5	50/50
														9.6/8.7	1.7/1.5	53.3/54.2	60/60
											EH*D-3S10	7.51/10.0	20.8/24.1	-	-	55.0/59.0	60/70
														9.6/8.7	-	64.6/67.7	70/70
														-	1.7/1.5	56.7/60.5	60/70
														9.6/8.7	1.7/1.5	66.3/69.2	70/70
											EH*D-3S15	11.3/15.0	31.3/36.1	-	-	68.0/74.1	70/80
														9.6/8.7	-	77.6/82.8	80/90
														-	1.7/1.5	69.7/75.6	70/80
														9.6/8.7	1.7/1.5	79.3/84.3	80/90
											EH*D-3S21	15.0/19.9	41.5/47.9	-	-	80.8/88.8	90/90
														9.6/8.7	-	90.4/97.5	100/100
														-	1.7/1.5	82.5/90.3	90/100
														9.6/8.7	1.7/1.5	92.1/99.0	100/100
											EH*D-3S31	21.6/28.8	60.0/69.3	-	-	104/116	110/125
														9.6/8.7	-	114/124	125/125
														-	1.7/1.5	106/117	110/125
														9.6/8.7	1.7/1.5	115/126	125/150
DRH0723W	208/230/3/60	1	17.6	136	1	0.33	2	Direct-Drive High-Static	2.3	7.7	-	-	-	-	-	31.7/31.7	45/45
											-	-	-	9.6/8.7	-	41.3/40.4	50/50
											-	-	-	-	1.7/1.5	33.4/33.2	45/45
											-	-	-	9.6/8.7	1.7/1.5	43.0/41.9	50/50
											EH*D-3S05	3.76/5.00	10.4/12.0	-	-	44.7/46.7	50/60
														9.6/8.7	-	54.3/55.4	60/60
														-	1.7/1.5	46.4/48.2	50/60
														9.6/8.7	1.7/1.5	56.0/56.9	60/60
											EH*D-3S10	7.51/10.0	20.8/24.1	-	-	57.7/61.7	70/70
														9.6/8.7	-	67.3/70.4	70/80
														-	1.7/1.5	59.4/63.2	70/70
														9.6/8.7	1.7/1.5	69.0/71.9	70/80
											EH*D-3S15	11.3/15.0	31.3/36.1	-	-	70.7/76.8	80/80
														9.6/8.7	-	80.3/85.5	90/90
														-	1.7/1.5	72.4/78.3	80/80
														9.6/8.7	1.7/1.5	82.0/87.0	90/90
											EH*D-3S20	15.0/19.9	41.5/47.9	-	-	83.5/91.5	90/100
														9.6/8.7	-	93.1/100	100/110
														-	1.7/1.5	85.2/93.0	90/100
														9.6/8.7	1.7/1.5	94.8/102	100/110
											EH*D-3S30	21.6/28.8	60.0/69.3	-	-	107/118	110/125
														9.6/8.7	-	116/127	125/150
														-	1.7/1.5	108/120	110/125
														9.6/8.7	1.7/1.5	118/128	125/150
DRH0724D	460/3/60	1	8.5	66.1	1	0.33	0.85	Direct-Drive Standard Static	1.2	2.5	-	-	-	-	-	13.9	20
											-	-	-	4.3	-	18.2	25
											-	-	-	-	0.5	14.4	20
											-	-	-	4.3	0.5	18.7	25
											EH*D-4S05	5	6.01	-	-	21.4	25
														4.3	-	25.7	30
														-	0.5	21.9	25
														4.3	0.5	26.2	30
											EH*D-4S10	10	12	-	-	29	30
														4.3	-	33.3	35
														-	0.5	29.5	30
														4.3	0.5	33.8	35
											EH*D-4S15	15	18	-	-	36.5	40
														4.3	-	40.8	45
														-	0.5	37	40
														4.3	0.5	41.3	45
											EH*D-4S21	20	24.1	-	-	44	45
														4.3	-	48.3	50
														-	0.5	44.5	45
														4.3	0.5	48.8	50
											EH*D-4S31	30	36.1	-	-	59	60
														4.3	-	63.3	70
														-	0.5	59.5	60
														4.3	0.5	63.8	70

Electrical Data

Model Number	Electrical Rating	Compressor			Outdoor Fan Motor			Indoor Fan Motor			Optional Electric Heat			Optional Powered Convenience Outlet	Optional Power Exhaust	Power Supply	
		QTY	RLA	LRA	QTY	HP	FLA	Type	HP	FLA	PART #	KW*	FLA	FLA	FLA	MCA	MOP
DRH0724W	460/3/60	1	8.5	66.1	1	0.33	0.85	Direct-Drive High-Static	2.3	4.5	-	-	-	-	-	15.9	20
											-	-	-	4.3	-	20.2	25
											-	-	-	-	0.5	16.4	20
											-	-	-	4.3	0.5	20.7	25
											EH*D-4S05	5	6.01	-	-	23.4	30
														4.3	-	27.7	30
														-	0.5	23.9	30
														4.3	0.5	28.2	30
											EH*D-4S10	10	12	-	-	31	35
														4.3	-	35.3	40
														-	0.5	31.5	35
														4.3	0.5	35.8	40
											EH*D-4S15	15	18	-	-	38.5	40
														4.3	-	42.8	45
														-	0.5	39	40
														4.3	0.5	43.3	45
											EH*D-4S20	20	24.1	-	-	46	50
														4.3	-	50.3	60
														-	0.5	46.5	50
														4.3	0.5	50.8	60
											EH*D-4S30	30	36.1	-	-	61	70
														4.3	-	65.3	70
														-	0.5	61.5	70
														4.3	0.5	65.8	70
DRH0727D	575/3/60	1	6.3	55.3	1	0.33	0.67	Direct-Drive Standard Static	1.2	2	-	-	-	-	-	10.6	15
											-	-	-	3.5	-	14.1	20
											-	-	-	-	0.6	11.2	15
											-	-	-	3.5	0.6	14.7	20
											EH*D-7S05	5	4.81	-	-	16.6	20
														3.5	-	20.1	25
														-	0.6	17.2	20
														3.5	0.6	20.7	25
											EH*D-7S10	10	9.62	-	-	22.6	25
														3.5	-	26.1	30
														-	0.6	23.2	25
														3.5	0.6	26.7	30
											EH*D-7S15	15	14.4	-	-	28.6	30
														3.5	-	32.1	35
														-	0.6	29.2	30
														3.5	0.6	32.7	35
											EH*D-7S21	20	19.2	-	-	34.7	35
														3.5	-	38.2	40
														-	0.6	35.3	40
														3.5	0.6	38.8	40
											EH*D-7S31	30	28.9	-	-	46.7	50
														3.5	-	50.2	60
														-	0.6	47.3	50
														3.5	0.6	50.8	60
DRH0727W	575/3/60	1	6.3	55.3	1	0.33	0.67	Direct-Drive High-Static	2.3	3.8	-	-	-	-	-	12.4	15
											-	-	-	3.5	-	15.9	20
											-	-	-	-	0.6	13	15
											-	-	-	3.5	0.6	16.5	20
											EH*D-7S05	5	4.81	-	-	18.4	20
														3.5	-	21.9	25
														-	0.6	19	20
														3.5	0.6	22.5	25
											EH*D-7S10	10	9.62	-	-	24.4	25
														3.5	-	27.9	30
														-	0.6	25	30
														3.5	0.6	28.5	30
											EH*D-7S15	15	14.4	-	-	30.4	35
														3.5	-	33.9	35
														-	0.6	31	35
														3.5	0.6	34.5	35
											EH*D-7S20	20	19.2	-	-	36.5	40
														3.5	-	40	40
														-	0.6	37.1	40
														3.5	0.6	40.6	45
											EH*D-7S30	30	28.9	-	-	48.5	50
														3.5	-	52	60
														-	0.6	49.1	50
														3.5	0.6	52.6	60

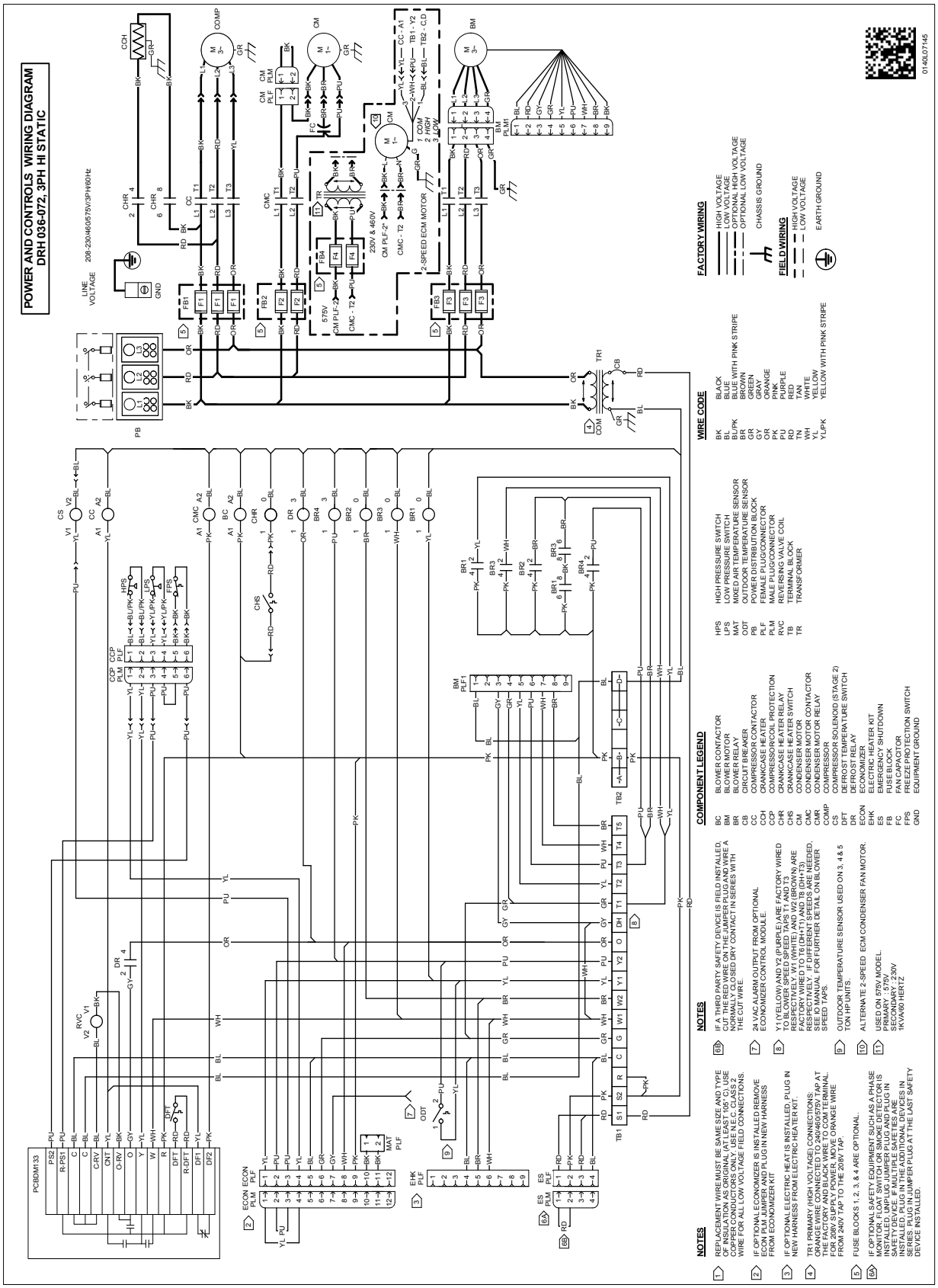


Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WARNING

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

Wire Diagram



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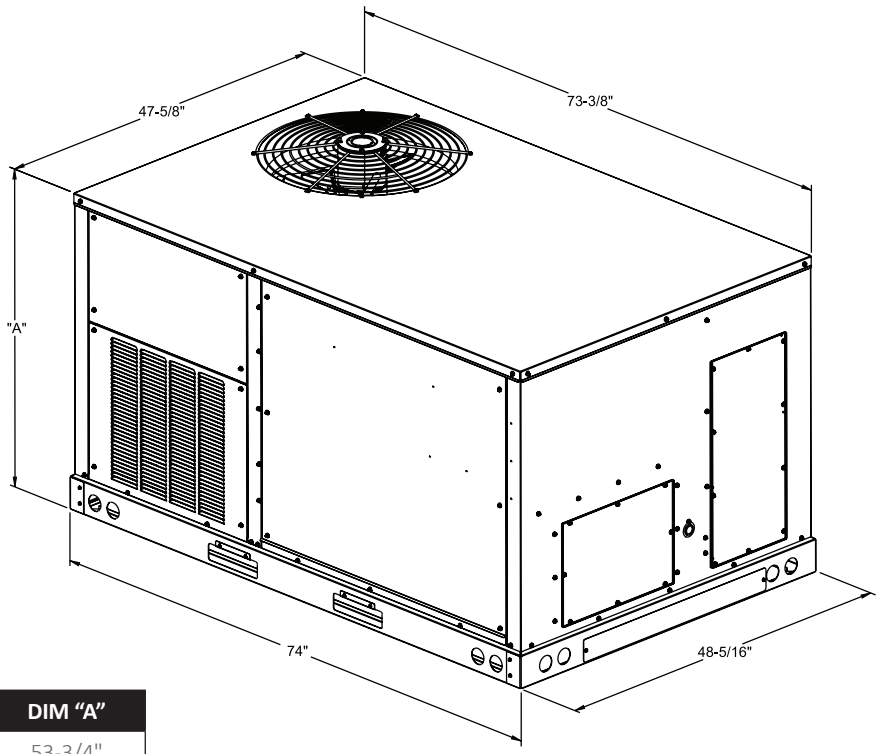
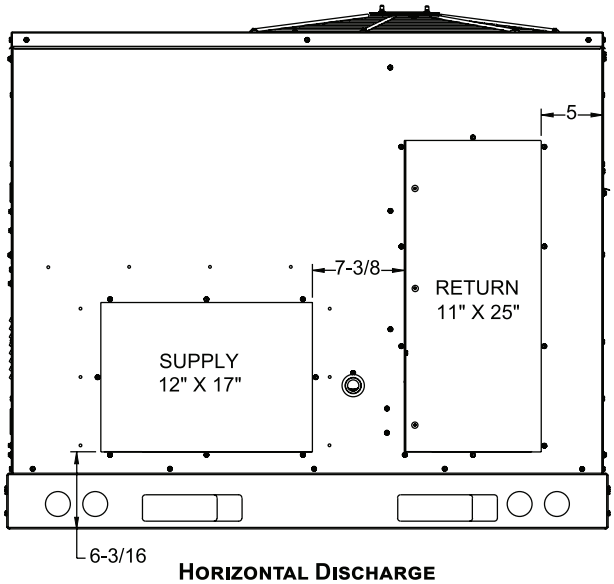
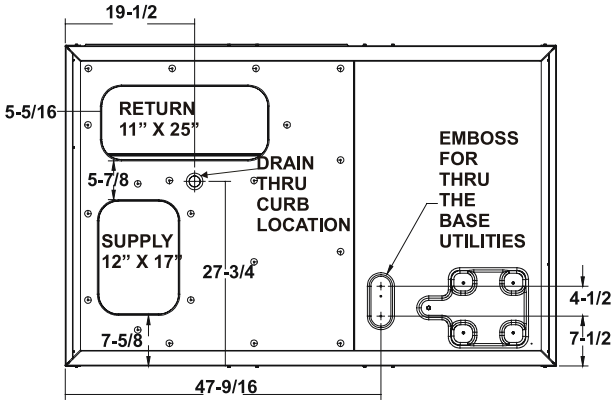


Model Size	DIM "A"
6 Ton HP	53-3/4"



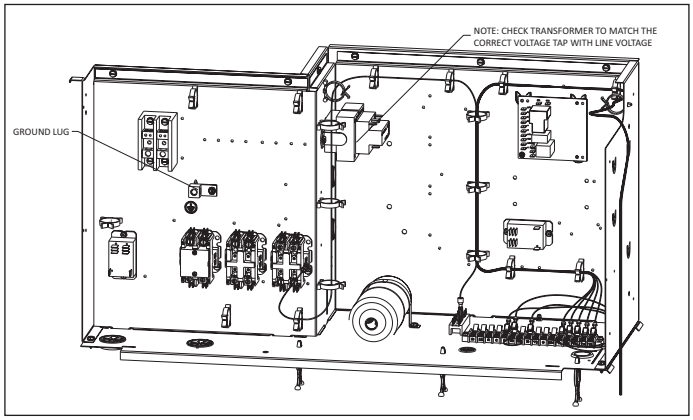
HORIZONTAL DISCHARGE

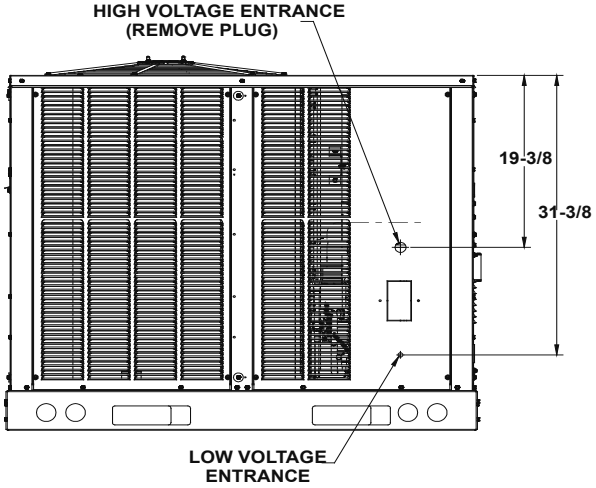


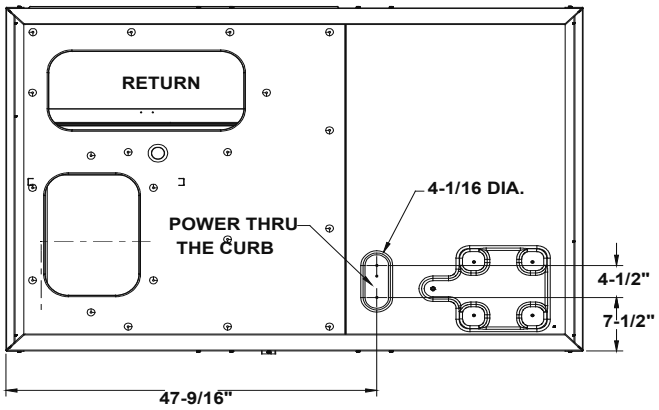
BOTTOM VIEW OF UNIT

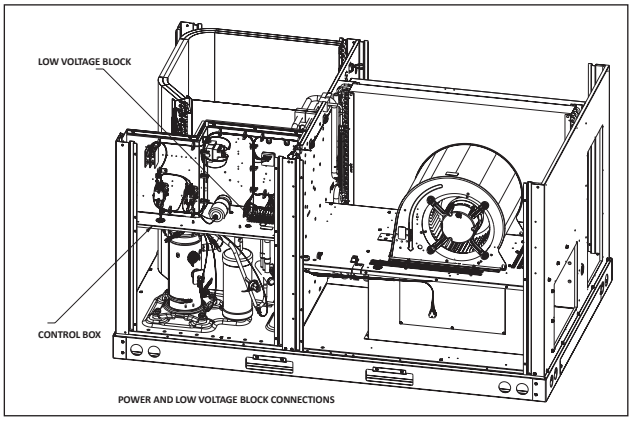
VERTICAL DISCHARGE

Electrical Connections





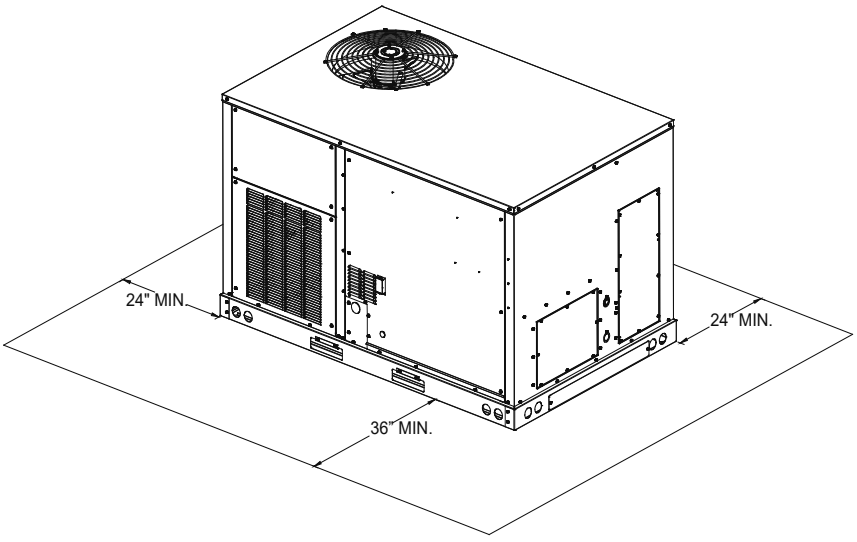




Unit Clearances

Service Clearance

Allow for recommended service clearances as shown in figure to the right. In situations that have multiple units, a 36” minimum clearance is required between the condenser coils. A clearance of 48” is recommended on all sides of the unit to allow service access and to ensure proper ventilation and condenser airflow. The top of the unit should be unobstructed. Provide a roof walkway along the sides of the unit for service and access to controls and components. Contact your Daikin sales representative for service requirements less than those recommended.



Unit Location

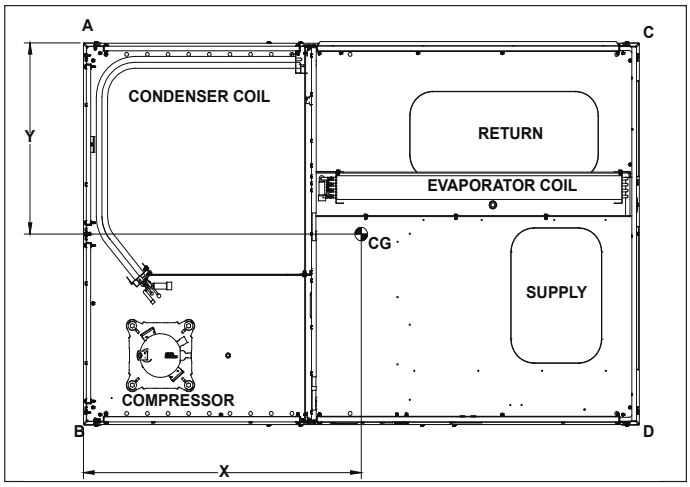
The structural engineer must verify that the roof has adequate support and ability to minimize deflection. Take extreme caution when using on a wooden roof structure. Unit condenser coils should be in a location that avoids any heated exhaust air.

Allow sufficient space around the unit for maintenance/service clearance. Consult your Daikin sales representative if available clearances do not meet minimum recommendations.

Where code considerations, such as the NEC, require extended clearances, these take precedence.

Provisions for forks have been included in the unit base frame. No other fork locations are approved.

- Unit must be lifted by the four lifting holes located at the base frame corners.
- Lifting cables should be attached to the unit with shackles.
- The distance between the crane hook and the top of the unit must not be less than 60".
- Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come in contact with the unit during transport. Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from forklift damage. To remove the struts, extract the sheet metal retainers and pull the struts through the base of the unit. Refer to rigging label on the unit.



CORNER & CENTER-OF-GRAVITY LOCATIONS

Important: If using bottom discharge with roof curb, duct-work should be attached to the curb prior to installing the unit. Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual. Lower unit carefully onto roof mounting curb. While rigging the unit, the center of gravity will cause the condenser end to be lower than the supply air end. Bring condenser end of unit into alignment with the curb. With condenser end of the unit resting on curb member and using curb as a fulcrum, lower opposite end of the unit until entire unit is seated on the curb. When a rectangular cantilever curb is used, take care to center the unit. Check for proper alignment and orientation of supply and return openings with duct.

Roof Curb Installation

The roof curb is field-assembled and must be installed level (within 1/16" per foot side to side). A sub-base must be constructed by the contractor in applications involving pitched roofs. Gaskets are furnished and must be installed between the unit and curb. For proper installation, follow NRCA guidelines. In applications requiring post and rail installation, an I-beam securely mounted on multiple posts should support the unit on each side. In addition, the insulation on the underside of the unit should be protected from the elements. Applications in geographic areas subjected to seismic or hurricane conditions must meet code requirements for fastening the unit to the curb and the curb to the building structure. For further and more detailed information please refer to our Daikin Light Commercial Packaged unit IOD.

Weights

Model	Shipping Weight (lbs)	Operating Weight (lbs)	Corner Weights (lbs)				Length	Width
			A	B	C	D	X (in)	Y (in)
DRH072	766	708	227	162	82	237	33 2/7	27 1/5

Accessories

Field Accessory part number	Description	Fits Model Sizes	Field-Installed	Factory-Installed	Operating Weight (lbs)
	Electric Heat Kits				
EHXD-3S05	Electric Heat Kit, 5 KW - 240V - 3PH	3-6 ton	√	√	
EHXD-3S10	Electric Heat Kit, 10 KW - 240V - 3PH	3-6 ton	√	√	
EHXD-3S15	Electric Heat Kit, 15 KW - 240V - 3PH	3-6 ton	√	√	
EHXD-3S20	Electric Heat Kit, 20 KW - 240V - 3PH	5-6 ton	√	√	
EHXD-3S21	Electric Heat Kit, 20 KW - 240V - 3PH	4&6 ton	√	√	
EHXD-3S30	Electric Heat Kit, 30 KW - 240V - 3PH	6 ton	√	√	
EHXD-3S31	Electric Heat Kit, 30 KW - 240V - 3PH	6 ton	√	√	
EHXD-4S05	Electric Heat Kit, 5 KW - 480V - 3PH	3-6 ton	√	√	
EHXD-4S10	Electric Heat Kit, 10 KW - 480V - 3PH	3-6 ton	√	√	
EHXD-4S15	Electric Heat Kit, 15 KW - 480V - 3PH	3-6 ton	√	√	
EHXD-4S20	Electric Heat Kit, 20 KW - 480V - 3PH	5-6 ton	√	√	
EHXD-4S21	Electric Heat Kit, 20 KW - 480V - 3PH	4&6 ton	√	√	
EHXD-4S30	Electric Heat Kit, 30 KW - 480V - 3PH	6 ton	√	√	
EHXD-4S31	Electric Heat Kit, 30 KW - 480V - 3PH	6 ton	√	√	
EHXD-7S05	Electric Heat Kit, 5 KW - 600V - 3PH	3-6 ton	√	√	
EHXD-7S10	Electric Heat Kit, 10 KW - 600V - 3PH	3-6 ton	√	√	
EHXD-7S15	Electric Heat Kit, 15 KW - 600V - 3PH	3-6 ton	√	√	
EHXD-7S20	Electric Heat Kit, 20 KW - 600V - 3PH	5-6 ton	√	√	
EHXD-7S21	Electric Heat Kit, 20 KW - 600V - 3PH	4&6 ton	√	√	
EHXD-7S30	Electric Heat Kit, 30 KW - 600V - 3PH	6 ton	√	√	
EHXD-7S31	Electric Heat Kit, 30 KW - 600V - 3PH	6 ton	√	√	
	Duct Smoke Detectors				
	Duct Smoke Detectors - Return	3-6 ton		√	11
	Duct Smoke Detectors - Supply	3-6 ton		√	11
	Duct Smoke Detectors - Supply and Return	3-6 ton		√	11
	Non-Fused Disconnect Switch				
	60 Amp Disconnect	3-6 ton		√	5
	100 Amp Disconnect	3-6 ton		√	5
	150 Amp Disconnect	3-6 ton		√	5
	Convenience Outlets				
	Convenience Outlets - Powered, 208/230 V	3-6 ton		√	42
	Convenience Outlets - Powered, 460 V	3-6 ton		√	42
	Convenience Outlets - Powered, 575 V	3-6 ton		√	42
	Convenience Outlets - Non-Powered	3-6 ton		√	2
	Hinged Access Panels				
	Hinged Access Panels, 53" cabinet	6 ton		√	
	Economizer				
0270L01600	Horizontal Economizer Ultra Low-Leak JADE® Dry-Bulb, 53" cabinet	6 ton	√		88
0270L01758	Horizontal Economizer Ultra Low-Leak *JADE* Enthalpy Sensor, 53" cabinet	6 ton	√		88
0270L01753	Downflow Economizer Standard Low-Leak *JADE* Ethalpy Sensor	3-6 ton	√	√	65
0270L01755	Downflow Economizer Ultra Low-Leak *JADE* Ethalpy Sensor	3-6 ton	√	√	65
0270L01156	Downflow Economizer Standard Low-Leak *JADE* Dry-Bulb	3-6 ton	√	√	65
0270L01158	Downflow Economizer Ultra Low-Leak *JADE* Dry-Bulb	3-6 ton	√	√	65

Accessories

Field Accessory part number	Description	Fits Model Sizes	Field-Installed	Factory-Installed	Operating Weight (lbs)
	Curbs and Restraint Clips				
0221L00014	Roof Curb 14" Tall, Knocked Down	3-6 ton	√		80
0221L00015	Roof Curb 24" Tall, Knocked Down	3-6 ton	√		109
0270L01261	Hold Down Bracket Kit	3-6 ton	√		8
0270L01250	Hold Down Bracket Kit for Daikin Roof curb	3-6 ton	√		8
0221L00019	Roof Curb 14" Tall Seismic with Hold Down Brackets, Knocked Down	3-6 ton	√		102
0221L00020	Roof Curb 14" Tall Wind-Rated Hurricane with Hold Down Brackets, Welded	3-6 ton	√		140
	Concentrics				
0270L01602	Concentric Diffuser 24 x 48 with 16" Dia. collars	3-6 ton	√		32
0270L01603	Concentric Diffuser 24 x 48 with 18" Dia. collars	3-6 ton	√		35
0270L01335	Concentric Duct Adaptor Kit for 16" Dia. Duct	3-6 ton	√		28
0270L01338	Concentric Duct Adaptor Kit for 18" Dia. Duct	3-6 ton	√		28
	Dampers				
0270L01165	2 Position Motorized Damper	3-6 ton	√		40
0270L01166	Manual Outdoor Air Damper	3-6 ton	√		24
	Hail Guard Kits				
HAILGD072HE	Condenser Coil Hail Guards, 53" cabinet	6 ton	√	√	
	High-Efficiency Filters				
0160L00270	High-Efficiency MERV 8 Air Filter Kit - 20x20x2 (qty 2 on 5 ton, qty 4 on 6 ton)	5-6 ton	√		4
0160L00201	High-Efficiency MERV 13 Air Filter Kit - 20x20x2 (qty 2 on 5 ton, qty 4 on 6 ton)	5-6 ton	√		4
	Misc Accessories				
TTBCKHE01	Through the Base Gas/Electrical	3-6 ton	√	√	1
3PMKP1	Phase Monitor Kit	3-6 ton	√	√	2
0270L01232	Burglar bars Inserts	3-6 ton	√		18
DPOFSK01	Overflow Switch Kit	3-6 ton	√		
	Power Exhaust				
0270L01167	Power Exhaust Prop Downflow Economizer, 230 V	3-6 ton	√		57
0270L01170	Power Exhaust Prop Horizontal Economizer, 230 V	3-6 ton	√		47
0270L01171	Power Exhaust Prop Downflow Economizer, 460 V	3-6 ton	√		57
0270L01168	Power Exhaust Prop Horizontal Economizer, 460 V	3-6 ton	√		47
	Controls, Thermostats and Sensors				
DT4272C	Comm Touch Digital Stat w/ Wi-Fi 4h/2c	3-6 ton	√		1
DT4273C	Comm Touch Digital Stat w/ Wi-Fi & Humidity Control 4h/2cc	3-6 ton	√		1
TSTATGAC-WS	Remote indoor sensor	3-6 ton	√		1
250803400	AppStat™ RTU 2H/2C Econ	3-6 ton	√		1
250803600	AppStat™ RTU 3H/2C Econ (HP only)	3-6 ton	√		1
D4271C	4h/2c Commercial 7 day Programmable Wi-Fi Capable thermostat	3-6 ton	√		1
D4272C	4h/2c Commercial 7 day Programmable Wi-Fi Capable Hum/dehum thermostat	3-6 ton	√		1
C7232A1024	CO_2 Sensor (Wall Mtd)	3-6 ton	√		1
C7232B1022	CO_2 Sensor (Duct Mtd)	3-6 ton	√		1

Note: Where multiple variations are available, the heaviest combination is listed.

Factory Installed Options

» **Non-Powered Convenience Outlet:** A 120V, 15A, GFCI outlet can be installed in the unit making it easier for technicians to service other units once an electrician runs power to the outlet. Outlet shall be factory-installed and internally mounted with easily accessible 120-v female receptacle. Transformer not included for this option. Outlet shall include a field-installed "While-in-Use" cover.

» **Powered Convenience Outlet:** A 120V, 15A, GFCI outlet can be powered with a step-transformer built into the unit. For use when the unit is not running. When a factory-installed powered convenience outlet is installed in the equipment, the unit MCA (Min. Circuit Ampacity) will increase by 7.5A for 208/230V units; increase by 3.75A for 460V units; and by 3A for 575V units. The MOP (Max. Overcurrent Protection) device must be sized accordingly. Outlet shall be powered from main line power to the rooftop unit. Outlet shall include a field-installed "While-in-Use" cover.

» **Return Air and/or Supply Air Smoke Detectors:** Return air and/or supply air smoke detectors can be installed in the unit. To safely identify the presence of smoke inside the air conditioning system and shutdown the blower to prevent the smoke to disperse into different zones.

» **Disconnect Switch (non-fused):** A disconnect switch can be installed in the unit with factory wiring complete from the switch to the unit. Please note that for air conditioner and heat pump units, the appropriate electric heat kit must be ordered along with the disconnect switch (non-fused) to be factory-installed. For models with a powered convenience outlet option and a disconnect switch (non-fused) option, the power to the powered convenience outlet will be shut off when the disconnect switch (non-fused) is in the off position. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff. The switch shall be accessible from outside of the unit and provide local shutdown and lockout capability.

» **Hinged Access Panels:** Allows access to unit's major components. Combined with latches for easy access to control box, compressor, filters and blower motor.

» **Through-the-base electrical connection:** Allows an easy and fast field installation through the unit base pan.

» **Electromechanical Controls:** Basic controls that include terminal block for unit connectivity to T-Stat.

Field Installed Options

» **Manual Fresh Air Damper:** Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 25% outdoor air for year round ventilation.

» **Motorized Fresh Air Damper:** A two-position damper with rain hood and screen provides up to 50% outside air when the indoor fan starts and closes when the indoor fan shuts down. Consist of actuator, damper, air inlet screen, and rain hood. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.

» **Power Exhaust:** Power exhaust shall be used in conjunction with an integrated economizer. This accessory exhausts return air and may be used in either downflow or horizontal (duct-mounted) applications. Horizontal power exhaust shall be mounted in return ductwork. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0-100% adjustable setpoint on the economizer control.

» **Horizontal Economizer:** Fully modulating between 0 and 100%, contain seals that meet ASHRAE 90.1 requirements. Includes motor and dampers, minimum position settings, preset linkage, wiring harness with plug, mixed air temperature sensor, and enthalpy control. An optional duct-mounted barometric relief damper is available. An optional return enthalpy sensor is available to provide comparative or differential enthalpy control. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable. Standard leak rate shall be equipped with dampers not to exceed 2% leakage at 1 in. wg pressure differential. Ultra Low Leak design meets California Title 24 section 140.4 and ASHRAE 90.1 requirements for 4 cfm per sq.ft. on the outside air dampers and 10 cfm per sq. ft. on the return dampers. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor. Economizer controller shall accept a 2-10 Vdc CO_2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input.

» Economizer controller shall be Honeywell® JADE® W7220 that provides:

- 2-line LCD interface screen for setup, configuration and troubleshooting.
- On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24.
- Sensor failure loss of communication identification
- Automatic sensor detection
- Capabilities for use with multiple-speed indoor fan systems
- Utilize digital sensors: Dry bulb and Enthalpy
- Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.

- **Roof curbs:** Full perimeter roof curb with exhaust capability providing separate air streams for energy recovery from the exhaust air without supply air contamination. Two different heights 14" and 24", allows proper installation and structure stability. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
- **Concentric duct kits:** Designed to provide a single-point air distribution system with the added benefit of having directional air control.
- **Restraint mounting clips*:*** Allows for installation reinforcement for Hurricane and/or seismic events.
- **$C0_2$ sensor:** Sensor designed to alarm the system when the $C0_2$ levels are outside safe parameters.
- **Burglar Bar Sleeves**: Designed to prevent the access thru the return or supply ducting inside the unit.
- **Downflow square to round adapter 18":** Installed into a recessed portion of the roof curb, the concentric duct adaptor changes the orientation of the ductwork from square to round for applications utilizing that type of ducting system.
- **Side discharge concentric diffuser system:** The Concentric diffuser system is an all in one supply and return duct free arrangement for RTU systems. This system comes with two separate duct connections, one for a supply and another for a return.
- **Remote indoor sensor:** Remote sensor to monitor the temperature on zones away from the main thermostat.
- **Drain pan overflow switch:** Allows the controls to detect and send an alarm when there is an overflow on the drain pan.
- **Freeze stat:** Temperature sensing device that monitors the heat exchange to prevent the coil from freezing.

Factory and Field Installed Options

- **Downflow Economizer:** Fully modulating between 0 and 100%, contain seals that meet ASHRAE 90.1 requirements. Includes motor and dampers, minimum position settings, a preset linkage, a wiring harness with plug, a mixed air temperature sensor, enthalpy control, and a barometric relief damper. An optional return enthalpy sensor is available to provide comparative or differential enthalpy control. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable. Standard leak rate shall be equipped with dampers not to exceed 2% leakage at 1 in. wg pressure differential. Ultra Low Leak design meets California Title 24 section 140.4 and ASHRAE 90.1 requirements for 4 cfm per sq.ft. on the outside air dampers and 10 cfm per sq. ft. on the return dampers. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor. Economizer controller shall accept a 2-10 Vdc $C0_2$ sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input. Economizer controller shall be Honeywell® W7220 that provides:
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  - 2-line LCD interface screen for setup, configuration and troubleshooting.
  - On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24.
  - Sensor failure loss of communication identification
  - Automatic sensor detection
  - Capabilities for use with multiple-speed indoor fan systems
  - Utilize digital sensors: Dry bulb and Enthalpy
  - Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
- **Low Ambient Control:** Allows cooling operation down to 35°F outdoor ambient temperature for 3 - 6 ton units.
- **Phase Monitor:** Phase monitor (3-Phase only) shall provide protection for motors and compressors against problems caused by phase loss, phase reversal and phase unbalance. Phase monitor is equipped with an LED that provides an ON or FAULT indicator.
- **Condenser Hail Guards:** Louvered metal guards help protect the condenser coil from hail and debris; available as a field-installed options on 3 – 12½ ton units.

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