



Heating and Air Conditioning

TECHNICAL GUIDE

R-410A

AFFINITY™ SERIES

DEQ, DEX, DEY AND DEZ

MODELS

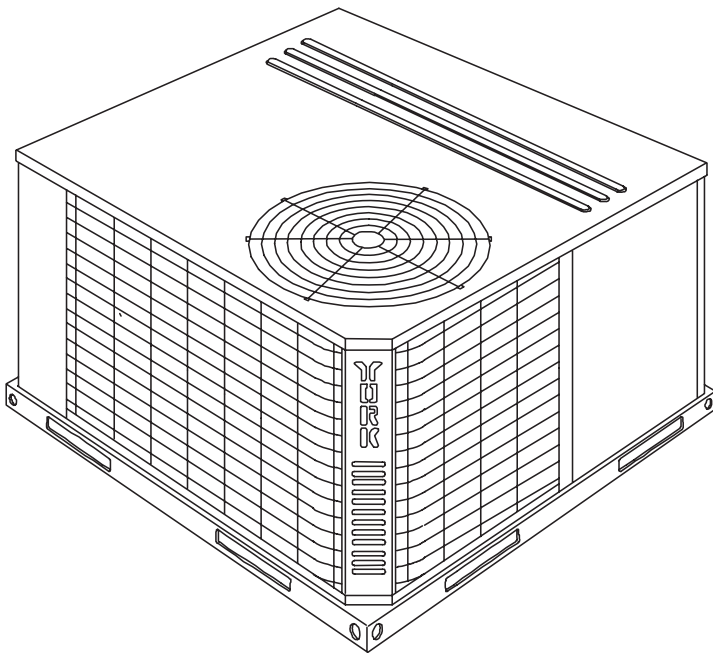
2 - 5 TON

60 Hertz

Description

These York® Affinity™ packaged air conditioners are designed for outdoor installation. Only utility and duct connections are required at the point of installation.

Field-installed electric heater accessories are available to provide electric heat, if required.



Tested in accordance with:



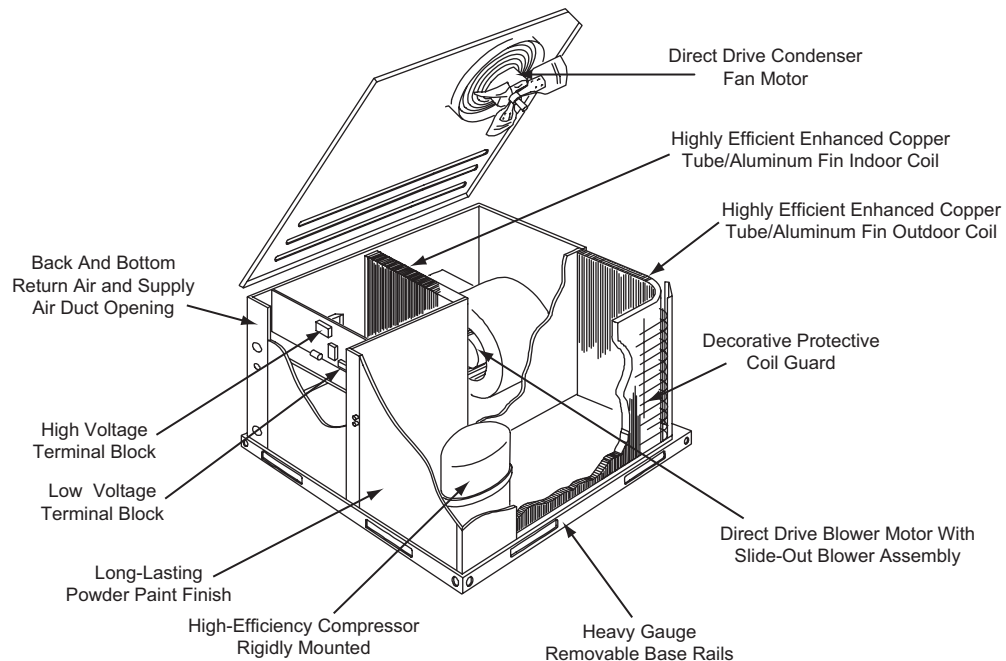
ISO 9001
Certified Quality
Management System

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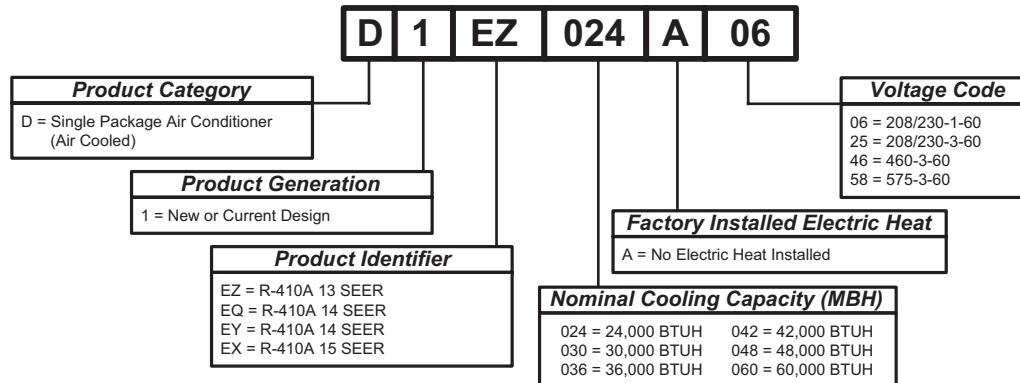
Component Location

Cooling Only



Nomenclature

Cooling Only



Features and Benefits

Standard Features

- **Operating Efficiency** - All air conditioners provide operating efficiencies of 13 to 15 SEER. All efficiencies exceed legislated minimum levels.
- **On Site Flexibility** - All model sizes share a common, compact design cabinet in a single footprint. The installer has the flexibility of setting one curb and placing the proper tonnage unit on that curb after the internal load has been determined. Field convertible duct connections from side shot to down shot allows the installer to have greater flexibility with less inventory.
- **Lower Installation Cost** - Installation time and costs are reduced by easy power and control wiring connections. The small base dimension means less space is required on the ground or roof, plus, the installer can fit this unit between the wheel wells of full size pick-up truck. All units are completely wired, charged with R-410A and tested prior to shipment. Unique test stations using a new state of the art computerized process system are used to insure product quality. Refrigerant charge and component part numbers are verified via computers at assembly. Vital run test statistics such as system pressure, motor currents, air velocity and temperature, unit vibration, and gas system safeties are monitored and recorded by the system to insure unit performance. Equal size, side supply and return duct connections allows easy hook-up of ducts to match low crawl spaces without transition pieces.
- **Utility Connections Made Easy** - Electric utility knockouts are provided through the bottom as well as the side of the unit. Utility connections can be made quickly and with a minimum amount of field labor. A field supplied and field installed electrical disconnect switch must be installed.
- **Convertible Airflow Design** - The bottom duct openings are covered when they leave the factory ready to be used for a side supply/side return application. If a bottom supply/bottom return application is desired, you simply remove the two panels from the bottom of the unit and place them in the side supply/side return duct openings. No panel cutting is required and no accessory panel is

necessary. Convertible airflow design allows maximum field flexibility and minimum inventory.

- **Condensate Pan** - A non-corrosive, long-lasting, water-tight pan is positioned below the evaporator coil to collect and drain all condensate. Less collection of stagnate condensate will build-up. The condensate pan conforms to ASHRAE 62-89 standards (Ventilation for Acceptable Indoor Air Quality).
- **Condensate Drain** - The heavy duty, 3/4 inch NPTI copper connection is more durable over time. The connection is rigidly mounted to assure proper fit and leak tight seal.
- **Durable Finish** - With a heavy duty cabinet made of powder-painted, galvanized steel the neutral color blends into surrounding areas. The powdered paint provides a better paint to steel bond, which resists corrosion and rust creep. The special primer formulas and glossy finish insures less fading when exposed to sunlight and offers a more attractive on site appearance. This paint finish meets ASTM-B117 standards for 1000 hours salt spray rating. The highest in the industry.
- **Full Perimeter Base Rails** - The easily removable base rails provide a solid foundation for the entire unit and protects the unit during shipment. The rails provide fork lift access from all sides, and rigging holes are also provided so that an overhead crane can be used to place the units on a roof. On applications where the unit is placed on a pad, the base will keep the unit off the pad to deter corrosion. On applications where height is limited, the inch high base rails may be removed on location.
- **More Attractive Appearance** - A single piece Water Shed top cover containing a top discharge condenser fan arrangement requires less square footage on installation and provides a wider variety of installations. The one piece design adds greater water integrity. Rounded corners with water drip edges add to the attractive appearance. The cabinet panels have a non-fibrous insulation that will not release insulation fibers into conditioned area.
- **Top Discharge** - The top discharge condenser fan does not disrupt neighboring areas or dry-out vegetation surrounding the unit. The warm air from the top mounted fan is blown up away from the structure and any landscaping. This allows compact location on multi-unit applications.

- **Condenser Coil Grille** - A multi-piece totally enclosed, rigidly mounted condenser coil grille provides protection from objects after installation and provides protection during transit.
- **Low Operating Sound Level** - The upward air flow carries the normal operating noise up and away from the living area. The rigid top panel effectively isolates any motor sound. Isolator mounted compressor and the rippled fins of the condenser coil muffle the normal fan motor and compressor operating sounds. The unique formed base pan also aids in sound alterations with its Super-Structure design. This design strategically places embossments in the pan for optimum strength and rigidity.
- **Fan System** - All models operate over a wide range of design conditions with an electrically commutated fan motor. These units easily match all types of applications and provide greater on site flexibility to match comfort requirement. The cooling speed is factory set and can be field adjusted to a second speed. The heating speed is factory set but can be field adjusted. This allows maximum comfort conditions.
- **Simple Control Circuit** - A low voltage printed circuit board contains a diagnostic indicator light and a low voltage terminal strip. An additional set of pin connectors is also provided to simplify the field interface of external controls. Mate-n-lock plug connectors are used. The electrical control box is not located in the compressor compartment. The controls are mounted on a Control-Tilt control panel to allow the access cover to be removed for trouble shooting and maintenance without affecting the normal system operating pressures. All wiring internal to the unit is color/number coded.
- **Protected Compressor** - The compressor is internally protected against high pressure and temperature. This is accomplished by the simultaneous operation of high pressure relief valve and a temperature sensor which protect the compressor if undesirable operating conditions occur.
- **Pressure Switches** - High pressure and low pressure/loss of charge switches standard in all units. When abnormal conditions are sensed through the pressure switches, the unit will lock out preventing any further operation until reset or problem is corrected.
- **Exclusive Coil Design** - Grooved copper tubes and enhanced aluminum fin construction improves heat transfer for maximum efficiency and durability.
- **Self Diagnostic Fan Control Module** - Due to this self diagnostic control, less on site time is required to trouble shoot these units.
- **Low Maintenance** - Long life, permanently lubricated condenser and evaporator fan motor bearings need no annual maintenance adding greater reliability to the unit. Blower assembly can be easily cleaned by the unique Slip-Track slide-out blower assembly.
- **Secured Service Access Ports** - Protected, externally mounted, re-usable service access ports are provided on both the high and low lines for ease of evacuating and charging the system. No final field mounting required.
- **Easy Service Access** - A large, single panel covers the electrical controls to make servicing easy. The blower

compartment has an additional large panel with a built-in handle tab. Removing this panel will allow the blower assembly to slide-out for easy removal for maintenance and ease of trouble shooting.

- **Replacement Parts** - The installer requires no special training to replace any of the components of these units and does not need to maintain an inventory of unique parts.
- **System Integration** - Each unit has the internal ability to integrate an electronic air cleaner or humidifier to work in conjunction with the base unit.

Field Installed Accessories

- **Economizer Down Discharge/Supply Kit** - Modulating integrated economizer provides simultaneous operation between the mechanical cooling and economizer operation. Independent blade design insures proper control and less than 1% leak rate. Includes hood and mesh bird screen filter integrated into the hood, dry bulb sensor and relief damper. Separate field accessories of single enthalpy and dual enthalpy are also available. A built-in barometric relief of 25% is provided.
- **Single Enthalpy Sensor** - Sensor replaces dry bulb sensor standard in economizer kit. Provides improved economizer operation by sensing the dry bulb temperature from outdoors plus the enthalpy content of the outdoor air.
- **Dual Enthalpy Sensor** - Additional sensor to single enthalpy sensor. Sensor senses both the return air temperature dry bulb and humidity in conjunction with the single enthalpy to determine the most economical mix. Single Enthalpy sensor also required.
- **Hail Guard Kit** - Kit contains protective grilles made of expanded aluminum with full perimeter frame. Sloped hoods are also included to assure maximum protection.
- **Filter/Frame Kit (Single Phase Only)** - Kit contains the necessary hardware to field install return air filters into the base unit. Pre-cut filter racks and appropriate cleanable standard size filters are shipped in one kit. The filter rack is suitable for either 1" or 2" filters. (1" filter is supplied) This kit is available for single phase horizontal or vertical duct application only. Standard in all 3 Phase models.
- **Motorized Fresh Air Damper** - Designed for duct mounted side supply/return and unit mounted down supply/return applications. Damper capable of providing 0% through 50% of outdoor air (field supplied). Closes on power loss, includes hood and screen assembly.
- **Rectangle To Round Adapters** - Kit includes one supply and one return air rectangle to round duct adapter. Adapters are preformed and designed to fit over current duct openings on the base unit. Transition is from side square duct opening to 14" round duct opening.
- **Roof Curbs** - NRCA approved curbs provide proper fit to base unit for rooftop installations. Curbs are designed to be assembled through hinge pins in each corner. Kit also provides seal strip to assure a water tight seal. 8 and 14 inch high roof curbs are available.
- **Manual Outdoor Damper** - Provides 0% through 50% outdoor air capability (field adjustable). Designed for duct

mounted side supply/return applications. Includes hood and screen assembly.

- **Wall Thermostat** - The units are designed to operate with 24-volt electronic and electro-mechanical thermostats. All units can operate with single stage heat/single stage cool thermostats - with or without the economizer.
- **Low Ambient Kit** - Kit provides necessary hardware to convert unit to operate in cooling cycle down to 0° F. Standard unit operation 45° F.
- **Transformer Kit** - Kit provides necessary hardware to provide single phase models from factory furnished 40 VA transformer capability to 75 VA transformer capability. (Required on installations with economizer or motorized damper.)

Guide Specifications

General

Units shall be manufactured by Johnson Controls Unitary Products in an ISO 9001 certified facility. YORK's Affinity™ package units give you the flexibility and choices you need in today's market. These packaged air conditioners are designed for outdoor installation. Only utility and duct connections are required at the point of installation.

Description

Units shall be factory-assembled, single packaged, Electric Cooling units, designed for outdoor mounted installation. For SEER ratings, refer to technical literature. They shall have built in, equal size, field convertible duct connections for down discharge supply/return or horizontal discharge supply/return. The units shall be factory wired, piped, charged with R-410A Refrigerant and factory tested prior to shipment. All unit wiring shall be both numbered and color coded. All units shall be manufactured in a facility certified to ISO 9001 standards, and the cooling performance shall be rated in accordance with DOE and ARI test procedures. Units shall be CSA listed and classified to ANSI Z21.47/CAN/CSA 2.3 standards and UL 1995/CAN/CSA No. 236-M90 conditions.

Unit Cabinet

Unit cabinet shall be constructed of G90 galvanized steel, with exterior surfaces coated with a non-chalking, powdered paint finish, certified at 1000 hours salt spray test per ASTM-B117 standards. The unit top shall be a single piece "Water Shed" design, with drip edges and no-seam corners to provide optimum water integrity. Unit shall have a rigidly mounted condenser coil guard to provide protection from objects and personnel after installation. Indoor blower section shall be insulated with up to 3/4" thick, aluminum, foil faced insulation, fastened to prevent insulation from entering the air stream. Cabinet panels shall be "large" size, easily removable for servicing and maintenance, with built-in lift handles. Unit shall be built on a formed, "Super-Structure" design base pan, with embossments at critical points to add strength, rigidity and aid in minimizing sound. Full perimeter base rails shall be provided to assure reliable transit of equipment, overhead rigging, for truck access and proper sealing on roof curb applications. Base rails shall be removable, when required, to lower unit height. Filters shall be furnished and be accessible through a removable access door, sealed airtight. Units vertical

discharge and return duct configuration shall be designed to fit between standard 24" O.C. beams without modification to building structure, duct work and base unit. Condensate pan shall be internally sloped and conform to ASHRAE 62-89 self-draining standards, with 3/4" NPTI copper, ridged mount connection.

Indoor (Evaporator) Fan Assembly

Fan shall be direct drive design. Fan wheel shall be double-inlet type with forward-curved blades, dynamically balanced to operate smoothly throughout the entire range of operation. Airflow design shall be constant air volume. Bearings shall be sealed and permanently lubricated for longer life and no maintenance. Fan assembly shall be "Slip Track" (slide-out) design for easy removal and cleaning.

Outdoor (Condenser) Fan Assembly

The outdoor fan shall be of the direct-driven propeller type, discharge air vertically, have aluminum blades riveted to corrosion resistant steel spider bracket and shall be statically balanced for smooth operation. The outdoor fan motor shall be totally enclosed with permanently lubricated bearings and internally protected against overload conditions.

Refrigerant Components

Compressors:

- Shall be fully hermetic type, direct drive, internally protected with internal high-pressure relief and over temperature protection. The hermetic motor shall be suction gas cooled and have a voltage range of +/- 10% of the unit nameplate voltage.
- Shall have internal isolation and sound muffling to minimize vibration and noise, and be externally isolated on a dedicated, independent mounting.

Coils:

- Evaporator and condenser coils shall have aluminum plate fins mechanically bonded to seamless internally enhanced copper tubes with all joints brazed.
- Evaporator coil shall be of the direct expansion, blow through design, while condenser coil shall be draw through design.

Refrigerant Circuit and Refrigerant Safety Components shall include:

- Shall include independent fixed orifice expansion devices.
- Shall include filter/strainer to eliminate any foreign matter.

Electric Heating Section (Field Install Accessory)

An electric heating section, with nickel chromium elements, shall be provided in a range of 5 thru 25 KW. The heating section shall have a primary limit control(s) (automatic reset) to prevent the heating element system from operating at an excessive temperature. The Heating Section assembly shall slide out of the unit for easy maintenance and service. Units with Electric Heating Sections shall be wired for a single point power supply with branch circuit fusing (where required).

DEX024-048 Physical Data

Component	Models				
	DEX024	DEX030	DEX036	DEX042	DEX048
Nominal Tonnage	2.0	2.5	3.0	3.5	4.0
ARI COOLING PERFORMANCE					
Gross Capacity @ ARI A point (Btu)	23.5	29.2	36.8	44.5	50.8
ARI net capacity (Btu)	23.2	28.6	36.0	43.5	49.0
EER	12.3	12.3	12.3	12.3	12.3
SEER	15	15	15	15	15
Nominal CFM	800	1000	1150	1400	1600
System power (KW)	1.9	2.3	2.9	3.5	4.0
Refrigerant type	R-410a	R-410a	R-410a	R-410a	R-410a
Refrigerant charge (lb-oz)	5-0	8-0	8-0	7-8	10-0
DIMENSIONS (inches)					
Length	49 1/8	49 1/8	49 1/8	49 1/8	49 1/8
Width	47 1/4	47 1/4	47 1/4	47 1/4	47 1/4
Height	33 1/2	33 1/2	33 1/2	41 1/2	41 1/2
OPERATING WT. (lbs.)	355	390	400	410	440
COMPRESSORS					
Type	Scroll 2-spd	Scroll 2-spd	Scroll 2-spd	Scroll 2-spd	Scroll 2-spd
Quantity	1	1	1	1	1
CONDENSER COIL DATA					
Face area (Sq. Ft.)	11.7	11.7	11.7	16.4	16.4
Rows	1	2	2	1	2
Fins per inch	20	20	20	20	20
Tube diameter (in.)	3/8	3/8	3/8	3/8	3/8
Circuitry Type	Interlaced	Interlaced	Interlaced	Interlaced	Interlaced
EVAPORATOR COIL DATA					
Face area (Sq. Ft.)	4.38	4.38	4.38	5.63	5.63
Rows	2	2	3	3	3
Fins per inch	15	15	15	16	16
Tube diameter	3/8	3/8	3/8	3/8	3/8
Circuitry Type	Interlaced	Interlaced	Interlaced	Interlaced	Interlaced
Refrigerant control	TX Valve	TX Valve	TX Valve	TX Valve	TX Valve
CONDENSER FAN DATA					
Fan diameter (Inch)	22	22	22	22	22
Type	Prop.	Prop.	Prop.	Prop.	Prop.
Drive type	Direct	Direct	Direct	Direct	Direct
No. speeds	1	1	1	1	1
Number of motors	1	1	1	1	1
Motor HP each	1/4	1/4	1/4	1/4	1/3
RPM	850	850	850	1100	1100
Nominal total CFM	1800	1800	2400	3000	3000
DIRECT DRIVE EVAP FAN DATA					
Quantity	1	1	1	1	1
Fan Size (Inch)	10 x 8	10 x 8	10 x 8	11 x 10	11 x 10
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
No. speeds	2	2	2	2	2
Motor HP each	1/2	1/2	1/2	3/4	3/4
RPM	Variable	Variable	Variable	Variable	Variable
Frame size	48	48	48	48	48
FILTERS					
Quantity - Size	2 - 22 x 14 x 1	2 - 22 x 14 x 1	2 - 22 x 14 x 1	2 - 22 x 14 x 1	2 - 22 x 14 x 1

DEY060 Physical Data

Component	Models
	DEY060
Nominal Tonnage	5.0
ARI COOLING PERFORMANCE	
Gross Capacity @ ARI A point (Btu)	60.4
ARI net capacity (Btu)	58.5
EER	11.6
SEER	14.5
Nominal CFM	1750
System power (KW)	5.0
Refrigerant type	R-410a
Refrigerant charge (lb-oz)	10-8
DIMENSIONS (inches)	
Length	49 1/8
Width	47 1/4
Height	41 1/2
OPERATING WT. (lbs.)	460
COMPRESSORS	
Type	Scroll 2-spd
Quantity	1
CONDENSER COIL DATA	
Face area (Sq. Ft.)	16.4
Rows	2
Fins per inch	20
Tube diameter (in.)	3/8
Circuitry Type	Interlaced
EVAPORATOR COIL DATA	
Face area (Sq. Ft.)	5.63
Rows	3
Fins per inch	16
Tube diameter	3/8
Circuitry Type	Interlaced
Refrigerant control	TX Valve
CONDENSER FAN DATA	
Fan diameter (Inch)	22
Type	Prop.
Drive type	Direct
No. speeds	1
Number of motors	1
Motor HP each	1/3
RPM	1100
Nominal total CFM	3000
DIRECT DRIVE EVAP FAN DATA	
Quantity	1
Fan Size (Inch)	11 x 10
Type	Centrifugal
No. speeds	2
Motor HP each	1
RPM	Variable
Frame size	48
FILTERS	
Quantity - Size	2 - 22 x 14 x 1

Unit Limitations

Size (Tons)	Model	Unit Voltage	Unit Limitations		
			Applied Voltage		Outdoor DB Temp
			Min	Max	Max (°F)
024 (2.0)	DEZ, DEQ	208/230-1-60	187	252	125
	DEX	208/230-1-60	187	252	115
030 (2.5)	DEZ, DEQ	208/230-1-60	187	252	125
	DEX	208/230-1-60	187	252	115
036 (3.0)	DEZ DEQ	208/230-1-60	187	252	125
		208/230-3-60	187	252	125
		460-3-60	432	504	125
		575-3-60	540	630	125
	DEX	208/230-1-60	187	252	115
		208/230-3-60	187	252	115
042 (3.5)	DEZ DEQ	208/230-1-60	187	252	125
		208/230-3-60	187	252	125
		460-3-60	432	504	125
		575-3-60	540	630	125
	DEX	208/230-1-60	187	252	115
		208/230-3-60	187	252	115
048 (4.0)	DEZ DEQ	208/230-1-60	187	252	125
		208/230-3-60	187	252	125
		460-3-60	432	504	125
		575-3-60	540	630	125
	DEX	208/230-1-60	187	252	115
		208/230-3-60	187	252	115
060 (5.0)	DEZ DEQ	208/230-1-60	187	252	125
		208/230-3-60	187	252	125
		460-3-60	432	504	125
		575-3-60	540	630	125
	DEY	208/230-1-60	187	252	115
		208/230-3-60	187	252	115
		460-3-60	432	504	115

DEX024-048 Cooling Capacities

DEX024 (2.0 Ton)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
				75°F						85°F							
600	77	21.5	1.1	7.5	7.8	6.8	-	-	-	21.6	1.3	9.8	8.3	6.9	-	-	
	72	21.3	1.1	14.3	12.7	11.0	9.3	-	-	20.7	1.3	14.8	12.8	10.8	8.9	-	
	67	21.2	1.1	21.2	17.6	15.2	12.9	10.6	-	19.7	1.3	19.7	17.3	14.8	12.2	9.7	
	62	20.2	1.1	20.2	20.2	19.9	15.6	11.4	7.1	18.4	1.3	18.4	18.4	18.3	14.0	9.8	
	57	19.4	1.1	19.4	19.4	19.4	15.1	10.9	6.6	18.2	1.3	18.2	18.2	18.2	13.9	9.6	
800	77	30.1	1.6	13.1	12.3	10.2	-	-	-	28.9	1.8	13.9	11.7	9.6	-	-	
	72	28.4	1.6	19.9	17.3	14.8	12.2	-	-	26.9	1.8	19.4	16.8	14.1	11.4	-	
	67	26.7	1.5	26.7	22.4	19.3	16.2	13.1	-	24.9	1.7	24.9	21.8	18.6	15.4	12.2	
	62	24.0	1.5	24.0	24.0	24.0	20.6	17.1	13.7	22.7	1.7	22.7	22.7	22.7	19.2	15.7	
	57	24.4	1.5	24.4	24.4	24.4	20.8	17.3	13.7	23.0	1.7	23.0	23.0	23.0	19.5	15.9	
				95°F						105°F							
600	77	21.8	1.4	12.1	8.8	7.0	-	-	-	20.2	1.6	12.7	8.7	6.5	-	-	
	72	20.0	1.4	15.2	13.0	10.7	8.4	-	-	18.4	1.6	14.7	12.4	10.1	7.8	-	
	67	18.3	1.4	18.3	17.1	14.3	11.6	8.8	-	16.6	1.6	16.6	16.0	13.6	10.3	6.9	
	62	16.6	1.4	16.6	16.6	16.6	12.4	8.2	3.9	15.4	1.6	15.4	15.4	15.4	11.2	7.1	
	57	17.0	1.4	17.0	17.0	17.0	12.7	8.3	4.0	15.5	1.6	15.5	15.5	15.5	12.0	8.4	
800	77	27.8	2.0	14.7	11.2	9.0	-	-	-	25.8	2.3	15.2	10.6	8.3	-	-	
	72	25.5	1.9	18.9	16.2	13.4	10.7	-	-	23.6	2.2	18.3	15.5	12.7	9.9	-	
	67	23.2	1.9	23.2	21.2	17.9	14.6	11.3	-	21.4	2.2	21.4	20.4	17.1	13.8	10.5	
	62	21.4	1.9	21.4	21.4	21.4	17.9	14.4	10.9	19.9	2.1	19.9	19.9	19.9	16.4	12.9	
	57	21.6	1.8	21.6	21.6	21.6	18.1	14.6	11.1	20.0	2.1	20.0	20.0	20.0	16.5	13.0	
				115°F													
600	77	18.7	1.8	13.2	8.5	6.0	-	-	-								
	72	16.8	1.8	14.1	11.8	9.4	7.1	-	-								
	67	15.0	1.8	15.0	15.0	12.9	9.0	5.1	-								
	62	14.2	1.8	14.2	14.2	14.2	10.1	6.0	1.9								
	57	14.1	1.8	14.1	14.1	14.1	11.3	8.4	5.6								
800	77	23.7	2.5	15.7	10.1	7.6	-	-	-								
	72	21.7	2.4	17.6	14.8	11.9	9.1	-	-								
	67	19.6	2.3	19.6	19.5	16.2	13.0	9.7	-								
	62	18.4	2.3	18.4	18.4	18.4	15.0	11.5	8.0								
	57	18.3	2.3	18.3	18.3	18.3	14.8	11.3	7.8								

1. These capacities are Net Capacities.
2. These ratings include the compressor, condenser fan and supply air blower motors.

DEX030 (2.5 Ton)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
				75°F						85°F							
675	77	29.5	1.3	14.1	12.0	9.9	-	-	-	27.9	1.5	13.4	11.3	9.2	-	-	-
	72	27.2	1.3	18.6	16.2	13.7	11.3	-	-	25.7	1.5	17.9	15.5	13.1	10.6	-	-
	67	25.0	1.3	23.0	20.3	17.5	14.8	12.0	-	23.5	1.5	22.5	19.7	16.9	14.1	11.3	-
	62	22.8	1.4	22.8	22.8	21.4	17.3	13.3	9.2	21.5	1.5	21.5	20.7	16.5	12.4	8.3	-
	57	20.1	1.4	20.1	20.1	20.3	15.8	11.2	6.6	20.0	1.5	20.0	20.0	20.2	15.8	11.4	7.0
1000	77	37.4	2.1	16.7	14.7	12.0	-	-	-	37.2	2.3	17.4	14.7	12.0	-	-	-
	72	36.3	2.1	24.7	21.5	18.3	15.1	-	-	34.6	2.2	24.0	20.8	17.6	14.4	-	-
	67	35.3	2.1	32.7	28.3	24.5	20.8	17.0	-	32.0	2.2	30.7	26.9	23.2	19.4	15.7	-
	62	31.0	1.9	31.0	31.0	28.8	24.8	20.7	16.6	29.2	2.1	29.2	28.0	23.9	19.8	15.7	-
	57	30.5	1.9	30.5	30.5	30.5	26.3	22.1	17.9	28.9	2.1	28.9	28.9	28.8	24.7	20.5	16.3
				95°F						105°F							
675	77	26.3	1.7	12.6	10.6	8.6	-	-	-	24.3	2.0	12.7	9.3	7.8	-	-	-
	72	24.2	1.7	17.3	14.8	12.4	10.0	-	-	22.2	2.0	16.4	14.0	11.6	9.2	-	-
	67	22.0	1.7	21.9	19.1	16.2	13.4	10.6	-	20.2	2.0	20.1	18.7	15.4	12.1	8.8	-
	62	20.2	1.7	20.2	20.2	20.0	15.7	11.5	7.3	18.3	2.0	18.3	18.3	18.3	14.1	10.0	5.8
	57	19.9	1.7	19.9	19.9	20.2	15.9	11.6	7.4	18.3	2.0	18.3	18.3	18.6	14.9	11.1	7.4
1000	77	37.1	2.7	18.1	14.7	12.0	-	-	-	34.0	2.9	17.7	13.6	10.9	-	-	-
	72	32.9	2.5	23.4	20.1	16.9	13.7	-	-	30.5	2.8	22.4	19.2	16.0	12.8	-	-
	67	28.6	2.3	28.6	25.5	21.8	18.0	14.3	-	27.1	2.7	27.1	24.8	21.1	17.4	13.6	-
	62	27.5	2.4	27.5	27.5	27.1	23.0	18.9	14.8	25.6	2.7	25.6	25.6	25.4	21.3	17.3	13.2
	57	27.3	2.4	27.3	27.3	27.2	23.1	18.9	14.8	25.5	2.7	25.5	25.5	25.4	21.3	17.2	13.1
				115°F													
675	77	22.3	2.2	12.8	8.1	7.1	-	-	-								
	72	20.3	2.2	15.5	13.2	10.8	8.5	-	-								
	67	18.3	2.2	18.3	18.3	14.6	10.8	7.1	-								
	62	16.5	2.2	16.5	16.5	16.7	12.5	8.4	4.2								
	57	16.8	2.2	16.8	16.8	17.0	13.8	10.6	7.4								
1000	77	30.8	3.1	17.4	12.5	9.8	-	-	-								
	72	28.2	3.1	21.5	18.3	15.1	11.9	-	-								
	67	25.6	3.0	25.6	24.1	20.4	16.7	12.9	-								
	62	23.8	2.9	23.8	23.8	23.7	19.7	15.6	11.5								
	57	23.7	2.9	23.7	23.7	23.7	19.6	15.5	11.4								

1. These capacities are Net Capacities.
2. These ratings include the compressor, condenser fan and supply air blower motors.

DEX036 (3.0 Ton)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
				75°F						85°F							
800	77	36.6	1.5	17.4	15.3	12.6	-	-	-	34.0	1.7	17.2	14.4	11.7	-	-	-
	72	31.9	1.5	21.9	18.9	15.9	12.9	-	-	30.1	1.7	21.6	18.5	15.4	12.3	-	-
	67	27.2	1.5	26.5	22.6	19.2	15.7	12.3	-	26.3	1.7	25.9	22.5	19.1	15.7	12.3	-
	62	26.6	1.5	26.6	26.6	25.4	21.2	17.0	12.8	25.1	1.7	25.1	25.1	24.2	20.1	15.9	11.8
	57	23.8	1.5	23.8	23.8	24.0	19.8	15.5	11.2	23.6	1.7	23.6	23.6	23.6	19.4	15.2	11.0
1150	77	48.0	2.4	23.1	19.5	15.9	-	-	-	46.1	2.7	22.2	18.7	15.1	-	-	-
	72	44.5	2.4	30.7	26.6	22.5	18.4	-	-	42.3	2.7	29.7	25.6	21.5	17.5	-	-
	67	41.1	2.4	38.3	33.7	29.1	24.5	19.9	-	38.5	2.6	37.1	32.6	28.0	23.4	18.8	-
	62	37.5	2.3	37.5	37.5	36.4	31.4	26.4	21.4	35.7	2.5	35.7	35.7	34.7	29.7	24.7	19.7
	57	37.6	2.3	37.6	37.6	37.8	32.6	27.4	22.3	35.7	2.5	35.7	35.7	35.7	30.5	25.4	20.3
				95°F						105°F							
800	77	31.4	1.9	16.9	13.6	10.7	-	-	-	28.7	2.2	16.5	12.0	9.5	-	-	-
	72	28.4	1.9	21.2	18.0	14.9	11.8	-	-	26.1	2.2	20.0	16.9	13.9	10.8	-	-
	67	25.4	1.9	25.4	22.5	19.1	15.7	12.3	-	23.5	2.2	23.5	21.9	18.2	14.6	11.0	-
	62	23.5	1.9	23.5	23.5	23.1	19.0	14.9	10.8	21.6	2.2	21.6	21.6	21.4	17.3	13.3	9.2
	57	23.5	1.9	23.5	23.5	23.2	19.0	14.9	10.7	21.9	2.2	21.9	21.9	21.7	17.8	13.9	10.0
1150	77	44.2	3.2	21.3	17.8	14.3	-	-	-	41.1	3.4	21.3	16.5	13.0	-	-	-
	72	40.1	3.1	28.6	24.6	20.6	16.5	-	-	37.4	3.3	27.5	23.5	19.4	15.4	-	-
	67	36.0	2.9	36.0	31.4	26.8	22.3	17.7	-	33.8	3.2	33.8	30.5	25.9	21.4	16.8	-
	62	33.9	2.9	33.9	33.9	32.9	28.0	23.0	18.0	31.5	3.2	31.5	31.5	31.1	26.2	21.3	16.5
	57	33.7	2.9	33.7	33.7	33.5	28.5	23.4	18.3	31.7	3.1	31.7	31.7	31.5	26.6	21.6	16.6
				115°F													
800	77	26.1	2.4	16.2	10.5	8.3	-	-	-								
	72	23.8	2.4	18.9	15.8	12.8	9.8	-	-								
	67	21.6	2.4	21.6	21.2	17.3	13.5	9.6	-								
	62	19.8	2.4	19.8	19.8	19.8	15.7	11.6	7.6								
	57	20.3	2.4	20.3	20.3	20.1	16.5	12.9	9.3								
1150	77	38.0	3.8	21.2	15.2	11.7	-	-	-								
	72	34.8	3.8	26.4	22.4	18.3	14.3	-	-								
	67	31.6	3.7	31.6	29.6	25.0	20.5	15.9	-								
	62	29.2	3.6	29.2	29.2	29.2	24.4	19.7	14.9								
	57	29.6	3.6	29.6	29.6	29.5	24.7	19.8	15.0								

1. These capacities are Net Capacities.
2. These ratings include the compressor, condenser fan and supply air blower motors.

DEX042 (3.5 Ton)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
				75°F						85°F							
925	77	40.2	1.9	21.0	17.4	13.7	-	-	-	37.3	2.2	19.2	15.7	12.2	-	-	-
	72	37.1	1.9	26.3	22.4	18.5	14.7	-	-	34.5	2.1	24.8	20.9	17.1	13.3	-	-
	67	34.0	1.9	31.6	27.5	23.3	19.2	15.1	-	31.6	2.1	30.3	26.2	22.1	18.0	13.8	-
	62	30.5	1.9	30.5	30.5	27.7	23.2	18.8	14.3	28.1	2.1	28.1	28.1	26.5	22.0	17.6	13.2
	57	29.4	1.8	29.4	29.4	29.4	24.8	20.1	15.5	27.5	2.1	27.5	27.5	27.5	22.9	18.3	13.7
1400	77	61.7	3.4	29.1	24.8	20.4	-	-	-	56.7	3.3	27.2	22.8	18.4	-	-	-
	72	55.5	3.1	37.9	32.7	27.6	22.4	-	-	51.6	3.3	36.1	31.0	25.8	20.7	-	-
	67	49.4	3.1	46.7	40.7	34.7	28.8	22.8	-	46.5	3.3	45.0	39.1	33.3	27.5	21.7	-
	62	44.5	3.0	44.5	44.5	42.4	36.2	30.1	23.9	41.8	3.2	41.8	41.8	40.8	34.6	28.4	22.3
	57	46.0	2.9	46.0	46.0	45.5	39.2	32.8	26.4	42.9	3.1	42.9	42.9	42.7	36.4	30.1	23.8
				95°F						105°F							
925	77	34.4	2.4	17.5	14.0	10.6	-	-	-	31.7	2.6	17.7	12.8	9.6	-	-	-
	72	31.8	2.3	23.3	19.5	15.7	11.9	-	-	29.0	2.6	21.9	18.3	14.6	10.9	-	-
	67	29.2	2.3	29.1	24.9	20.8	16.7	12.6	-	26.3	2.6	26.2	23.8	19.6	15.5	11.4	-
	62	25.7	2.4	25.7	25.7	25.3	20.9	16.5	12.1	23.5	2.6	23.5	23.5	23.3	18.9	14.5	10.1
	57	25.6	2.4	25.6	25.6	25.6	21.0	16.5	11.9	23.6	2.7	23.6	23.6	23.5	19.1	14.7	10.4
1400	77	51.7	3.8	25.3	20.8	16.3	-	-	-	47.4	4.1	24.9	18.7	14.5	-	-	-
	72	47.6	3.7	34.3	29.2	24.1	19.0	-	-	43.5	4.0	32.2	27.3	22.4	17.5	-	-
	67	43.5	3.5	43.3	37.6	31.9	26.2	20.5	-	39.5	3.9	39.4	35.9	30.3	24.7	19.1	-
	62	39.2	3.5	39.2	39.2	39.2	33.0	26.8	20.7	36.2	3.8	36.2	36.2	36.2	30.1	24.0	17.9
	57	39.8	3.5	39.8	39.8	39.8	33.6	27.4	21.2	36.7	3.8	36.7	36.7	36.8	30.7	24.6	18.5
				115°F													
925	77	28.9	2.9	17.9	11.5	8.6	-	-	-								
	72	26.2	2.9	20.6	17.1	13.5	9.9	-	-								
	67	23.4	2.9	23.4	22.6	18.4	14.3	10.1	-								
	62	21.3	2.9	21.3	21.3	21.3	16.9	12.6	8.2								
	57	21.5	2.9	21.5	21.5	21.4	17.2	13.0	8.8								
1400	77	43.2	4.5	24.6	16.5	12.6	-	-	-								
	72	39.4	4.4	30.1	25.4	20.7	16.0	-	-								
	67	35.6	4.3	35.6	34.2	28.7	23.3	17.8	-								
	62	33.2	4.2	33.2	33.2	33.3	27.2	21.2	15.2								
	57	33.6	4.2	33.6	33.6	33.8	27.8	21.9	15.9								

1. These capacities are Net Capacities.
2. These ratings include the compressor, condenser fan and supply air blower motors.

DEX048 (4.0 Ton)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
				75°F						85°F							
1050	77	47.3	2.2	23.6	19.9	16.0	-	-	-	44.7	2.4	22.6	18.6	14.6	-	-	-
	72	43.7	2.1	30.5	26.1	21.8	17.5	-	-	41.1	2.4	29.4	25.0	20.6	16.2	-	-
	67	40.1	2.1	37.3	32.3	27.6	22.9	18.1	-	37.5	2.4	36.1	31.4	26.6	21.8	17.0	-
	62	35.9	2.1	35.9	35.9	33.2	28.9	24.6	20.3	33.8	2.4	33.8	33.8	32.1	27.7	23.3	18.9
	57	35.5	2.1	35.5	35.5	35.5	30.9	26.3	21.6	33.4	2.4	33.4	33.4	33.4	28.8	24.2	19.7
1600	77	66.0	3.6	30.9	26.5	21.0	-	-	-	62.1	3.8	29.9	24.5	19.1	-	-	-
	72	61.0	3.5	42.4	36.3	30.1	24.0	-	-	57.3	3.7	40.7	34.6	28.5	22.3	-	-
	67	56.0	3.4	53.9	46.0	39.2	32.4	25.7	-	52.5	3.6	51.5	44.7	37.9	31.1	24.3	-
	62	51.7	3.3	51.7	51.7	48.9	41.6	34.2	26.8	48.7	3.5	48.7	48.7	47.2	39.8	32.4	24.9
	57	50.8	3.2	50.8	50.8	50.7	43.0	35.4	27.7	47.8	3.5	47.8	47.8	47.7	40.2	32.6	25.1
				95°F						105°F							
1050	77	42.1	2.7	21.6	17.3	13.2	-	-	-	38.2	3.1	22.1	16.4	12.0	-	-	-
	72	38.5	2.7	28.3	23.8	19.4	14.9	-	-	35.1	3.0	27.0	22.6	18.2	13.7	-	-
	67	35.0	2.7	35.0	30.4	25.6	20.7	15.9	-	31.9	3.0	31.9	28.8	24.3	19.8	15.3	-
	62	31.8	2.7	31.8	31.8	30.9	26.4	22.0	17.5	29.1	3.0	29.1	29.1	28.7	24.2	19.7	15.3
	57	31.3	2.7	31.3	31.3	31.3	26.8	22.2	17.7	29.0	3.0	29.0	29.0	29.0	24.2	19.4	14.6
1600	77	58.1	4.2	29.0	22.5	17.1	-	-	-	53.4	4.5	30.3	21.0	15.7	-	-	-
	72	53.6	4.1	39.0	32.9	26.8	20.7	-	-	49.0	4.4	37.5	31.4	25.3	19.3	-	-
	67	49.0	4.0	49.0	43.4	36.5	29.7	22.9	-	44.6	4.3	44.6	41.8	34.9	28.1	21.2	-
	62	45.6	3.9	45.6	45.6	45.5	38.0	30.5	23.0	41.6	4.2	41.6	41.6	41.6	34.1	26.6	19.2
	57	44.9	3.9	44.9	44.9	44.8	37.4	29.9	22.4	41.4	4.2	41.4	41.4	41.3	34.0	26.7	19.3
				115°F													
1050	77	34.3	3.4	22.6	15.4	10.8	-	-	-								
	72	31.6	3.4	25.7	21.3	16.9	12.6	-	-								
	67	28.9	3.3	28.9	27.2	23.1	18.9	14.7	-								
	62	26.4	3.3	26.4	26.4	26.4	22.0	17.5	13.0								
	57	26.7	3.3	26.7	26.7	26.7	21.6	16.5	11.4								
1600	77	48.7	4.9	31.7	19.6	14.4	-	-	-								
	72	44.4	4.8	36.0	29.9	23.8	17.8	-	-								
	67	40.2	4.8	40.2	40.2	33.3	26.4	19.5	-								
	62	37.7	4.6	37.7	37.7	37.7	30.2	22.8	15.3								
	57	37.9	4.6	37.9	37.9	37.9	30.6	23.4	16.2								

1. These capacities are Net Capacities.
2. These ratings include the compressor, condenser fan and supply air blower motors.

DEY060 Cooling Capacities

DEY060 (5.0 Ton)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input (kW) ²	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
				75°F						85°F							
1150	77	58.8	2.7	27.2	22.9	18.6	-	-	-	55.3	3.1	25.4	21.4	17.4	-	-	
	72	53.4	2.7	33.7	29.3	24.9	20.5	-	-	50.3	3.1	32.6	28.2	23.9	19.5	-	
	67	47.9	2.8	40.3	35.8	31.3	26.8	22.4	-	45.2	3.1	39.9	35.1	30.3	25.5	20.7	
	62	45.5	2.7	45.5	44.0	39.0	34.6	30.2	25.8	42.9	3.1	42.9	42.2	37.8	33.4	29.1	24.7
	57	44.6	2.7	44.6	44.6	42.8	38.3	33.8	29.4	41.8	3.1	41.8	41.8	40.3	35.7	31.2	26.7
1750	77	73.6	4.5	30.7	26.7	22.7	-	-	-	72.7	4.9	31.8	27.0	22.1	-	-	
	72	69.7	4.2	44.0	38.8	33.5	28.2	-	-	67.4	4.8	43.9	38.1	32.4	26.6	-	
	67	65.8	4.0	57.4	50.9	44.3	37.8	31.3	-	62.1	4.6	55.9	49.3	42.6	36.0	29.4	
	62	61.0	4.0	61.0	61.0	54.7	47.2	39.6	32.0	57.1	4.5	57.1	57.1	52.2	44.9	37.6	30.3
	57	58.9	3.9	58.9	58.9	58.2	50.7	43.3	35.8	56.4	4.5	56.4	56.4	55.6	48.0	40.4	32.8
				95°F						105°F							
1150	77	51.8	3.5	23.5	19.9	16.3	-	-	-	48.4	3.9	23.6	19.3	15.0	-	-	
	72	47.1	3.4	31.5	27.2	22.8	18.4	-	-	44.4	3.9	30.6	26.1	21.7	17.3	-	
	67	42.5	3.4	39.5	34.4	29.3	24.2	19.0	-	40.3	3.9	37.6	33.0	28.4	23.8	19.2	
	62	40.3	3.4	40.3	40.3	36.6	32.3	27.9	23.6	37.6	3.9	37.6	37.6	35.1	30.8	26.5	22.1
	57	38.9	3.4	38.9	38.9	37.7	33.2	28.6	24.1	36.5	3.8	36.5	36.5	35.3	30.4	25.4	20.4
1750	77	71.9	5.1	33.0	27.3	21.6	-	-	-	66.9	5.8	31.6	25.4	19.8	-	-	
	72	65.2	5.1	43.7	37.5	31.3	25.1	-	-	60.7	5.7	42.1	35.9	29.6	23.4	-	
	67	58.5	5.1	54.5	47.7	41.0	34.2	27.5	-	54.6	5.7	52.6	46.3	39.5	32.7	25.9	
	62	53.3	4.8	53.3	53.3	49.6	42.7	35.7	28.7	49.7	5.5	49.7	49.7	47.9	40.7	33.5	26.3
	57	54.0	4.8	54.0	54.0	53.0	45.2	37.5	29.8	50.9	5.5	50.9	50.9	49.9	42.2	34.5	26.8
				115°F													
1150	77	45.1	4.3	23.6	18.7	13.8	-	-	-								
	72	41.6	4.3	29.6	25.1	20.6	16.2	-	-								
	67	38.1	4.3	35.6	31.6	27.5	23.4	19.4	-								
	62	34.8	4.3	34.8	34.8	33.7	29.3	25.0	20.7								
	57	34.1	4.3	34.1	34.1	33.0	27.5	22.1	16.7								
1750	77	61.9	6.2	30.2	23.6	18.0	-	-	-								
	72	56.3	6.1	40.4	34.2	28.0	21.8	-	-								
	67	50.7	6.0	50.7	44.8	38.0	31.1	24.3	-								
	62	46.2	5.8	46.2	46.2	46.2	38.8	31.3	23.9								
	57	47.9	5.8	47.9	47.9	46.7	39.1	31.5	23.9								

1. These capacities are Net Capacities.
2. These ratings include the compressor, condenser fan and supply air blower motors.

Airflow Performance

Side Duct Application

DEY/DEX024-060

Size (Tons)	Model	Mode	Thermostat Input	Speed Tap	CFM	External Static Pressure (Inch Water Gauge)										
						0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
						Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts		
024 (2.0)	DEX	Cool	Low	Y1	COOL-A	600	57	74	91	108	126	143	161	179	197	
				Y1	COOL-B	450	39	54	69	84	100	117	134	152	171	
				Y1	COOL-C	525	47	63	79	95	112	129	146	164	182	
				Y1	COOL-D	675	71	88	106	124	142	161	179	198	216	
			High	Y1+Y2	COOL-A	800	99	117	137	156	176	196	217	237	258	
				Y1+Y2	COOL-B	600	57	74	91	108	126	143	161	179	197	
		Y1+Y2		COOL-C	700	76	94	112	130	148	167	186	205	224		
		Y1+Y2		COOL-D	900	126	146	166	187	208	231	253	277	300		
		Heat	W1	HEAT-A	800	99	117	137	156	-	-	-	-	-	-	
			W1	HEAT-B	720	80	98	116	135	-	-	-	-	-	-	
			W1	HEAT-C	880	120	140	160	180	-	-	-	-	-	-	
			030 (2.5)	DEX	Cool	Low	Y1	COOL-A	670	61	78	95	113	130	148	166
Y1	COOL-B						620	54	70	87	104	121	138	156	173	191
Y1	COOL-C						720	70	88	106	124	142	160	178	197	215
Y1	COOL-D	770					81	99	118	136	155	174	193	213	232	
High	Y1+Y2	COOL-A				1000	159	179	200	222	246	270	296	323	350	
	Y1+Y2	COOL-B				925	129	148	169	190	211	233	256	280	304	
	Y1+Y2	COOL-C			1075	194	214	236	260	285	312	341	371	403		
	Y1+Y2	COOL-D			1150	233	254	277	302	330	360	392	427	463		
Heat	W1	HEAT-A			1000	159	179	200	222	-	-	-	-	-	-	
	W1	HEAT-B			900	120	139	159	180	-	-	-	-	-	-	
	W1	HEAT-C			1100	206	227	249	274	-	-	-	-	-	-	
	W1	HEAT-D			1000	159	179	200	222	-	-	-	-	-	-	
	036 (3.0)	DEX	Cool	Low	Y1	COOL-A	900	120	139	159	180	201	222	244	267	291
					Y1	COOL-B	750	76	94	113	131	150	168	187	206	225
Y1					COOL-C	830	97	116	135	155	174	194	215	236	256	
Y1					COOL-D	980	150	170	191	213	236	260	285	311	337	
High				Y1+Y2	COOL-A	1200	261	283	306	333	362	394	429	467	507	
				Y1+Y2	COOL-B	1000	159	179	200	222	246	270	296	323	350	
			Y1+Y2	COOL-C	1100	206	227	249	274	300	328	357	389	422		
			Y1+Y2	COOL-D	1300	325	346	372	401	434	471	511	556	604		
Heat			W1	HEAT-A	1200	261	283	306	333	-	-	-	-	-	-	
			W1	HEAT-B	1080	196	217	239	263	-	-	-	-	-	-	
			W1	HEAT-C	1275	308	330	355	383	-	-	-	-	-	-	
			W1	HEAT-D	1200	261	283	306	333	-	-	-	-	-	-	
	042 (3.5)	DEX	Cool	Low	Y1	COOL-A	920	139	166	195	224	255	286	319	352	386
					Y1	COOL-B	790	100	124	149	176	205	235	266	299	333
Y1					COOL-C	850	117	143	170	198	227	257	289	322	356	
Y1					COOL-D	980	159	188	218	249	281	313	346	379	414	
High				Y1+Y2	COOL-A	1400	338	383	426	468	509	549	589	627	664	
				Y1+Y2	COOL-B	1200	245	281	318	354	390	426	462	497	533	
			Y1+Y2	COOL-C	1300	290	330	370	409	447	485	523	560	596		
			Y1+Y2	COOL-D	1500	391	439	486	532	576	618	660	700	739		
Heat			W1	HEAT-A	1225	256	293	330	367	-	-	-	-	-	-	
			W1	HEAT-B	1100	203	237	270	304	-	-	-	-	-	-	
			W1	HEAT-C	1350	314	356	397	438	-	-	-	-	-	-	
			W1	HEAT-D	1225	256	293	330	367	-	-	-	-	-	-	
	048 (4.0)	DEX	Cool	Low	Y1	COOL-A	1050	184	216	248	280	313	346	380	414	449
					Y1	COOL-B	920	139	166	195	224	255	286	319	352	386
Y1					COOL-C	980	159	188	218	249	281	313	346	379	414	
Y1					COOL-D	1120	211	245	279	313	348	382	417	452	486	
High				Y1+Y2	COOL-A	1600	448	500	551	600	647	693	736	779	819	
				Y1+Y2	COOL-B	1400	338	383	426	468	509	549	589	627	664	
			Y1+Y2	COOL-C	1500	391	439	486	532	576	618	660	700	739		
			Y1+Y2	COOL-D	1700	508	565	620	672	723	772	818	863	905		
Heat			W1	HEAT-A	1600	448	500	551	600	647	-	-	-	-	-	
			W1	HEAT-B	1440	359	405	449	493	535	-	-	-	-	-	
			W1	HEAT-C	1760	546	606	663	718	771	-	-	-	-	-	
			W1	HEAT-D	1600	448	500	551	600	647	-	-	-	-	-	
	060 (5.0)	DEY	Cool	Low	Y1	COOL-A	1170	235	283	328	368	404	435	463	485	505
					Y1	COOL-B	1110	205	258	304	345	381	410	434	451	465
Y1					COOL-C	1210	255	301	344	384	420	454	483	509	533	
Y1					COOL-D	1270	286	329	371	410	448	483	516	547	576	
High				Y1+Y2	COOL-A	1750	559	608	658	710	762	815	870	925	981	
				Y1+Y2	COOL-B	1650	498	542	588	634	683	732	783	835	888	
			Y1+Y2	COOL-C	1800	590	643	696	750	805	860	916	973	1030		
			Y1+Y2	COOL-D	1900	654	715	775	836	895	955	1013	1072	-		
Heat			W1	HEAT-A	1900	654	715	775	836	895	-	-	-	-	-	
			W1	HEAT-B	1975	703	772	839	904	968	-	-	-	-	-	
			W1	HEAT-C	2150	823	913	999	1079	1154	-	-	-	-	-	
			W1	HEAT-D	2070	767	847	923	997	1066	-	-	-	-	-	

DEZ024-060 (Continued)

Size (Tons)	Model	Unit Speed	External Static Pressure (Inch Water Gauge)														
			0.2			0.4			0.6			0.8			1.0		
			SCFM	W	RPM	SCFM	W	RPM	SCFM	W	RPM	SCFM	W	RPM	SCFM	W	RPM
048 (4.0)	DEZ	Low (1)	1287	222	695	-	-	-	-	-	-	-	-	-	-	-	-
		Low/Medium (2)	1596	397	817	4513	422	875	1432	447	934	1354	474	995	1276	501	1058
		Medium (3)	1705	476	858	1624	584	911	1545	526	966	1466	549	1021	1386	571	1077
		Medium/High (4)	1806	561	895	1726	587	945	1646	610	995	1564	628	1046	1476	639	1096
		High (5)	1898	652	929	1819	679	977	1736	698	1023	1646	709	1069	1547	706	1112
060 (5.0)	DEZ	Low (1)	1580	394	859	1504	420	917	-	-	-	-	-	-	-	-	-
		Low/Medium (2)	1854	605	972	1783	629	1020	1703	646	1065	1605	648	1104	-	-	-
		Medium (3)	2003	737	1030	1922	746	1069	1829	746	1104	1712	728	1134	1528	659	1146
		Medium/High (4)	2120	856	1073	2021	840	1102	1908	815	1127	1769	772	1148	1567	685	1154
		High (5)	2214	968	1104	2089	918	1121	1949	859	1136	1785	787	1148	1576	689	1154

Bottom Duct Application

DEY/DEX024-060

Size (Tons)	Model	Mode	Thermostat Input	Speed Tap	CFM	External Static Pressure (Inch Water Gauge)									
						0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
						Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
024 (2.0)	DEX	Cool	Low	Y1	COOL-A	600	57	74	91	108	126	143	161	179	197
				Y1	COOL-B	450	39	54	69	84	100	117	134	152	171
				Y1	COOL-C	525	47	63	79	95	112	129	146	164	182
			Y1	COOL-D	675	71	88	106	124	142	161	179	198	216	
			High	Y1+Y2	COOL-A	800	99	117	137	156	176	196	217	237	258
				Y1+Y2	COOL-B	600	57	74	91	108	126	143	161	179	197
		Y1+Y2		COOL-C	700	76	94	112	130	148	167	186	205	224	
		Heat	W1	HEAT-A	800	99	117	137	156	-	-	-	-	-	-
				HEAT-B	720	80	98	116	135	-	-	-	-	-	-
				HEAT-C	880	120	140	160	180	-	-	-	-	-	-
			Y1	COOL-A	670	61	78	95	113	130	148	166	184	201	
				COOL-B	620	54	70	87	104	121	138	156	173	191	
COOL-C	720			70	88	106	124	142	160	178	197	215			
030 (2.5)	DEX	Cool	Low	Y1	COOL-A	670	61	78	95	113	130	148	166	184	201
				Y1	COOL-B	620	54	70	87	104	121	138	156	173	191
				Y1	COOL-C	720	70	88	106	124	142	160	178	197	215
			Y1	COOL-D	770	81	99	118	136	155	174	193	213	232	
			High	Y1+Y2	COOL-A	1000	159	179	200	222	246	270	296	323	350
				Y1+Y2	COOL-B	925	129	148	169	190	211	233	256	280	304
		Y1+Y2		COOL-C	1075	194	214	236	260	285	312	341	371	403	
		Heat	W1	HEAT-A	1000	159	179	200	222	-	-	-	-	-	-
				HEAT-B	900	120	139	159	180	-	-	-	-	-	-
				HEAT-C	1100	206	227	249	274	-	-	-	-	-	-
			Y1	HEAT-D	1000	159	179	200	222	-	-	-	-	-	-
				COOL-A	900	120	139	159	180	201	222	244	267	291	
COOL-B	750			76	94	113	131	150	168	187	206	225			
036 (3.0)	DEX	Cool	Low	Y1	COOL-C	830	97	116	135	155	174	194	215	236	256
				Y1	COOL-D	980	150	170	191	213	236	260	285	311	337
				Y1+Y2	COOL-A	1200	261	283	306	333	362	394	429	467	507
			High	Y1+Y2	COOL-B	1000	159	179	200	222	246	270	296	323	350
				Y1+Y2	COOL-C	1100	206	227	249	274	300	328	357	389	422
				Y1+Y2	COOL-D	1300	325	346	372	401	434	471	511	556	604
		Heat	W1	HEAT-A	1200	261	283	306	333	-	-	-	-	-	-
				HEAT-B	1080	196	217	239	263	-	-	-	-	-	-
				HEAT-C	1275	308	330	355	383	-	-	-	-	-	-
			Y1	HEAT-D	1200	261	283	306	333	-	-	-	-	-	-
				COOL-A	920	139	166	195	224	255	286	319	352	386	
				COOL-B	790	100	124	149	176	205	235	266	299	333	
042 (3.5)	DEX	Cool	Low	Y1	COOL-C	850	117	143	170	198	227	257	289	322	356
				Y1	COOL-D	980	159	188	218	249	281	313	346	379	414
				Y1+Y2	COOL-A	1400	338	383	426	468	509	549	589	627	664
			High	Y1+Y2	COOL-B	1200	245	281	318	354	390	426	462	497	533
				Y1+Y2	COOL-C	1300	290	330	370	409	447	485	523	560	596
				Y1+Y2	COOL-D	1500	391	439	486	532	576	618	660	700	739
		Heat	W1	HEAT-A	1225	256	293	330	367	-	-	-	-	-	-
				HEAT-B	1100	203	237	270	304	-	-	-	-	-	-
				HEAT-C	1350	314	356	397	438	-	-	-	-	-	-
			Y1	HEAT-D	1225	256	293	330	367	-	-	-	-	-	-
				COOL-A	1050	184	216	248	280	313	346	380	414	449	
				COOL-B	920	139	166	195	224	255	286	319	352	386	
048 (4.0)	DEX	Cool	Low	Y1	COOL-C	980	159	188	218	249	281	313	346	379	414
				Y1	COOL-D	1120	211	245	279	313	348	382	417	452	486
				Y1+Y2	COOL-A	1600	448	500	551	600	647	693	736	779	819
			High	Y1+Y2	COOL-B	1400	338	383	426	468	509	549	589	627	664
				Y1+Y2	COOL-C	1500	391	439	486	532	576	618	660	700	739
				Y1+Y2	COOL-D	1700	508	565	620	672	723	772	818	863	905
		Heat	W1	HEAT-A	1600	448	500	551	600	647	-	-	-	-	-
				HEAT-B	1440	359	405	449	493	535	-	-	-	-	-
				HEAT-C	1760	546	606	663	718	771	-	-	-	-	-
			Y1	HEAT-D	1600	448	500	551	600	647	-	-	-	-	-
				COOL-A	1050	184	216	248	280	313	346	380	414	449	
				COOL-B	920	139	166	195	224	255	286	319	352	386	

DEY/DEX024-060 (Continued)

Size (Tons)	Model	Mode	Thermostat Input	Speed Tap	CFM	External Static Pressure (Inch Water Gauge)									
						0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
						Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
060 (5.0)	DEY	Cool	Low	Y1	COOL-A	1170	235	283	328	368	404	435	463	485	505
				Y1	COOL-B	1110	205	258	304	345	381	410	434	451	465
				Y1	COOL-C	1210	255	301	344	384	420	454	483	509	533
				Y1	COOL-D	1270	286	329	371	410	448	483	516	547	576
			High	Y1+Y2	COOL-A	1750	559	608	658	710	762	815	870	925	981
				Y1+Y2	COOL-B	1650	498	542	588	634	683	732	783	835	888
				Y1+Y2	COOL-C	1800	590	643	696	750	805	860	916	973	1030
				Y1+Y2	COOL-D	1900	654	715	775	836	895	955	1013	1072	-
		Heat	W1	HEAT-A	1900	654	715	775	836	895	-	-	-	-	
			W1	HEAT-B	1975	703	772	839	904	968	-	-	-	-	
			W1	HEAT-C	2150	823	913	999	1079	1154	-	-	-	-	
			W1	HEAT-D	2070	767	847	923	997	1066	-	-	-	-	

~~DEQ024-060~~

Size (Tons)	Model	Mode	Thermostat Input	Speed Tap	CFM	External Static Pressure (Inch Water Gauge)									
						0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
						Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
024 (2.0)	DEQ	Cool	Y1	COOL-A	800	99	117	137	156	176	196	217	237	258	
			Y1	COOL-B	600	57	74	91	108	126	143	161	179	197	
			Y1	COOL-C	700	76	94	112	130	148	167	186	205	224	
			Y1	COOL-D	900	126	146	166	187	208	231	253	277	300	
		Heat	W1	HEAT-A	800	99	117	137	156	-	-	-	-	-	
			W1	HEAT-B	720	80	98	116	135	-	-	-	-	-	
			W1	HEAT-C	880	120	140	160	180	-	-	-	-	-	
			W1	HEAT-D	1000	159	179	200	222	-	-	-	-	-	
030 (2.5)	DEQ	Cool	Y1	COOL-A	1000	159	179	200	222	246	270	296	323	350	
			Y1	COOL-B	925	129	148	169	190	211	233	256	280	304	
			Y1	COOL-C	1075	194	214	236	260	285	312	341	371	403	
			Y1	COOL-D	1150	233	254	277	302	330	360	392	427	463	
		Heat	W1	HEAT-A	1000	159	179	200	222	-	-	-	-	-	
			W1	HEAT-B	900	120	139	159	180	-	-	-	-	-	
			W1	HEAT-C	1100	206	227	249	274	-	-	-	-	-	
			W1	HEAT-D	1000	159	179	200	222	-	-	-	-	-	
036 (3.0)	DEQ	Cool	Y1	COOL-A	1200	261	283	306	333	362	394	429	467	507	
			Y1	COOL-B	1000	159	179	200	222	246	270	296	323	350	
			Y1	COOL-C	1100	206	227	249	274	300	328	357	389	422	
			Y1	COOL-D	1300	325	346	372	401	434	471	511	556	604	
		Heat	W1	HEAT-A	1200	261	283	306	333	-	-	-	-	-	
			W1	HEAT-B	1080	196	217	239	263	-	-	-	-	-	
			W1	HEAT-C	1275	308	330	355	383	-	-	-	-	-	
			W1	HEAT-D	1200	261	283	306	333	-	-	-	-	-	
042 (3.5)	DEQ	Cool	Y1	COOL-A	1400	338	383	426	468	509	549	589	627	664	
			Y1	COOL-B	1200	245	281	318	354	390	426	462	497	533	
			Y1	COOL-C	1300	290	330	370	409	447	485	523	560	596	
			Y1	COOL-D	1500	391	439	486	532	576	618	660	700	739	
		Heat	W1	HEAT-A	1225	256	293	330	367	-	-	-	-	-	
			W1	HEAT-B	1100	203	237	270	304	-	-	-	-	-	
			W1	HEAT-C	1350	314	356	397	438	-	-	-	-	-	
			W1	HEAT-D	1225	256	293	330	367	-	-	-	-	-	
048 (4.0)	DEQ	Cool	Y1	COOL-A	1600	408	461	512	562	610	657	703	747	790	
			Y1	COOL-B	1400	290	334	378	422	465	508	550	592	633	
			Y1	COOL-C	1500	349	397	445	492	537	582	626	669	711	
			Y1	COOL-D	1700	467	524	579	632	683	732	779	825	868	
		Heat	W1	HEAT-A	1600	408	461	512	562	610	657	-	-	-	
			W1	HEAT-B	1440	313	359	405	450	494	537	-	-	-	
			W1	HEAT-C	1760	503	562	619	674	726	777	-	-	-	
			W1	HEAT-D	1600	408	461	512	562	610	657	-	-	-	
060 (5.0)	DEQ	Cool	Y1	COOL-A	1500	404	438	475	512	555	597	644	692	728	
			Y1	COOL-B	1650	498	542	588	634	683	732	783	835	888	
			Y1	COOL-C	1800	590	643	696	750	805	860	916	973	1030	
			Y1	COOL-D	1900	654	715	775	836	895	955	1013	1072	-	
		Heat	W1	HEAT-A	1900	654	715	775	836	895	-	-	-	-	
			W1	HEAT-B	1975	703	772	839	904	968	-	-	-	-	
			W1	HEAT-C	2150	823	913	999	1079	1154	-	-	-	-	
			W1	HEAT-D	2070	767	847	923	997	1066	-	-	-	-	

Additional Static Resistance

Size (Tons)	Model	CFM	Wet Indoor Coil	Economizer ¹	Filter/Frame Kit	Electric Heat
024 (2.0)	DEZ DEQ DEX	500	0.01	0.00	0.01	0.02
		600	0.01	0.00	0.02	0.03
		700	0.01	0.00	0.02	0.03
		800	0.01	0.01	0.02	0.03
		900	0.01	0.01	0.02	0.04
		1000	0.02	0.01	0.02	0.04
		1100	0.03	0.01	0.03	0.05
030 (2.5)	DEZ DEQ DEX	1200	0.04	0.02	0.03	0.06
		700	0.01	0.00	0.02	0.03
		800	0.01	0.01	0.02	0.03
		900	0.01	0.01	0.02	0.04
		1000	0.02	0.01	0.02	0.04
		1100	0.03	0.01	0.03	0.05
036 (3.0)	DEZ DEQ DEX	1200	0.04	0.02	0.03	0.06
		1300	0.04	0.03	0.03	0.07
		1400	0.04	0.04	0.03	0.08
		700	0.01	0.00	0.02	0.03
		800	0.01	0.01	0.02	0.03
		900	0.01	0.01	0.02	0.04
		1000	0.02	0.01	0.02	0.04
042 (3.5)	DEZ DEQ DEX	1100	0.03	0.01	0.03	0.05
		1200	0.04	0.02	0.03	0.06
		1300	0.04	0.03	0.03	0.07
		1400	0.04	0.04	0.03	0.08
		1500	0.05	0.05	0.04	0.09
		1600	0.06	0.06	0.05	0.10
048 (4.0)	DEZ DEQ DEX	1100	0.03	0.01	0.03	0.05
		1200	0.04	0.02	0.03	0.06
		1300	0.04	0.03	0.03	0.07
		1400	0.04	0.04	0.03	0.08
		1500	0.04	0.05	0.04	0.09
		1600	0.04	0.06	0.05	0.10
		1700	0.05	0.07	0.05	0.11
		1800	0.05	0.07	0.06	0.11
		1900	0.06	0.08	0.06	0.11
060 (5.0)	DEZ DEQ DEX	2000	0.07	0.08	0.07	0.12
		1100	0.03	0.01	0.03	0.05
		1200	0.04	0.02	0.03	0.06
		1300	0.04	0.03	0.03	0.07
		1400	0.04	0.04	0.03	0.08
		1500	0.04	0.05	0.04	0.09
		1600	0.04	0.06	0.05	0.10
		1700	0.05	0.07	0.05	0.11
		1800	0.05	0.07	0.06	0.11
1900	0.06	0.08	0.06	0.11		
2000	0.07	0.08	0.07	0.12		

1. The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct is less than 0.25 IWG, the unit will deliver less CFM during full economizer operation.

Electric Heat Minimum Supply Air

Size (Tons)	Model	Voltage	Minimum Supply Air (CFM)					
			Heater kW					
			5.0	7.5	10.0	15.0	20.0	25.0
024 (2.0)	DEZ	208/230-1-60	630	630	800	-	-	-
	DEQ							
	DEX							
030 (2.5)	DEZ	208/230-1-60	630	630	800	800	-	-
	DEQ							
	DEX							
036 (3.0)	DEX	208/230-1-60	1070	1070	1070	1070	-	-
		208/230-3-60	1070	1070	1070	1070	-	-
		460-3-60	1070	1070	1070	1070	-	-
	DEZ DEQ	208/230-1-60	1070	1070	1070	1070	-	-
		208/230-3-60	1070	1070	1070	1070	-	-
		460-3-60	1070	1070	1070	1070	-	-
		575-3-60	1070	1070	1070	1070	-	-
		208/230-1-60	1225	1225	1225	1225	-	-
		208/230-3-60	1225	1225	1225	1225	-	-
042 (3.5)	DEX	208/230-1-60	1225	1225	1225	1225	-	-
		208/230-3-60	1225	1225	1225	1225	-	-
		460-3-60	1225	1225	1225	1225	-	-
	DEZ DEQ	208/230-1-60	1225	1225	1225	1225	-	-
		208/230-3-60	1225	1225	1225	1225	-	-
		460-3-60	1225	1225	1225	1225	-	-
		575-3-60	1225	1225	1225	1225	-	-
		208/230-1-60	-	-	1200	1430	1430	1430
		208/230-3-60	-	-	1200	1430	1430	1430
048 (4.0)	DEX	460-3-60	-	-	1200	1430	1430	1430
		208/230-1-60	-	-	1200	1430	1430	1430
		208/230-3-60	-	-	1200	1430	1430	1430
	DEZ DEQ	460-3-60	-	-	1200	1430	1430	1430
		575-3-60	-	-	1200	1430	1430	1430
		208/230-1-60	-	-	1615	1615	1955	1955
		208/230-3-60	-	-	1615	1615	1955	1955
		460-3-60	-	-	1615	1615	1955	1955
		575-3-60	-	-	1615	1615	1955	1955
060 (5.0)	DEY	208/230-1-60	-	-	1615	1615	1955	1955
		208/230-3-60	-	-	1615	1615	1955	1955
		460-3-60	-	-	1615	1615	1955	1955
	DEZ DEQ	208/230-1-60	-	-	1615	1615	1955	1955
		208/230-3-60	-	-	1615	1615	1955	1955
		460-3-60	-	-	1615	1615	1955	1955
		575-3-60	-	-	1615	1615	1955	1955

Indoor Blower Specifications

Size (Tons)	Model	Motor				
		HP	RPM	Eff.	SF	Frame
024 (2.0)	DEZ DEQ DEX	1/2	Variable	0.8	1.0	48
030 (2.5)	DEZ DEQ DEX	1/2	Variable	0.8	1.0	48
036 (3.0)	DEZ DEQ DEX	1/2	Variable	0.8	1.0	48
042 (3.5)	DEZ DEQ DEX	3/4	Variable	0.8	1.0	48
048 (4.0)	DEZ DEQ DEX	3/4	Variable	0.8	1.0	48
060 (5.0)	DEZ DEQ DEX	1	Variable	0.8	1.0	48

Electric Heat Multipliers

Voltage		kW Capacity Multipliers ¹
Nominal	Applied	
240	208	0.75
	230	0.92
480	460	0.92
600	575	0.92

1. Electric heaters are rated at nominal voltage. Use this table to determine the electric heat capacity for heaters applied at lower voltages.

Sound Performance

Outdoor Sound Power Levels

Size (Tons)	Model	Sound Rating ¹ dB (A)	Octave Band Centerline Frequency (Hz)						
			125	250	500	1000	2000	4000	8000
024 (2.0)	DEZ, DEQ	80	72	70	65	76	66	72	58
	DEX	73	61.5	64.5	68.5	66.5	62	60	54
030 (2.5)	DEZ, DEQ	79	66	67	67	76	75	66	57
	DEX	77	60	62.5	64.5	75.5	62.5	59.5	58.5
036 (3.0)	DEZ, DEQ	74	65	64	67	68	67	65	59
	DEX	78	63	65	76	73	64.5	62.5	60
042 (3.5)	DEZ, DEQ	74	64	65	68	69	63	59	57
	DEX	76	67.5	68.5	69.5	69	66	63.5	60
048 (4.0)	DEZ, DEQ	80	71	72	74	73	69	67	62
	DEX	79	71.5	69.5	71.5	75.5	68	67	62
060 (5.0)	DEZ, DEQ	80	68	71	74	73	72	72	60
	DEY	79	68	70	73.5	73	68.5	66.5	62.5

1. Rated in accordance with ARI 270 standard.

DEQ024-060 Cooling Only With/Without Electric Heat (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Electric Heat Option				MCA ¹ (Amps)	Max Fuse ² / Breaker ³ Size (Amps)
		RLA	LRA	MCC	FLA	FLA	Model	kW	Stages	Amps		
060 (5.0)	208/230-1-60	26.2	150	41	2.8	9.1	None	-	-	-	44.7	60
							2NH04501006	7.5 / 10	2	36.1 / 41.7	56.5 / 63.5	70 / 70
							2NH04501506	11.3 / 15	2	54.2 / 62.5	79.1 / 89.5	80 / 90
							2NH04502006	15 / 20	2	72.2 / 83.3	101.7 / 115.5	110 / 125
							2NH04502506	18.8 / 25	2	90.3 / 104.2	124.2 / 141.6	125 / 150
	208/230-3-60	17.9	120	28	2.8	9.1	None	-	-	-	34.3	45
							2NH04501025	7.5 / 10	1	20.8 / 24.1	37.4 / 41.4	45 / 50
							2NH04501525	11.3 / 15	1	31.3 / 36.1	50.5 / 56.5	60 / 60
							2NH04502025	15 / 20	2	41.7 / 48.1	63.5 / 71.5	70 / 80
							2NH04502525	18.8 / 25	2	52.1 / 60.1	76.5 / 86.6	80 / 90
	460-3-60	8.3	70	13	1.4	4.6	None	-	-	-	16.4	20
							2NH04501046	10	1	12	20.8	25
							2NH04501546	15	1	18	28.3	30
							2NH04502046	20	2	24.1	35.8	40
							2NH04502546	25	2	30.1	43.3	45
	575-3-60	7.4	53	12	1.1	3.6	None	-	-	-	14	20
							2NH04501058	10	1	9.6	16.5	20
							2NH04501558	15	1	14.4	22.5	25
							2NH04502058	20	2	19.2	28.6	30
							2NH04502558	25	2	24.1	34.6	35

1. Minimum Circuit Ampacity.
2. Maximum Over Current Protection per standard UL 1995.
3. Fuse or HACR circuit breaker size installed at factory or field installed.

DEX024-048 Cooling Only With/Without Electric Heat

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Electric Heat Option				MCA ¹ (Amps)	Max Fuse ² / Breaker ³ Size (Amps)
		RLA	LRA	MCC	FLA	FLA	Model	kW	Stages	Amps		
024 (2.0)	208/230-1-60	10.2	52	16	1.2	4.3	None	-	-	-	18.3	25
							2NH04500506	3.8/5	1	18.1/20.8	27.9 / 31.4	30 / 35
							2NH04500706	5.6/7.5	2	27.1/31.3	39.2 / 44.4	40 / 45
							2NH04501006	7.5/10	2	36.1/41.7	50.5 / 57.5	60 / 60
030 (2.5)	208/230-1-60	14.1	70	22	1.2	4.3	None	-	-	-	23.1	30
							2NH04500506	3.8/5	1	18.1/20.8	27.9 / 31.4	35 / 35
							2NH04500706	5.6/7.5	2	27.1/31.3	39.2 / 44.4	40 / 45
							2NH04501006	7.5/10	2	36.1/41.7	50.5 / 57.5	60 / 60
							2NH04501506	11.3/15	2	54.2/62.5	73.1 / 83.5	80 / 90
036 (3.0)	208/230-1-60	16.6	82	26	1.2	4.3	None	-	-	-	26.3	35
							2NH04500506	3.8/5	1	18.1/20.8	27.9 / 31.4	35 / 40
							2NH04500706	5.6/7.5	2	27.1/31.3	39.2 / 44.4	40 / 45
							2NH04501006	7.5/10	2	36.1/41.7	50.5 / 57.5	60 / 60
	208/230-3-60	11.1	58	17	1.2	4.3	None	-	-	-	19.4	25
							2NH04501025	7.5/10	1	20.8/24.1	31.4 / 35.4	35 / 40
							2NH04501525	11.3/15	1	31.3/36.1	44.5 / 50.5	45 / 60
							None	-	-	-	10.7	15
460-3-60	4.5	29	7	0.8	4.3	2NH04501046	10	1	12	20.4	25	
						2NH04501546	15	1	18	27.9	30	
042 (3.5)	208/230-1-60	16.6	96	26	1.4	6.8	None	-	-	-	29	35
							2NH04500506	3.8/5	1	18.1/20.8	31.1 / 34.5	40 / 45
							2NH04500706	5.6/7.5	2	27.1/31.3	42.4 / 47.6	45 / 50
							2NH04501006	7.5/10	2	36.1/41.7	53.6 / 60.6	60 / 70
	208/230-3-60	13.4	88	21	1.4	6.8	2NH04501506	11.3/15	2	54.2/62.5	76.2 / 86.6	80 / 90
							None	-	-	-	25	30
							2NH04501025	7.5/10	1	20.8/24.1	34.6 / 38.6	35 / 40
							2NH04501525	11.3/15	1	31.3/36.1	47.6 / 53.6	50 / 60
	460-3-60	6.1	44	10	0.8	6.8	None	-	-	-	15.4	20
							2NH04501046	10	1	12	23.5	25
						2NH04501546	15	1	18	31.1	35	

DEX024-048 Cooling Only With/Without Electric Heat (Continued)

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Electric Heat Option				MCA ¹ (Amps)	Max Fuse ² / Breaker ³ Size (Amps)
		RLA	LRA	MCC	FLA	FLA	Model	kW	Stages	Amps		
048 (4.0)	208/230-1-60	21.1	96	33	1.7	6.8	None	-	-	-	34.9	45
							2NH04501006	7.5/10	2	36.1/41.7	53.6 / 60.6	60 / 70
							2NH04501506	11.3/15	2	54.2/62.5	76.2 / 86.6	80 / 90
							2NH04502006	15/20	2	72.2/83.3	98.8 / 112.7	100 / 125
							2NH04502506	18.8/25	2	90.3/104.2	121.3 / 138.7	125 / 150
	208/230-3-60	13.4	88	21	1.7	6.8	None	-	-	-	25.3	35
							2NH04501025	7.5/10	1	20.8/24.1	34.6 / 38.6	35 / 40
							2NH04501525	11.3/15	1	31.3/36.1	47.6 / 53.6	50 / 60
							2NH04502025	15/20	2	41.7/48.1	60.6 / 68.6	70 / 70
							2NH04502525	18.8/25	2	52.1/60.1	73.7 / 83.7	80 / 90
	460-3-60	6.4	41	10	1.0	6.8	None	-	-	-	15.9	20
							2NH04501046	10	1	12	23.5	25
							2NH04501546	15	1	18	31.1	35
							2NH04502046	20	2	24.1	38.6	40
							2NH04502546	25	2	30.1	46.1	50

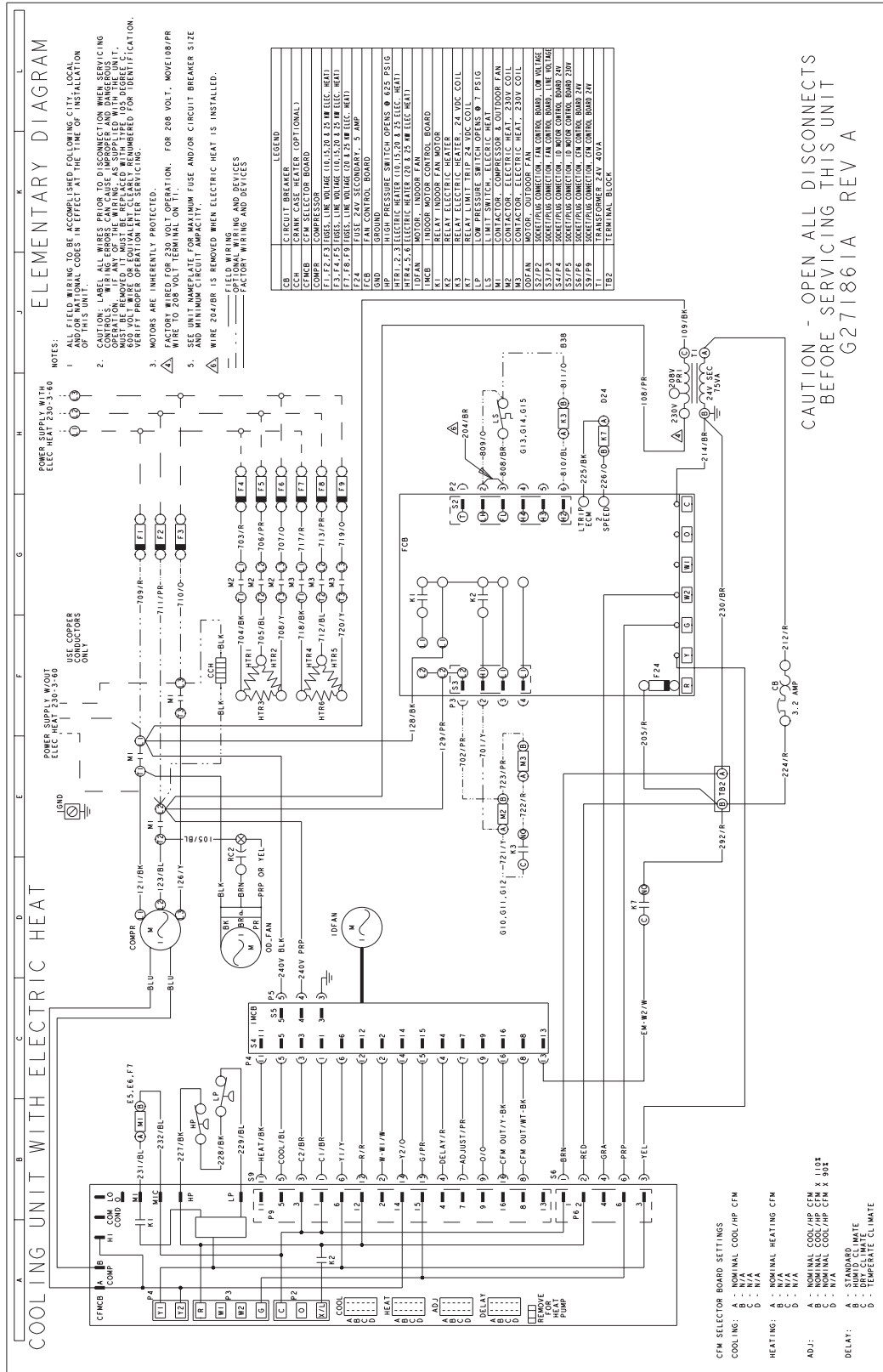
1. Minimum Circuit Ampacity.
2. Maximum Over Current Protection per standard UL 1995.
3. Fuse or HACR circuit breaker size installed at factory or field installed.

DEY060 Cooling Only With/Without Electric Heat

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Electric Heat Option				MCA ¹ (Amps)	Max Fuse ² / Breaker ³ Size (Amps)
		RLA	LRA	MCC	FLA	FLA	Model	kW	Stages	Amps		
060 (5.0)	208/230-1-60	25.6	118	40	1.7	9.1	None	-	-	-	42.8	60
							2NH04501006	7.5/10	2	36.1/41.7	56.5 / 63.5	60 / 70
							2NH04501506	11.3/15	2	54.2/62.5	79.1 / 89.5	80 / 90
							2NH04502006	15/20	2	72.2/83.3	101.7 / 115.5	110 / 125
							2NH04502506	18.8/25	2	90.3/104.2	124.2 / 141.6	125 / 150
	208/230-3-60	17.6	123	28	1.7	9.1	None	-	-	-	32.8	40
							2NH04501025	7.5/10	1	20.8/24.1	37.4 / 41.4	45 / 50
							2NH04501525	11.3/15	1	31.3/36.1	50.5 / 56.5	60 / 60
							2NH04502025	15/20	2	41.7/48.1	63.5 / 71.5	70 / 80
							2NH04502525	18.8/25	2	52.1/60.1	76.5 / 86.6	80 / 90
	460-3-60	9.0	62	14	1.0	9.1	None	-	-	-	21.4	30
							2NH04501046	10	1	12	26.4	30
							2NH04501546	15	1	18	33.9	35
							2NH04502046	20	2	24.1	41.4	45
							2NH04502546	25	2	30.1	49	50

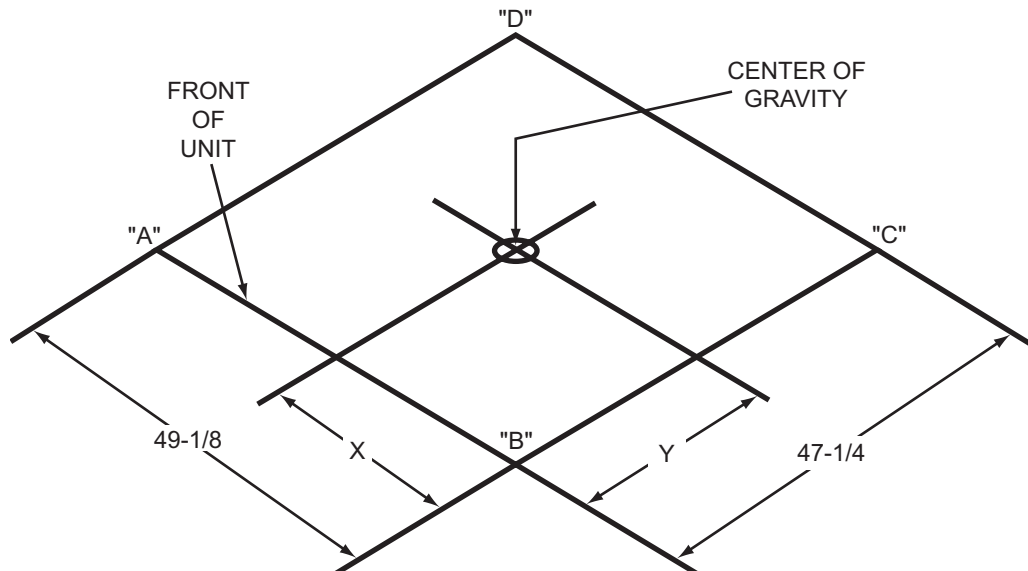
1. Minimum Circuit Ampacity.
2. Maximum Over Current Protection per standard UL 1995.
3. Fuse or HACR circuit breaker size installed at factory or field installed.

Typical DEX036-048/DEY060 Cooling Only 208/230-3-60 volt Wiring Diagram



Weights and Dimensions

Unit 4 Point Load Weight



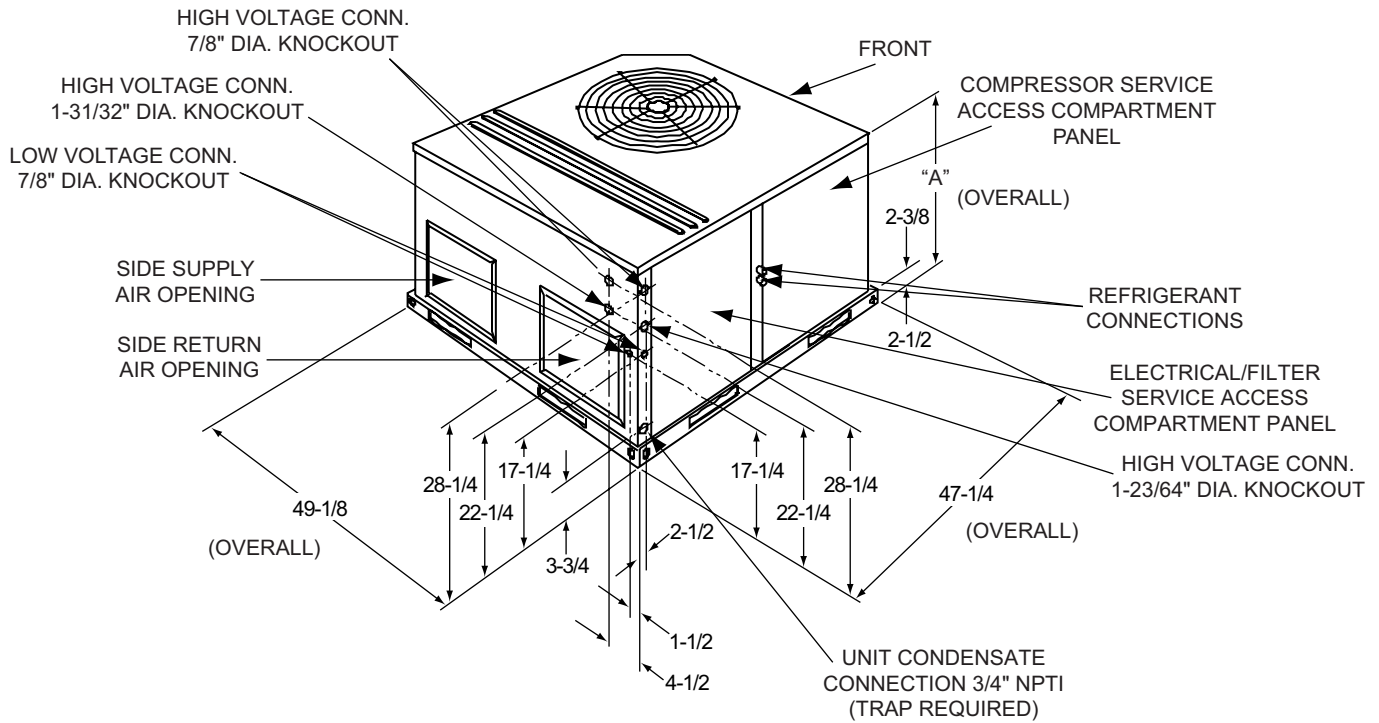
Size (Tons)	Model	Weight (lbs.)		Center of Gravity		4 Point Load Location (lbs.)			
		Shipping	Operating	X	Y	A	B	C	D
024 (2.0)	DEZ	358	353	23	26	97	90	80	86
	DEQ	351	346	22.25	25	94	82	79	91
	DEX	360	355	22.25	25	96	84	81	93
030 (2.5)	DEZ	373	368	23	25	97	90	87	94
	DEQ	391	386	22.25	25	105	92	88	101
	DEX	395	390	22.25	25	106	92	89	102
036 (3.0)	DEZ	373	368	23	25	97	90	87	94
	DEQ	401	396	22.25	25	108	94	91	104
	DEX	405	400	22.25	25	109	95	92	105
042 (3.5)	DEZ	388	383	22.5	24	99	88	92	104
	DEQ	411	406	22.25	25	110	96	93	106
	DEX	415	410	22.25	25	111	97	94	108
048 (4.0)	DEZ	417	412	22	24.5	111	95	95	111
	DEQ	445	440	22.25	25	120	104	101	115
	DEX	445	440	22.25	25	120	104	101	115
060 (5.0)	DEZ	467	462	24	25.5	119	121	112	111
	DEQ	457	452	22.25	25	123	107	103	119
	DEY	465	460	22.25	25	125	109	105	121

Unit Accessory Weights

Unit Accessory	Model	Weight (lbs.)	
		Shipping	Operating
Add Economizer	All	45	40
Add Electric Heat ¹	DEZ, DEQ, DEY, DEX	13	12

1. Weight given is for the maximum heater size available (25 kW).

Cooling Only Unit Dimensions



Cooling Only Unit Dimensions

Unit Size	Dimensions
	"A"
024, 030, 036, 042 ¹	33-1/2
042 ² , 048, 060	41-1/2

- 1. DEZ Models.
- 2. DEX Models.

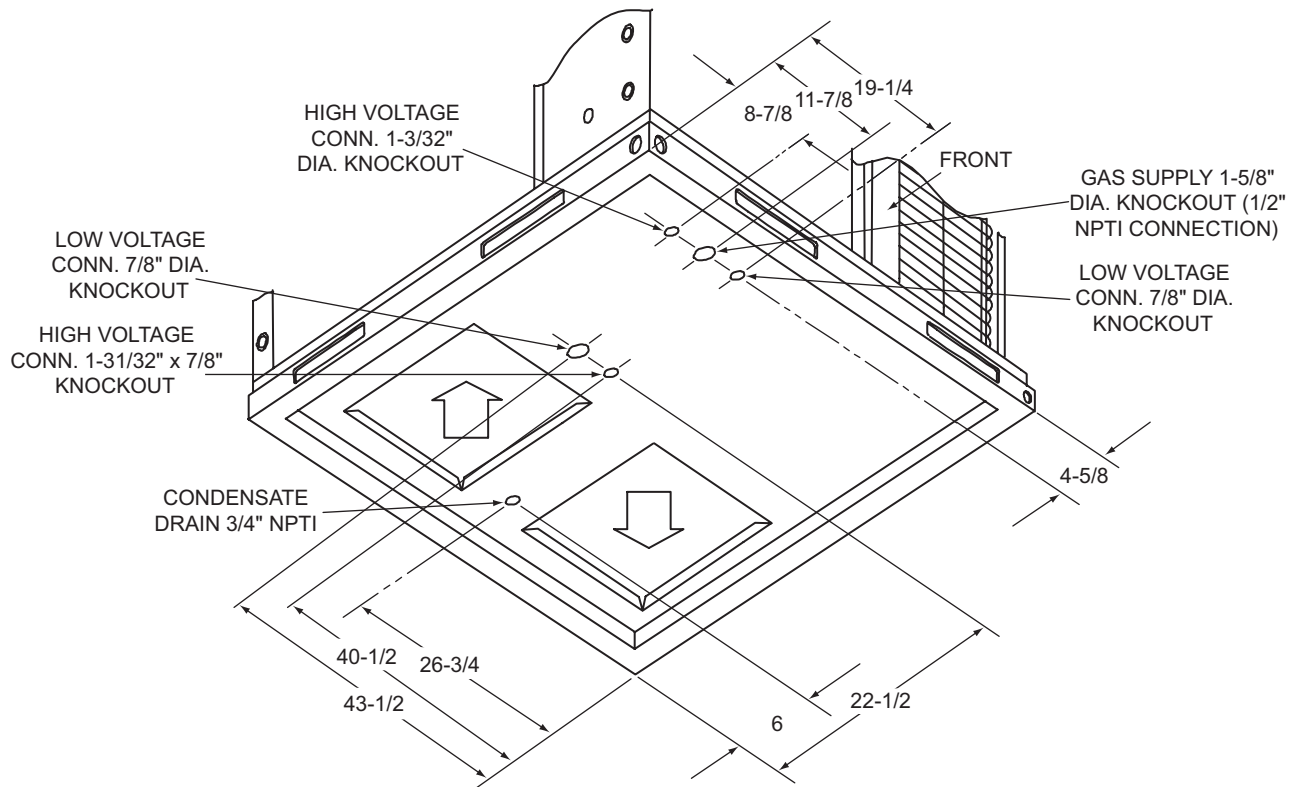
Cooling Only Unit Clearances

Direction	Distance (in.)	Direction	Distance (in.)
Top ¹	36	Right	24
Front	12	Left	24
Rear	0	Bottom ^{2 3}	0

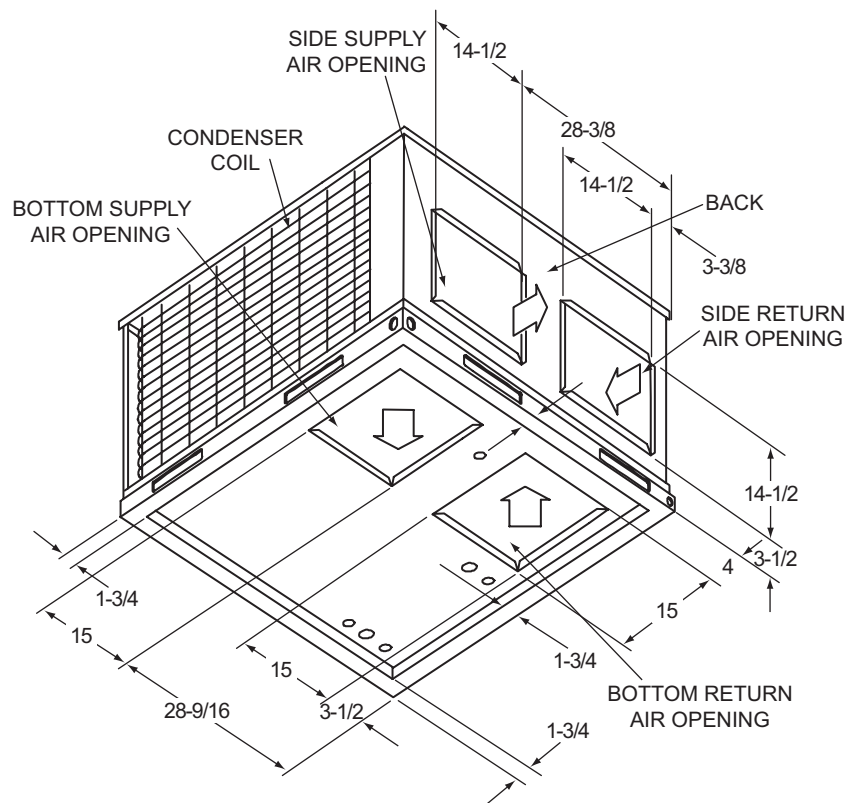
- 1. Units must be installed outdoors. Over hanging structure or shrubs should not obscure condenser air discharge outlet.
- 2. Units may be installed on combustible floors made from wood or class A, B or C roof covering materials.
- 3. Minimum Clearance of 1 inch all sides of supply air duct for the first 3 foot of duct for 20 & 25 kW., zero inches there after. For all other heaters, zero inch clearance all sides for entire length of duct.

Note: For units applied with a roof curb, the minimum clearance may be reduced from 1 inch to 1/2 inch between combustible roof curb material and this supply air duct.

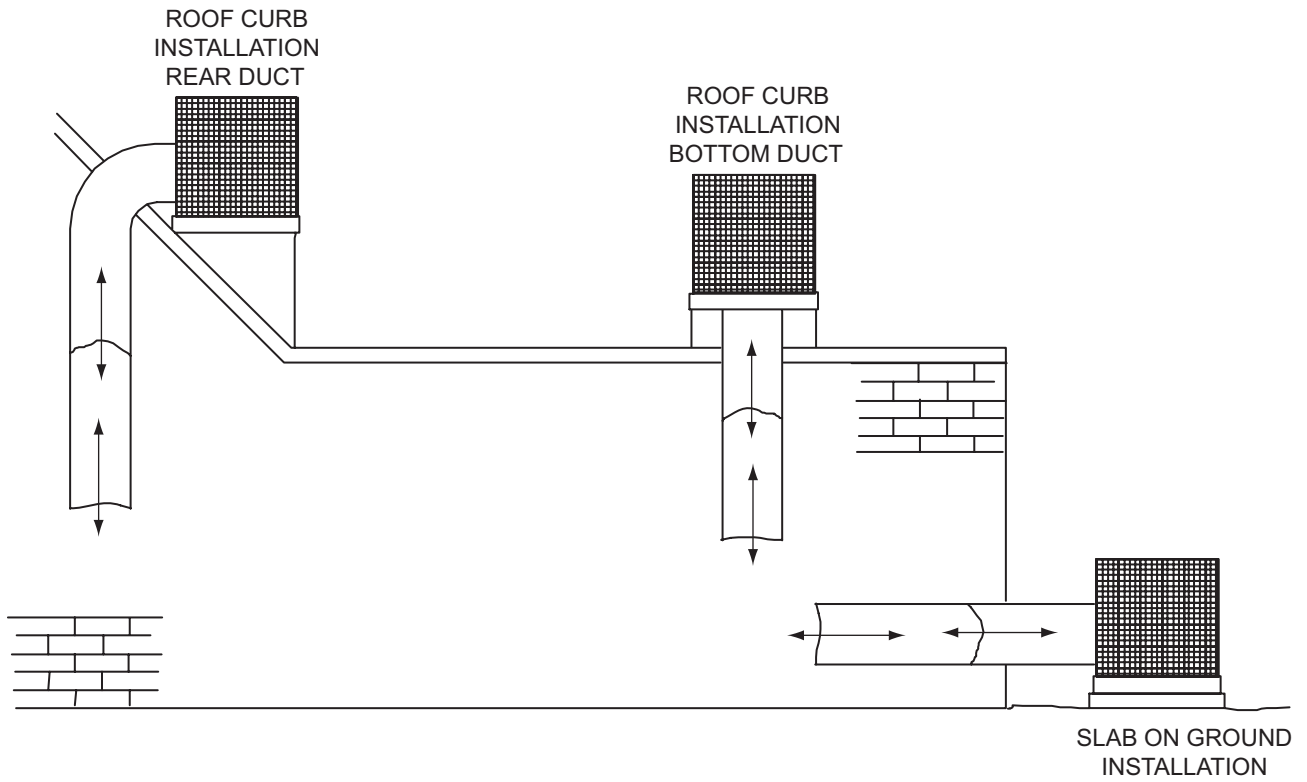
Unit Dimensions Front and Bottom



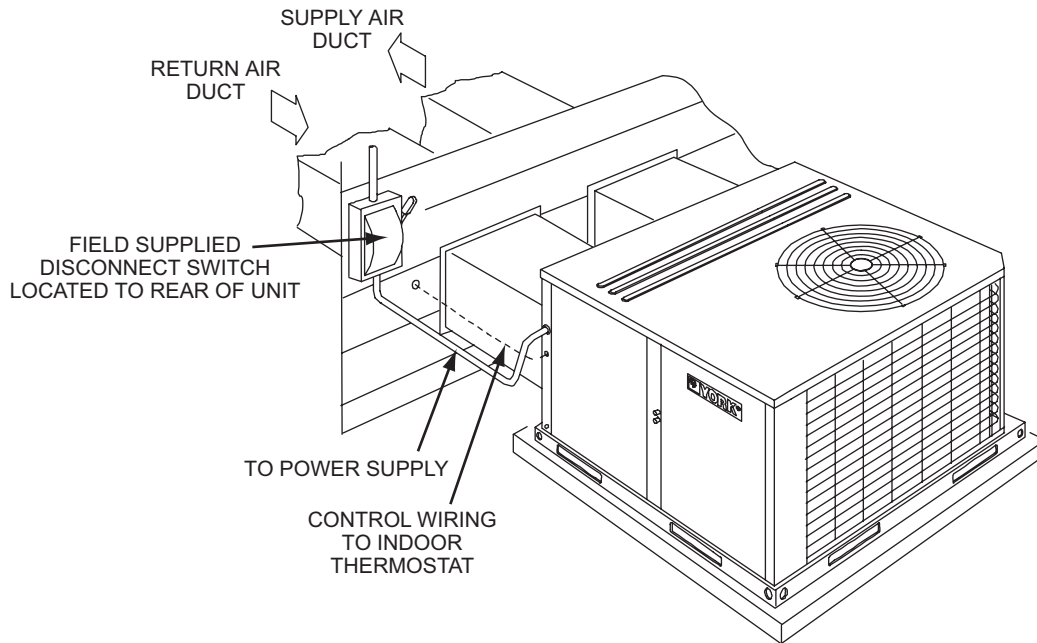
Unit Dimensions Back and Bottom



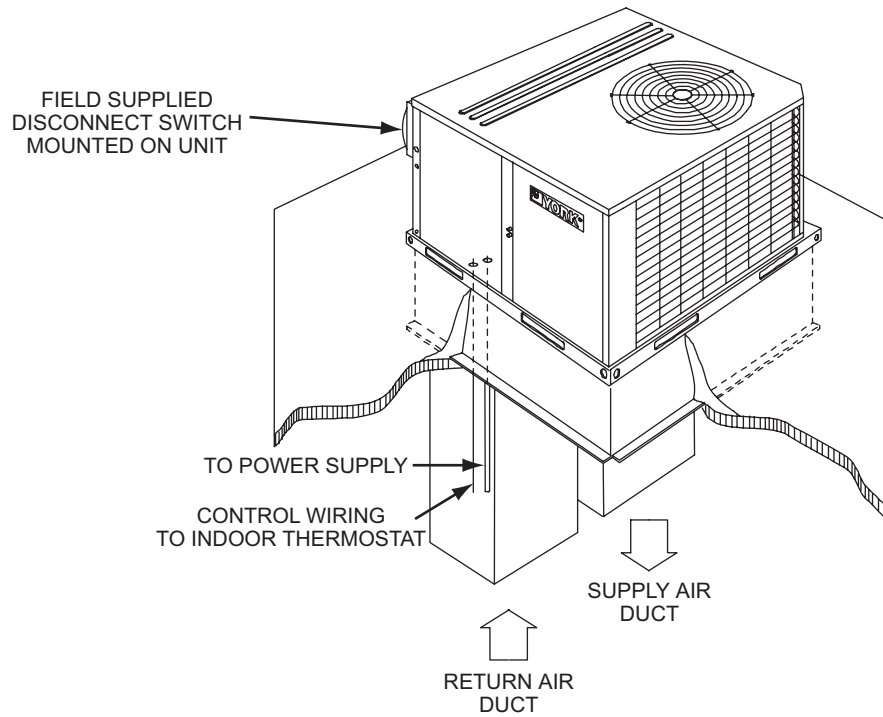
Unit Typical Duct Applications



Unit Typical Slab on Ground Installation

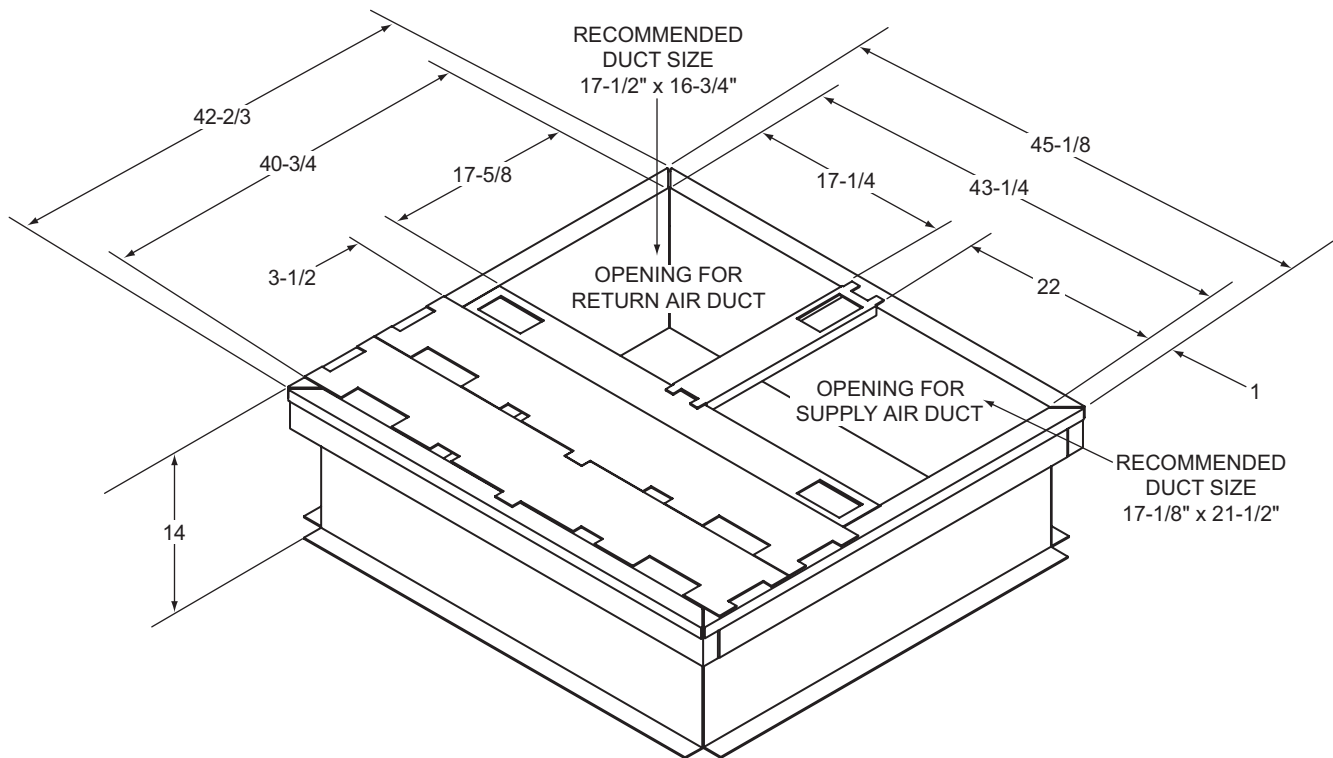


Unit Typical Roof Curb Installation



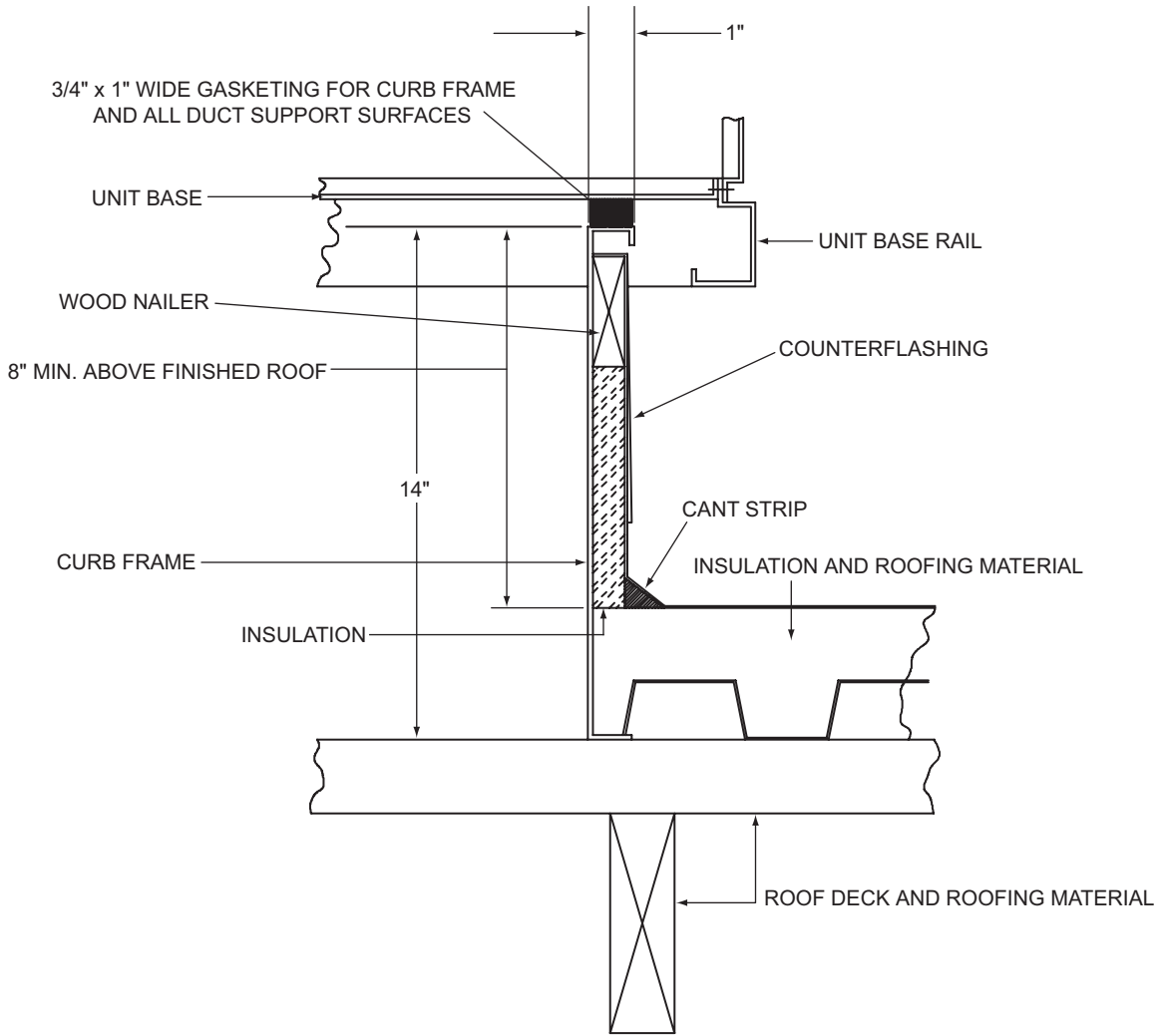
Unit Accessory Dimensions

Roof Curb¹



1. 8" Roof Curb also available.

Roof Curb Cross Section



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