YORK®
Heating and Air Conditioning

TECHNICAL GUIDE

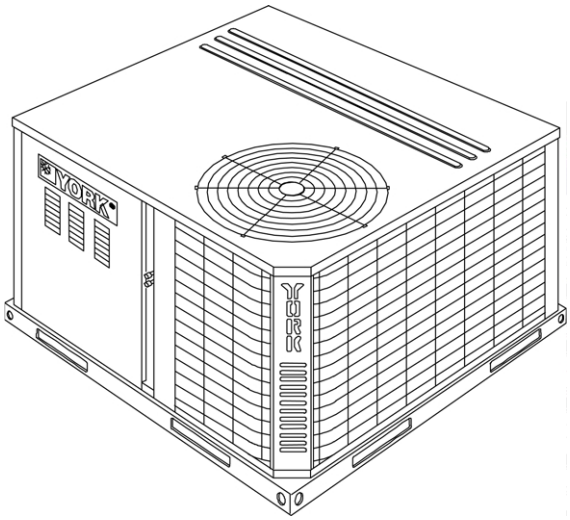
CHAMPION® PLUS

SINGLE PACKAGE GAS/ELECTRIC

AIR COOLED AIR CONDITIONERS

1-1/2 THROUGH 5 NOMINAL TON

DNH018 THROUGH 060
UP TO 12.4 SEER



FLEXIBLE LIGHT COMMERCIAL UNIT

GENERAL

YORK's Champion® package units are designed to handle applications ranging from residential to light commercial and any in between. The Champion® is a unit that gives you the flexibility and choices you need in today's market.

FEATURING

- COOLING/GAS HEATING UNITS (NATURAL GAS OR PROPANE)
- LOW PROFILE
- QUIET OPERATION
- COMMON FOOTPRINT
- OPTIONAL SLIDE IN MOTORIZED DAMPERS
- OPTIONAL SLIDE IN ECONOMIZERS
- OPTIONAL ELECTRIC HEATERS
- OPTIONAL PROPANE CONVERSION KIT
- OPTIONAL HIGH ALTITUDE CONVERSION KIT (NATURAL GAS/PROPANE)
- OPTIONAL NOx KIT
- FULL PERIMETER BASE RAILS
- BOTTOM AND SIDE UTILITY CONNECTIONS
- 1" OR 2" CLEANABLE FILTERS STANDARD ON ALL 3 PHASE MODELS. OPTIONAL ON 1 PHASE MODELS

- WARRANTY - 1 PHASE
  - 10 year compressor
  - 10 year heat exchanger
  - 5 year other parts

- WARRANTY - 3 PHASE
  - 5 year compressor
  - 10 year heat exchanger
  - 1 year other parts

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DESCRIPTION

These packaged cooling/heating air conditioners are designed for outdoor installation. Only utility and duct connections are required at the point of installation.

The gas-fired heaters have aluminized steel tubular heat exchangers and hot surface to pilot ignition. They are available in natural gas with field conversion to propane.

STANDARD FEATURES/BENEFITS

OPERATING EFFICIENCY - All units provide high operating efficiencies and have a minimum AFUE of 80% and SEER of up to 12.4. 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 models are well under 500 pounds.

All units are completely wired, charged with R-22 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 - Gas and 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, watertight 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 tolerable during installation and 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 insure less fading when exposed to sunlight and offers a more attractive on site appearance. This paint finish meets ASTM-B117 standards for 750 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 does this 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 it's 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 a 3-speed direct-drive fan motor. These units easily match all types of applications and provides greater on site flexibility to match comfort requirement. Single phase models have the Comfort-Match system that allows different speed taps for heating or cooling operations. 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.

EXCLUSIVE COIL DESIGN - Grooved copper tubes and enhanced aluminum fin construction improves heat transfer for maximum efficiency and durability.

HEAT EXCHANGERS - Are corrosion-resistant, aluminized-steel tubular construction to provide long-life, trouble-free operation. The unique blow-through design also assures that condensate does not collect in humid areas when in the cooling cycle. This adds to longer heat exchanger life and higher long term efficiencies.

POST PURGE INDUCED DRAFT COMBUSTION - Exhausts combustion products from the heat exchanger upon completion of the heating cycle to prolong the heat exchanger life.

SELF DIAGNOSTIC FAN CONTROL MODULE - Due to this self diagnostic control, less on site time is required to trouble shoot these units.

HOT SURFACE TO PILOT IGNITION - Provides faster heat delivery. This ignition is highly reliable, durable and eliminates nuisance lockouts. Also assures starts in damp conditions.

MULTI PORT IN-SHOT BURNERS - No field adjustment is required to mix the air and gas. These burners are constructed of high-grade corrosion-resistant, aluminized-steel.

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 and gas controls makes 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 has no need to carry an inventory of unique parts or needs special training to replace any of the components parts for these units. All are easily obtained from Source 1 or other part houses.

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

LOW NOx KIT - Kit includes all the necessary hardware and instructions to field convert units to reduce emissions to less than 40 nanogram per Joule. California requirement on single phase models only.

PROPANE CONVERSION KIT - Kit includes burner orifices, gas valve conversion and installation instructions necessary to field convert unit from natural gas to propane.

HIGH ALTITUDE CONVERSION KIT (Natural Gas/Propane) - Kit includes all necessary labels and instructions to field alter units with natural gas/propane for installation above 2000 feet. Burner orifices must be obtained from Source 1 Parts. Propane Conversion Kit must be obtained separately.

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.

PRESSURE SWITCH UPGRADE KIT - Contains screw in type High pressure, Low Pressure/Loss of Charge switch, freeze protection switch and lockout relay. Switches are placed onto existing scharder ports located in the unit by furnished adapters. When abnormal conditions are sensed through the pressure switches, the unit will lock out preventing any further operation until reset or problem is corrected. Package agency approved.

HAIL GUARD KIT - Kit contains protective grilles made of expanded aluminum with full perimeter frame. Sloped hoods are also included to assure maximum protection.

ANTI SHORT CYCLE TIMER - Automatically prevents the compressor from restarting for 5 minutes after cycled off.Not required if Thermostat 2ET07700224 and 2ET04700224 are used.

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.)

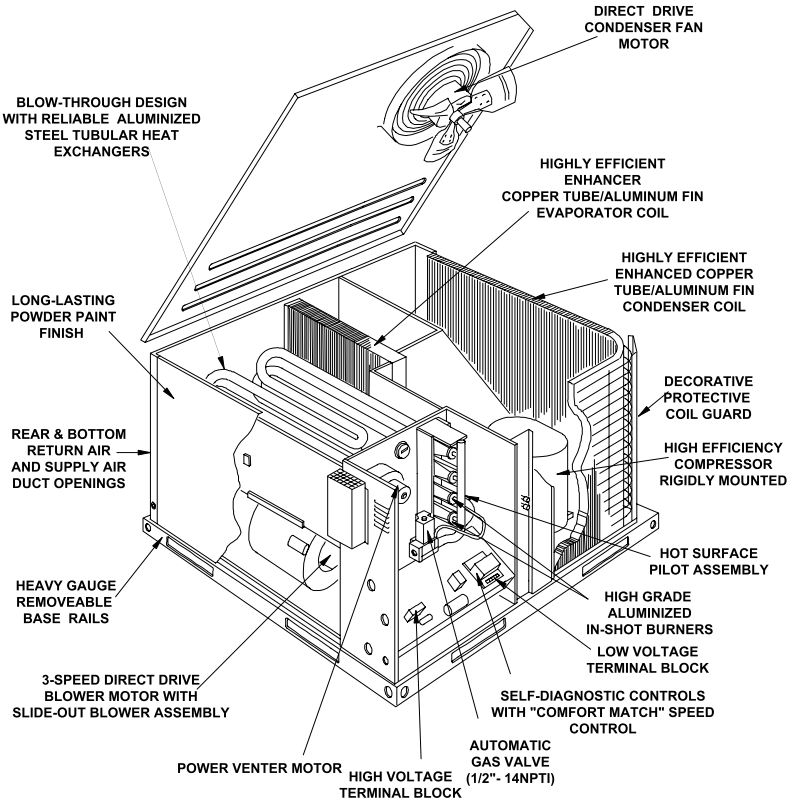

FIGURE 1 - UNIT COMPONENT LOCATION

TABLE 1: PHYSICAL DATA

MODEL		DNH						
		018	024	030	036	042	048	060
EVAPORATOR BLOWER	CENTRIFUGAL BLOWER (Dia. x W. in.)	10 X 8	10 X 8	10 X 8	11 x 10	11 x 10	12 x 11	12 x 11
	FAN MOTOR HP (3 Speed)	1/2	1/2	1/2	3/4	3/4	3/4	1
EVAPORATOR COIL	ROWS DEEP	2	2	3	3	3	3	3
	FINS PER INCH	13	15	13	13	13	16	16
	FACE AREA (Sq. Ft.)	3.5	3.5	3.5	3.5	4.5	4.5	4.5
CONDENSER FAN	PROPELLER DIA. (in.)	22	22	22	22	22	22	22
	FAN MOTOR HP	1/4	1/4	1/4	1/4	1/4	1/3	1/3
	NOM. CFM TOTAL	1,800	2,200	2,400	2,400	2,400	3,000	3,000
CONDENSER COIL	ROWS DEEP	1	1	1	2	1	2	2
	FINS PER INCH	20	20	20	20	20	20	20
	FACE AREA (Sq. Ft.)	11.7	11.7	11.7	11.7	14.7	14.7	14.7
CHARGE	REFRIGERANT 22 (lbs./oz.)	4 / 6	4 / 6	4 / 9	6 / 12	5 / 14	8 / 0	7 / 14
FILTER	FACE AREA (Sq. Ft.) Size (Nominal)	2.6/20x20	2.6/20x20	2.6/20x20	2.6/20x20	3.3/20x12 (2 Reqd.)	3.3/20x12 (2 Reqd.)	3.3/20x12 (2 Reqd.)
FURNACE SECTION	NATURAL GAS BURNER ORIFICE NO. (Drill Size)	43	43	43	43	40	40	40
	PROPANE BURNER ORIFICE NO. (Drill Size)	55	55	55	55	53	53	53
	GAS CONNECTION SIZE	1/2 NPTI	1/2 NPTI	1/2NPTI	1/2 NPTI	1/2 NPTI	1/2 NPTI	1/2 NPTI
COMPRESSOR	HERMETIC TYPE, (Qty. = 1)	Reciprocat-ing	Reciprocat-ing	Scroll	Scroll	Scroll	Scroll	Scroll

TABLE 2: RATINGS COOLING/GAS HEATING

MODEL DNH	NET COOLING CAPACITY[1]		SOUND RATING (dbels)[2]	GAS HEAT CAPACITY / EFFICIENCIES				
	MBH	SEER[3]		INPUT (MBH)	OUTPUT (MBH)	AFUE[4] (%)	NUMBER OF BURNERS	TEMP. RISE (°F) RANGE
018N03606	17.4	12.0	80	45	36	80.2	2	25 - 55
024N03606	23.8	12.4	81	45	36	80.2	2	25 - 55
024N05606	23.8	12.4	81	70	56	80.2	3	30 - 60
030N03606	28.0	12.0	80	45	36	80.2	2	25 - 55
030N03625	28.0	12.0	80	45	36	80.2	2	25 - 55
030N03646	28.0	12.0	80	45	36	80.2	2	25 - 55
030N05606	28.0	12.0	80	70	56	80.2	3	30 - 60
030N05625	28.0	12.0	80	70	56	80.2	3	30 - 60
030N05646	28.0	12.0	80	70	56	80.2	3	30 - 60
036N03606	36.0	12.0	81	45	36	80.4	2	25 - 55
036N03625	36.0	12.0	81	45	36	80.4	2	25 - 55
036N03646	36.0	12.0	81	45	36	80.4	2	25 - 55
036N03658	36.0	12.0	81	45	36	80.4	2	25 - 55
036N05606	36.0	12.0	81	70	56	80.2	3	25 - 55
036N05625	36.0	12.0	81	70	56	80.2	3	25 - 55
036N05646	36.0	12.0	81	70	56	80.2	3	25 - 55
036N05658	36.0	12.0	81	70	56	80.2	3	25 - 55
036N07206	36.0	12.0	81	90	72	80.1	4	30 - 60
036N07225	36.0	12.0	81	90	72	80.1	4	30 - 60
036N07246	36.0	12.0	81	90	72	80.1	4	30 - 60
036N07258	36.0	12.0	81	90	72	80.1	4	30 - 60
042N06506	42.0	12.0	80	80	64	80.6	3	25 - 55
042N06525	42.0	12.0	80	80	64	80.6	3	25 - 55
042N06546	42.0	12.0	80	80	64	80.6	3	25 - 55
042N06558	42.0	12.0	80	80	64	80.6	3	25 - 55
042N09006	42.0	12.0	80	108	87	80.8	4	45 - 75
042N09025	42.0	12.0	80	108	87	80.8	4	45 - 75
042N09046	42.0	12.0	80	108	87	80.8	4	45 - 75
042N09058	42.0	12.0	80	108	87	80.8	4	45 - 75
048N06506	48.0	12.0	84	80	64	80.8	3	25 - 55
048N06525	48.0	12.0	84	80	64	80.8	3	25 - 55
048N06546	48.0	12.0	84	80	64	80.8	3	25 - 55
048N06558	48.0	12.0	84	80	64	80.8	3	25 - 55
048N09006	48.0	12.0	84	108	86	80.6	4	35 - 65
048N09025	48.0	12.0	84	108	86	80.6	4	35 - 65
048N09046	48.0	12.0	84	108	86	80.6	4	35 - 65
048N09058	48.0	12.0	84	108	86	80.6	4	35 - 65
048N11006	48.0	12.0	84	135	107	80.5	5	45 - 75
048N11025	48.0	12.0	84	135	107	80.5	5	45 - 75
048N11046	48.0	12.0	84	135	107	80.5	5	45 - 75
048N11058	48.0	12.0	84	135	107	80.5	5	45 - 75
060N06506	59.0	12.0	84	80	64	80.7	3	25 - 55
060N06525	59.0	12.0	84	80	64	80.7	3	25 - 55
060N06546	59.0	12.0	84	80	64	80.7	3	25 - 55
060N06558	59.0	11.0	84	80	64	80.7	3	25 - 55
060N09006	59.0	12.0	84	108	87	80.9	4	35 - 65
060N09025	59.0	12.0	84	108	87	80.9	4	35 - 65
060N09046	59.0	12.0	84	108	87	80.9	4	35 - 65
060N09058	59.0	11.0	84	108	87	80.9	4	35 - 65
060N11006	59.0	12.0	84	135	107	80.2	5	45 - 75
060N11025	59.0	12.0	84	135	107	80.2	5	45 - 75
060N11046	59.0	12.0	84	135	107	80.2	5	45 - 75
060N11058	59.0	11.0	84	135	107	80.2	5	45 - 75

1. Net Cooling Capacity = ARI 210 standard rating conditions.
2. (dbels) = ARI 270-95
3. Seasonal Energy Efficiency Ration - the total cooling output in BTU's during a normal annual usage period for cooling divided by the total electric power input in watt-hours during the same period.
4. AFUE = Annual Fuel Utilization Efficiency.

TABLE 3: DNH018 COOLING CAPACITIES - 1-1/2 TON

TEMPERATURE OF AIR ON CONDENSER COIL			AIR ON EVAPORATOR COIL																			
			450 CFM				525 CFM				600 CFM				675 CFM				750 CFM			
			WB °F				WB °F				WB °F				WB °F				WB °F			
			72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57
85 °F	NET CAP. MBH		16.0	15.0	13.5	13.7	18.0	16.8	15.2	15.4	19.9	18.7	16.8	17.1	20.3	19.0	17.1	17.4	20.7	19.4	17.5	17.7
	TOTAL POWER INPUT kW		1.61	1.61	1.60	1.60	1.62	1.61	1.61	1.61	1.62	1.61	1.61	1.61	1.64	1.63	1.63	1.63	1.66	1.65	1.65	1.65
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	9.0	11.6	13.5	13.7	11.1	14.0	15.2	15.4	13.2	16.5	16.8	17.1	12.9	16.3	17.1	17.4	12.5	16.1	17.5	17.7
		83	8.5	11.1	13.1	13.6	10.1	13.1	15.0	15.3	11.7	15.0	16.8	17.1	11.8	15.3	17.1	17.4	11.9	15.6	17.5	17.7
		80	8.0	10.6	12.7	13.1	9.1	12.1	14.4	14.9	10.3	13.6	16.1	16.8	10.8	14.3	16.8	17.2	11.3	15.0	17.5	17.7
		77	7.6	10.2	12.2	12.7	8.2	11.1	13.4	14.0	8.8	12.1	14.7	15.3	9.8	13.2	15.8	16.2	10.8	14.4	16.9	17.2
		74	7.1	9.7	11.7	12.2	7.2	10.1	12.5	13.0	7.3	10.6	13.2	13.8	8.7	12.2	14.8	15.2	10.2	13.8	16.3	16.6
		71	-	9.2	11.3	11.7	-	9.2	11.5	12.0	-	9.1	11.7	12.3	-	11.2	13.7	14.2	-	13.3	15.7	16.0
		68	-	8.8	10.8	11.3	-	8.2	10.5	11.1	-	7.6	10.2	10.8	-	10.2	12.7	13.1	-	12.7	15.2	15.4
95°F	NET CAP. MBH		15.2	13.6	12.2	12.4	17.1	15.2	13.8	13.9	18.9	16.9	15.3	15.5	9.5	17.5	15.8	16.0	20.2	18.0	16.3	16.5
	TOTAL POWER INPUT kW		1.75	1.72	1.73	1.72	1.75	1.72	1.73	1.72	1.75	1.72	1.73	1.72	1.77	1.74	1.75	1.74	1.79	1.76	1.78	1.76
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	10.4	12.7	12.2	12.4	11.8	14.5	13.8	13.9	13.3	16.2	15.3	15.5	12.9	16.1	15.8	16.0	12.5	15.9	16.3	16.5
		83	9.0	11.3	12.2	12.4	10.4	13.0	13.8	13.9	11.7	14.6	15.3	15.5	11.8	15.0	15.8	16.0	11.9	15.3	16.3	16.5
		80	7.7	10.0	11.5	11.6	8.9	11.5	13.2	13.3	10.1	13.0	15.0	15.1	10.7	13.9	15.6	15.8	11.3	14.7	16.3	16.5
		77	6.4	8.6	10.2	10.2	7.4	10.0	11.8	11.8	8.4	11.4	13.4	13.5	9.6	12.8	14.5	14.7	10.8	14.1	15.7	15.9
		74	5.0	7.3	8.8	8.9	5.9	8.6	10.3	10.4	6.8	9.8	11.8	11.9	8.5	11.7	13.5	13.6	10.2	13.6	15.1	15.3
		71	-	6.0	7.5	7.5	-	7.1	8.8	8.9	-	8.2	10.2	10.3	-	10.6	12.4	12.5	-	13.0	14.5	14.7
		68	-	4.6	6.1	6.2	-	5.6	7.3	7.4	-	8.6	8.6	8.7	-	9.5	11.3	11.4	-	12.4	14.0	14.2
105°F	NET CAP. MBH		13.6	11.8	10.8	11.0	15.3	13.3	12.2	12.4	17.0	14.8	13.6	13.8	17.6	15.3	14.0	14.3	18.1	15.7	14.5	14.7
	TOTAL POWER INPUT kW		1.87	1.83	1.85	1.84	1.87	1.84	1.85	1.84	1.87	1.84	1.85	1.84	1.90	1.86	1.87	1.87	1.92	1.88	1.90	1.89
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	9.0	11.1	10.8	11.0	10.2	12.7	12.2	12.4	11.5	14.3	13.6	13.8	11.7	14.5	14.0	14.3	11.9	14.7	14.5	14.7
		83	8.1	10.2	10.8	10.9	9.3	11.7	12.2	12.4	10.5	13.2	13.6	13.8	10.9	13.8	14.0	14.3	11.3	14.4	14.5	14.7
		80	7.2	9.3	10.3	10.3	8.3	10.7	11.8	11.9	9.4	12.2	13.4	13.5	10.1	13.0	14.0	14.1	10.8	13.9	14.5	14.7
		77	6.3	8.4	9.4	9.4	7.4	9.8	10.9	10.9	8.4	11.1	12.4	12.4	9.3	12.2	13.2	13.3	10.2	13.3	13.9	14.2
		74	5.5	7.6	8.5	8.6	6.4	8.8	9.9	10.0	7.4	10.1	11.3	11.4	8.5	11.4	12.4	12.5	9.6	12.8	13.4	13.6
		71	-	6.7	7.6	7.7	-	7.9	9.0	9.0	-	9.0	10.3	10.3	-	10.6	11.6	11.7	-	12.2	12.8	13.1
		68	-	5.8	6.8	6.8	-	6.9	8.0	8.1	-	8.0	9.2	9.3	-	9.8	10.8	10.9	-	11.6	12.3	12.5
115°F	NET CAP. MBH		12.0	10.0	9.4	9.6	13.5	11.3	10.7	10.9	15.1	12.6	11.9	12.2	15.6	13.0	12.3	12.6	16.1	13.5	12.7	13.0
	TOTAL POWER INPUT kW		1.99	1.95	1.96	1.96	1.99	1.95	1.96	1.96	2.00	1.96	1.97	1.96	2.02	1.98	1.99	1.99	2.05	2.00	2.02	2.01
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	7.5	9.4	9.4	9.6	8.7	10.9	10.7	10.9	9.8	12.3	11.9	12.2	10.5	12.9	12.3	12.6	11.3	13.5	12.7	13.0
		83	7.1	9.0	9.4	9.4	8.2	10.4	10.7	10.8	9.3	11.8	11.9	12.2	10.0	12.6	12.3	12.6	10.7	13.5	12.7	13.0
		80	6.7	8.6	9.0	9.0	7.8	10.0	10.4	10.5	8.8	11.3	11.8	11.9	9.5	12.2	12.3	12.4	10.2	13.1	12.7	13.0
		77	6.3	8.2	8.6	8.6	7.3	9.5	10.0	10.0	8.4	10.8	11.4	11.4	9.0	11.7	11.8	11.9	9.6	12.5	12.2	12.5
		74	5.9	7.8	8.2	8.2	6.9	9.1	9.5	9.6	7.9	10.4	10.9	10.9	8.5	11.2	11.3	11.4	9.1	12.0	11.6	11.9
		71	-	7.4	7.8	7.8	-	8.6	9.1	9.1	-	9.9	10.4	10.4	-	10.7	10.7	10.9	-	11.4	11.1	11.4
		68	-	7.0	7.4	7.4	-	8.2	8.7	8.7	-	9.4	9.9	10.0	-	10.1	10.2	10.4	-	10.9	10.6	10.8
125°F	NET CAP. MBH		10.4	8.2	8.0	8.3	11.8	9.3	9.1	9.4	13.2	10.5	10.3	10.5	13.7	10.8	10.6	10.9	14.1	11.2	10.9	11.3
	TOTAL POWER INPUT kW		2.11	2.06	2.08	2.08	2.12	2.07	2.08	2.08	2.12	2.07	2.08	2.08	2.15	2.10	2.11	2.11	2.18	2.12	2.14	2.14
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	6.1	7.8	8.0	8.3	7.1	9.1	9.1	9.4	8.1	10.3	10.3	10.5	9.3	11.3	10.6	10.9	10.6	12.3	10.9	11.3
		83	6.2	7.9	8.0	8.0	7.2	9.1	9.1	9.3	8.1	10.4	10.3	10.5	9.1	11.5	10.6	10.9	10.1	12.5	10.9	11.3
		80	6.2	7.9	7.8	7.8	7.2	9.2	9.0	9.0	8.2	10.5	10.3	10.3	8.9	11.3	10.6	10.8	9.6	12.2	10.9	11.3
		77	6.3	8.0	7.8	7.9	7.3	9.3	9.1	9.1	8.3	10.6	10.3	10.4	8.7	11.1	10.4	10.6	9.1	11.7	10.4	10.7
		74	6.4	8.1	7.9	7.9	7.4	9.4	9.2	9.2	8.4	10.6	10.4	10.4	8.5	10.9	10.2	10.3	8.5	11.2	9.9	10.2
		71	-	8.1	8.0	8.0	-	9.4	9.2	9.3	-	10.7	10.5	10.5	-	10.7	9.9	10.1	-	10.7	9.4	9.7
		68	-	8.2	8.0	8.1	-	9.5	9.3	9.3	-	10.8	10.6	10.6	-	10.5	9.7	9.9	-	10.1	8.9	9.2

1. These capacities are net capacities (the indoor fan heat is deducted). ALL SENSIBLE CAPACITY

TABLE 4: DNH024 COOLING CAPACITIES - 2 TON

TEMPERATURE OF AIR ON CONDENSER COIL			AIR ON EVAPORATOR COIL																			
			600 CFM				700 CFM				800 CFM				900 CFM				1000 CFM			
			WB °F				WB °F				WB °F				WB °F				WB °F			
			72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57
85 °F	NET CAP. MBH		23.1	22.8	20.2	19.7	24.5	24.1	21.4	20.9	25.9	25.5	22.6	22.0	25.3	25.0	22.1	21.6	24.8	24.4	21.6	21.1
	TOTAL POWER INPUT kW		2.00	1.99	1.98	1.97	2.03	2.02	2.01	2.00	2.06	2.05	2.04	2.03	2.10	2.09	2.08	2.07	2.15	2.14	2.12	2.11
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	12.1	16.6	19.2	19.3	14.6	19.5	20.9	20.7	17.0	22.3	22.6	22.0	15.9	21.3	22.1	21.6	14.8	20.2	21.6	21.1
		83	11.5	16.0	18.6	18.7	13.3	18.2	20.6	20.4	15.0	20.4	22.6	22.0	14.5	19.9	22.1	21.6	14.0	19.5	21.6	21.1
		80	10.9	15.4	17.9	18.1	12.0	16.9	19.7	19.9	13.0	18.4	21.5	21.6	13.1	18.5	21.6	21.4	13.3	18.7	21.6	21.1
		77	10.3	14.8	17.3	17.5	10.7	15.6	18.4	18.6	11.1	16.4	19.5	19.7	11.8	17.2	20.2	20.0	12.5	17.9	20.9	20.4
		74	9.7	14.1	16.7	16.9	9.4	14.3	17.1	17.3	9.1	14.4	17.5	17.7	10.4	15.8	18.8	18.7	11.7	17.2	20.1	19.6
		71	-	13.5	16.1	16.3	-	13.0	15.8	16.0	-	12.5	15.5	15.7	-	14.4	17.4	17.3	-	16.4	19.3	18.8
		68	-	12.9	15.5	15.6	-	11.7	14.5	14.7	-	10.5	13.6	13.8	-	13.1	16.1	15.9	-	15.6	18.6	18.1
95°f	NET CAP. MBH		22.8	21.8	19.1	18.7	23.7	22.6	19.9	19.4	24.6	23.5	20.6	20.2	24.3	23.2	20.4	19.9	24.0	22.9	20.1	19.7
	TOTAL POWER INPUT kW		2.17	2.13	2.13	2.11	2.20	2.16	2.16	2.14	2.22	2.19	2.19	2.17	2.28	2.24	2.24	2.22	2.33	2.30	2.29	2.27
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	14.4	18.6	19.1	18.7	15.7	20.4	19.9	19.4	17.1	22.2	20.6	20.2	16.1	21.3	20.4	19.9	15.1	20.4	20.1	19.7
		83	12.6	16.8	18.5	18.5	13.8	18.5	19.6	19.3	15.0	20.1	20.6	20.2	14.6	19.9	20.4	19.9	14.3	19.7	20.1	19.7
		80	10.8	15.1	16.7	16.7	11.8	16.5	18.3	18.3	12.8	17.9	19.9	19.8	13.2	18.4	20.0	19.8	13.5	18.9	20.1	19.7
		77	9.0	13.3	15.0	14.9	9.8	14.5	16.4	16.3	10.7	15.8	17.8	17.7	11.7	16.9	18.6	18.3	12.8	18.1	19.3	18.9
		74	7.2	11.5	13.2	13.0	7.9	12.6	14.4	14.3	8.6	13.6	15.7	15.6	10.3	15.5	17.1	16.8	12.0	17.3	18.6	18.1
		71	-	9.7	11.4	11.3	-	10.6	12.4	12.4	-	11.5	13.5	13.4	-	14.0	15.7	15.4	-	16.6	17.8	17.4
		68	-	7.9	9.6	9.5	-	8.6	10.5	10.4	-	9.4	11.4	11.3	-	12.6	14.2	13.9	-	15.8	17.0	16.6
105°F	NET CAP. MBH		20.9	18.9	17.0	16.2	21.9	19.9	17.8	17.0	23.0	20.8	18.7	17.8	23.2	20.9	18.8	17.9	23.3	21.1	18.9	18.0
	TOTAL POWER INPUT kW		2.32	2.27	2.28	2.26	2.35	2.30	2.31	2.29	2.37	2.33	2.33	2.32	2.43	2.38	2.39	2.37	2.48	2.44	2.44	2.42
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	12.6	16.1	16.5	16.0	14.0	17.9	17.6	16.9	15.3	19.6	18.7	17.8	15.3	19.7	18.8	17.9	15.2	19.8	18.9	18.0
		83	11.4	15.0	15.9	15.6	12.7	16.6	17.3	16.7	13.9	18.2	18.6	17.8	14.2	18.7	18.8	17.9	14.5	19.1	18.9	18.0
		80	10.3	13.8	14.8	14.5	11.4	15.3	16.4	16.0	12.6	16.8	18.0	17.6	13.1	17.6	18.5	17.8	13.7	18.3	18.9	18.0
		77	9.1	12.6	13.6	13.3	10.1	14.0	15.1	14.8	11.2	15.4	16.6	16.2	12.1	16.5	17.4	16.7	13.0	17.6	18.2	17.3
		74	8.0	11.5	12.4	12.1	8.9	12.8	13.8	13.5	9.8	14.0	15.2	14.8	11.0	15.4	16.3	15.7	12.2	16.9	17.5	16.5
		71	-	10.3	11.3	11.0	-	11.5	12.5	12.2	-	12.6	13.8	13.4	-	14.4	15.3	14.6	-	16.1	16.7	15.8
		68	-	9.1	10.1	9.8	-	10.2	11.3	10.9	-	11.3	12.4	12.1	-	13.3	14.2	13.5	-	15.4	16.0	15.0
115°F	NET CAP. MBH		19.0	16.1	14.9	13.7	20.2	17.1	15.8	14.6	21.3	18.1	16.7	15.4	22.0	18.6	17.3	15.9	22.7	19.2	17.8	16.4
	TOTAL POWER INPUT kW		2.46	2.42	2.42	2.41	2.49	2.45	2.45	2.44	2.53	2.48	2.48	2.47	2.58	2.53	2.54	2.52	2.63	2.58	2.59	2.57
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	10.9	13.6	13.8	13.3	12.2	15.3	15.3	14.4	13.6	17.0	16.7	15.4	14.5	18.1	17.3	15.9	15.3	19.2	17.8	16.4
		83	10.3	13.1	13.3	12.8	11.6	14.7	15.0	14.1	12.9	16.4	16.7	15.4	13.8	17.4	17.2	15.9	14.6	18.5	17.8	16.4
		80	9.8	12.5	12.8	12.3	11.0	14.1	14.4	13.8	12.3	15.7	16.0	15.4	13.1	16.8	16.9	15.9	13.9	17.8	17.8	16.4
		77	9.3	12.0	12.2	11.7	10.4	13.5	13.8	13.2	11.6	15.1	15.4	14.7	12.5	16.1	16.2	15.2	13.2	17.1	17.1	15.7
		74	8.7	11.5	11.7	11.2	9.9	13.0	13.2	12.7	11.0	14.4	14.7	14.1	11.7	15.4	15.5	14.5	12.5	16.4	16.3	14.9
		71	-	10.9	11.2	10.7	-	12.4	12.5	12.1	-	13.8	14.1	13.5	-	14.7	14.9	13.8	-	15.6	15.6	14.2
		68	-	10.4	10.6	10.1	-	11.8	12.0	11.5	-	13.2	13.5	12.8	-	14.0	14.2	13.2	-	14.9	14.9	13.5
125°F	NET CAP. MBH		17.2	13.3	12.8	11.3	18.5	14.3	13.8	12.1	19.7	15.4	14.8	13.0	20.9	16.4	15.7	13.9	22.1	17.4	16.6	14.7
	TOTAL POWER INPUT kW		2.61	2.56	2.57	2.55	2.64	2.59	2.60	2.59	2.68	2.62	2.63	2.62	2.73	2.67	2.68	2.67	2.78	2.72	2.73	2.72
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	9.1	11.1	11.2	10.7	10.4	12.7	13.0	11.8	11.8	14.4	14.8	13.0	13.6	16.4	15.7	13.9	15.5	18.6	16.6	14.7
		83	9.2	11.2	10.7	10.0	10.5	12.8	12.7	11.5	11.9	14.5	14.7	13.0	13.3	16.2	15.7	13.9	14.8	18.0	16.6	14.7
		80	9.3	11.3	10.8	10.1	10.6	13.0	12.4	11.6	12.0	14.6	14.0	13.0	13.0	15.9	15.3	13.9	14.1	17.3	16.6	14.7
		77	9.4	11.4	10.9	10.2	10.7	13.1	12.5	11.7	12.1	14.7	14.2	13.0	12.7	15.6	15.1	13.6	13.4	16.6	15.9	14.0
		74	9.5	11.5	11.0	10.3	10.8	13.2	12.6	11.8	12.2	14.8	14.3	13.0	12.5	15.4	14.8	13.4	12.7	15.9	15.2	13.3
		71	-	11.6	11.1	10.4	-	13.3	12.7	11.9	-	15.0	14.4	13.0	-	15.1	14.5	13.1	-	15.2	14.5	12.6
		68	-	11.7	11.2	10.4	-	13.4	12.8	12.0	-	15.1	14.5	13.0	-	14.8	14.2	12.8	-	14.5	13.8	11.9

1. These capacities are net capacities (the indoor fan heat is deducted). ALL SENSIBLE CAPACITY

TABLE 5: DNH030 COOLING CAPACITIES - 2-1/2 TON

TEMPERATURE OF AIR ON CONDENSER COIL			AIR ON EVAPORATOR COIL																			
			750 CFM				875 CFM				1,000 CFM				1,125 CFM				1,250 CFM			
			WB °F				WB °F				WB °F				WB °F				WB °F			
			72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57
85 °F	NET CAP. MBH		27.2	26.8	24.1	24.0	28.5	28.1	25.3	25.2	29.8	29.4	26.4	26.4	29.4	29.0	26.1	26.0	29.0	28.6	25.7	25.6
	TOTAL POWER INPUT kW		2.35	2.34	2.32	2.32	2.40	2.39	2.37	2.36	2.44	2.43	2.41	2.40	2.52	2.51	2.49	2.48	2.60	2.59	2.57	2.56
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	17.3	22.2	24.1	24.0	19.4	24.9	25.3	25.2	21.6	27.6	26.4	26.4	22.4	28.1	26.1	26.0	23.3	28.6	25.7	25.6
		83	15.1	20.1	23.0	23.9	16.9	22.4	24.7	25.1	18.7	24.7	26.4	26.4	19.1	25.1	26.1	26.0	19.6	25.6	25.7	25.6
		80	13.0	17.9	20.8	21.7	14.4	19.8	23.0	24.0	15.8	21.7	25.2	26.3	15.8	21.8	25.3	26.0	15.8	21.8	25.4	25.6
		77	10.9	15.8	18.7	19.6	11.8	17.3	20.5	21.5	12.8	18.8	22.3	23.4	12.5	18.5	22.0	22.7	12.1	18.1	21.6	21.9
		74	8.7	13.7	16.5	17.5	9.3	14.8	18.0	19.0	9.9	15.9	19.4	20.5	9.1	15.1	18.7	19.3	8.4	14.4	17.9	18.2
		71	-	11.5	14.4	15.3	-	12.3	15.5	16.5	-	13.0	16.5	17.6	-	11.8	15.3	16.0	-	10.7	14.2	14.4
		68	-	9.4	12.3	13.2	-	9.7	12.9	13.9	-	10.1	13.6	14.7	-	8.5	12.0	12.7	-	6.9	10.5	10.7
95 °F	NET CAP. MBH		24.0	23.0	21.1	20.5	26.6	25.5	23.3	22.7	29.2	28.0	25.6	24.9	29.1	27.9	25.5	24.8	29.0	27.7	25.4	24.7
	TOTAL POWER INPUT kW		2.56	2.54	2.50	2.50	2.60	2.58	2.54	2.54	2.65	2.63	2.58	2.58	2.74	2.71	2.67	2.67	2.82	2.80	2.76	2.75
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	16.1	20.7	21.1	20.5	18.8	24.2	23.3	22.7	21.6	27.6	25.6	24.9	22.6	27.7	25.5	24.8	23.7	27.7	25.4	24.7
		83	14.0	18.5	21.1	20.5	16.3	21.6	23.3	22.7	18.7	24.7	25.6	24.9	19.3	25.4	25.5	24.8	19.9	26.2	25.4	24.7
		80	11.8	16.4	19.2	18.6	13.8	19.1	22.4	21.7	15.7	21.8	25.6	24.7	16.0	22.1	25.5	24.7	16.2	22.4	25.4	24.7
		77	9.7	14.3	17.1	16.5	11.3	16.6	19.9	19.1	12.8	18.9	22.7	21.8	12.7	18.8	22.2	21.4	12.5	18.7	21.7	21.0
		74	7.6	12.1	15.0	14.3	8.7	14.0	17.4	16.6	9.9	16.0	19.8	18.9	9.3	15.5	18.9	18.1	8.8	15.0	17.9	17.2
		71	-	10.0	12.8	12.2	-	11.5	14.8	14.1	-	13.1	16.9	16.0	-	12.2	15.5	14.8	-	11.3	14.2	13.5
		68	-	7.8	10.7	10.0	-	9.0	12.3	11.6	-	10.1	13.9	13.1	-	8.8	12.2	11.4	-	7.5	10.5	9.8
105 °F	NET CAP. MBH		22.8	20.8	19.4	19.0	25.1	22.9	21.4	20.9	27.4	25.0	23.3	22.8	27.5	25.1	23.4	22.9	27.7	25.2	23.5	23.0
	TOTAL POWER INPUT kW		2.76	2.72	2.68	2.68	2.81	2.77	2.73	2.72	2.85	2.81	2.77	2.77	2.94	2.90	2.86	2.85	3.03	2.99	2.95	2.94
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	16.0	19.6	19.4	19.0	18.4	22.3	21.4	20.9	20.8	24.9	23.3	22.8	22.3	25.0	23.4	22.9	23.7	25.2	23.5	23.0
		83	13.9	18.0	19.4	19.0	15.9	20.6	21.4	20.9	17.9	23.2	23.3	22.8	18.9	23.8	23.4	22.9	20.0	24.5	23.5	23.0
		80	11.8	15.8	18.2	17.5	13.4	18.0	20.8	20.0	15.0	20.2	23.3	22.4	15.6	21.0	23.4	22.7	16.2	21.8	23.5	23.0
		77	9.6	13.7	16.1	15.4	10.9	15.5	18.2	17.4	12.1	17.3	20.4	19.5	12.3	17.7	20.1	19.4	12.5	18.1	19.8	19.2
		74	7.5	11.6	13.9	13.2	8.3	13.0	15.7	14.9	9.2	14.4	17.5	16.6	9.0	14.4	16.8	16.1	8.8	14.4	16.1	15.5
		71	-	9.4	11.8	11.1	-	10.5	13.2	12.4	-	11.5	14.6	13.7	-	11.1	13.4	12.7	-	10.7	12.3	11.8
		68	-	7.3	9.7	9.0	-	7.9	10.7	9.9	-	8.6	11.6	10.8	-	7.8	10.1	9.4	-	6.9	8.6	8.1
115 °F	NET CAP. MBH		21.6	18.6	17.7	17.4	23.6	20.4	19.4	19.0	25.6	22.1	21.0	20.6	26.0	22.4	21.3	20.9	26.4	22.7	21.6	21.3
	TOTAL POWER INPUT kW		2.96	2.90	2.86	2.86	3.01	2.95	2.91	2.91	3.06	3.00	2.96	2.95	3.15	3.09	3.05	3.04	3.24	3.18	3.13	3.13
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	16.0	18.6	17.7	17.4	18.0	20.4	19.4	19.0	20.1	22.1	21.0	20.6	21.9	22.4	21.3	20.9	23.7	22.7	21.6	21.3
		83	13.8	17.4	17.7	17.4	15.5	19.5	19.4	19.0	17.2	21.6	21.0	20.6	18.6	22.2	21.3	20.9	20.0	22.7	21.6	21.3
		80	11.7	15.3	17.2	16.4	13.0	17.0	19.1	18.3	14.3	18.7	21.0	20.1	15.3	20.0	21.3	20.7	16.2	21.2	21.6	21.3
		77	9.5	13.1	15.0	14.3	10.5	14.4	16.6	15.7	11.4	15.8	18.1	17.2	11.9	16.6	18.0	17.4	12.5	17.5	17.9	17.5
		74	7.4	11.0	12.9	12.2	7.9	11.9	14.0	13.2	8.5	12.8	15.2	14.3	8.6	13.3	14.7	14.0	8.8	13.8	14.2	13.8
		71	-	8.9	10.8	10.0	-	9.4	11.5	10.7	-	9.9	12.3	11.4	-	10.0	11.4	10.7	-	10.1	10.5	10.1
		68	-	6.7	8.6	7.9	-	6.9	9.0	8.2	-	7.0	9.3	8.4	-	6.7	8.0	7.4	-	6.3	6.7	6.4
125 °F	NET CAP. MBH		20.4	16.4	16.1	15.9	22.1	17.8	17.4	17.2	23.8	19.1	18.7	18.5	24.4	19.7	19.2	19.0	25.1	20.2	19.8	19.5
	TOTAL POWER INPUT kW		3.16	3.09	3.05	3.04	3.22	3.14	3.10	3.09	3.27	3.19	3.15	3.14	3.36	3.28	3.23	3.23	3.45	3.36	3.32	3.31
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	15.9	14.6	16.1	15.9	17.6	18.5	17.4	17.2	19.4	19.3	18.7	18.5	21.6	19.8	19.2	19.0	23.7	20.2	19.8	19.5
		83	13.7	16.9	16.1	15.9	15.1	18.4	17.4	17.2	16.5	20.0	18.7	18.5	18.2	20.5	19.2	19.0	20.0	21.0	19.8	19.5
		80	11.6	14.7	16.1	15.4	12.6	15.9	17.4	16.6	13.6	17.1	18.7	17.8	14.9	18.9	19.2	18.7	16.3	20.6	19.8	19.5
		77	9.5	12.6	14.0	13.2	10.1	13.4	14.9	14.0	10.6	14.2	15.8	14.9	11.6	15.5	15.9	15.3	12.5	16.9	16.0	15.8
		74	7.3	10.4	11.9	11.1	7.5	10.9	12.4	11.5	7.7	11.3	12.9	11.9	8.3	12.2	12.6	12.0	8.8	13.2	12.3	12.1
		71	-	8.3	9.7	8.9	-	8.3	9.8	9.0	-	8.4	10.0	9.0	-	8.9	9.3	8.7	-	9.5	8.6	8.4
		68	-	6.2	7.6	6.8	-	5.8	7.3	6.5	-	5.4	7.0	6.1	-	5.6	5.9	5.4	-	5.7	4.9	4.6

1. These capacities are net capacities (the indoor fan heat is deducted). ALL SENSIBLE CAPACITY

TABLE 6: DNH036 COOLING CAPACITIES - 3 TON

TEMPERATURE OF AIR ON CONDENSER COIL			AIR ON EVAPORATOR COIL																			
			900 CFM				1,050 CFM				1,200 CFM				1,300 CFM				1,400 CFM			
			WB °F				WB °F				WB °F				WB °F				WB °F			
			72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57
85 °F	NET CAP. MBH		35.9	33.6	31.7	31.6	38.4	35.9	33.9	33.8	40.9	38.3	36.1	36.0	41.5	38.9	36.6	36.6	42.1	39.5	37.2	37.2
	TOTAL POWER INPUT kW		3.14	3.09	3.10	3.17	3.16	3.11	3.12	3.18	3.18	3.13	3.14	3.20	3.12	3.07	3.08	3.14	3.07	3.02	3.03	3.09
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	19.7	25.4	30.8	30.9	23.6	29.9	33.4	33.5	27.5	34.4	36.1	36.0	26.6	33.9	36.6	36.6	25.8	33.4	37.2	37.2
		83	18.7	24.5	29.8	30.0	21.6	28.0	33.0	33.0	24.5	31.5	36.1	36.0	24.6	31.9	36.6	36.6	24.7	32.3	37.2	37.2
		80	17.8	23.5	28.9	29.1	19.7	26.0	32.0	32.2	21.6	28.5	35.0	35.2	22.6	29.8	36.1	36.2	23.6	31.2	37.2	37.2
		77	16.9	22.6	28.0	28.2	17.7	24.1	30.0	30.2	18.6	25.5	32.1	32.3	20.6	27.8	34.1	34.2	22.5	30.1	36.1	36.1
		74	15.9	21.7	27.1	27.2	15.8	22.1	28.1	28.3	15.6	22.6	29.1	29.3	18.5	25.8	32.1	32.1	21.4	29.0	35.0	35.0
		71	-	20.7	26.1	26.3	-	20.2	26.1	26.3	-	19.6	26.1	26.3	-	23.8	30.0	30.1	-	27.9	34.0	33.9
		68	-	19.8	25.2	25.4	-	18.2	24.2	24.4	-	16.7	23.2	23.4	-	21.7	28.0	28.1	-	26.8	32.9	32.8
95 °F	NET CAP. MBH		35.7	32.4	30.5	30.7	38.1	34.5	32.5	32.8	40.5	36.7	34.5	34.8	41.3	37.5	35.3	35.5	42.2	38.2	36.0	36.3
	TOTAL POWER INPUT kW		3.19	3.15	3.14	3.22	3.34	3.30	3.29	3.37	3.49	3.45	3.44	3.53	3.42	3.38	3.37	3.45	3.35	3.31	3.30	3.38
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	23.1	28.6	30.5	30.7	25.5	31.7	32.5	32.8	28.0	34.8	34.5	34.8	26.8	33.8	35.3	35.5	25.6	32.9	36.0	36.3
		83	20.4	25.9	30.5	30.6	22.6	28.7	32.5	32.7	24.8	31.5	34.5	34.8	24.6	31.7	35.3	35.5	24.5	31.8	36.0	36.3
		80	17.7	23.3	28.1	27.9	19.6	25.8	31.1	30.9	21.6	28.3	34.2	33.9	22.5	29.5	35.1	35.1	23.4	30.7	36.0	36.3
		77	15.0	20.6	25.4	25.2	16.7	22.8	28.2	28.0	18.4	25.1	31.0	30.7	20.3	27.4	33.0	33.0	22.3	29.7	34.9	35.2
		74	12.3	17.9	22.7	22.5	13.7	19.9	25.2	25.0	15.1	21.9	27.8	27.5	18.2	25.2	30.8	30.8	21.2	28.6	33.8	34.1
		71	-	15.2	20.0	19.8	-	16.9	22.3	22.0	-	18.7	24.5	24.3	-	23.1	28.6	28.7	-	27.5	32.7	33.0
		68	-	12.5	17.3	17.1	-	14.0	19.3	19.1	-	15.5	21.3	21.1	-	20.9	26.5	26.5	-	26.4	31.7	31.9
105 °F	NET CAP. MBH		33.7	30.4	28.5	28.7	36.2	32.7	30.6	30.8	38.7	34.9	32.6	32.9	39.3	35.4	33.2	33.4	39.9	36.0	33.7	33.9
	TOTAL POWER INPUT kW		3.66	3.63	3.61	3.70	3.76	3.72	3.70	3.79	3.85	3.81	3.79	3.88	3.77	3.74	3.72	3.81	3.70	3.66	3.64	3.73
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	20.6	25.9	28.3	28.3	23.0	28.9	30.5	30.6	25.3	31.8	32.6	32.9	25.2	32.0	33.2	33.4	25.1	32.2	33.7	33.9
		83	18.9	24.2	27.9	27.8	21.0	26.9	30.3	30.4	23.2	29.7	32.6	32.9	23.6	30.4	33.2	33.4	24.0	31.1	33.7	33.9
		80	17.1	22.4	26.3	26.0	19.1	25.0	29.4	29.1	21.1	27.6	32.4	32.1	22.0	28.8	33.1	33.0	23.0	30.1	33.7	33.9
		77	15.4	20.7	24.6	24.3	17.2	23.1	27.5	27.1	19.0	25.5	30.4	30.0	20.5	27.3	31.5	31.4	21.9	29.0	32.6	32.9
		74	13.6	18.9	22.8	22.5	15.3	21.2	25.6	25.2	16.9	23.4	28.3	27.9	18.9	25.7	29.9	29.9	20.9	28.0	31.6	31.8
		71	-	17.2	21.1	20.8	-	19.3	23.6	23.3	-	21.3	26.2	25.8	-	24.1	28.3	28.3	-	26.9	30.5	30.8
		68	-	15.4	19.3	19.0	-	17.3	21.7	21.4	-	19.3	24.1	23.7	-	22.5	26.8	26.7	-	25.8	29.4	29.7
115 °F	NET CAP. MBH		31.8	28.5	26.5	26.8	34.3	30.8	28.6	28.9	36.8	33.1	30.7	31.0	37.2	33.4	31.0	31.3	37.5	33.7	31.3	31.6
	TOTAL POWER INPUT kW		4.14	4.11	4.08	4.17	4.17	4.14	4.11	4.21	4.20	4.17	4.14	4.24	4.12	4.09	4.06	4.16	4.04	4.02	3.98	4.08
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	18.2	23.2	26.2	25.8	20.4	26.0	28.5	28.4	22.6	28.9	30.7	31.0	23.6	30.1	31.0	31.3	24.6	31.4	31.3	31.6
		83	17.4	22.4	25.4	25.0	19.5	25.1	28.1	28.0	21.6	27.9	30.7	31.0	22.6	29.1	31.0	31.3	23.5	30.4	31.3	31.6
		80	16.5	21.6	24.6	24.2	18.6	24.3	27.6	27.2	20.6	26.9	30.7	30.2	21.6	28.1	31.0	30.9	22.5	29.4	31.3	31.6
		77	15.7	20.8	23.8	23.4	17.7	23.4	26.8	26.3	19.7	26.0	29.7	29.2	20.6	27.2	30.0	29.9	21.5	28.4	30.3	30.6
		74	14.9	20.0	23.0	22.6	16.8	22.5	25.9	25.4	18.7	25.0	28.8	28.3	19.6	26.2	29.0	28.9	20.5	27.3	29.3	29.6
		71	-	19.2	22.2	21.8	-	21.6	25.0	24.5	-	24.0	27.8	27.3	-	25.2	28.0	27.9	-	26.3	28.3	28.6
		68	-	18.3	21.4	21.0	-	20.7	24.1	23.7	-	23.1	26.8	26.3	-	24.2	27.0	26.9	-	25.3	27.2	27.5
125 °F	NET CAP. MBH		29.8	26.6	24.5	24.8	32.4	28.9	26.7	27.0	35.0	31.3	28.8	29.1	35.1	31.3	28.9	29.2	35.2	31.4	29.0	29.3
	TOTAL POWER INPUT kW		4.61	4.59	4.55	4.65	4.58	4.56	4.52	4.62	4.55	4.54	4.49	4.59	4.47	4.45	4.41	4.51	4.38	4.37	4.32	4.42
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	15.7	20.5	24.1	23.4	17.8	23.2	26.5	26.3	19.9	25.9	28.8	29.1	21.9	28.3	28.9	29.2	24.0	30.7	29.0	29.3
		83	15.8	20.6	22.9	22.3	17.9	23.3	25.9	25.7	20.0	26.1	28.8	29.1	21.5	27.9	28.9	29.2	23.0	29.7	29.0	29.3
		80	16.0	20.8	22.9	22.4	18.1	23.5	25.9	25.4	20.2	26.2	28.9	28.3	21.1	27.5	28.9	28.8	22.1	28.7	29.0	29.3
		77	16.1	20.9	23.0	22.5	18.2	23.6	26.0	25.5	20.3	26.4	29.1	28.5	20.7	27.0	28.5	28.4	21.1	27.7	28.0	28.3
		74	16.2	21.0	23.1	22.6	18.4	23.8	26.2	25.6	20.5	26.5	29.2	28.6	20.3	26.6	28.1	28.0	20.1	26.7	27.0	27.3
		71	-	21.1	23.3	22.8	-	23.9	26.3	25.8	-	26.7	29.4	28.8	-	26.2	27.7	27.6	-	25.7	26.0	26.3
		68	-	21.3	23.4	22.9	-	24.1	26.5	25.9	-	26.9	29.6	29.0	-	25.8	27.3	27.1	-	24.7	25.0	25.3

1. These capacities are net capacities (the indoor fan heat is deducted). ALL SENSIBLE CAPACITY

TABLE 7: DNH042 COOLING CAPACITIES - 3-1/2 TON

TEMPERATURE OF AIR ON CONDENSER COIL			AIR ON EVAPORATOR COIL																			
			1,050 CFM				1,225 CFM				1,400 CFM				1,575 CFM				1,750 CFM			
			WB °F				WB °F				WB °F				WB °F				WB °F			
			72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57
85 °F	NET CAP. MBH		38.6	38.4	34.0	33.3	42.1	41.8	37.0	36.3	45.5	45.3	40.1	39.2	45.3	45.0	39.9	39.1	45.1	44.8	39.7	38.9
	TOTAL POWER INPUT kW		4.05	3.83	3.95	3.91	4.01	3.79	3.92	3.87	3.98	3.76	3.88	3.84	4.12	3.90	4.02	3.98	4.27	4.03	4.16	4.12
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	25.5	32.6	34.0	33.3	28.9	36.8	37.0	36.3	32.2	41.0	40.1	39.2	34.4	42.9	39.9	39.1	36.6	44.8	39.7	38.9
		83	22.5	29.6	34.0	33.3	25.4	33.3	37.0	36.3	28.2	36.9	40.1	39.2	29.8	38.9	39.9	39.1	31.4	40.9	39.7	38.9
		80	19.6	26.6	31.9	31.9	21.8	29.7	35.6	35.6	24.1	32.8	39.3	39.2	25.1	34.3	39.5	39.1	26.2	35.7	39.7	38.9
		77	16.6	23.6	28.9	28.9	18.3	26.2	32.1	32.0	20.0	28.7	35.2	35.2	20.5	29.6	34.8	34.4	21.0	30.5	34.5	33.6
		74	13.6	20.7	25.9	25.9	14.7	22.7	28.5	28.5	15.9	24.7	31.1	31.1	15.8	25.0	30.2	29.8	15.8	25.3	29.2	28.4
		71	-	17.7	22.9	22.9	-	19.1	25.0	24.9	-	20.6	27.1	27.0	-	20.3	25.5	25.1	-	20.1	24.0	23.2
		68	-	14.7	19.9	19.9	-	15.6	21.5	21.4	-	16.5	23.0	22.9	-	15.7	20.9	20.5	-	14.9	18.8	18.0
105 °F	NET CAP. MBH		36.8	36.2	32.1	31.6	40.2	39.5	35.1	34.5	43.6	42.9	38.1	37.5	43.4	42.7	37.9	37.3	43.3	42.6	37.8	37.2
	TOTAL POWER INPUT kW		4.45	4.20	4.29	4.28	4.41	4.17	4.25	4.24	4.37	4.13	4.21	4.20	4.51	4.26	4.34	4.33	4.65	4.39	4.48	4.46
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	25.5	32.1	32.1	31.6	28.9	36.2	35.1	34.5	32.2	40.4	38.1	37.5	34.6	41.5	37.9	37.3	36.9	42.6	37.8	37.2
		83	22.5	29.1	32.1	31.6	25.3	32.7	35.1	34.5	28.1	36.3	38.1	37.5	29.9	38.5	37.9	37.3	31.7	40.7	37.8	37.2
		80	19.5	26.1	30.6	30.4	21.8	29.2	34.2	33.9	24.1	32.2	37.8	37.5	25.3	33.8	37.8	37.3	26.5	35.4	37.8	37.2
		77	16.5	23.1	27.7	27.4	18.3	25.6	30.7	30.4	20.0	28.1	33.7	33.4	20.6	29.2	33.1	32.7	21.3	30.2	32.6	32.0
		74	13.5	20.1	24.7	24.4	14.7	22.1	27.1	26.8	15.9	24.0	29.6	29.3	16.0	24.5	28.5	28.0	16.1	25.0	27.4	26.8
		71	-	17.1	21.7	21.4	-	18.5	23.6	23.3	-	19.9	25.5	25.2	-	19.9	23.8	23.4	-	19.8	22.2	21.6
		68	-	14.1	18.7	18.4	-	15.0	20.1	19.8	-	15.9	21.5	21.1	-	15.2	19.2	18.7	-	14.6	16.9	16.3
115 °F	NET CAP. MBH		35.4	33.7	29.9	29.5	38.7	36.8	32.7	32.2	42.1	40.0	35.5	35.0	41.8	39.7	35.2	34.8	41.4	39.4	35.0	34.5
	TOTAL POWER INPUT kW		4.80	4.64	4.73	4.72	4.78	4.62	4.71	4.70	4.75	4.59	4.68	4.67	4.88	4.71	4.80	4.80	5.00	4.83	4.93	4.92
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	24.8	31.0	29.9	29.5	28.2	34.9	32.7	32.2	31.6	38.7	35.5	35.0	34.0	39.1	36.2	34.8	36.3	39.4	35.0	34.5
		83	21.8	28.0	29.9	29.5	24.7	31.6	32.7	32.2	27.5	35.3	35.5	35.0	29.3	36.8	35.2	34.8	31.1	38.4	35.0	34.5
		80	18.8	25.0	28.4	28.1	21.1	28.1	31.9	31.6	23.5	31.2	35.4	35.0	24.7	32.8	35.2	34.8	25.9	34.4	35.0	34.5
		77	15.8	22.0	25.4	25.1	17.6	24.6	28.3	28.0	19.4	27.1	31.3	30.9	20.0	28.2	30.5	30.1	20.7	29.2	29.7	29.3
		74	12.8	19.0	22.4	22.1	14.1	21.0	24.8	24.5	15.3	23.0	27.2	26.9	15.4	23.5	25.9	25.5	15.5	24.0	24.5	24.1
		71	-	16.0	19.4	19.1	-	17.5	21.3	21.0	-	18.9	23.1	22.8	-	18.9	21.2	20.8	-	18.8	19.3	18.8
		68	-	13.1	16.4	16.1	-	14.0	17.7	17.4	-	14.9	19.0	18.7	-	14.2	16.6	16.2	-	13.6	14.1	13.6
125 °F	NET CAP. MBH		34.0	31.1	27.6	27.3	37.3	34.1	30.3	30.0	40.6	37.1	32.9	32.6	40.1	36.6	32.5	32.2	39.6	36.2	32.1	31.8
	TOTAL POWER INPUT kW		5.16	5.08	5.18	5.17	5.14	5.07	5.16	5.16	5.13	5.05	5.15	5.14	5.24	5.17	5.26	5.26	5.36	5.28	5.38	5.37
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	24.1	29.9	27.6	27.3	27.6	33.5	30.3	30.0	31.0	37.1	32.9	32.6	33.4	36.6	32.5	32.2	35.7	36.2	32.1	31.8
		83	21.1	26.9	27.6	27.3	24.0	30.6	30.3	30.0	26.9	34.3	32.9	32.6	28.7	35.2	32.5	32.2	30.5	36.2	32.1	31.8
		80	18.1	23.9	26.1	25.9	20.5	27.1	29.5	29.2	22.8	30.2	32.9	32.6	24.1	31.8	32.5	32.2	25.3	33.4	32.1	31.8
		77	15.1	21.0	23.1	22.9	17.0	23.5	26.0	25.7	18.8	26.1	28.8	28.5	19.4	27.2	27.9	27.5	20.1	28.2	26.9	26.6
		74	12.1	18.0	20.1	19.9	13.4	20.0	22.5	22.2	14.7	22.0	24.8	24.4	14.8	22.5	23.2	22.9	14.9	23.0	21.7	21.3
		71	-	15.0	17.2	16.9	-	16.4	18.9	18.6	-	17.9	20.7	20.3	-	17.9	18.6	18.2	-	17.8	16.5	16.1
		68	-	12.0	14.2	13.9	-	12.9	15.4	15.1	-	13.8	16.6	16.3	-	13.2	13.9	13.6	-	12.6	11.2	10.9
125 °F	NET CAP. MBH		32.7	28.6	25.4	25.2	35.9	31.4	27.9	27.7	39.1	34.2	30.4	30.2	38.4	33.6	29.8	29.6	37.7	33.0	29.2	29.1
	TOTAL POWER INPUT kW		5.50	5.50	5.60	5.60	5.50	5.50	5.60	5.60	5.50	5.50	5.60	5.60	5.60	5.60	5.70	5.70	5.70	5.70	5.80	5.80
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	23.4	28.9	25.4	25.2	26.9	32.2	27.9	27.7	30.4	35.5	30.4	30.2	32.8	34.2	29.8	29.6	35.2	33.0	29.2	29.1.
		83	20.4	25.9	25.4	25.2	23.4	29.6	27.9	27.7	26.3	33.3	30.4	30.2	28.1	33.6	29.8	29.6	29.9	33.9	29.2	29.1
		80	17.4	22.9	23.9	23.6	19.8	26.0	27.2	26.9	22.2	29.2	30.5	30.2	23.5	30.8	29.9	29.6	24.7	32.4	29.2	29.1
		77	14.4	19.9	20.9	20.6	16.3	22.5	23.7	23.3	18.2	25.1	26.4	26.1	18.8	26.2	25.2	25.0	19.5	27.2	24.0	23.8
		74	11.5	16.9	17.9	17.6	12.8	18.9	20.1	19.8	14.1	21.0	22.3	22.0	14.2	21.5	20.6	20.3	14.3	22.0	18.8	18.6
		71	-	13.9	14.9	14.6	-	15.4	16.6	16.3	-	16.9	18.3	17.9	-	16.9	15.9	15.7	-	16.8	13.6	13.4
		68	-	10.9	11.9	11.6	-	11.9	13.0	12.7	-	12.8	14.2	13.8	-	12.2	11.3	11.0	-	11.6	8.4	8.2

1. These capacities are net capacities (the indoor fan heat is deducted). ALL SENSIBLE CAPACITY

TABLE 8: DNH048 COOLING CAPACITIES - 4 TON

TEMPERATURE OF AIR ON CONDENSER COIL			AIR ON EVAPORATOR COIL																			
			1,200 CFM				1,400 CFM				1,600 CFM				1,800 CFM				2,000 CFM			
			WB °F				WB °F				WB °F				WB °F				WB °F			
			72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57
85 °F	NET CAP. MBH		50.8	47.4	43.1	42.8	52.8	49.3	44.8	44.5	54.8	51.2	46.5	46.2	55.5	51.9	47.1	46.8	56.2	52.5	47.7	47.4
	TOTAL POWER INPUT kW		4.01	3.98	4.02	3.98	4.06	4.03	4.07	4.03	4.11	4.08	4.12	4.08	4.24	4.20	4.25	4.20	4.36	4.33	4.37	4.33
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	30.9	38.8	43.1	42.8	34.6	43.3	44.8	44.5	38.2	47.7	46.5	46.2	41.0	50.1	47.1	46.8	43.8	52.5	47.7	47.4
		83	27.5	35.4	41.8	41.8	30.5	39.2	44.2	44.0	33.6	43.0	46.5	46.2	35.7	45.6	47.1	46.8	37.8	48.3	47.7	47.4
		80	24.1	32.0	38.4	38.4	26.5	35.2	42.3	42.2	28.9	38.4	46.1	46.1	30.4	40.3	46.9	46.7	31.8	42.3	47.7	47.4
		77	20.7	28.6	35.0	35.0	22.4	31.1	38.2	38.2	24.2	33.7	41.4	41.4	25.1	35.0	41.6	41.4	25.9	36.3	41.7	41.4
		74	17.2	25.1	31.6	31.6	18.4	27.1	34.2	34.2	19.6	29.0	36.8	36.8	19.7	29.7	36.3	36.1	19.9	30.4	35.8	35.5
		71	-	21.7	28.1	28.1	-	23.0	30.1	30.1	-	24.4	32.1	32.1	-	24.4	31.0	30.8	-	24.4	29.8	29.5
		68	-	18.3	24.7	24.7	-	19.0	26.1	26.1	-	19.7	27.4	27.4	-	19.1	25.6	25.5	-	18.4	23.9	23.6
95 °F	NET CAP. MBH		48.7	44.9	40.8	40.7	50.8	46.8	42.6	42.4	52.9	48.8	44.4	44.2	54.8	50.5	46.0	45.8	56.7	52.3	47.5	47.4
	TOTAL POWER INPUT kW		4.34	4.34	4.38	4.35	4.39	4.39	4.43	4.40	4.44	4.43	4.47	4.44	4.56	4.56	4.60	4.57	4.68	4.68	4.72	4.69
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	29.7	36.7	40.8	40.7	33.7	41.6	42.6	42.4	37.8	46.5	44.4	44.2	41.5	49.4	46.0	45.8	45.2	52.3	47.5	47.4
		83	26.2	33.3	38.8	38.9	29.7	37.6	41.6	41.6	33.1	41.9	44.4	44.2	36.2	45.7	46.0	45.8	39.2	49.5	47.5	47.4
		80	22.8	29.8	35.3	35.5	25.6	33.5	39.7	39.9	28.4	37.2	44.0	44.2	30.8	40.4	45.8	45.8	33.3	43.5	47.5	47.4
		77	19.4	26.4	31.9	32.1	21.6	29.5	35.6	35.8	23.8	32.5	39.4	39.6	25.5	35.1	40.5	40.5	27.3	37.6	41.6	41.4
		74	13.0	23.0	28.5	28.6	17.5	25.6	31.6	31.8	19.1	27.9	34.7	34.9	20.2	29.7	35.2	35.2	21.4	31.6	35.6	35.4
		71	-	19.6	25.1	25.2	-	21.4	27.6	27.7	-	23.2	30.0	30.2	-	24.4	29.8	29.8	-	25.7	29.6	29.5
		68	-	16.2	21.6	21.8	-	17.3	23.5	23.7	-	18.5	25.4	25.6	-	19.1	24.5	24.5	-	19.7	23.7	23.5
105 °F	NET CAP. MBH		47.9	43.1	39.9	39.9	48.9	44.0	40.8	40.7	49.9	44.9	41.6	41.5	51.4	46.3	42.8	42.8	52.8	47.6	44.1	44.0
	TOTAL POWER INPUT kW		4.78	4.78	4.81	4.78	4.83	4.83	4.86	4.83	4.88	4.88	4.91	4.88	5.01	5.01	5.04	5.01	5.14	5.14	5.17	5.14
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	31.8	39.0	39.9	39.9	34.3	41.4	40.8	40.7	36.9	43.8	41.6	41.5	40.3	45.7	42.8	42.8	43.8	47.6	44.1	44.0
		83	28.4	35.7	38.9	39.0	30.3	38.0	40.2	40.3	32.2	40.3	41.6	41.5	35.0	43.3	42.8	42.8	37.9	46.2	44.1	44.0
		80	24.9	32.3	37.2	37.3	26.2	34.0	39.2	39.4	27.5	35.7	41.2	41.5	29.7	38.5	42.6	42.7	31.9	41.4	44.1	44.0
		77	21.5	28.9	33.8	33.9	22.2	29.9	35.1	35.3	22.9	31.0	36.5	36.8	24.4	33.2	37.3	37.4	26.0	35.4	38.1	38.0
		74	18.1	25.4	30.3	30.4	18.1	25.9	31.1	31.3	18.2	26.3	31.9	32.1	19.1	27.9	32.0	32.1	20.0	29.4	32.1	32.1
		71	-	22.0	26.9	27.0	-	21.8	27.1	27.3	-	21.7	27.2	27.5	-	22.6	26.7	26.8	-	23.5	26.2	26.1
		68	-	18.6	23.5	23.6	-	17.8	23.0	23.2	-	17.0	22.5	22.8	-	17.3	21.4	21.5	-	17.5	20.2	20.2
115 °F	NET CAP. MBH		47.1	41.3	39.0	39.1	47.0	41.2	38.9	39.0	46.8	41.0	38.8	38.8	47.9	42.0	39.7	39.7	49.0	43.0	40.6	40.6
	TOTAL POWER INPUT kW		5.22	5.22	5.24	5.21	5.27	5.27	5.29	5.26	5.32	5.32	5.34	5.31	5.45	5.46	5.48	5.45	5.59	5.59	5.61	5.58
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	33.9	41.3	39.0	39.1	34.9	41.2	38.9	39.0	36.0	41.0	38.8	38.8	39.2	42.0	39.7	39.7	42.5	43.0	40.6	40.6
		83	30.5	38.1	39.0	39.1	30.9	38.5	38.9	39.0	31.3	38.8	38.8	38.8	33.9	40.9	39.7	39.7	36.5	43.0	40.6	40.6
		80	27.1	34.7	39.0	39.1	26.9	34.4	38.7	38.9	26.6	34.1	38.4	38.7	28.6	36.7	39.5	39.7	30.6	39.2	40.6	40.6
		77	23.7	31.3	35.6	35.7	22.8	30.4	34.7	34.9	22.0	29.5	33.7	34.1	23.3	31.4	34.2	34.4	24.6	33.2	34.6	34.7
		74	20.2	27.9	32.2	32.3	18.8	26.3	30.6	30.8	17.3	24.8	29.0	29.4	18.0	26.0	28.9	29.1	18.6	27.3	28.7	28.7
		71	-	24.5	28.8	28.8	-	22.3	26.6	26.8	-	20.1	24.4	24.7	-	20.7	23.5	23.7	-	21.3	22.7	22.8
		68	-	21.0	25.3	25.4	-	18.3	22.5	22.7	-	15.5	19.7	20.1	-	15.4	18.2	18.4	-	15.3	16.7	16.8
125 °F	NET CAP. MBH		46.4	39.6	38.2	38.3	45.1	38.4	37.1	37.2	43.7	37.1	36.0	36.1	44.5	37.7	36.5	36.7	45.2	38.3	37.1	37.3
	TOTAL POWER INPUT kW		5.70	5.70	5.70	5.60	5.70	5.70	5.70	5.70	5.80	5.80	5.80	5.70	5.90	5.90	5.90	5.90	6.00	6.10	6.10	6.00
	Sensible Capacity MBH[1]	Entering Dry Bulb °F 86	36.1	43.7	38.2	38.3	35.6	41.0	37.1	37.2	35.1	38.3	36.0	36.1	38.1	38.3	36.5	36.7	41.1	38.3	37.1	37.3
		83	32.6	40.6	39.2	39.2	31.5	38.9	37.6	37.7	30.4	37.3	36.0	36.1	32.8	38.5	36.5	36.7	35.2	39.7	37.1	37.3
		80	29.2	37.2	40.9	40.9	27.5	34.9	38.2	38.4	25.7	32.6	35.5	36.0	27.5	34.8	36.3	36.6	29.2	37.0	37.1	37.3
		77	25.8	33.7	37.5	37.5	23.4	30.8	34.2	34.4	21.1	26.0	30.9	31.3	22.2	29.0	31.0	31.3	23.3	31.1	31.2	31.3
		74	22.4	30.3	34.0	34.1	19.4	26.8	30.1	30.4	16.4	23.3	26.2	26.7	16.8	24.2	25.7	26.0	17.3	25.1	25.2	25.4
		71	-	26.9	30.6	30.6	-	22.8	26.1	26.3	-	18.6	21.5	22.0	-	18.9	20.4	20.7	-	19.1	19.2	19.4
		68	-	23.5	27.2	27.2	-	18.7	22.0	22.3	-	14.0	16.9	17.3	-	13.6	15.1	15.4	-	13.2	13.3	13.4

1. These capacities are net capacities (the indoor fan heat is deducted). ALL SENSIBLE CAPACITY

TABLE 9: DNH060 COOLING CAPACITIES - 5 TON

TEMPERATURE OF AIR ON CONDENSER COIL			AIR ON EVAPORATOR COIL																			
			1,700 CFM				1,800 CFM				1,900 CFM				2,000 CFM				2,100 CFM			
			WB °F				WB °F				WB °F				WB °F				WB °F			
			72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57
85 °F	NET CAP. MBH		66.8	63.1	58.2	57.0	68.2	64.4	59.4	58.2	69.5	65.6	60.6	59.3	69.3	65.4	60.3	59.1	69.0	65.1	60.1	58.9
	TOTAL POWER INPUT kW		5.06	4.96	5.02	4.83	5.13	5.03	5.10	4.90	5.21	5.11	5.17	4.97	5.33	5.24	5.30	5.09	5.46	5.36	5.43	5.22
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	42.8	53.5	58.2	57.0	44.6	55.8	59.4	58.2	46.5	58.1	60.6	59.3	47.8	59.5	60.3	59.1	49.1	61.0	60.1	58.9
		83	37.9	48.7	57.7	57.0	39.4	50.6	59.1	58.2	41.0	52.5	60.6	59.3	41.9	53.6	60.3	59.1	42.9	54.8	60.1	58.9
		80	33.1	43.8	52.8	54.2	34.3	45.4	54.7	56.1	35.4	47.0	56.6	58.1	36.0	47.7	57.5	58.5	36.6	48.5	58.5	58.9
		77	28.2	39.0	48.0	49.4	29.1	40.2	49.5	50.9	29.9	41.4	51.1	52.5	30.1	41.8	51.6	52.6	30.3	42.3	52.2	52.6
		74	23.4	34.1	43.1	44.5	23.9	35.0	44.3	45.7	24.4	35.9	45.5	47.0	24.2	35.9	45.7	46.7	24.1	36.0	45.9	46.4
		71	-	29.3	38.3	39.7	-	29.8	39.1	40.6	-	30.4	40.0	41.5	-	30.0	39.8	40.8	-	29.7	39.7	40.1
		68	-	24.5	33.4	34.8	-	24.6	33.9	35.4	-	24.8	34.4	35.9	-	24.1	33.9	34.9	-	23.5	33.4	33.8
95 °F	NET CAP. MBH		66.1	61.3	56.8	55.2	67.0	62.1	57.6	56.0	67.9	63.0	58.4	56.7	67.7	62.7	58.2	56.6	67.4	62.5	58.0	56.4
	TOTAL POWER INPUT kW		5.66	5.60	5.58	5.37	5.72	5.66	5.64	5.43	5.78	5.72	5.70	5.49	5.86	5.80	5.77	5.56	5.94	5.87	5.85	5.63
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	42.9	53.4	56.8	55.2	44.6	55.5	57.6	56.0	46.4	57.6	58.4	56.7	47.7	59.1	58.2	56.6	49.0	60.6	58.0	56.4
		83	38.1	48.6	55.3	55.2	39.5	50.3	56.9	56.0	40.8	52.0	58.4	56.7	41.8	53.2	58.2	56.6	42.8	54.3	58.0	56.4
		80	33.2	43.7	50.5	51.7	34.3	45.1	52.1	53.4	35.3	46.5	53.7	55.0	35.9	47.3	54.6	55.7	36.5	48.1	55.5	56.4
		77	28.4	38.9	45.6	46.9	29.1	39.9	46.9	48.2	29.8	40.9	48.1	49.5	30.0	41.4	48.7	49.8	30.2	41.8	49.2	50.1
		74	23.5	34.0	40.8	42.1	23.9	34.7	41.7	43.0	24.2	35.4	42.6	43.9	24.1	35.5	42.8	43.9	24.0	35.5	43.0	43.8
		71	-	29.2	35.9	37.2	-	29.5	36.5	37.8	-	29.9	37.1	38.4	-	29.6	36.9	38.0	-	29.3	36.7	37.6
		68	-	24.3	31.1	32.4	-	24.3	31.3	32.6	-	24.3	31.5	32.9	-	23.7	31.0	32.1	-	23.0	30.5	31.3
105 °F	NET CAP. MBH		62.5	57.1	53.0	51.7	63.5	58.0	53.8	52.6	64.5	58.9	54.6	53.4	64.2	58.6	54.3	53.1	63.8	58.2	54.0	52.8
	TOTAL POWER INPUT kW		6.29	6.17	6.12	6.02	6.36	6.24	6.19	6.09	6.43	6.31	6.26	6.16	6.55	6.43	6.38	6.27	6.68	6.55	6.50	6.39
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	41.8	51.8	53.0	51.7	43.6	54.0	53.8	52.6	45.5	56.2	54.6	53.4	47.1	56.7	54.3	56.1	48.7	57.3	54.0	52.8
		83	36.9	47.0	52.2	51.7	38.4	48.9	53.4	52.6	39.9	50.7	54.6	53.4	41.2	52.3	54.3	53.1	42.5	53.8	54.0	52.8
		80	32.1	42.2	48.5	48.2	33.2	43.7	50.2	49.9	34.4	45.2	52.0	51.6	35.3	46.4	52.4	52.2	36.2	47.6	52.8	52.8
		77	27.3	37.3	43.6	43.3	28.1	38.5	45.0	44.7	28.9	39.6	46.4	46.1	29.4	40.5	46.5	46.3	29.9	41.3	46.5	46.5
		74	22.4	32.5	38.8	38.5	22.9	33.3	39.8	39.5	23.3	34.1	40.9	40.5	23.5	34.6	40.6	40.4	23.7	35.0	40.3	40.3
		71	-	27.6	34.0	33.6	-	28.1	34.6	34.3	-	28.5	35.3	35.0	-	28.7	34.7	34.5	-	28.8	34.0	34.0
		68	-	22.8	29.1	28.8	-	22.9	29.5	29.1	-	23.0	29.8	29.4	-	22.8	28.8	28.6	-	22.5	27.8	27.8
115 °F	NET CAP. MBH		59.0	52.9	49.1	48.2	60.1	53.8	50.0	49.1	61.2	54.8	50.9	50.0	60.7	54.4	50.5	49.6	60.2	54.0	50.1	49.2
	TOTAL POWER INPUT kW		6.92	6.75	6.67	6.67	7.00	6.83	6.75	6.75	7.08	6.90	6.82	6.82	7.25	7.07	6.99	6.99	7.41	7.23	7.15	7.15
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	40.7	50.3	49.1	48.2	42.6	52.6	50.0	49.1	44.6	54.8	50.9	50.0	46.5	54.4	50.5	49.6	48.4	54.0	50.1	49.2
		83	35.8	45.4	49.1	48.2	37.4	37.4	50.0	49.1	39.0	49.4	50.9	50.0	40.6	51.3	50.5	49.6	42.2	53.3	50.1	49.2
		80	31.0	40.6	46.5	44.6	32.2	42.2	48.4	46.4	33.5	43.8	50.2	48.2	34.7	45.4	50.2	48.7	35.9	47.0	50.1	49.2
		77	26.1	35.7	41.7	39.8	27.0	37.0	43.2	41.2	27.9	38.3	44.7	42.6	28.8	39.5	44.3	42.8	29.7	40.8	43.8	43.0
		74	21.3	30.9	36.8	34.9	21.8	31.8	38.0	36.0	22.4	32.8	39.2	37.1	22.9	33.6	38.4	36.9	23.4	34.5	37.6	36.7
		71	-	26.0	32.0	30.1	-	26.6	32.8	30.8	-	27.2	33.6	31.6	-	27.7	32.5	31.0	-	28.3	31.3	30.5
		68	-	21.2	27.1	25.2	-	21.4	27.6	25.6	-	21.7	28.1	26.0	-	21.8	26.6	25.1	-	22.0	25.1	24.2
125 °F	NET CAP. MBH		55.5	48.7	45.2	44.7	56.7	49.7	46.2	45.7	57.9	50.8	47.2	46.7	57.3	50.2	46.7	46.2	56.7	49.7	46.2	45.7
	TOTAL POWER INPUT kW		7.50	7.30	7.20	7.30	7.60	7.40	7.30	7.40	7.70	7.50	7.40	7.50	7.90	7.70	7.60	7.70	8.20	7.90	7.80	7.90
	Sensible Capacity MBH[1] / Entering Dry Bulb °F	86	39.6	48.7	45.2	44.7	41.6	51.1	46.2	45.7	43.6	53.5	47.2	46.7	45.9	52.0	46.7	46.2	48.1	50.6	46.2	45.7
		83	34.7	43.9	46.0	44.7	36.4	46.0	46.6	45.7	38.1	48.1	47.2	46.7	40.0	50.4	46.7	46.2	41.9	52.8	46.2	45.7
		80	29.9	39.0	44.5	41.0	31.2	40.8	46.5	42.9	32.6	42.5	48.5	44.8	34.1	44.5	48.0	45.2	35.6	46.5	47.4	45.7
		77	25.0	34.2	39.7	36.2	26.0	35.6	41.3	37.7	27.0	37.0	43.0	39.2	28.2	38.6	42.1	39.3	29.4	40.3	41.1	39.4
		74	20.2	29.3	34.8	31.3	20.8	30.4	36.1	32.5	21.5	31.4	37.4	33.7	22.3	32.7	36.2	33.4	23.1	34.0	34.9	33.1
		71	-	24.5	30.0	26.5	-	25.2	30.9	27.3	-	25.9	31.9	28.2	-	26.8	30.3	27.5	-	27.7	28.6	26.9
		68	-	19.6	25.1	21.7	-	20.0	25.7	22.1	-	20.4	26.4	22.6	-	20.9	24.4	21.6	-	21.5	22.4	20.6

1. These capacities are net capacities (the indoor fan heat is deducted). ALL SENSIBLE CAPACITY

TABLE 10: SIDE SUPPLY AIR PERFORMANCE - 208 VOLT[1]

MODEL # DNH (Cooling/ Heating)	MTR SPD	EXTERNAL STAIC PRESSURE - IWG																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00		1.10	
		CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS
018	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	608	358	465	326	-	-
	MED	-	-	-	-	-	-	-	-	-	-	695	263	615	246	509	226	-	-	-	-	-	-
	LOW	743	243	700	235	657	226	614	218	549	207	483	195	-	-	-	-	-	-	-	-	-	-
024	HI	-	-	-	-	-	-	-	-	-	-	984	443	894	422	751	390	608	358	-	-	-	-
	MED	994	333	947	321	901	309	854	297	774	280	695	263	615	246	-	-	-	-	-	-	-	-
	LOW	743	243	700	235	657	226	614	218	-	-	-	-	-	-	-	-	-	-	-	-	-	-
030	HI	-	-	-	-	1238	504	1165	484	1075	463	984	443	894	422	751	390	-	-	-	-	-	-
	MED	994	333	947	321	901	309	854	297	774	280	-	-	-	-	-	-	-	-	-	-	-	-
	LOW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	HI	-	-	-	-	-	-	-	-	1465	712	1390	685	1315	657	1204	623	1093	588	982	554	-	-
	MED	1432	650	1381	628	1330	605	1279	583	1210	556	1140	529	1071	502	977	477	-	-	-	-	-	-
	LOW	1191	527	1149	510	1107	494	1065	477	1009	459	952	441	-	-	-	-	-	-	-	-	-	-
042	HI	-	-	1681	797	1610	768	1540	740	1465	712	1390	685	1315	657	1204	623	1093	588	-	-	-	-
	MED	1432	650	1381	628	1330	605	1279	583	1210	556	1140	529	-	-	-	-	-	-	-	-	-	-
	LOW	1191	527	1149	510	1107	494	1065	477	-	-	-	-	-	-	-	-	-	-	-	-	-	-
048	HI	1742	898	1695	869	1648	841	1601	811	1555	781	1501	747	1446	714	1317	667	-	-	-	-	-	-
	MED	1523	750	1498	730	1473	710	1447	692	1421	673	1371	647	1320	620	1211	580	-	-	-	-	-	-
	LOW	1343	620	1327	606	1310	593	1280	573	1250	553	-	-	-	-	-	-	-	-	-	-	-	-
060 (3 tube)	HEAT	1500	245	1500	297	1500	348	1500	400	1500	470	1500	540	1500	610	1500	680	1500	750	1500	820	1500	890
060 (4 & 5 tube)	HEAT	1700	390	1700	443	1700	497	1700	550	1700	620	1700	690	1700	760	1700	830	1700	900	-	-	-	-
060 (factory setting)	COOL	1800	460	1800	515	1800	570	1800	625	1800	690	1800	755	1800	820	1800	962	-	-	-	-	-	-
060 (field setting)	COOL	2000	640	2000	700	2000	760	2000	820	2000	928	-	-	-	-	-	-	-	-	-	-	-	-

1. Above data includes allowances for a dry evaporator coil, gas heat exchanger and no filters. For additional pressure drops, refer to Table 14 and 15.

TABLE 11: SIDE SUPPLY AIR BLOWER PERFORMANCE - 230, 460 & 575 VOLT[1]

MODEL # DNH (Cooling/ Heating)	MTR SPD	EXTERNAL STATIC PRESSURE - IWG																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00		1.10	
		CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS
018	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	688	454	568	436	-	-
	MED	-	-	-	-	-	-	-	-	-	-	-	-	706	280	588	257	470	234	-	-	-	-
	LOW	-	-	-	-	-	-	721	255	651	241	581	226	511	212	-	-	-	-	-	-	-	-
024	HI	-	-	-	-	-	-	-	-	-	-	-	-	929	491	809	473	688	454	-	-	-	-
	MED	-	-	-	-	999	353	944	338	865	319	785	299	706	280	-	-	-	-	-	-	-	-
	LOW	998	372	906	333	813	294	721	255	651	241	-	-	-	-	-	-	-	-	-	-	-	-
030	HI	-	-	-	-	-	-	1200	560	1110	537	1019	514	929	491	809	473	-	-	-	-	-	-
	MED	1110	383	1055	368	999	353	944	338	865	319	785	299	-	-	-	-	-	-	-	-	-	-
	LOW	998	372	906	333	813	294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	HI	-	-	-	-	-	-	-	-	-	-	1447	754	1360	722	1264	692	1169	663	1073	633	977	603
	MED	-	-	-	-	1483	682	1420	655	1341	625	1262	596	1183	566	1075	534	966	501	-	-	-	-
	LOW	1384	625	1336	605	1287	584	1239	564	1167	537	1094	509	1022	482	903	460	-	-	-	-	-	-
042	HI	-	-	-	-	1705	847	1622	818	1535	786	1447	754	1360	722	1364	692	1169	663	1073	633	-	-
	MED	1610	735	1547	708	1483	682	1420	655	1341	625	1262	596	1183	566	1075	534	-	-	-	-	-	-
	LOW	1384	625	1336	605	1287	584	1239	564	1167	537	1094	509	-	-	-	-	-	-	-	-	-	-
048	HI	1906	982	1857	960	1809	938	1758	913	1706	888	1648	861	1590	834	1445	783	1301	731	-	-	-	-
	MED	1734	848	1693	821	1651	794	1595	764	1539	734	1461	693	1382	653	1266	613	-	-	-	-	-	-
	LOW	1532	700	1508	683	1458	667	1444	643	1404	620	1348	593	1291	566	-	-	-	-	-	-	-	-
060 (only 575 volts)	HI	-	-	2444	1433	2380	1400	2313	1363	2245	1325	2169	1285	2092	1245	1902	1168	1711	1092	1521	1015	-	-
	MED	2281	1265	2227	1225	2172	1185	2099	1140	2025	1095	1922	1035	1819	975	1665	915	1512	855	-	-	-	-
	LOW	1914	1045	1885	1020	1855	995	1805	960	1754	925	1684	885	1613	945	-	-	-	-	-	-	-	-
060 (3 tube) (only 230 & 460 volts)	HEAT	1500	245	1500	297	1500	348	1500	400	1500	470	1500	540	1500	610	1500	680	1500	750	1500	820	1500	890
060 (4 & 5 tube) (only 230 & 460 volts)	HEAT	1700	390	1700	443	1700	497	1700	550	1700	620	1700	690	1700	760	1700	830	1700	900	1700	970	-	-
060 (factory setting) (only 230 & 460 volts)	COOL	1800	460	1800	515	1800	570	1800	625	1800	690	1800	755	1800	820	1800	962	1800	1105	-	-	-	-
060 (field setting) (only 230 & 460 volts)	COOL	2000	640	2000	700	2000	760	2000	820	2000	928	2000	1035	-	-	-	-	-	-	-	-	-	-

1. Above data includes allowances for a dry evaporator coil, gas heat exchanger and no filters. For additional pressure drops, refer to Tables 14 and 15.

TABLE 12: BOTTOM SUPPLY AIR BLOWER PERFORMANCE - 208 VOLT[1]

MODEL # DNH (Cooling/ Heating)	MTR SPD	EXTERNAL STATIC PRESSURE - IWG																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00		1.10	
		CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS
018	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	547	322	419	293	-	-
	MED	-	-	-	-	-	-	-	-	-	-	625	237	554	221	458	203	-	-	-	-	-	-
	LOW	669	219	630	211	591	204	553	196	494	186	435	176	-	-	-	-	-	-	-	-	-	-
024	HI	-	-	-	-	-	-	-	-	-	-	886	398	805	380	676	351	547	322	-	-	-	-
	MED	895	300	853	289	811	278	769	267	697	252	625	237	554	221	-	-	-	-	-	-	-	-
	LOW	669	219	630	211	591	204	553	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-
030	HI	-	-	-	-	1115	454	1049	436	967	417	886	398	805	380	676	351	-	-	-	-	-	-
	MED	895	300	853	289	811	278	769	267	697	252	-	-	-	-	-	-	-	-	-	-	-	-
	LOW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	HI	-	-	-	-	-	-	-	-	1458	688	1377	663	1295	639	1147	600	999	561	-	-	-	-
	MED	1482	628	1428	613	1374	599	1320	584	1242	556	1163	528	1085	500	961	474	-	-	-	-	-	-
	LOW	1239	510	1184	496	1130	481	1075	467	998	448	922	428	-	-	-	-	-	-	-	-	-	-
042	HI	-	-	1687	763	1614	737	1540	712	1458	688	1377	663	1295	639	1147	600	-	-	-	-	-	-
	MED	1482	628	1428	613	1374	599	1320	584	1242	556	1163	-528	1085	500	-	-	-	-	-	-	-	-
	LOW	1239	510	1184	496	1130	481	1075	467	-	-	-	-	-	-	-	-	-	-	-	-	-	-
048	HI	1655	771	1609	749	1563	727	1504	698	1444	670	1381	648	1319	626	-	-	-	-	-	-	-	-
	MED	1499	687	1474	670	1449	653	1400	630	1351	606	1297	583	1242	559	-	-	-	-	-	-	-	-
	LOW	1418	610	1388	593	1357	576	1327	561	1298	546	1241	523	-	-	-	-	-	-	-	-	-	-
060 (3 tube)	HEAT	1500	245	1500	297	1500	348	1500	400	1500	470	1500	540	1500	610	1500	680	1500	750	1500	820	1500	890
060 (4 & 5 tube)	HEAT	1700	390	1700	443	1700	497	1700	550	1700	620	1700	690	1700	760	1700	830	1700	900	-	-	-	-
060 (factory settings)	COOL	1800	460	1800	515	1800	570	1800	625	1800	690	1800	755	1800	820	1800	962	-	-	-	-	-	-
060 (field settings)	COOL	2000	640	2000	700	2000	760	2000	820	2000	928	-	-	-	-	-	-	-	-	-	-	-	-

1. Above data includes allowances for a dry evaporator coil, gas heat exchanger and no filters. For additional pressure drops, refer to Tables 14 and 15.

TABLE 13: BOTTOM SUPPLY AIR BLOWER PERFORMANCE - 230, 460 & 575 VOLTS[1]

MODEL # DNH (Cooling/ Heating)	MTR SPD	EXTERNAL STATIC PRESSURE - IWG																					
		.10		.20		.30		.40		.50		.60		.70		.80		.90		1.00		1.10	
		CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS
018	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	620	409	511	392	-	-
	MED	-	-	-	-	-	-	-	-	-	-	-	-	635	252	529	231	423	423	-	-	-	-
	LOW	-	-	-	-	-	-	649	230	586	217	523	204	460	191	-	-	-	-	-	-	-	-
024	HI	-	-	-	-	-	-	-	-	-	-	-	-	836	442	728	425	620	409	-	-	-	-
	MED	-	-	-	-	899	318	850	304	778	287	707	269	635	252	-	-	-	-	-	-	-	-
	LOW	898	335	815	300	732	265	649	230	586	217	-	-	-	-	-	-	-	-	-	-	-	-
030	HI	-	-	-	-	-	-	1080	504	999	483	917	463	836	442	728	425	-	-	-	-	-	-
	MED	999	345	949	331	899	318	850	304	778	287	707	269	-	-	-	-	-	-	-	-	-	-
	LOW	898	335	815	300	732	265	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	HI	-	-	-	-	-	-	-	-	-	-	1436	735	1345	705	1189	667	1032	628	-	-	-	-
	MED	-	-	-	-	1490	652	1422	625	1339	602	1257	578	1174	555	1049	526	953	497	-	-	-	-
	LOW	1387	582	1330	569	1274	555	1217	542	1148	520	1079	497	1010	475	-	-	-	-	-	-	-	-
042	HI	-	-	-	-	1695	821	1618	796	1527	766	1436	735	1345	705	1189	667	-	-	-	-	-	-
	MED	1625	707	1557	680	1490	652	1422	625	1339	602	1257	578	1174	555	-	-	-	-	-	-	-	-
	LOW	1387	582	1330	569	1274	555	1217	542	1148	520	1079	497	-	-	-	-	-	-	-	-	-	-
048	HI	1768	844	1720	824	1672	804	1613	779	1554	754	1484	727	1414	700	1290	663	-	-	-	-	-	-
	MED	1641	754	1594	730	1547	707	1495	683	1442	660	1379	633	1316	606	-	-	-	-	-	-	-	-
	LOW	1550	663	1513	645	1477	626	1428	608	1378	590	1324	564	1270	539	-	-	-	-	-	-	-	-
060 (only 575 volts)	HI	2326	1280	2283	1230	2200	1200	2123	1163	2045	1125	1953	1085	1860	1045	1698	990	1535	935	-	-	-	-
	MED	2159	1125	2098	1090	2036	1055	1967	1020	1897	985	1814	945	1731	905	1578	582	-	-	-	-	-	-
	LOW	1937	990	1892	983	1846	935	1785	908	1723	880	1655	843	1587	805	-	-	-	-	-	-	-	-
060 (3 tube) (only 230 & 460 volts)	HEAT	1500	245	1500	297	1500	348	1500	400	1500	470	1500	540	1500	610	1500	680	1500	750	1500	820	1500	890
060 (4 & 5 tube) (only 230 & 460 volts)	HEAT	1700	390	1700	443	1700	497	1700	550	1700	620	1700	690	1700	760	1700	830	1700	900	1700	970	-	-
060 (factory setting) (only 230 & 460 volts)	COOL	1800	460	1800	515	1800	570	1800	625	1800	690	1800	755	1800	820	1800	962	1800	1105	-	-	-	-
060 (field setting) (only 230 & 460 volts)	COOL	2000	640	2000	700	2000	760	2000	820	2000	928	2000	1035	-	-	-	-	-	-	-	-	-	-

1. Above data includes allowances for a dry evaporator coil, gas heat exchanger and no filters. For additional pressure drops, refer to Tables 14 and 15.

TABLE 14: ADDITIONAL STATIC PRESSURE RESISTANCE 1-1/2 - 3 TON (DNH018 - 036)[1]

DESCRIPTION	RESISTANCE, IWG											
	CFM											
	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600
WET EVAPORATOR COIL	.01	.01	.01	.02	.03	.04	.05	.06	.07	.08	.09	.09
ECONOMIZER[2]	.00	.00	.00	.01	.01	.01	.01	.02	.03	.04	.05	.06
FILTER FRAME KIT	.01	.02	.04	.06	.08	.10	.13	.16	.17	.18	.19	.20

1. Deduct these resistance values from the available external static pressure shown in Tables 10, 11, 12, and 13.
2. The pressure through the economizer is greater for 100% outdoor air then for 100% return air. If the resistance of the return air duct system is less then 0.25 IWG, the unit will deliver less CFM during full economizer operation.

TABLE 15: ADDITIONAL STATIC PRESSURE RESISTANCE 3-1/2 - 5 TON (DNH042 - 060)[1]

DESCRIPTION	RESISTANCE, IWG									
	CFM									
	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000
WET EVAPORATOR COIL	.02	.03	.04	.05	.06	.07	.07	.08	.09	.09
ECONOMIZER[2]	.02	.02	.02	.03	.03	.04	.04	.04	.05	.05
FILTER FRAME KIT	.04	.04	.05	.05	.06	.07	.08	.09	.10	.11

1. Deduct these resistance values from the available external static pressure shown in Table 10, 11, 12, and 13
2. The pressure through the economizer is greater for 100% outdoor air then for 100% return air. If the resistance of the return air duct system is less then 0.25 IWG, the unit will deliver less CFM during full economizer operation.

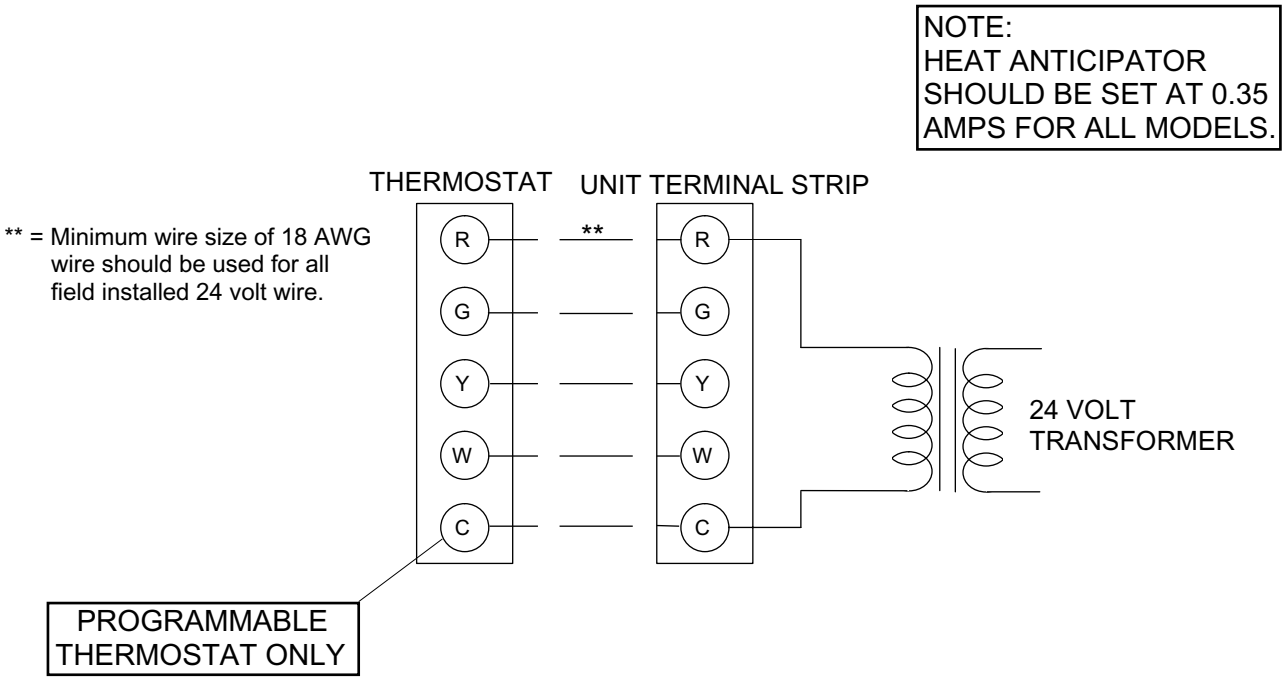

FIGURE 2 - FIELD WIRING DIAGRAM CONTROL WIRING

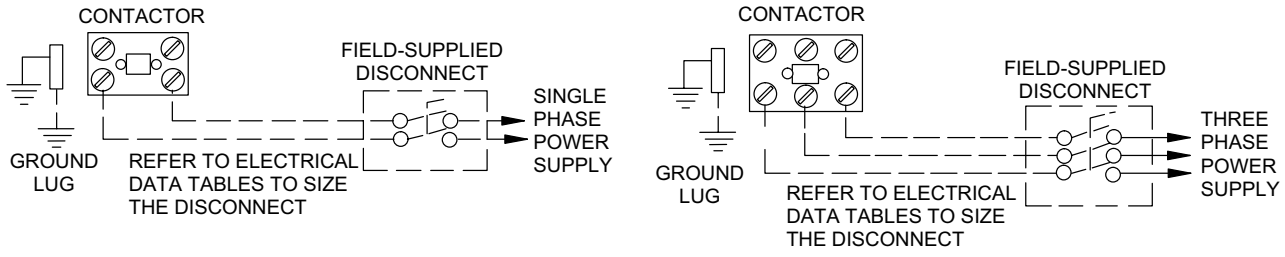

FIGURE 3 - POWER WIRING FIELD DIAGRAM

TABLE 16: ELECTRICAL DATA

MODEL DNH	POWER SUPPLY	VOLTAGE LIMITATIONS[1]		COMPRESSOR		COND. FAN MOTOR, FLA	SUPPLY AIR BLOWER MOTOR FLA	MINIMUM CIRCUIT AMPACITY	MAX. FUSE SIZE, AMPS[2]	MAX. HACR BREAKER SIZE, AMPS	UNIT POWER FACTOR	TRANSFORMER SIZE (VA)
		MIN.	MAX.	RLA	LRA							
018	208/230-1-60	187	253	7.1	48	1.1	2.6	12.5	15	15	.96	40
024	208/230-1-60	187	253	9.3	57	1.1	2.6	15.3	20	20	.96	40
030	208/230-1-60	187	253	13.6	67	1.1	2.6	20.7	30	30	.96	40
030	208/230-3-60	187	253	8.6	55	1.1	2.6	14.5	20	20	.96	75
030	460-3-60	414	504	4.3	27	0.6	1.4	7.4	15	15	.96	75
036	208/230-1-60	187	253	17.2	88	1.1	3.5	26.1	35	35	.96	40
036	208/230-3-60	187	253	11.4	77	1.1	3.5	18.9	25	25	.96	75
036	460-3-60	414	504	5.7	39	0.6	1.8	9.5	15	15	.96	75
036	575-3-60	518	630	4.7	31	0.4	1.5	7.8	15	15	.96	75
042	208/230-1-60	187	253	20.0	104	1.3	3.5	29.8	40	40	.96	40
042	208/230-3-60	187	253	13.9	88	1.3	3.5	22.2	30	30	.96	75
042	460-3-60	414	504	6.4	44	0.7	1.8	10.5	15	15	.96	75
042	575-3-60	518	630	5.4	34	0.5	1.5	8.8	15	15	.96	75
048	208/230-1-60	187	253	23.4	126	1.9	4.2	35.4	45	45	.96	40
048	208/230-3-60	187	253	13.0	93	1.9	4.2	22.4	30	30	.96	75
048	460-3-60	414	504	6.4	46.5	1.0	2.1	11.1	15	15	.96	75
048	575-3-60	518	630	5.1	37.2	0.8	1.7	8.9	15	15	.96	75
060	208/230-1-60	187	253	32.1	148	1.9	9.4	51.4	70	70	.96	40
060	208/230-3-60	187	253	19.3	123	1.9	9.4	35.4	45	45	.96	75
060	460-3-60	414	504	10.0	62	1.0	9.4	18.2	25	25	.96	75
060	575-3-60	518	630	7.9	50	0.8	2.8	13.5	20	20	.96	75

1. Utilization range “A” in accordance with ARI Standard 110.
2. Dual element, time delay type.

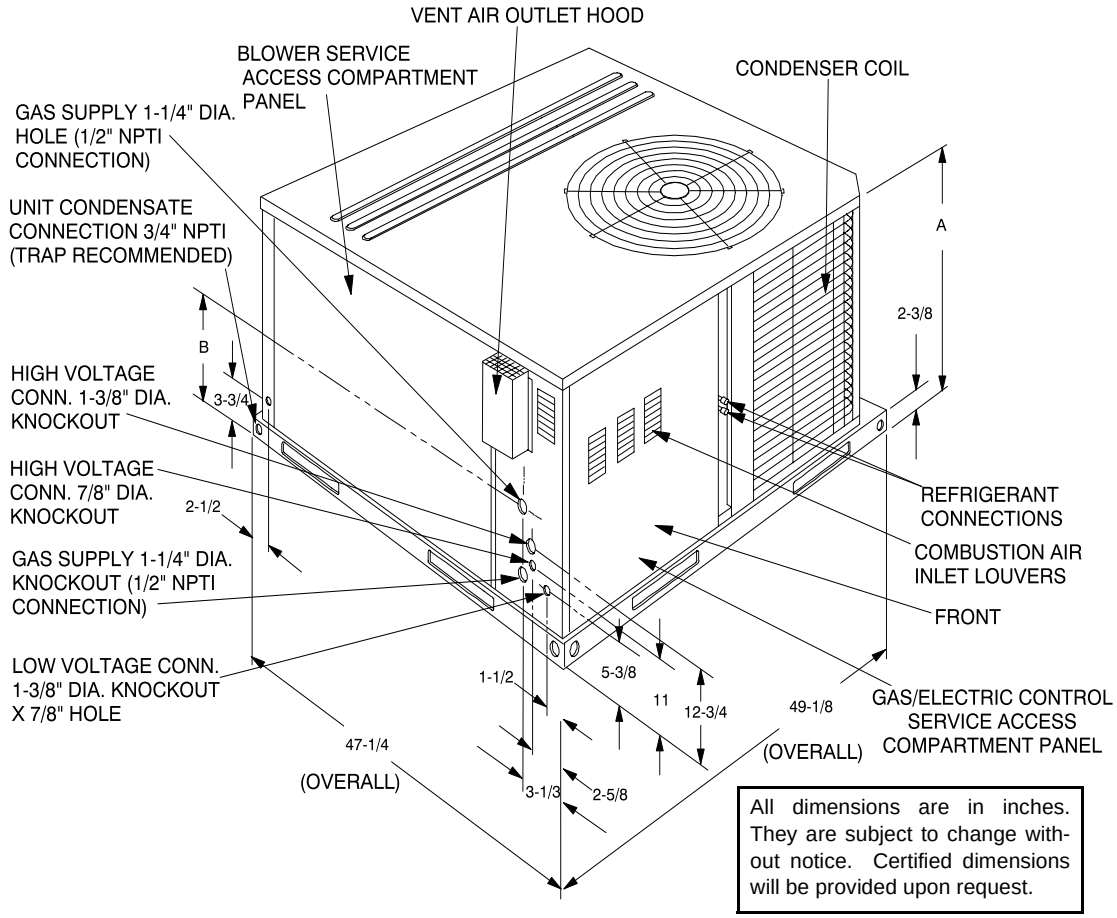

FIGURE 4 - UNIT DIMENSIONS - FRONT

TABLE 17: UNIT DIMENSIONS FRONT

UNIT SIZE	DIMENSION	
	"A"	"B"
018 - 036	33-1/2	18-1/4
042 - 060	41-1/2	23-1/8

TABLE 18: UNIT MINIMUM CLEARANCES[1] [2]

CLEARANCES	
FRONT	36"
REAR	0"
LEFT SIDE (Filter-Access)	24"
RIGHT SIDE	12"
BELOW UNIT[3]	0"
ABOVE UNIT [4]	36" (For Condenser Air Discharge

1. A 1" clearance must be provided between any combustible material and the supply air ductwork.
2. The products of combustion must not be allowed to accumulate within a confined space and recirculate.
3. Units may be installed on combustible floors made from wood or class A, B, or C roof covering material.
4. Units must be installed outdoors. Overhanging structures or shrubs should not obstruct condenser air discharge outlet.

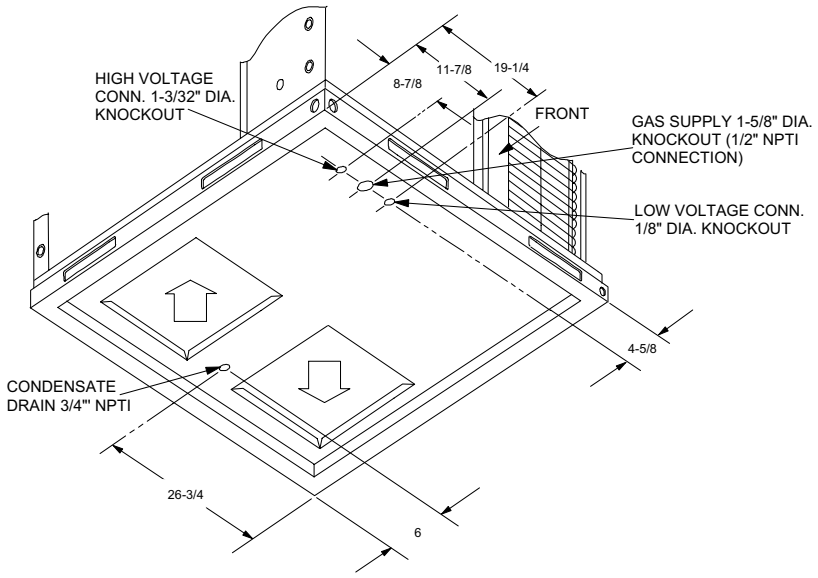

FIGURE 5 - UNIT DIMENSIONS - FRONT & BOTTOM

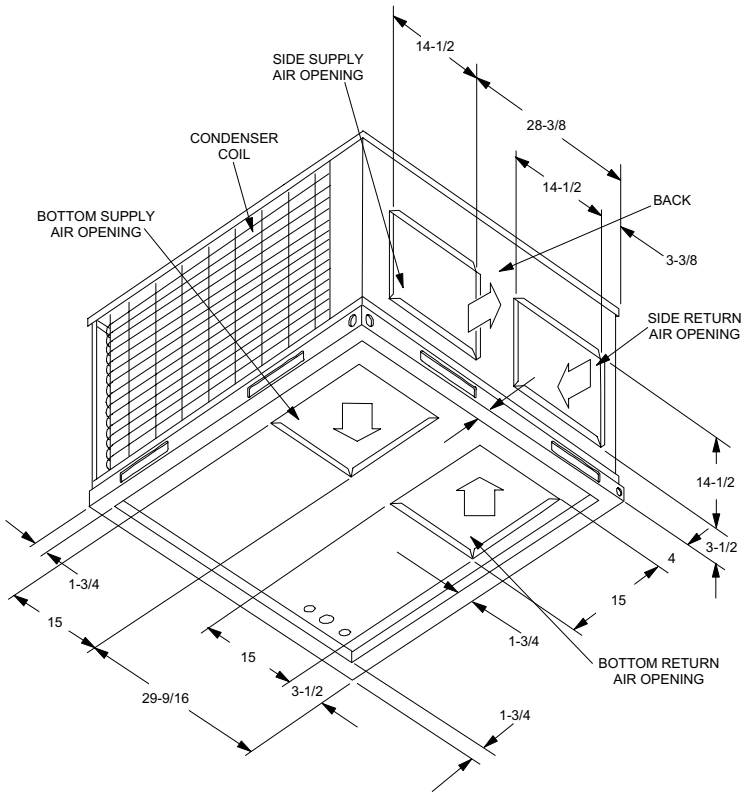

FIGURE 6 - UNIT DIMENSIONS - BACK & BOTTOM

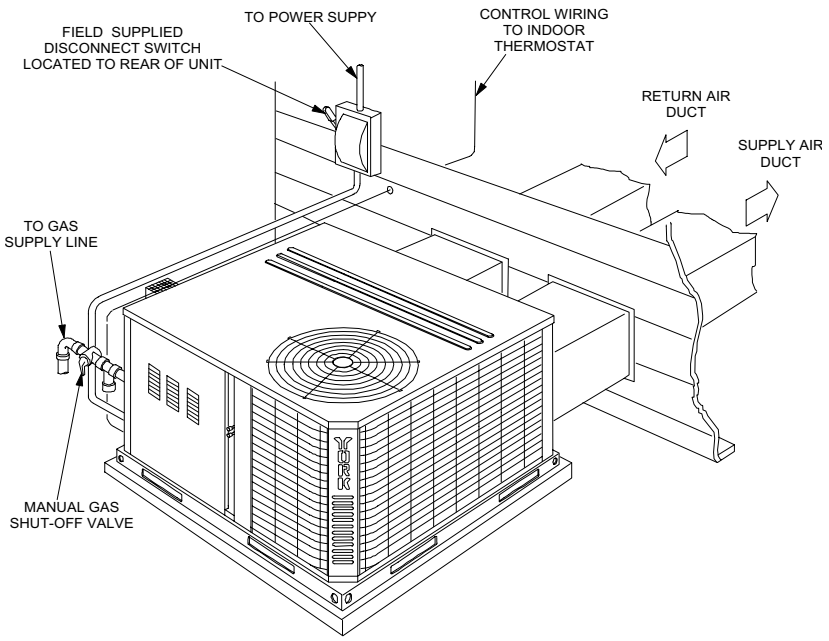

FIGURE 7 - TYPICAL SLAB ON GROUND INSTALLATION

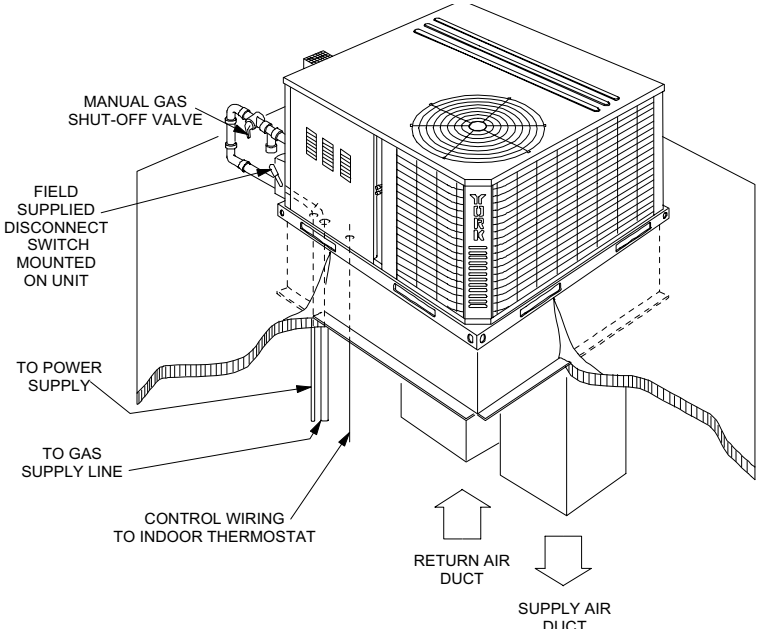

FIGURE 8 - TYPICAL ROOF CURB INSTALLATION

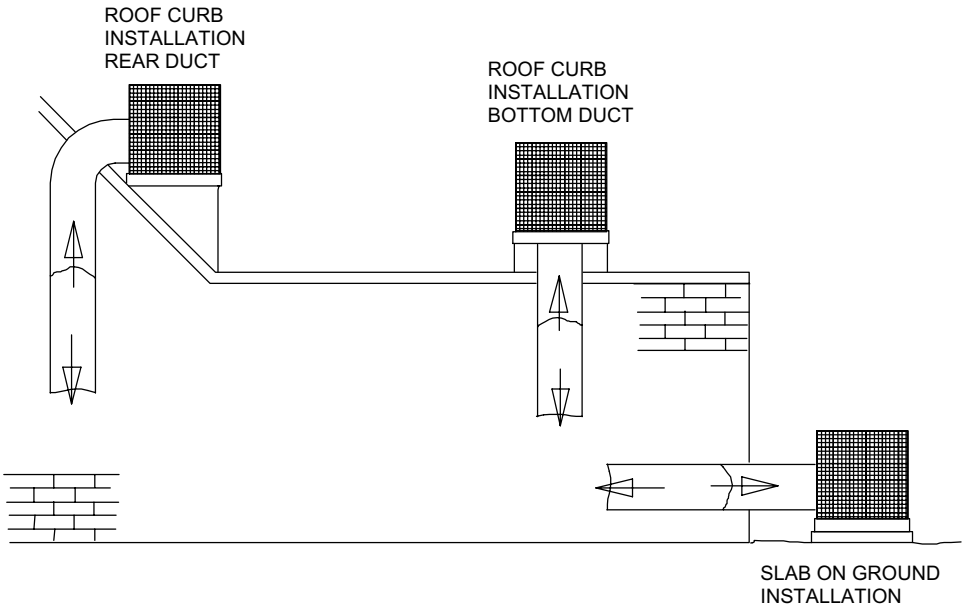

FIGURE 9 - TYPICAL DUCT APPLICATIONS

TABLE 19: UNIT WEIGHTS AND CENTER OF GRAVITY

UNIT SIZE	SHIPPING WEIGHT (lbs.)	OPERATING WEIGHT (lbs.)	CORNER WEIGHTS (location, lbs.)				ECONOMIZER (lbs.)	ROOF CURB (lbs.)
			"A"	"B"	"C"	"D"		
018	365	360	91	88	89	92	40	8" - 70 14" - 75
024	365	360	91	88	89	92		
030	395	390	98	95	96	99		
036	400	395	100	96	98	101		
042	470	465	131	129	101	103		
048	475	470	133	130	102	104		
060	485	480	136	133	105	107		

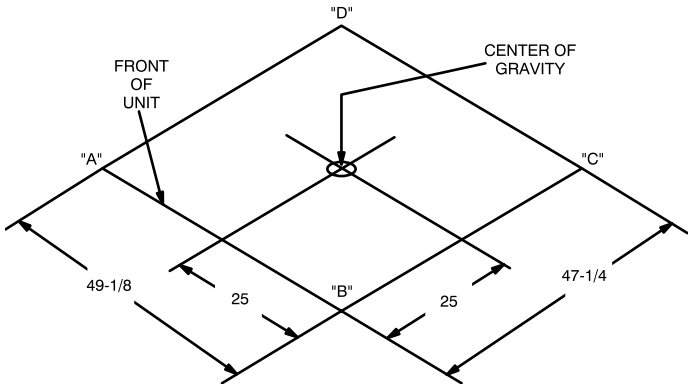

FIGURE 10 - UNIT CENTER OF GRAVITY

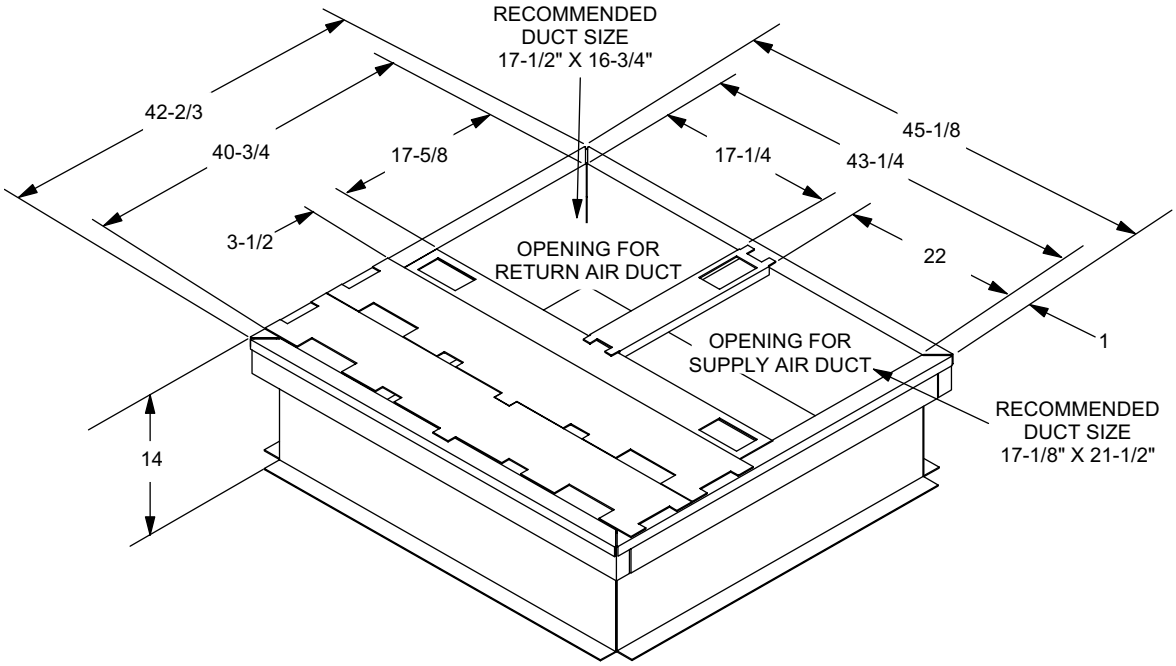

FIGURE 11 - ROOF CURB DIMENSIONS[1]

1. 8” Roof curb also available

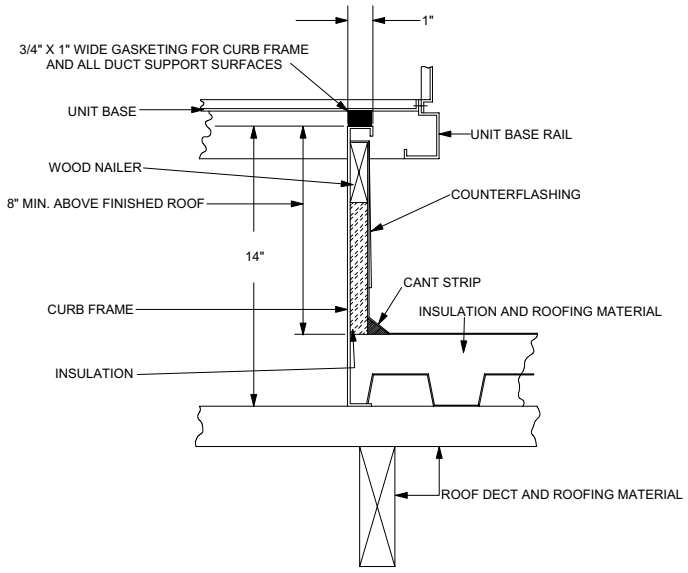

FIGURE 12 - ROOF CURB CROSS SECTION

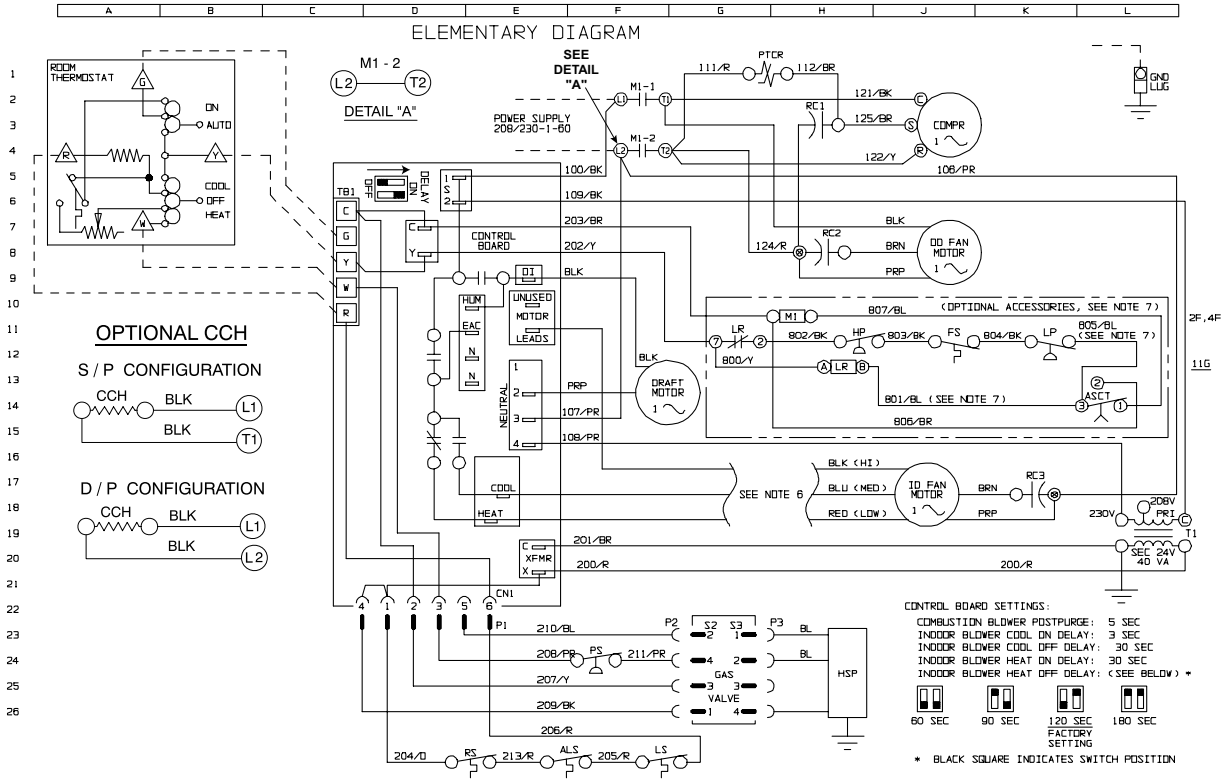

FIGURE 13 - TYPICAL WIRING DIAGRAM (208/230-1-60 POWER SUPPLY)

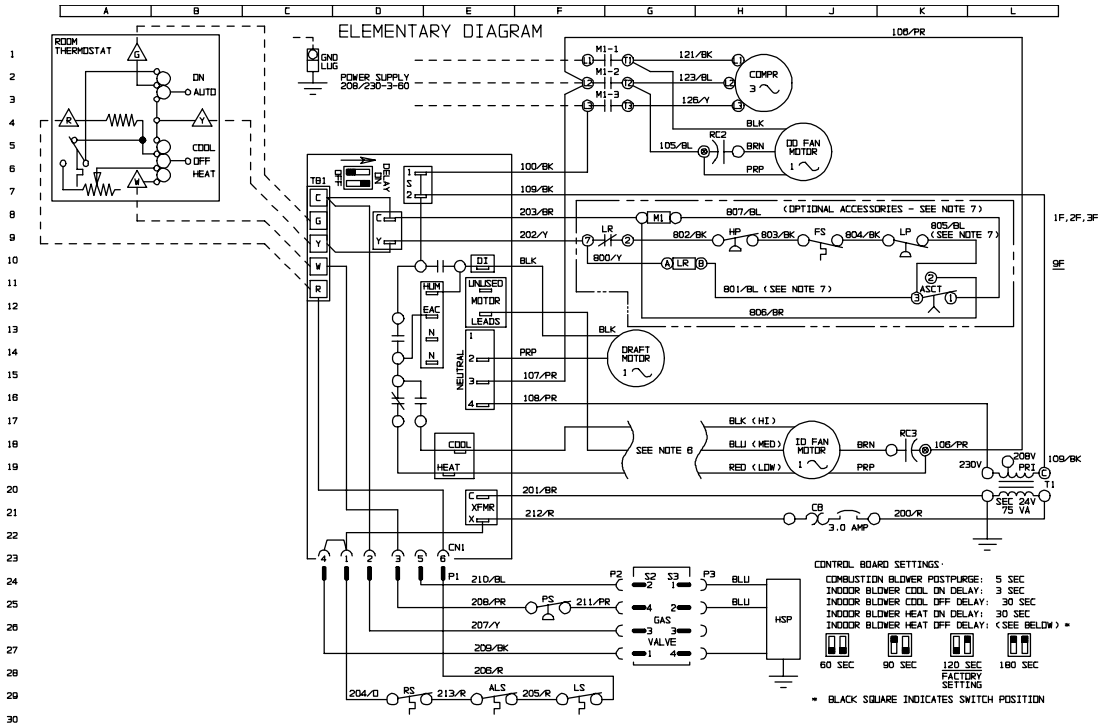

FIGURE 14 - TYPICAL WIRING DIAGRAM (208/230-3-60 POWER SUPPLY)

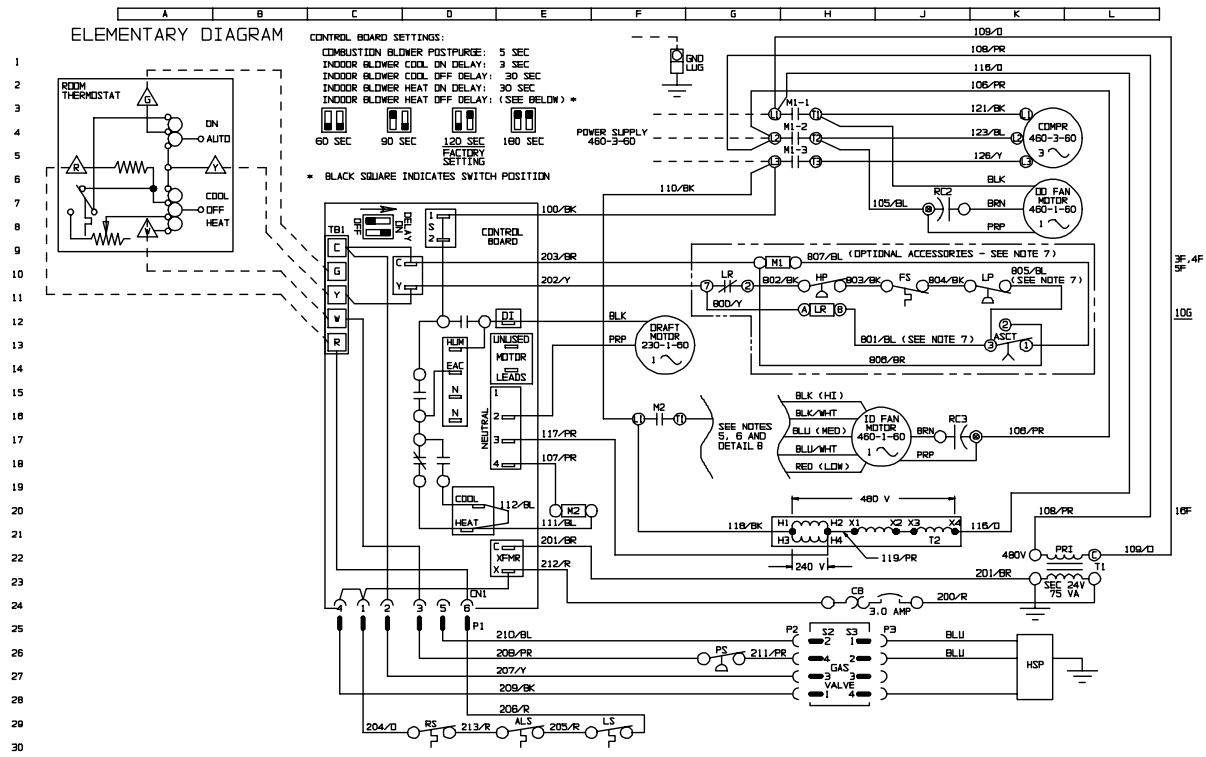

FIGURE 15 - TYPICAL WIRING DIAGRAM (460-3-60 POWER SUPPLY)

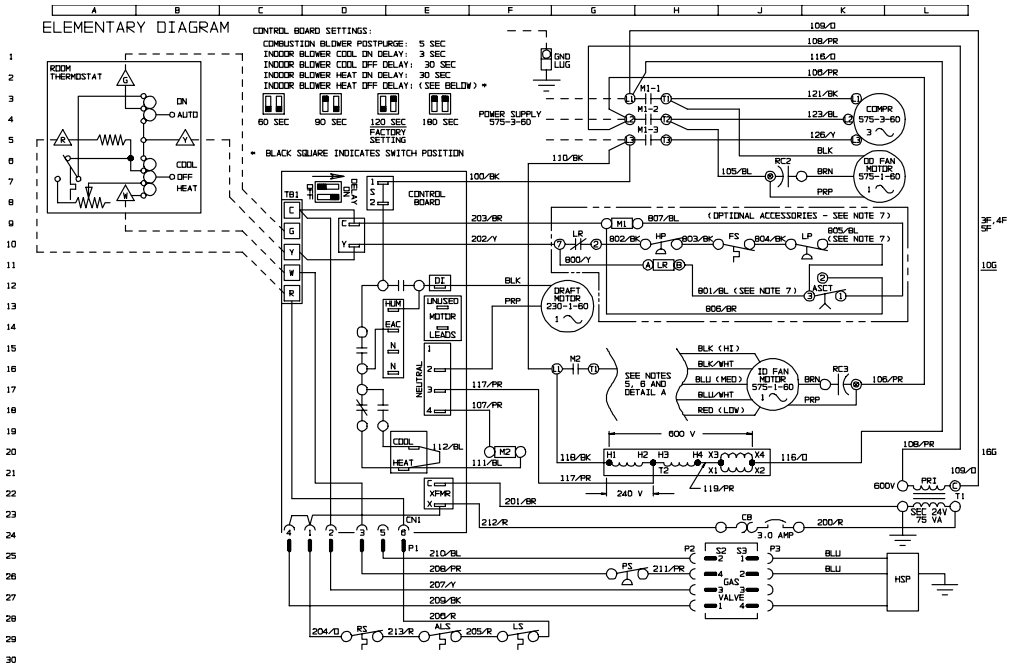

FIGURE 16 - TYPICAL WIRING DIAGRAM (575-3-60)

TYPICAL WIRING DIAGRAM NOTES

1. All field wiring to be accomplished following city, local and/or national codes in effect at time of installation of this unit.
2. Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation if any of the wire as supplied with this unit must be removed it must be replaced with type 105°C, 600V wire or equivalent clearly renumbered for identification. Verify proper operation after servicing.
3. Motors are inherently protected.
4. See unit nameplate for maximum fuse size and minimum circuit ampacity.
5. Unit factory wired for low or medium speed indoor blower operation to change motor speed connect speed tap wires from indoor blower motor per Detail B (Figure 18) tape unused speed tap wires to prevent shorting and secure near M2 contactor.
6. Select indoor blower speed to remain within the temperature rise range on the nameplate in heating and to obtain approximately 400 CFM/Ton in cooling.
7. If both LR and ASCT are present, wire 801/BL and 805/BL are connected to ASCT-3 if LR only is present wire 801/BL and 805/BL are connected to M1 coil. If ASCT only is present wire 202/Y is connected to ASCT-3. If neither LR or ASCT are present, Wire 202/Y is connect to M1 coil.
8. Shunt contact also used with crankcase heater. (Optional).

⚠ CAUTION

Open all disconnects before servicing this unit.

CCH	CRANKCASE HEATER (OPTIONAL)
M1	CONTACTOR, COMPRESSOR & OUTDOOR FAN
M2	CONTACTOR, INDOOR BLOWER MOTOR (230V COIL)
T2	TRANSFORMER, 240 VOLT, SECONDARY
T1	TRANSFORMER, 24 VOLT, SECONDARY
RC1/RC2	COMPRESSOR START & OUTDOOR FAN RUN CAPACITOR
RC1	COMPRESSOR START CAPACITOR (ALTERNATE)
RC2	OUTDOOR FAN RUN CAPACITOR (ALTERNATE)
RC3	INDOOR FAN RUN CAPACITOR
CB	CIRCUIT BREAKER, 3.0 AMP
COMPR	COMPRESSOR
HSP	HOT SURFACE TO PILOT
LS	LIMIT SWITCH
ALS	AUXILARY LIMIT SWITCH
PS	PRESSURE SWITCH - MAKES @ .193 IWC NOM (.33 IWC MAX)
RS	ROLLOUT SWITCH
HUM	HUMIDIFIER RELAY OUTPUT ON CONTROL BOARD, 208/230-1-60, 18VA MAX
EAC	ELECTRONIC AIR CLEANER RELAY OUTPUT ON CONTROL BOARD, 208/230-1-60, 18VA MAX
HP	HIGH PRESSURE SWITCH (OPTIONAL ACCESSORY)- OPEN @ 380 PSIG
FS	FREEZESTAT SWITCH (OPTIONAL ACCESSORY) OPEN @ 26°F
LP	LOW PRESSURE SWITCH (OPTIONAL ACCESSORY) OPEN @ 7 PSIG
LR	LOCK OUT RELAY (OPTIONAL ACCESSORY)
ASCT	ANTI-SHORT CYCLE TIMER (OPTIONAL ACCESSORY)
⊗	IDENTIFIED TERMINAL ON RUN CAPACITOR
△	ROOM THERMOSTAT 24V CONNECTIONS
□	TB1 ON CONTROL BOARD
————	FACTORY WIRING AND DEVICES
——--——	OPTIONAL WIRING AND DEVICES
--------	FIELD WIRING
CN1/P1	SOCKET/PLUG CONNECTION, 24V, 6 PIN ON CONTROL BOARD
S2/P2	SOCKET/PLUG CONNECTION, 24V, 4 PIN ON GAS VALVE
S3/P3	SOCKET/PLUG CONNECTION, 24V, 4 PIN ON GAS VALVE
S4/P4	SOCKET/PLUG CONNECTION, 230V, 2 PIN IN CONTROL BOX

FIGURE 17 - TYPICAL WIRING DIAGRAM LEGEND[1]

1. See Figures 13, 14, 15 and 16.

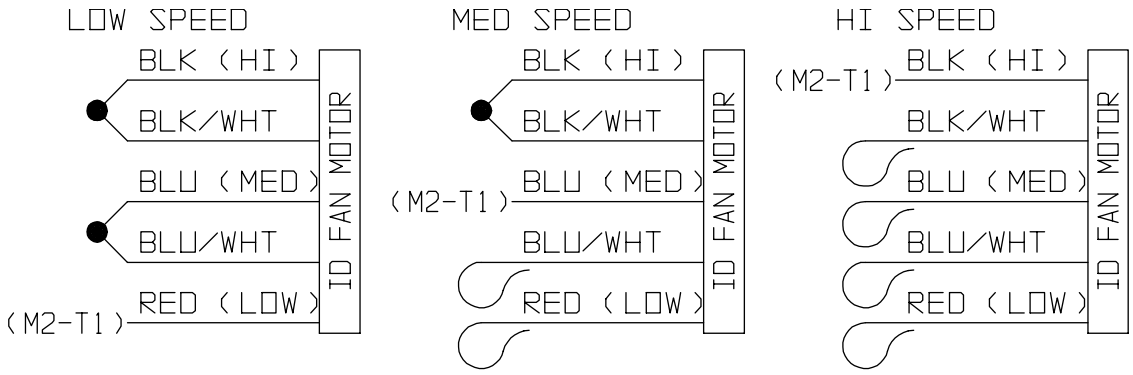

FIGURE 18 - WIRING DIAGRAM DETAIL B (460 & 575-3-60 POWER SUPPLY)[1]

1. See Figures 15 and 16.

MECHANICAL SPECIFICATIONS

GENERAL

Units shall be manufactured by York International Unitary Products Group in an ISO 9001 certified facility. YORK's Champion® package units are designed to handle applications ranging from residential to light commercial and any in between. The Champion® is a unit that gives you the flexibility and choices you need in today's market. These packaged cooling/heating air conditioners are designed for outdoor installation. Only utility and duct connections are required at the point of installation. The gas fired heaters have aluminized steel tubular heat exchangers and hot surface to pilot ignition. They are available in natural gas with field conversion to propane.

DESCRIPTION

Units shall be factory-assembled, single packaged, Electric Cooling/Gas Heating 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-22 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. The heating performance shall be rated to DOE and GAMA test procedures. Units shall be CSA listed and classified to ANSI22.47. CAN/CGA2.3 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 750 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, multi-speed design. Job site selected (BHP) brake horsepower shall not exceed the motors nameplate horsepower rating. 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:

a. 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 + or - 10% of the unit nameplate voltage.

b. Shall have internal isolation and sound muffling to minimize vibration and noise, and be externally isolated on a dedicated, independent mounting.

Coils:

a. Evaporator and condenser coils shall have aluminum plate fins mechanically bonded to seamless internally enhanced copper tubes with all joints brazed.

b. 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:

a. Shall include independent fixed-orifice expansion devices.

b. Shall include filter/strainer to eliminate any foreign matter.

UNIT OPERATING CHARACTERISTICS

Unit shall be capable of starting and running at 125º F outdoor temperature, exceeding maximum load criteria ARI Standard 210/240. The compressor, with standard controls, shall be capable of operation down to 45º F outdoor temperature. Accessory low ambient kit shall be available for operation to 0º F.

ELECTRICAL REQUIREMENTS

All unit power wiring shall enter unit cabinet at a single factory provided location and be capable of side or bottom entry, to minimize roof penetrations and avoid unit field modifications. Separate side and bottom openings shall be provided for the control wiring.

036-21233-002-A-0903
Supersedes: 036-21233-001-D-0603

Unitary Products Group

5005 York Drive

Norman OK 73069