



Heating and Air Conditioning

TECHNICAL GUIDE

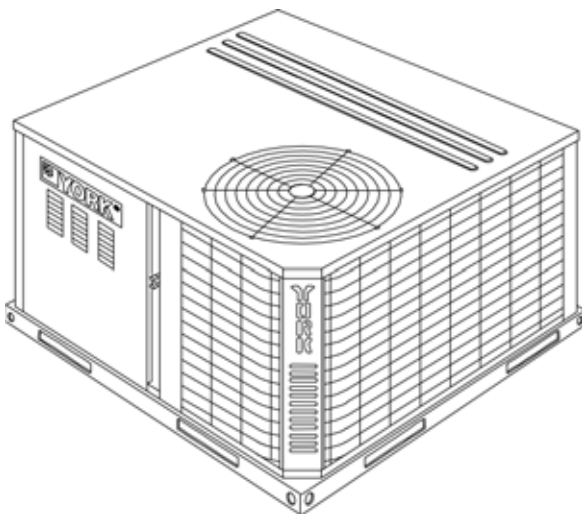
AFFINITY™ SERIES

SINGLE PACKAGE GAS/ELECTRIC

AIR COOLED AIR CONDITIONERS

2 THRU 5 NOMINAL TON

DNP024, 030, 036, 042, 048 AND 060
13 SEER



DESCRIPTION

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

The single or two stage gas-fired heaters have aluminized steel tubular heat exchangers and spark to pilot ignition. They are available in natural gas with field conversion to propane.

FEATURING

- **FACTORY MOUNTED TXV**
- COOLING/GAS HEATING UNITS (NATURAL GAS, SINGLE OR TWO STAGE)
- LOW PROFILE
- QUIET OPERATION
- COMMON FOOTPRINT
- OPTIONAL SLIDE IN MOTORIZED DAMPERS
- OPTIONAL SLIDE IN ECONOMIZERS
- OPTIONAL PROPANE CONVERSION KIT
- OPTIONAL HIGH ALTITUDE CONVERSION KIT (NATURAL GAS/PROPANE)
- OPTIONAL LOW 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
 - 20 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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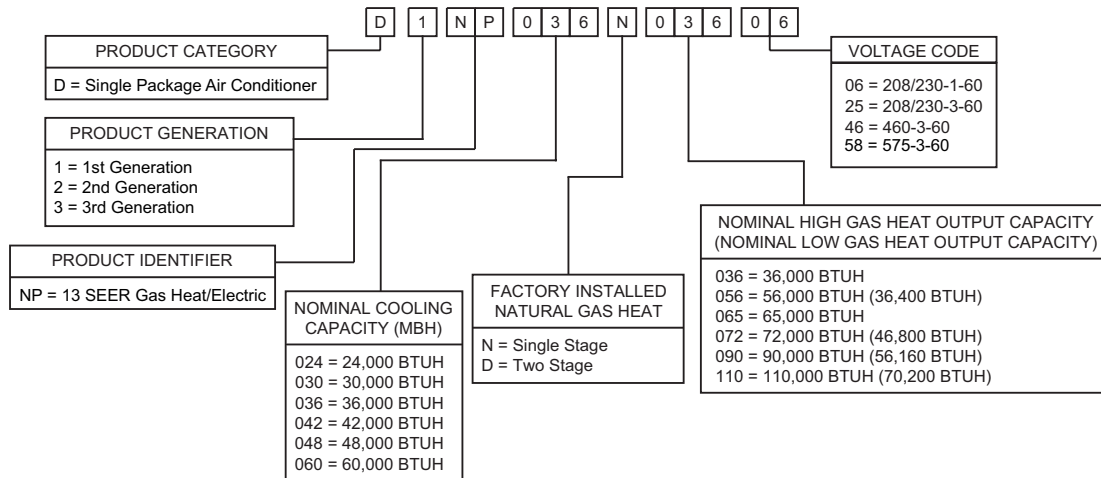


FIGURE 1 - PRODUCT NOMENCLATURE

STANDARD FEATURES/BENEFITS

OPERATING EFFICIENCY - All units provide high operating efficiencies and have a minimum AFUE of 80% and SEER of 13.0. 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, 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 a multi speed direct drive 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 to maintain mid point rise at the units heating input, 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.

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.

SPARK TO PILOT IGNITION - Provides faster heat delivery. This ignition is highly reliable, durable and eliminates nuisance lockouts.

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 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

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 installations 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.)

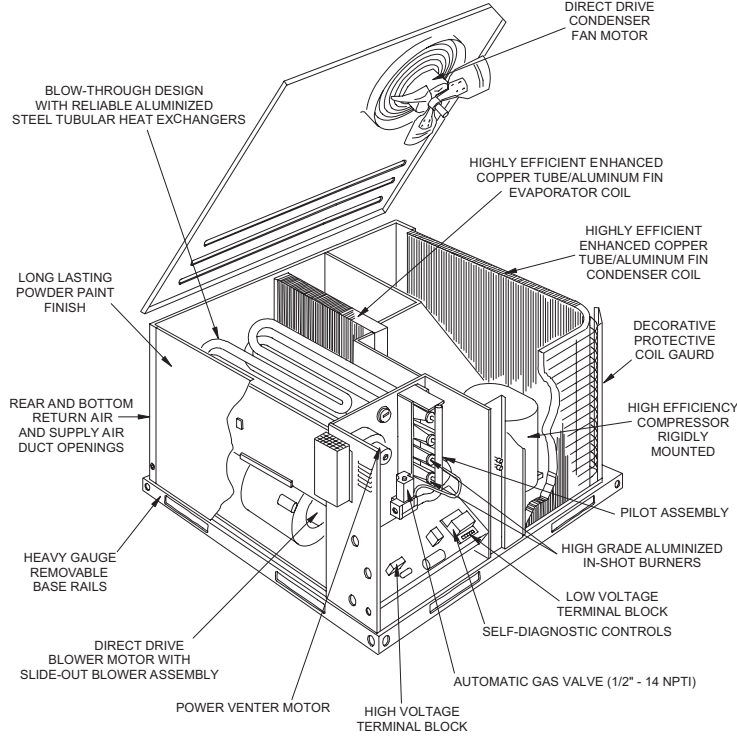


FIGURE 2 - UNIT COMPONENT LOCATION

TABLE 1: PHYSICAL DATA

MODEL		DNP						
		024	030 - 1Ø	030 - 3Ø	036	042	048	060
EVAPORATOR BLOWER	CENTRIFUGAL BLOWER (Dia. x W. in.)	10 x 8	10 x 8	10 x 8	11 x 10	12 x 11	12 x 11	12 x 11
	FAN MOTOR HP	1/2	3/4	3/4	3/4	1	1	1
EVAPORATOR COIL	ROWS DEEP	2	3	3	3	3	3	3
	FINS PER INCH	15	13	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	2,200	2,400	2,400	2,400	2,400	3,000	3,500
CONDENSER COIL	ROWS DEEP	2	1	1	2	2	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.)	6 / 4	5 / 4	4 / 9	6 / 12	9 / 6	8 / 4	8 / 8
FILTER	FACE AREA (Sq. Ft.) Size (Actual)	2.6 / 19 x 19.5	2.6 / 19 x 19.5	2.6 / 19 x 19.5	2.6 / 19 x 19.5	3.1 / 19.5 x 11.5 (2 Reqd.)	3.1 / 19.5 x 11.5 (2 Reqd.)	3.1 / 19.5 x 11.5 (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	1/2 NPTI	1/2 NPTI	1/2 NPTI	1/2 NPTI	1/2 NPTI
COMPRESSOR	HERMETIC TYPE, (Qty. = 1)	Recip	Rotary	Scroll	Scroll	Recip	Scroll	Scroll

TABLE 2: RATINGS COOLING/SINGLE STAGE GAS HEATING

MODEL DNP	NET COOLING CAPACITY ¹			SOUND RATING (dbels) ²	GAS HEAT CAPACITY / EFFICIENCIES				
	MBH	SEER ³	EER ⁴		INPUT (MBH)	OUTPUT (MBH)	AFUE ⁵ (%)	NUMBER OF BURNERS	TEMP. RISE (°F) RANGE
024N03606	23.7	13	11	81	45	36	80.0	2	25 - 55
024N05606	23.7	13	11	81	70	56	80.0	3	30 - 60
030N03606	28.4	13	11.1	80	45	36	80.0	2	25 - 55
030N03625	28.4	13	11.1	80	45	36	80.0	2	25 - 55
030N03646	28.4	13	11.1	80	45	36	80.0	2	25 - 55
030N05606	28.4	13	11.1	80	70	56	80.0	3	30 - 60
030N05625	28.4	13	11.1	80	70	56	80.0	3	30 - 60
030N05646	28.4	13	11.1	80	70	56	80.0	3	30 - 60
036N03606	37.4	13.65	11.75	81	45	36	80.0	2	25 - 55
036N03625	37.4	13.65	11.75	81	45	36	80.0	2	25 - 55
036N03646	37.4	13.65	11.75	81	45	36	80.0	2	25 - 55
036N03658	37.4	13.65	11.75	81	45	36	80.0	2	25 - 55
036N05606	37.4	13.65	11.75	81	70	56	80.0	3	25 - 55
036N05625	37.4	13.65	11.75	81	70	56	80.0	3	25 - 55
036N05646	37.4	13.65	11.75	81	70	56	80.0	3	25 - 55
036N05658	37.4	13.65	11.75	81	70	56	80.0	3	25 - 55
036N07206	37.4	13.65	11.75	81	90	72	80.0	4	30 - 60
036N07225	37.4	13.65	11.75	81	90	72	80.0	4	30 - 60
036N07246	37.4	13.65	11.75	81	90	72	80.0	4	30 - 60
036N07258	37.4	13.65	11.75	81	90	72	80.0	4	30 - 60
042N06506	42	13	11.1	85	80	64	80.0	3	25 - 55
042N06525	42	13	11.1	85	80	64	80.0	3	25 - 55
042N06546	42	13	11.1	85	80	64	80.0	3	25 - 55
042N06558	42	13	11.1	85	80	64	80.0	3	25 - 55
042N09006	42	13	11.1	85	108	86	80.0	4	45 - 75
042N09025	42	13	11.1	85	108	86	80.0	4	45 - 75
042N09046	42	13	11.1	85	108	86	80.0	4	45 - 75
042N09058	42	13	11.1	85	108	86	80.0	4	45 - 75
048N06506	48	13.2	11.7	84	80	64	80.0	3	25 - 55
048N06525	48	13.2	11.7	84	80	64	80.0	3	25 - 55
048N06546	48	13.2	11.7	84	80	64	80.0	3	25 - 55
048N06558	48	13.2	11.7	84	80	64	80.0	3	25 - 55
048N09006	48	13.2	11.7	84	108	86	80.0	4	35 - 65
048N09025	48	13.2	11.7	84	108	86	80.0	4	35 - 65
048N09046	48	13.2	11.7	84	108	86	80.0	4	35 - 65
048N09058	48	13.2	11.7	84	108	86	80.0	4	35 - 65
048N11006	48	13.2	11.7	84	135	107	80.0	5	45 - 75
048N11025	48	13.2	11.7	84	135	107	80.0	5	45 - 75
048N11046	48	13.2	11.7	84	135	107	80.0	5	45 - 75
048N11058	48	13.2	11.7	84	135	107	80.0	5	45 - 75
060N06506	55.5	13	11.2	84	80	64	80.0	3	25 - 55
060N06525	55.5	13	11.2	84	80	64	80.0	3	25 - 55
060N06546	55.5	13	11.2	84	80	64	80.0	3	25 - 55
060N06558	55.5	13	11.2	84	80	64	80.0	3	25 - 55
060N09006	55.5	13	11.2	84	108	86	80.0	4	35 - 65
060N09025	55.5	13	11.2	84	108	86	80.0	4	35 - 65
060N09046	55.5	13	11.2	84	108	86	80.0	4	35 - 65
060N09058	55.5	13	11.2	84	108	86	80.0	4	35 - 65
060N11006	55.5	13	11.2	84	135	107	80.0	5	45 - 75
060N11025	55.5	13	11.2	84	135	107	80.0	5	45 - 75
060N11046	55.5	13	11.2	84	135	107	80.0	5	45 - 75
060N11058	55.5	13	11.2	84	135	107	80.0	5	45 - 75

1. Net Cooling Capacity = ARI 210 standard rating conditions.
2. (dbels) = ARI 270-95
3. Seasonal Energy Efficiency Ratio - 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. Tested in accordance with ARI 210 Standard Rating Conditions.
5. AFUE = Annual Fuel Utilization Efficiency.

TABLE 3: RATINGS COOLING/TWO STAGE GAS HEATING

MODEL DNP	NET COOLING CAPACITY ¹			SOUND RATING (dbels) ²	GAS HEAT CAPACITY / EFFICIENCIES				
	MBH	SEER ³	EER ⁴		INPUT (MBH) Full Fire/Low Fire	OUTPUT (MBH) Full Fire/Low Fire	AFUE ⁵ (%)	NUMBER OF BURNERS	TEMP. RISE (°F) RANGE
024D05606	23.7	13	11	81	70/46	56/36	80.0	3	30 - 60
030D05606	28.4	13	11.1	80	70/46	56/36	80.0	3	30 - 60
030D05625	28.4	13	11.1	80	70/46	56/36	80.0	3	30 - 60
030D05646	28.4	13	11.1	80	70/46	56/36	80.0	3	30 - 60
036D05606	37.4	13.65	11.75	81	70/46	56/36	80.0	3	25 - 55
036D05625	37.4	13.65	11.75	81	70/46	56/36	80.0	3	25 - 55
036D05646	37.4	13.65	11.75	81	70/46	56/36	80.0	3	25 - 55
036D05658	37.4	13.65	11.75	81	70/46	56/36	80.0	3	25 - 55
036D07206	37.4	13.65	11.75	81	90/59	72/47	80.0	4	30 - 60
036D07225	37.4	13.65	11.75	81	90/59	72/47	80.0	4	30 - 60
036D07246	37.4	13.65	11.75	81	90/59	72/47	80.0	4	30 - 60
036D07258	37.4	13.65	11.75	81	90/59	72/47	80.0	4	30 - 60
042D09006	42	13	11.1	85	108/70	86/56	80.0	4	45 - 75
042D09025	42	13	11.1	85	108/70	86/56	80.0	4	45 - 75
042D09046	42	13	11.1	85	108/70	86/56	80.0	4	45 - 75
042D09058	42	13	11.1	85	108/70	86/56	80.0	4	45 - 75
048D09006	48	13.2	11.7	84	108/70	86/56	80.0	4	35 - 65
048D09025	48	13.2	11.7	84	108/70	86/56	80.0	4	35 - 65
048D09046	48	13.2	11.7	84	108/70	86/56	80.0	4	35 - 65
048D09058	48	13.2	11.7	84	108/70	86/56	80.0	4	35 - 65
048D11006	48	13.2	11.7	84	135/88	107/70	80.0	5	45 - 75
048D11025	48	13.2	11.7	84	135/88	107/70	80.0	5	45 - 75
048D11046	48	13.2	11.7	84	135/88	107/70	80.0	5	45 - 75
048D11058	48	13.2	11.7	84	135/88	107/70	80.0	5	45 - 75
060D09006	55.5	13	11.2	84	108/70	86/56	80.0	4	35 - 65
060D09025	55.5	13	11.2	84	108/70	86/56	80.0	4	35 - 65
060D09046	55.5	13	11.2	84	108/70	86/56	80.0	4	35 - 65
060D09058	55.5	13	11.2	84	108/70	86/56	80.0	4	35 - 65
060D11006	55.5	13	11.2	84	135/88	107/70	80.0	5	45 - 75
060D11025	55.5	13	11.2	84	135/88	107/70	80.0	5	45 - 75
060D11046	55.5	13	11.2	84	135/88	107/70	80.0	5	45 - 75
060D11058	55.5	13	11.2	84	135/88	107/70	80.0	5	45 - 75

1. Net Cooling Capacity = ARI 210 standard rating conditions.
2. (dbels) = ARI 270-95
3. Seasonal Energy Efficiency Ratio - 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. Tested in accordance with ARI 210 Standard Rating Conditions.
5. AFUE = Annual Fuel Utilization Efficiency.

TABLE 4: DNP024 COOLING CAPACITIES - 2 TON

Air on Evaporator Coil		Temperature of Air on Condenser Coil																
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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	30.5	1.8	13.7	10.8	8.0	-	-	-	28.8	1.9	14.0	11.1	8.3	-	-	-	
	72	28.3	1.8	17.7	14.9	12.0	9.2	-	-	26.5	1.9	17.7	14.9	12.0	9.2	-	-	
	67	26.0	1.8	21.7	18.9	16.0	13.2	10.3	-	24.3	1.9	21.5	18.6	15.8	12.9	10.1	-	
	62	24.0	1.8	24.0	22.9	19.1	16.3	13.4	10.6	22.4	1.9	22.4	21.9	19.0	16.2	13.3	10.5	
	57	23.3	1.8	23.3	23.3	20.4	17.6	14.7	11.9	22.1	1.9	22.1	22.1	19.8	16.9	14.1	11.2	
700	77	32.6	1.8	15.4	12.5	9.1	-	-	-	30.7	2.0	16.0	12.6	9.3	-	-	-	
	72	30.2	1.8	20.4	17.1	13.7	10.3	-	-	28.3	2.0	20.2	16.8	13.5	10.1	-	-	
	67	27.8	1.8	25.5	21.6	18.3	14.9	11.5	-	25.9	2.0	24.4	21.0	17.6	14.3	10.9	-	
	62	25.6	1.8	25.6	25.0	21.8	18.5	15.1	11.7	23.9	2.0	23.9	23.6	21.3	17.9	14.5	11.2	
	57	24.9	1.8	24.9	24.9	23.3	19.9	16.6	13.2	23.5	2.0	23.5	23.5	22.1	18.8	15.4	12.0	
800	77	34.7	1.9	17.1	14.2	10.3	-	-	-	32.6	2.0	18.0	14.2	10.3	-	-	-	
	72	32.1	1.9	23.2	19.3	15.4	11.5	-	-	30.0	2.0	22.7	18.8	14.9	11.0	-	-	
	67	29.6	1.9	29.2	24.4	20.5	16.6	12.7	-	27.5	2.0	27.3	23.4	19.5	15.6	11.8	-	
	62	27.2	1.9	27.2	27.2	24.5	20.6	16.7	12.9	25.4	2.0	25.4	25.4	23.5	19.7	15.8	11.9	
	57	26.5	1.9	26.5	26.5	26.2	22.3	18.4	14.5	25.0	2.0	25.0	25.0	24.5	20.6	16.7	12.8	
900	72	32.2	1.9	25.1	20.7	16.2	11.8	-	-	30.2	2.0	24.6	20.2	15.7	11.3	-	-	
	67	29.7	1.9	29.5	26.1	21.6	17.2	12.8	-	27.6	2.1	27.5	25.0	20.6	16.2	11.8	-	
	62	27.3	1.9	27.3	27.3	26.0	21.5	17.1	12.7	25.5	2.0	25.5	25.5	24.6	20.2	15.7	11.3	
	57	26.6	1.9	26.6	26.6	26.4	22.0	17.5	13.1	25.2	2.0	25.2	25.2	24.9	20.5	16.0	11.6	
	72	32.3	1.9	27.0	22.0	17.1	12.1	-	-	30.4	2.1	26.5	21.5	16.6	11.6	-	-	
1000	67	29.8	1.9	29.8	27.7	22.8	17.8	12.8	-	27.8	2.1	27.8	26.7	21.7	16.7	11.8	-	
	62	27.4	1.9	27.4	27.4	24.4	22.4	17.5	12.5	25.7	2.1	25.7	25.7	25.7	20.7	15.7	10.8	
	57	26.6	1.9	26.6	26.6	26.6	21.7	16.7	11.7	25.3	2.1	25.3	25.3	25.3	20.3	15.4	10.4	
			95°F								105°F							
	600	77	27.0	2.1	14.3	11.4	8.6	-	-	-	25.2	2.3	13.4	10.6	7.7	-	-	-
72		24.7	2.1	17.7	14.9	12.0	9.2	-	-	23.1	2.2	17.1	14.2	11.4	8.5	-	-	
67		22.5	2.1	21.2	18.4	15.5	12.7	9.8	-	20.9	2.2	20.3	17.9	15.0	12.2	9.3	-	
62		20.9	2.0	20.9	20.9	18.9	16.0	13.2	10.3	19.7	2.2	19.7	19.7	17.8	15.0	12.1	9.3	
57		20.9	2.0	20.9	20.9	19.1	16.3	13.4	10.6	19.8	2.2	19.8	19.8	18.0	15.2	12.3	9.5	
700	77	28.7	2.1	16.6	12.8	9.4	-	-	-	26.7	2.3	16.3	11.8	8.5	-	-	-	
	72	26.3	2.1	20.0	16.6	13.2	9.8	-	-	24.4	2.3	19.2	15.8	12.4	9.1	-	-	
	67	23.9	2.1	23.3	20.4	17.0	13.7	10.3	-	22.2	2.3	21.8	19.8	16.4	13.1	9.7	-	
	62	22.2	2.1	22.2	22.2	20.7	17.4	14.0	10.6	20.9	2.2	20.9	20.9	19.5	16.2	12.8	9.4	
	57	22.2	2.1	22.2	22.2	21.0	17.6	14.2	10.9	21.0	2.2	21.0	21.0	19.7	16.4	13.0	9.6	
800	77	30.4	2.2	19.0	14.1	10.2	-	-	-	28.2	2.4	19.2	13.1	9.2	-	-	-	
	72	27.9	2.2	22.2	18.3	14.4	10.5	-	-	25.8	2.3	21.3	17.4	13.5	9.6	-	-	
	67	25.4	2.2	25.4	22.4	18.5	14.6	10.8	-	23.4	2.3	23.4	21.7	17.9	14.0	10.1	-	
	62	23.5	2.1	23.5	23.5	22.6	18.7	14.8	10.9	22.0	2.3	22.0	22.0	21.2	17.3	13.4	9.5	
	57	23.6	2.1	23.6	23.6	22.8	18.9	15.1	11.2	22.1	2.3	22.1	22.1	21.4	17.6	13.7	9.8	
900	72	28.1	2.2	24.1	19.6	15.2	10.8	-	-	26.0	2.4	23.1	18.7	14.2	9.8	-	-	
	67	25.6	2.2	25.6	24.0	19.6	15.2	10.7	-	23.6	2.3	23.6	22.7	18.8	14.4	10.0	-	
	62	23.7	2.2	23.7	23.7	23.2	18.8	14.4	10.0	22.2	2.3	22.2	22.2	21.8	17.4	13.0	8.5	
	57	23.8	2.2	23.8	23.8	23.4	19.0	14.5	10.1	22.3	2.3	22.3	22.3	22.0	17.6	13.1	8.7	
	72	28.4	2.2	26.0	21.0	16.0	11.1	-	-	26.3	2.4	24.9	19.9	15.0	10.0	-	-	
1000	67	25.8	2.2	25.8	25.6	20.7	15.7	10.7	-	23.8	2.4	23.8	23.7	19.8	14.8	9.8	-	
	62	23.9	2.2	23.9	23.9	23.9	19.0	14.0	9.0	22.4	2.4	22.4	22.4	22.4	17.4	12.5	7.5	
	57	23.9	2.2	23.9	23.9	23.9	19.0	14.0	9.0	22.5	2.4	22.5	22.5	22.5	17.6	12.6	7.6	

TABLE 4: DNP024 COOLING CAPACITIES - 2 TON (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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
		115°F							125°F								
600	77	23.5	2.5	12.6	9.7	6.9	-	-	-	21.7	2.7	11.7	8.9	6.0	-	-	-
	72	21.4	2.4	16.4	13.6	10.7	7.9	-	-	19.8	2.6	15.7	12.9	10.0	7.2	-	-
	67	19.4	2.4	19.4	17.4	14.5	11.7	8.8	-	17.8	2.5	17.8	16.9	14.1	11.2	8.4	-
	62	18.5	2.4	18.5	18.5	16.8	14.0	11.1	8.2	17.4	2.5	17.4	17.4	15.8	12.9	10.1	7.2
	57	18.7	2.4	18.7	18.7	17.0	14.1	11.3	8.4	17.6	2.5	17.6	17.6	15.9	13.0	10.2	7.3
700	77	24.7	2.5	16.0	10.9	7.5	-	-	-	22.7	2.7	15.7	9.9	6.5	-	-	-
	72	22.6	2.4	18.4	15.0	11.7	8.3	-	-	20.7	2.6	17.6	14.3	10.9	7.5	-	-
	67	20.4	2.4	20.4	19.2	15.9	12.5	9.1	-	18.6	2.5	18.6	18.6	15.3	11.9	8.5	-
	62	19.5	2.4	19.5	19.5	18.3	15.0	11.6	8.2	18.2	2.5	18.2	18.2	17.1	13.8	10.4	7.0
	57	19.7	2.4	19.7	19.7	18.5	15.1	11.8	8.4	18.5	2.6	18.5	18.5	17.3	13.9	10.5	7.2
800	77	26.0	2.5	19.4	12.0	8.1	-	-	-	23.7	2.7	19.7	10.9	7.1	-	-	-
	72	23.7	2.5	20.4	16.5	12.7	8.8	-	-	21.6	2.6	19.6	15.7	11.8	7.9	-	-
	67	21.4	2.4	21.4	21.1	17.2	13.3	9.4	-	19.4	2.6	19.4	19.4	16.5	12.6	8.7	-
	62	20.5	2.4	20.5	20.5	19.9	16.0	12.1	8.2	19.0	2.6	19.0	19.0	18.5	14.6	10.7	6.8
	57	20.7	2.4	20.7	20.7	20.1	16.2	12.3	8.4	19.3	2.6	19.3	19.3	18.7	14.8	10.9	7.0
900	72	23.9	2.5	22.1	17.7	13.3	8.8	-	-	21.8	2.7	21.1	16.7	12.3	7.9	-	-
	67	21.6	2.5	21.6	21.5	18.0	13.6	9.2	-	19.7	2.6	19.7	19.7	17.2	12.8	8.4	-
	62	20.7	2.5	20.7	20.7	20.4	16.0	11.5	7.1	19.2	2.6	19.2	19.2	19.0	14.5	10.1	5.7
	57	20.9	2.5	20.9	20.9	20.6	16.2	11.7	7.3	19.5	2.6	19.5	19.5	19.2	14.8	10.3	5.9
	1000	72	24.2	2.6	23.8	18.8	13.9	8.9	-	-	22.1	2.8	22.1	17.8	12.8	7.8	-
67		21.8	2.5	21.8	21.8	18.9	13.9	8.9	-	19.9	2.7	19.9	19.9	17.9	13.0	8.0	-
62		20.9	2.5	20.9	20.9	20.9	15.9	11.0	6.0	19.4	2.7	19.4	19.4	19.4	14.4	9.5	4.5
57		21.1	2.5	21.1	21.1	21.1	16.1	11.2	6.2	19.7	2.7	19.7	19.7	19.7	14.7	9.8	4.8

1. These capacities are Net Capacities.

2. These ratings include the compressor, condenser fan and supply air blower motors.

TABLE 5: DNP030 COOLING CAPACITIES - 2.5 TON

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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							
750	77	33.0	1.9	16.9	13.3	9.8	-	-	-	32.2	2.2	16.1	12.6	9.0	-	-	-
	72	31.4	2.0	21.3	17.7	14.1	10.6	-	-	30.4	2.2	20.6	17.1	13.5	10.0	-	-
	67	29.8	2.0	25.6	22.1	18.5	14.9	11.4	-	28.6	2.2	25.1	21.6	18.0	14.4	10.9	-
	62	28.9	1.9	28.9	26.5	22.9	19.3	15.8	12.2	27.4	2.1	27.4	25.7	22.1	18.6	15.0	11.4
	57	28.6	1.9	28.6	28.0	24.4	20.9	17.3	13.7	27.3	2.1	27.3	26.6	23.0	19.5	15.9	12.4
875	77	33.4	2.0	19.7	14.9	10.7	-	-	-	32.7	2.3	19.4	14.2	9.9	-	-	-
	72	31.8	2.0	23.9	19.7	15.4	11.2	-	-	30.8	2.3	23.3	19.1	14.9	10.7	-	-
	67	30.1	2.1	28.0	24.4	20.2	16.0	11.8	-	29.0	2.3	27.3	24.1	19.9	15.7	11.4	-
	62	29.2	2.0	29.2	28.0	25.0	20.8	16.6	12.4	27.8	2.2	27.8	26.9	24.4	20.2	16.0	11.8
	57	29.0	1.9	29.0	28.6	26.7	22.5	18.3	14.0	27.7	2.2	27.7	27.4	25.4	21.2	17.0	12.8
1000	77	33.8	2.1	22.5	16.5	11.6	-	-	-	33.1	2.4	22.6	15.7	10.9	-	-	-
	72	32.1	2.1	26.5	21.6	16.7	11.9	-	-	31.3	2.4	26.0	21.2	16.3	11.4	-	-
	67	30.5	2.1	30.5	26.7	21.9	17.0	12.2	-	29.4	2.4	29.4	26.6	21.7	16.9	12.0	-
	62	29.5	2.0	29.5	29.5	27.1	22.2	17.4	12.5	28.2	2.3	28.2	28.2	26.7	21.8	16.9	12.1
	57	29.3	2.0	29.3	29.3	28.9	24.1	19.2	14.4	28.1	2.3	28.1	28.1	27.8	22.9	18.1	13.2
1125	72	32.5	2.2	28.6	23.1	17.5	12.0	-	-	31.7	2.4	28.2	22.7	17.2	11.6	-	-
	67	30.8	2.2	30.8	29.0	22.9	17.4	11.8	-	29.8	2.4	29.8	28.4	22.9	17.3	11.8	-
	62	29.9	2.1	29.9	29.9	28.7	23.2	17.6	12.1	28.5	2.4	28.5	28.5	27.8	22.2	16.7	11.2
	57	29.7	2.1	29.7	29.7	29.5	24.0	18.4	12.9	28.5	2.3	28.5	28.5	28.3	22.8	17.2	11.7
	1250	72	32.9	2.3	30.8	24.5	18.3	12.1	-	-	32.1	2.5	30.4	24.2	18.0	11.8	-
67		31.2	2.3	31.2	31.2	24.0	17.7	11.5	-	30.2	2.5	30.2	30.2	24.0	17.8	11.6	-
62		30.3	2.2	30.3	30.3	30.3	24.1	17.9	11.6	28.9	2.4	28.9	28.9	28.9	22.7	16.5	10.3
57		30.0	2.2	30.0	30.0	30.0	23.8	17.6	11.4	28.8	2.4	28.8	28.8	28.8	22.6	16.4	10.2
		95°F								105°F							
750	77	31.4	2.5	15.4	11.8	8.3	-	-	-	30.6	2.7	15.0	11.5	7.9	-	-	-
	72	29.4	2.4	20.0	16.5	12.9	9.3	-	-	28.2	2.7	19.3	15.7	12.2	8.6	-	-
	67	27.5	2.4	24.7	21.1	17.5	14.0	10.4	-	25.7	2.7	23.5	20.0	16.4	12.8	9.3	-
	62	25.9	2.4	25.9	24.9	21.3	17.8	14.2	10.6	24.8	2.7	24.8	23.3	19.7	16.2	12.6	9.0
	57	26.1	2.4	26.1	25.2	21.7	18.1	14.5	11.0	24.8	2.7	24.8	23.5	20.0	16.4	12.8	9.3
875	77	31.9	2.5	19.1	13.4	9.2	-	-	-	31.0	2.8	19.3	13.2	8.9	-	-	-
	72	29.9	2.5	22.8	18.6	14.4	10.2	-	-	28.5	2.8	22.1	17.9	13.7	9.5	-	-
	67	27.9	2.5	26.5	23.8	19.5	15.3	11.1	-	26.1	2.8	25.0	22.7	18.5	14.3	10.1	-
	62	26.4	2.4	26.4	25.9	23.8	19.6	15.4	11.1	25.1	2.7	25.1	24.3	22.3	18.1	13.8	9.6
	57	26.5	2.4	26.5	26.1	24.1	19.9	15.7	11.5	25.1	2.7	25.1	24.5	22.5	18.3	14.1	9.9
1000	77	32.5	2.6	22.7	15.0	10.1	-	-	-	31.3	2.9	23.6	14.9	9.9	-	-	-
	72	30.4	2.6	25.6	20.7	15.8	11.0	-	-	28.9	2.9	25.0	20.1	15.3	10.4	-	-
	67	28.4	2.6	28.4	26.4	21.5	16.7	11.8	-	26.4	2.9	26.4	25.4	20.6	15.8	10.9	-
	62	26.8	2.5	26.8	26.8	26.2	21.4	16.5	11.6	25.4	2.8	25.4	25.4	24.8	19.9	15.1	10.2
	57	26.9	2.5	26.9	26.9	26.6	21.8	16.9	12.0	25.4	2.8	25.4	25.4	25.1	20.3	15.4	10.5
1125	72	30.8	2.7	27.9	22.3	16.8	11.2	-	-	29.4	3.0	27.2	21.8	16.3	10.7	-	-
	67	28.8	2.7	28.8	27.8	22.8	17.3	11.8	-	26.9	3.0	26.9	26.4	22.0	16.4	10.9	-
	62	27.2	2.6	27.2	27.2	26.9	21.3	15.8	10.3	25.8	2.9	25.8	25.8	25.6	20.0	14.5	9.0
	57	27.3	2.6	27.3	27.3	27.1	21.6	16.0	10.5	25.9	2.9	25.9	25.9	25.7	20.2	14.7	9.1
	1250	72	31.2	2.8	30.1	23.9	17.7	11.5	-	-	29.9	3.0	29.4	23.5	17.3	11.1	-
67		29.1	2.8	29.1	29.1	24.1	17.9	11.7	-	27.3	3.1	27.3	27.3	23.3	17.1	10.9	-
62		27.5	2.7	27.5	27.5	27.5	21.3	15.1	8.9	26.3	3.0	26.3	26.3	26.3	20.1	13.9	7.7
57		27.6	2.7	27.6	27.6	27.6	21.4	15.2	9.0	26.3	3.0	26.3	26.3	26.3	20.1	13.9	7.7

TABLE 5: DNP030 COOLING CAPACITIES - 2.5 TON (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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
				115°F						125°F							
750	77	29.8	3.0	14.7	11.1	7.6	-	-	-	29.0	3.2	14.3	10.8	7.2	-	-	-
	72	26.9	3.0	18.5	15.0	11.4	7.9	-	-	25.7	3.3	17.8	14.2	10.7	7.1	-	-
	67	24.0	3.0	22.4	18.8	15.3	11.7	8.2	-	22.3	3.3	21.3	17.7	14.2	10.6	7.0	-
	62	23.6	3.0	23.6	21.7	18.1	14.6	11.0	7.4	22.4	3.2	22.4	20.1	16.5	13.0	9.4	5.8
	57	23.6	3.0	23.6	21.9	18.3	14.7	11.2	7.6	22.3	3.3	22.3	20.2	16.6	13.0	9.5	5.9
875	77	30.0	3.0	19.6	13.0	8.6	-	-	-	29.0	3.3	19.9	12.7	8.4	-	-	-
	72	27.1	3.1	21.5	17.3	13.1	8.9	-	-	25.7	3.4	20.9	16.6	12.4	8.2	-	-
	67	24.2	3.1	23.4	21.6	17.5	13.3	9.1	-	22.4	3.4	21.8	20.5	16.5	12.3	8.1	-
	62	23.8	3.0	23.8	22.8	20.8	16.5	12.3	8.1	22.5	3.3	22.5	21.3	19.2	15.0	10.8	6.6
	57	23.7	3.0	23.7	22.9	20.9	16.7	12.5	8.3	22.4	3.4	22.4	21.3	19.4	15.1	10.9	6.7
1000	77	30.2	3.1	24.5	14.8	9.7	-	-	-	29.1	3.4	25.4	14.7	9.6	-	-	-
	72	27.3	3.2	24.5	19.6	14.7	9.9	-	-	25.7	3.5	23.9	19.0	14.2	9.3	-	-
	67	24.4	3.2	24.4	24.4	19.7	14.9	10.0	-	22.4	3.5	22.4	22.4	18.8	14.0	9.1	-
	62	23.9	3.1	23.9	23.9	23.4	18.5	13.7	8.8	22.5	3.4	22.5	22.5	22.0	17.1	12.3	7.4
	57	23.9	3.1	23.9	23.9	23.6	18.7	13.9	9.0	22.4	3.4	22.4	22.4	22.1	17.2	12.4	7.5
1125	72	28.0	3.2	26.5	21.3	15.8	10.2	-	-	26.5	3.5	25.9	20.8	15.3	9.7	-	-
	67	25.0	3.3	25.0	25.0	21.1	15.6	10.0	-	23.1	3.6	23.1	23.1	20.3	14.7	9.2	-
	62	24.5	3.2	24.5	24.5	24.3	18.7	13.2	7.6	23.2	3.5	23.2	23.2	22.9	17.4	11.9	6.3
	57	24.5	3.2	24.5	24.5	24.3	18.8	13.3	7.7	23.1	3.5	23.1	23.1	23.0	17.4	11.9	6.3
1250	72	28.6	3.3	28.6	23.0	16.8	10.6	-	-	27.3	3.6	27.3	22.6	16.4	10.2	-	-
	67	25.6	3.3	25.6	25.6	22.5	16.3	10.1	-	23.8	3.6	23.8	23.8	21.7	15.5	9.3	-
	62	25.1	3.3	25.1	25.1	25.1	18.9	12.7	6.5	23.9	3.5	23.9	23.9	23.9	17.7	11.5	5.3
	57	25.1	3.3	25.1	25.1	25.1	18.9	12.7	6.4	23.8	3.5	23.8	23.8	23.8	17.6	11.4	5.2

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

TABLE 6: DNP036 COOLING CAPACITIES - 3 TON

Air on Evaporator Coil		Temperature of Air on Condenser Coil																
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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								
900	77	44.4	2.7	22.9	18.6	14.3	-	-	-	44.5	2.8	22.0	17.8	13.5	-	-	-	
	72	42.2	2.6	28.6	24.3	20.0	15.7	-	-	41.3	2.8	27.7	23.4	19.2	14.9	-	-	
	67	39.9	2.5	34.3	30.0	25.7	21.4	17.1	-	38.1	2.8	33.4	29.1	24.8	20.6	16.3	-	
	62	36.5	2.6	36.5	35.7	31.5	27.2	22.9	18.6	35.7	2.8	35.7	34.6	30.3	26.1	21.8	17.5	
	57	35.4	2.6	35.4	36.0	32.6	28.3	24.0	19.7	34.9	2.8	34.9	34.9	31.1	26.8	22.5	18.2	
1050	77	46.1	2.7	24.6	20.4	15.4	-	-	-	45.6	2.9	24.6	19.5	14.4	-	-	-	
	72	43.7	2.6	31.6	26.5	21.5	16.4	-	-	42.3	2.9	30.6	25.6	20.5	15.5	-	-	
	67	41.4	2.5	38.5	32.6	27.5	22.5	17.4	-	39.0	2.8	36.7	31.7	26.6	21.6	16.5	-	
	62	37.9	2.6	37.9	37.5	33.7	28.7	23.6	18.6	36.6	2.8	36.6	36.0	32.5	27.5	22.4	17.4	
	57	36.7	2.6	36.7	37.0	34.9	29.8	24.8	19.7	35.8	2.8	35.8	35.8	33.3	28.2	23.2	18.1	
1200	77	47.7	2.8	26.3	22.2	16.4	-	-	-	46.7	3.0	27.2	21.3	15.4	-	-	-	
	72	45.3	2.6	34.6	28.7	22.9	17.1	-	-	43.3	2.9	33.6	27.7	21.9	16.1	-	-	
	67	42.8	2.5	42.8	35.2	29.4	23.6	17.7	-	39.9	2.9	39.9	34.2	28.4	22.6	16.7	-	
	62	39.2	2.6	39.2	39.2	36.0	30.2	24.3	18.5	37.4	2.9	37.4	37.4	34.7	28.9	23.1	17.2	
	57	38.0	2.6	38.0	38.0	37.2	31.4	25.6	19.7	36.7	2.9	36.7	36.7	35.5	29.7	23.9	18.0	
1350	72	45.5	2.8	37.2	30.6	23.9	17.3	-	-	44.0	3.1	36.4	29.8	23.2	16.5	-	-	
	67	43.1	2.7	43.1	37.4	30.7	24.1	17.4	-	40.6	3.0	40.6	36.7	30.0	23.4	16.7	-	
	62	39.4	2.8	39.4	39.4	37.8	31.2	24.5	17.9	38.0	3.1	38.0	38.0	36.7	30.0	23.4	16.7	
	57	38.2	2.8	38.2	38.2	37.8	31.2	24.6	17.9	37.2	3.0	37.2	37.2	36.7	30.0	23.4	16.7	
	72	45.8	3.1	39.9	32.4	25.0	17.5	-	-	44.7	3.2	39.3	31.8	24.4	16.9	-	-	
1500	67	43.3	2.9	43.3	39.5	32.1	24.6	17.2	-	41.2	3.2	41.2	39.1	31.6	24.2	16.7	-	
	62	39.6	3.0	39.6	39.6	39.6	32.2	24.7	17.3	38.6	3.2	38.6	38.6	38.6	31.1	23.7	16.2	
	57	38.5	3.0	38.5	38.5	38.5	31.0	23.5	16.1	37.8	3.2	37.8	37.8	37.8	30.3	22.9	15.4	
			95°F								105°F							
	900	77	44.7	2.9	21.2	16.9	12.6	-	-	-	41.3	3.4	20.4	16.1	11.9	-	-	-
72		40.4	3.0	26.8	22.6	18.3	14.0	-	-	37.6	3.4	26.0	21.7	17.4	13.2	-	-	
67		36.2	3.0	32.5	28.2	24.0	19.7	15.4	-	34.0	3.4	31.5	27.3	23.0	18.7	14.4	-	
62		34.8	3.0	34.8	33.5	29.2	24.9	20.7	16.4	33.1	3.3	33.1	32.3	28.0	23.7	19.5	15.2	
57		34.4	2.9	34.4	33.8	29.5	25.3	21.0	16.7	32.8	3.3	32.8	32.5	28.2	23.9	19.6	15.4	
1050	77	45.2	3.1	24.6	18.6	13.5	-	-	-	41.8	3.5	24.4	17.8	12.7	-	-	-	
	72	40.9	3.1	29.7	24.7	19.6	14.6	-	-	38.1	3.5	28.8	23.7	18.7	13.6	-	-	
	67	36.6	3.1	34.8	30.8	25.7	20.6	15.6	-	34.4	3.5	33.2	29.7	24.6	19.6	14.5	-	
	62	35.2	3.1	35.2	34.6	31.3	26.3	21.2	16.2	33.5	3.4	33.5	33.1	30.0	24.9	19.9	14.8	
	57	34.9	3.0	34.9	34.6	31.7	26.6	21.6	16.5	33.2	3.4	33.2	33.0	30.2	25.1	20.1	15.0	
1200	77	45.8	3.2	28.1	20.3	14.4	-	-	-	42.3	3.6	28.3	19.4	13.5	-	-	-	
	72	41.4	3.2	32.6	26.8	20.9	15.1	-	-	38.5	3.6	31.6	25.7	19.9	14.1	-	-	
	67	37.1	3.3	37.1	33.3	27.4	21.6	15.8	-	34.8	3.6	34.8	32.1	26.3	20.4	14.6	-	
	62	35.7	3.2	35.7	35.7	33.5	27.6	21.8	16.0	33.9	3.5	33.9	33.9	32.0	26.2	20.3	14.5	
	57	35.3	3.2	35.3	35.3	33.8	28.0	22.2	16.3	33.6	3.5	33.6	33.6	32.2	26.4	20.5	14.7	
1350	72	42.5	3.3	35.6	29.0	22.4	15.7	-	-	39.6	3.7	34.5	27.9	21.3	14.6	-	-	
	67	38.0	3.4	38.0	35.9	29.3	22.7	16.0	-	35.8	3.7	35.8	34.3	28.1	21.4	14.8	-	
	62	36.6	3.3	36.6	36.6	35.5	28.9	22.2	15.6	34.8	3.6	34.8	34.8	33.9	27.2	20.6	13.9	
	57	36.2	3.3	36.2	36.2	35.5	28.8	22.2	15.5	34.5	3.6	34.5	34.5	33.8	27.1	20.5	13.9	
	1500	72	43.6	3.4	38.7	31.2	23.8	16.3	-	-	40.6	3.8	37.5	30.1	22.6	15.2	-	-
67		39.0	3.5	39.0	38.6	31.2	23.7	16.3	-	36.7	3.8	36.7	36.5	29.8	22.4	14.9	-	
62		37.5	3.4	37.5	37.5	37.5	30.1	22.6	15.2	35.8	3.7	35.8	35.8	35.8	28.3	20.9	13.4	
57		37.1	3.4	37.1	37.1	37.1	29.7	22.2	14.8	35.4	3.7	35.4	35.4	35.4	27.9	20.5	13.0	

TABLE 6: DNP036 COOLING CAPACITIES - 3 TON (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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
		115°F							125°F								
900	77	37.8	3.8	19.7	15.4	11.1	-	-	-	34.4	4.3	18.9	14.6	10.4	-	-	-
	72	34.8	3.8	25.1	20.8	16.6	12.3	-	-	32.0	4.2	24.3	20.0	15.7	11.4	-	-
	67	31.8	3.7	30.6	26.3	22.0	17.8	13.5	-	29.6	4.1	29.6	25.3	21.1	16.8	12.5	-
	62	31.4	3.6	31.4	31.1	26.8	22.5	18.2	14.0	29.7	3.9	29.7	29.7	25.6	21.3	17.0	12.7
	57	31.1	3.6	31.1	31.1	26.8	22.6	18.3	14.0	29.5	3.9	29.5	29.5	25.5	21.2	16.9	12.6
1050	77	38.3	4.0	24.1	16.9	11.9	-	-	-	34.8	4.4	23.8	16.1	11.1	-	-	-
	72	35.2	3.9	27.8	22.8	17.7	12.7	-	-	32.4	4.3	26.9	21.8	16.8	11.7	-	-
	67	32.2	3.8	31.6	28.6	23.6	18.5	13.4	-	30.0	4.2	30.0	27.5	22.5	17.4	12.4	-
	62	31.8	3.7	31.8	31.6	28.6	23.6	18.5	13.5	30.1	4.0	30.1	30.1	27.3	22.2	17.2	12.1
	57	31.5	3.7	31.5	31.5	28.7	23.6	18.6	13.5	29.8	4.0	29.8	29.8	27.2	22.1	17.1	12.0
1200	77	38.7	4.1	28.5	18.5	12.7	-	-	-	35.2	4.5	28.7	17.6	11.8	-	-	-
	72	35.7	4.0	30.5	24.7	18.9	13.0	-	-	32.8	4.4	29.5	23.7	17.8	12.0	-	-
	67	32.6	3.9	32.6	30.9	25.1	19.2	13.4	-	30.3	4.3	30.3	29.7	23.9	18.1	12.2	-
	62	32.2	3.8	32.2	32.2	30.5	24.7	18.8	13.0	30.4	4.1	30.4	30.4	29.0	23.2	17.4	11.5
	57	31.9	3.8	31.9	31.9	30.5	24.7	18.9	13.0	30.2	4.1	30.2	30.2	28.9	23.1	17.2	11.4
1350	72	36.7	4.1	33.4	26.8	20.2	13.5	-	-	33.7	4.5	32.3	25.7	19.1	12.4	-	-
	67	33.5	4.1	33.5	32.7	26.8	20.2	13.5	-	31.2	4.4	31.2	31.0	25.6	18.9	12.3	-
	62	33.1	3.9	33.1	33.1	32.2	25.6	19.0	12.3	31.3	4.3	31.3	31.3	30.6	24.0	17.3	10.7
	57	32.8	3.9	32.8	32.8	32.1	25.5	18.8	12.2	31.0	4.2	31.0	31.0	30.4	23.8	17.1	10.5
	1500	72	37.7	4.3	36.4	28.9	21.5	14.0	-	-	34.7	4.7	34.7	27.8	20.3	12.8	-
67		34.4	4.2	34.4	34.4	28.5	21.1	13.6	-	32.1	4.6	32.1	32.1	27.2	19.8	12.3	-
62		34.0	4.1	34.0	34.0	34.0	26.5	19.1	11.6	32.2	4.4	32.2	32.2	32.2	24.8	17.3	9.9
57		33.7	4.0	33.7	33.7	33.7	26.2	18.8	11.3	31.9	4.4	31.9	31.9	31.9	24.5	17.0	9.6

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

TABLE 7: DNP042 COOLING CAPACITIES - 3.5 TON

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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	50.2	3.1	25.7	20.7	15.7	-	-	-	47.9	3.6	25.3	20.3	15.3	-	-	-
	72	46.4	3.1	32.2	27.2	22.2	17.3	-	-	44.3	3.4	31.6	26.6	21.6	16.6	-	-
	67	42.5	3.0	38.8	33.8	28.8	23.8	18.8	-	40.7	3.3	38.0	33.0	28.0	23.0	18.0	-
	62	38.6	2.8	38.6	38.6	33.8	28.8	23.8	18.9	37.5	3.3	37.5	37.5	33.5	28.6	23.6	18.6
	57	39.6	3.0	39.6	39.6	37.0	32.0	27.1	22.1	37.7	3.3	37.7	37.7	35.6	30.7	25.7	20.7
1225	77	52.3	3.2	29.8	23.0	17.1	-	-	-	49.8	3.6	29.8	22.5	16.6	-	-	-
	72	48.3	3.1	36.1	30.2	24.3	18.4	-	-	46.1	3.5	35.4	29.5	23.6	17.7	-	-
	67	44.3	3.0	42.4	37.4	31.5	25.6	19.7	-	42.4	3.4	41.0	36.4	30.5	24.6	18.7	-
	62	40.2	2.8	40.2	40.2	36.9	31.0	25.1	19.2	39.0	3.3	39.0	39.0	36.6	30.7	24.8	18.9
	57	41.3	3.1	41.3	41.3	40.4	34.5	28.6	22.8	39.2	3.4	39.2	39.2	38.9	33.0	27.1	21.2
1400	77	54.4	3.3	33.9	25.4	18.6	-	-	-	51.7	3.7	34.3	24.8	18.0	-	-	-
	72	50.2	3.2	39.9	33.1	26.3	19.5	-	-	47.9	3.5	39.1	32.3	25.5	18.7	-	-
	67	46.0	3.1	46.0	40.9	34.1	27.3	20.5	-	44.0	3.4	44.0	39.8	33.0	26.2	19.4	-
	62	41.8	2.9	41.8	41.8	40.1	33.2	26.4	19.6	40.5	3.4	40.5	40.5	39.6	32.8	26.0	19.2
	57	42.9	3.1	42.9	42.9	43.8	37.0	30.2	23.4	40.8	3.4	40.8	40.8	42.1	35.3	28.5	21.6
1575	72	51.0	3.3	42.7	35.0	27.2	19.5	-	-	48.4	3.7	42.3	34.5	26.8	19.0	-	-
	67	46.7	3.2	46.7	44.2	35.3	27.5	19.8	-	44.5	3.6	44.5	42.4	34.7	26.9	19.2	-
	62	42.5	3.0	42.5	42.5	41.6	33.9	26.1	18.4	40.9	3.5	40.9	40.9	40.5	32.7	25.0	17.3
	57	43.6	3.2	43.6	43.6	44.0	36.3	28.5	20.8	41.2	3.6	41.2	41.2	41.9	34.1	26.4	18.6
1750	72	51.8	3.4	45.5	36.8	28.1	19.5	-	-	49.0	3.9	45.5	36.8	28.1	19.4	-	-
	67	47.5	3.3	47.5	47.5	36.5	27.8	19.1	-	45.0	3.7	45.0	45.0	36.3	27.6	18.9	-
	62	43.2	3.1	43.2	43.2	43.2	34.5	25.8	17.1	41.4	3.7	41.4	41.4	41.4	32.7	24.0	15.3
	57	44.2	3.4	44.2	44.2	44.2	35.5	26.9	18.2	41.7	3.7	41.7	41.7	41.7	33.0	24.3	15.6
		95°F							105°F								
1050	77	45.6	4.0	24.8	19.9	14.9	-	-	-	43.2	4.3	23.9	18.9	13.9	-	-	-
	72	42.3	3.8	31.0	26.0	21.0	16.0	-	-	40.0	4.2	30.0	25.0	20.0	15.1	-	-
	67	39.0	3.7	37.2	32.2	27.2	22.2	17.2	-	36.8	4.1	35.9	31.2	26.2	21.2	16.2	-
	62	36.3	3.8	36.3	36.3	33.3	28.3	23.3	18.3	34.1	4.2	34.1	34.1	31.7	26.7	21.7	16.8
	57	35.9	3.7	35.9	35.9	34.3	29.3	24.3	19.3	34.2	4.1	34.2	34.2	32.2	27.2	22.2	17.2
1225	77	47.3	4.0	29.8	22.1	16.2	-	-	-	44.9	4.4	29.5	21.1	15.2	-	-	-
	72	43.9	3.9	34.7	28.8	22.9	17.0	-	-	41.5	4.3	33.7	27.8	21.9	16.0	-	-
	67	40.5	3.7	39.6	35.5	29.6	23.7	17.8	-	38.2	4.2	37.7	34.5	28.7	22.8	16.9	-
	62	37.7	3.9	37.7	37.7	36.2	30.3	24.4	18.5	35.4	4.3	35.4	35.4	34.7	28.8	22.9	17.0
	57	37.2	3.7	37.2	37.2	37.3	31.4	25.5	19.6	35.5	4.2	35.5	35.5	35.2	29.3	23.4	17.5
1400	77	49.1	4.1	34.7	24.3	17.5	-	-	-	46.5	4.5	35.2	23.3	16.5	-	-	-
	72	45.5	3.9	38.3	31.5	24.7	17.9	-	-	43.0	4.3	37.4	30.6	23.8	17.0	-	-
	67	42.0	3.8	42.0	38.8	32.0	25.2	18.3	-	39.6	4.2	39.6	37.9	31.1	24.3	17.5	-
	62	39.1	3.9	39.1	39.1	39.1	32.3	25.5	18.7	36.7	4.3	36.7	36.7	37.6	30.8	24.0	17.2
	57	38.6	3.8	38.6	40.3	33.5	26.7	19.9	36.8	4.2	36.8	36.8	38.2	31.4	24.6	17.8	
1575	72	45.8	4.1	41.8	34.1	26.3	18.6	-	-	43.3	4.5	40.3	32.9	25.2	17.4	-	-
	67	42.3	4.0	42.3	40.7	34.1	26.3	18.6	-	39.8	4.4	39.8	39.0	32.9	25.2	17.4	-
	62	39.4	4.1	39.4	39.4	39.4	31.6	23.9	16.1	36.9	4.5	36.9	36.9	37.4	29.7	21.9	14.2
	57	38.9	3.9	38.9	38.9	39.7	32.0	24.2	16.5	37.0	4.4	37.0	37.0	37.7	30.0	22.2	14.5
1750	72	46.2	4.3	45.4	36.7	28.0	19.3	-	-	43.6	4.7	43.2	35.3	26.6	17.9	-	-
	67	42.6	4.1	42.6	42.6	36.2	27.5	18.8	-	40.1	4.6	40.1	40.1	34.7	26.1	17.4	-
	62	39.7	4.3	39.7	39.7	39.7	31.0	22.3	13.6	37.2	4.7	37.2	37.2	37.2	28.5	19.8	11.1
	57	39.2	4.1	39.2	39.2	39.2	30.5	21.8	13.1	37.3	4.5	37.3	37.3	37.3	28.6	19.9	11.2

TABLE 7: DNP042 COOLING CAPACITIES - 3.5 TON (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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
		115°F							125°F								
1050	77	40.9	4.6	22.9	17.9	12.9	-	-	-	38.6	5.0	21.9	16.9	11.9	-	-	-
	72	37.8	4.6	29.0	24.0	19.1	14.1	-	-	35.5	5.0	28.1	23.1	18.1	13.1	-	-
	67	34.6	4.5	34.6	30.2	25.2	20.2	15.3	-	32.4	5.0	32.4	29.2	24.3	19.3	14.3	-
	62	31.9	4.5	31.9	31.9	30.2	25.2	20.2	15.2	29.7	4.9	29.7	29.7	28.6	23.7	18.7	13.7
	57	32.6	4.5	32.6	32.6	30.1	25.1	20.2	15.2	30.9	4.9	30.9	30.9	28.1	23.1	18.1	13.1
1225	77	42.4	4.7	29.3	20.1	14.2	-	-	-	40.0	5.1	29.1	19.1	13.2	-	-	-
	72	39.2	4.7	32.7	26.8	20.9	15.0	-	-	36.8	5.1	31.8	25.9	20.0	14.1	-	-
	67	35.9	4.6	35.9	33.6	27.7	21.8	15.9	-	33.6	5.1	33.6	32.7	26.8	20.9	15.0	-
	62	33.1	4.6	33.1	33.1	33.2	27.3	21.4	15.5	30.8	5.0	30.8	30.8	30.8	25.8	19.9	14.0
	57	33.8	4.6	33.8	33.8	33.1	27.2	21.3	15.4	32.0	5.0	32.0	32.0	31.0	25.1	19.2	13.3
1400	77	44.0	4.8	35.7	22.2	15.4	-	-	-	41.4	5.2	36.2	21.2	14.4	-	-	-
	72	40.6	4.8	36.4	29.6	22.8	16.0	-	-	38.1	5.2	35.5	28.7	21.9	15.1	-	-
	67	37.2	4.7	37.2	37.0	30.2	23.4	16.6	-	34.8	5.2	34.8	34.8	29.4	22.6	15.8	-
	62	34.3	4.7	34.3	34.3	36.2	29.4	22.6	15.8	31.9	5.1	31.9	31.9	31.9	27.9	21.1	14.3
	57	35.0	4.7	35.0	35.0	36.1	29.3	22.5	15.7	33.1	5.1	33.1	33.1	33.1	27.2	20.4	13.6
1575	72	40.8	4.9	38.7	31.7	24.0	16.2	-	-	38.3	5.3	37.2	30.6	22.8	15.1	-	-
	67	37.4	4.9	37.4	37.3	31.8	24.0	16.3	-	34.9	5.3	34.9	34.9	30.6	22.9	15.1	-
	62	34.5	4.9	34.5	34.5	35.4	27.7	19.9	12.2	32.0	5.3	32.0	32.0	32.0	25.7	17.9	10.2
	57	35.2	4.8	35.2	35.2	35.7	28.0	20.2	12.5	33.3	5.3	33.3	33.3	33.3	26.0	18.2	10.5
	1750	72	41.0	5.1	41.0	33.8	25.2	16.5	-	-	38.5	5.5	38.5	32.4	23.7	15.0	-
67		37.6	5.0	37.6	37.6	33.3	24.6	15.9	-	35.1	5.4	35.1	35.1	31.9	23.2	14.5	-
62		34.7	5.0	34.7	34.7	34.7	26.0	17.3	8.6	32.2	5.4	32.2	32.2	32.2	23.5	14.8	6.1
57		35.4	5.0	35.4	35.4	35.4	26.7	18.0	9.3	33.5	5.4	33.5	33.5	33.5	24.8	16.1	7.4

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

TABLE 8: DNP048 COOLING CAPACITIES - 4 TON

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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						
1200	77	58.2	3.1	28.1	22.4	16.7	-	-	-	57.4	3.5	28.4	22.7	17.0	-	-	-
	72	54.1	3.1	36.1	30.4	24.7	19.0	-	-	52.9	3.5	36.2	30.5	24.8	19.1	-	-
	67	50.0	3.1	44.1	38.4	32.7	27.0	21.3	-	48.3	3.5	43.9	38.2	32.5	26.8	21.1	-
	62	45.6	3.0	45.6	45.6	40.0	34.3	28.6	22.9	44.6	3.5	44.6	44.6	39.2	33.5	27.8	22.1
	57	46.0	3.0	46.0	46.0	41.6	35.9	30.2	24.5	45.0	3.4	45.0	45.0	40.3	34.6	28.9	23.2
1400	77	60.6	3.3	32.2	25.1	18.4	-	-	-	58.7	3.7	33.4	25.2	18.4	-	-	-
	72	56.3	3.3	40.6	33.9	27.1	20.4	-	-	54.0	3.7	40.3	33.5	26.8	20.1	-	-
	67	52.0	3.3	49.0	42.6	35.9	29.1	22.4	-	49.4	3.7	47.2	41.9	35.2	28.4	21.7	-
	62	47.5	3.2	47.5	47.5	43.9	37.2	30.4	23.7	45.6	3.6	45.6	45.6	42.4	35.7	28.9	22.2
	57	47.8	3.1	47.8	47.8	45.7	38.9	32.2	25.4	45.9	3.6	45.9	45.9	43.6	36.9	30.1	23.4
1600	77	62.9	3.5	36.2	27.8	20.0	-	-	-	59.9	3.9	38.3	27.6	19.8	-	-	-
	72	58.4	3.5	45.1	37.3	29.5	21.8	-	-	55.2	3.9	44.4	36.6	28.8	21.1	-	-
	67	54.0	3.5	54.0	46.8	39.1	31.3	23.5	-	50.5	3.8	50.5	45.6	37.9	30.1	22.3	-
	62	49.3	3.4	49.3	49.3	47.8	40.0	32.2	24.5	46.6	3.8	46.6	46.6	45.6	37.8	30.1	22.3
	57	49.7	3.3	49.7	49.7	49.7	41.9	34.1	26.3	46.9	3.7	46.9	46.9	46.9	39.2	31.4	23.6
1800	72	58.2	3.8	48.6	39.8	30.9	22.1	-	-	55.4	4.1	48.0	39.1	30.3	21.4	-	-
	67	53.7	3.8	53.7	50.2	40.9	32.0	23.2	-	50.6	4.1	50.6	48.2	39.7	30.8	22.0	-
	62	49.1	3.7	49.1	49.1	48.3	39.5	30.6	21.8	46.8	4.1	46.8	46.8	46.3	37.4	28.6	19.7
	57	49.5	3.6	49.5	49.5	49.5	40.6	31.7	22.9	47.1	4.0	47.1	47.1	47.1	38.2	29.4	20.5
	72	57.9	4.1	52.2	42.2	32.3	22.4	-	-	55.6	4.4	51.5	41.6	31.7	21.7	-	-
2000	67	53.5	4.1	53.5	53.5	42.7	32.8	22.9	-	50.8	4.4	50.8	50.8	41.5	31.6	21.7	-
	62	48.8	4.0	48.8	48.8	48.8	38.9	29.0	19.0	46.9	4.3	46.9	46.9	46.9	37.0	27.1	17.1
	57	49.2	3.9	49.2	49.2	49.2	39.3	29.4	19.4	47.3	4.3	47.3	47.3	47.3	37.3	27.4	17.5
			95°F									105°F					
	1200	77	56.6	4.0	28.8	23.1	17.4	-	-	-	52.7	4.4	27.2	21.5	15.8	-	-
72		51.6	3.9	36.2	30.5	24.8	19.1	-	-	48.3	4.3	34.8	29.1	23.4	17.7	-	-
67		46.6	3.9	43.7	38.0	32.3	26.6	20.9	-	43.9	4.3	42.4	36.7	31.0	25.3	19.6	-
62		43.6	3.9	43.6	43.6	38.3	32.6	26.9	21.2	41.1	4.2	41.1	41.1	36.3	30.6	24.9	19.2
57		43.9	3.9	43.9	43.9	39.0	33.3	27.5	21.8	41.3	4.2	41.3	41.3	36.7	31.0	25.3	19.6
1400	77	56.8	4.1	34.6	25.3	18.5	-	-	-	53.2	4.5	33.7	23.7	17.0	-	-	-
	72	51.8	4.1	40.0	33.2	26.5	19.8	-	-	48.7	4.5	38.6	31.9	25.1	18.4	-	-
	67	46.8	4.0	45.3	41.2	34.5	27.7	21.0	-	44.3	4.4	43.6	40.0	33.3	26.5	19.8	-
	62	43.8	4.0	43.8	43.8	40.9	34.1	27.4	20.7	41.4	4.4	41.4	41.4	38.9	32.2	25.5	18.7
	57	44.0	4.0	44.0	44.0	41.6	34.8	28.1	21.3	41.7	4.3	41.7	41.7	39.4	32.7	25.9	19.2
1600	77	57.0	4.2	40.5	27.5	19.7	-	-	-	53.7	4.7	40.1	25.9	18.1	-	-	-
	72	52.0	4.2	43.7	35.9	28.2	20.4	-	-	49.2	4.6	42.4	34.6	26.8	19.1	-	-
	67	46.9	4.2	46.9	44.4	36.6	28.9	21.1	-	44.7	4.6	44.7	43.3	35.5	27.8	20.0	-
	62	43.9	4.1	43.9	43.9	43.5	35.7	27.9	20.1	41.8	4.5	41.8	41.8	41.6	33.8	26.0	18.3
	57	44.2	4.1	44.2	44.2	44.2	36.4	28.6	20.8	42.1	4.5	42.1	42.1	42.1	34.3	26.5	18.7
1800	72	52.6	4.5	47.3	38.4	29.6	20.7	-	-	49.4	4.9	45.4	37.1	28.2	19.4	-	-
	67	47.5	4.4	47.5	46.3	38.5	29.6	20.8	-	44.9	4.8	44.9	44.2	37.4	28.5	19.7	-
	62	44.5	4.4	44.5	44.5	44.2	35.4	26.5	17.7	42.0	4.8	42.0	42.0	41.9	33.1	24.2	15.3
	57	44.7	4.4	44.7	44.7	44.7	35.9	27.0	18.2	42.3	4.7	42.3	42.3	42.3	33.4	24.6	15.7
	72	53.3	4.7	50.9	40.9	31.0	21.1	-	-	49.7	5.1	48.5	39.5	29.6	19.7	-	-
2000	67	48.1	4.7	48.1	48.1	40.3	30.4	20.5	-	45.2	5.1	45.2	45.2	39.2	29.3	19.3	-
	62	45.0	4.6	45.0	45.0	45.0	35.1	25.1	15.2	42.2	5.0	42.2	42.2	42.2	32.3	22.4	12.4
	57	45.3	4.6	45.3	45.3	45.3	35.4	25.4	15.5	42.5	5.0	42.5	42.5	42.5	32.6	22.6	12.7

TABLE 8: DNP048 COOLING CAPACITIES - 4 TON (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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
		115°F							125°F								
1200	77	48.8	4.8	25.7	20.0	14.3	-	-	-	44.9	5.2	24.2	18.5	12.8	-	-	-
	72	45.0	4.8	33.4	27.7	22.0	16.3	-	-	41.7	5.2	32.0	26.3	20.6	14.9	-	-
	67	41.2	4.7	41.2	35.5	29.8	24.1	18.4	-	38.5	5.1	38.5	34.2	28.5	22.8	17.1	-
	62	38.5	4.6	38.5	38.5	34.3	28.6	22.9	17.2	36.0	5.0	36.0	36.0	32.3	26.6	20.9	15.2
	57	38.8	4.6	38.8	38.8	34.5	28.8	23.1	17.4	36.2	4.9	36.2	36.2	32.3	26.6	20.9	15.2
1400	77	49.6	5.0	32.7	22.2	15.4	-	-	-	46.0	5.4	31.7	20.6	13.9	-	-	-
	72	45.7	4.9	37.2	30.5	23.8	17.0	-	-	42.7	5.3	35.9	29.1	22.4	15.7	-	-
	67	41.8	4.9	41.8	38.8	32.1	25.4	18.6	-	39.3	5.3	39.3	37.7	30.9	24.2	17.4	-
	62	39.1	4.7	39.1	39.1	37.0	30.3	23.5	16.8	36.8	5.1	36.8	36.8	35.1	28.3	21.6	14.9
	57	39.4	4.7	39.4	39.4	37.3	30.5	23.8	17.0	37.0	5.0	37.0	37.0	35.1	28.4	21.6	14.9
1600	77	50.3	5.1	39.6	24.3	16.6	-	-	-	47.0	5.5	39.2	22.8	15.0	-	-	-
	72	46.4	5.0	41.0	33.3	25.5	17.7	-	-	43.6	5.5	39.7	31.9	24.2	16.4	-	-
	67	42.5	5.0	42.5	42.2	34.4	26.7	18.9	-	40.2	5.4	40.2	40.2	33.3	25.6	17.8	-
	62	39.7	4.9	39.7	39.7	39.7	31.9	24.2	16.4	37.6	5.2	37.6	37.6	37.6	30.1	22.3	14.5
	57	40.0	4.8	40.0	40.0	40.0	32.2	24.4	16.6	37.9	5.2	37.9	37.9	37.9	30.1	22.3	14.5
1800	72	46.3	5.3	43.6	35.7	26.8	18.0	-	-	43.1	5.7	41.7	34.3	25.5	16.6	-	-
	67	42.3	5.2	42.3	42.2	36.3	27.4	18.5	-	39.7	5.6	39.7	39.7	35.1	26.3	17.4	-
	62	39.6	5.1	39.6	39.6	39.6	30.7	21.9	13.0	37.2	5.5	37.2	37.2	37.2	28.4	19.6	10.7
	57	39.8	5.1	39.8	39.8	39.8	31.0	22.1	13.3	37.4	5.4	37.4	37.4	37.4	28.6	19.7	10.8
	2000	72	46.1	5.5	46.1	38.1	28.2	18.2	-	-	42.5	6.0	42.5	36.7	26.8	16.8	-
67		42.2	5.5	42.2	42.2	38.1	28.1	18.2	-	39.2	5.9	39.2	39.2	36.9	27.0	17.1	-
62		39.5	5.4	39.5	39.5	39.5	29.5	19.6	9.7	36.7	5.7	36.7	36.7	36.7	26.8	16.8	6.9
57		39.7	5.3	39.7	39.7	39.7	29.8	19.9	9.9	36.9	5.6	36.9	36.9	36.9	27.0	17.1	7.1

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

TABLE 9: DNP060 COOLING CAPACITIES - 5 TON

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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								
1500	77	73.0	4.1	38.2	30.9	23.6	-	-	-	68.7	4.6	36.9	29.6	22.3	-	-	-
	72	65.8	4.1	46.1	38.8	31.5	24.2	-	-	62.9	4.5	44.9	37.7	30.4	23.1	-	-
	67	58.6	4.0	54.0	46.7	39.4	32.1	24.8	-	57.1	4.5	53.0	45.7	38.4	31.1	23.9	-
	62	52.7	4.0	52.7	52.7	47.1	39.8	32.5	25.3	52.2	4.4	52.2	52.2	46.1	38.8	31.5	24.2
	57	54.2	3.8	54.2	54.2	51.9	44.6	37.3	30.0	52.6	4.3	52.6	52.6	50.1	42.8	35.5	28.2
1650	77	73.5	4.2	37.2	30.7	22.6	-	-	-	69.1	4.7	38.5	30.4	22.3	-	-	-
	72	66.3	4.2	46.3	38.1	30.0	21.9	-	-	63.3	4.6	46.6	38.5	30.4	22.3	-	-
	67	59.0	4.1	55.4	45.6	37.5	29.4	21.2	-	57.4	4.6	54.7	46.6	38.5	30.4	22.3	-
	62	53.1	4.1	53.1	53.1	44.8	36.7	28.6	20.5	52.5	4.5	52.5	52.5	46.1	38.0	29.9	21.8
	57	54.6	4.0	54.6	54.6	50.4	42.3	34.2	26.0	52.9	4.4	52.9	52.9	50.2	42.0	33.9	25.8
1800	77	74.0	4.3	36.1	30.5	21.5	-	-	-	69.5	4.8	40.2	31.3	22.3	-	-	-
	72	66.7	4.3	46.4	37.5	28.5	19.6	-	-	63.6	4.7	48.3	39.4	30.4	21.5	-	-
	67	59.4	4.3	56.8	44.5	35.6	26.6	17.7	-	57.7	4.7	56.4	47.5	38.5	29.6	20.6	-
	62	53.5	4.2	53.5	53.5	42.6	33.6	24.7	15.7	52.8	4.6	52.8	52.8	46.2	37.2	28.3	19.4
	57	54.9	4.1	54.9	54.9	48.9	40.0	31.0	22.1	53.2	4.5	53.2	53.2	50.2	41.3	32.3	23.4
1950	77	74.5	5.0	45.1	34.2	24.7	-	-	-	69.9	5.1	47.1	33.9	24.5	-	-	-
	72	67.1	4.8	51.8	42.4	32.9	23.4	-	-	64.0	5.0	52.3	42.8	33.4	23.9	-	-
	67	59.8	4.6	58.5	50.5	41.1	31.6	22.1	-	58.1	5.0	57.4	51.7	42.2	32.8	23.3	-
	62	53.8	4.2	53.8	53.8	48.4	38.9	29.4	20.0	53.1	4.7	53.1	53.1	49.8	40.3	30.9	21.4
	57	55.3	4.0	55.3	55.3	52.3	42.8	33.4	23.9	53.5	4.6	53.5	53.5	52.0	42.6	33.1	23.7
2100	72	67.6	5.3	57.2	47.2	37.2	27.3	-	-	64.4	5.3	56.2	46.3	36.3	26.3	-	-
	67	60.2	4.9	60.2	56.5	46.5	36.5	26.6	-	58.4	5.3	58.4	55.9	45.9	36.0	26.0	-
	62	54.2	4.1	54.2	54.2	44.2	34.2	24.2	-	53.4	4.8	53.4	53.4	43.4	33.4	23.4	-
	57	55.7	3.9	55.7	55.7	45.7	35.7	25.7	-	53.9	4.7	53.9	53.9	43.9	33.9	23.9	-
			95°F							105°F							
1500		64.4	5.1	35.5	28.2	20.9	-	-	-	61.2	5.7	34.5	27.2	19.9	-	-	-
		60.0	5.0	43.8	36.5	29.2	21.9	-	-	57.0	5.6	42.7	35.4	28.1	20.8	-	-
		55.5	5.0	52.1	44.8	37.5	30.2	22.9	-	52.8	5.5	50.8	43.5	36.2	28.9	21.6	-
		51.6	4.8	51.6	51.6	45.0	37.7	30.4	23.2	49.0	5.4	49.0	49.0	43.7	36.5	29.2	21.9
		51.0	4.8	51.0	51.0	48.3	41.0	33.7	26.4	48.8	5.3	48.8	48.8	46.0	38.7	31.5	24.2
1650		64.8	5.2	39.9	30.2	22.0	-	-	-	61.4	5.8	39.4	28.8	20.7	-	-	-
		60.3	5.1	47.0	38.9	30.8	22.6	-	-	57.3	5.7	45.8	37.7	29.6	21.5	-	-
		55.8	5.0	54.1	47.6	39.5	31.4	23.3	-	53.2	5.6	52.2	46.6	38.5	30.3	22.2	-
		51.8	4.9	51.8	51.8	47.4	39.3	31.2	23.1	49.4	5.5	49.4	49.4	46.2	38.1	29.9	21.8
		51.3	4.9	51.3	51.3	49.9	41.8	33.7	25.6	49.2	5.4	49.2	49.2	47.8	39.7	31.6	23.4
1800		65.1	5.3	44.3	32.1	23.1	-	-	-	61.6	5.8	44.3	30.4	21.4	-	-	-
		60.6	5.2	50.2	41.3	32.3	23.4	-	-	57.6	5.8	49.0	40.0	31.1	22.1	-	-
		56.1	5.1	56.1	50.4	41.5	32.5	23.6	-	53.6	5.7	53.6	49.6	40.7	31.7	22.8	-
		52.1	5.0	52.1	52.1	49.8	40.9	31.9	23.0	49.7	5.6	49.7	49.7	48.6	39.7	30.7	21.8
		51.5	4.9	51.5	51.5	42.6	33.6	24.7	-	49.5	5.5	49.5	49.5	49.5	40.6	31.7	22.7
1950		65.4	5.2	49.1	33.7	24.2	-	-	-	61.8	5.8	49.1	32.5	22.3	-	-	-
		60.9	5.3	52.7	43.3	33.8	24.4	-	-	57.9	5.8	51.5	42.1	32.6	23.2	-	-
		56.3	5.4	56.3	52.9	43.4	34.0	24.5	-	54.0	5.9	54.0	51.7	42.9	33.4	24.0	-
		52.3	5.3	52.3	52.3	51.2	41.7	32.3	22.8	50.1	5.7	50.1	50.1	49.5	40.1	30.6	21.1
		51.8	5.2	51.8	51.8	51.8	42.3	32.9	23.4	49.9	5.7	49.9	49.9	49.9	40.4	31.0	21.5
2100		61.2	5.3	55.3	45.3	35.3	25.4	-	-	58.2	5.9	54.1	44.1	34.2	24.2	-	-
		56.6	5.6	56.6	55.3	45.4	35.4	25.4	-	54.3	6.2	54.3	53.7	45.1	35.2	25.2	-
		52.6	5.5	52.6	52.6	52.6	42.6	32.6	22.7	50.4	5.9	50.4	50.4	50.4	40.5	30.5	20.5
		52.0	5.4	52.0	52.0	52.0	42.1	32.1	22.1	50.3	5.8	50.3	50.3	50.3	40.3	30.3	20.3

TABLE 9: DNP060 COOLING CAPACITIES - 5 TON (Continued)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Net Capacity ¹ (MBh)	Total Input Power (kW) ²	Sensible Capacity (MBh)						Net Capacity ¹ (MBh)	Total Input Power (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
		115°F							125°F								
1500	77	58.0	6.2	33.5	26.3	19.0	-	-	-	54.8	6.8	32.6	25.3	18.0	-	-	-
	72	54.1	6.1	41.5	34.3	27.0	19.7	-	-	51.1	6.7	40.4	33.1	25.8	18.5	-	-
	67	50.1	6.0	49.5	42.3	35.0	27.7	20.4	-	47.5	6.6	48.3	41.0	33.7	26.4	19.1	-
	62	46.5	6.0	46.5	46.5	42.5	35.2	27.9	20.6	44.0	6.5	44.0	44.0	41.2	33.9	26.6	19.3
	57	46.7	5.9	46.7	46.7	43.8	36.5	29.2	21.9	44.5	6.4	44.5	44.5	41.5	34.2	26.9	19.6
1650	77	58.1	6.3	38.9	27.5	19.4	-	-	-	54.7	6.9	38.4	26.1	18.0	-	-	-
	72	54.3	6.2	44.6	36.5	28.4	20.3	-	-	51.4	6.8	43.4	35.3	27.2	19.1	-	-
	67	50.6	6.1	50.3	45.5	37.4	29.3	21.2	-	48.0	6.7	48.5	44.5	36.4	28.3	20.2	-
	62	46.9	6.0	46.9	46.9	44.9	36.8	28.7	20.6	44.5	6.6	44.5	44.5	43.7	35.6	27.5	19.3
	57	47.1	6.0	47.1	47.1	45.7	37.5	29.4	21.3	45.0	6.5	45.0	45.0	43.5	35.4	27.3	19.2
1800	77	58.1	6.4	44.3	28.7	19.8	-	-	-	54.6	7.0	44.3	27.0	18.1	-	-	-
	72	54.6	6.3	47.7	38.8	29.8	20.9	-	-	51.6	6.9	46.5	37.5	28.6	19.6	-	-
	67	51.1	6.2	51.1	48.8	39.9	31.0	22.0	-	48.6	6.8	48.6	48.1	39.1	30.2	21.2	-
	62	47.4	6.1	47.4	47.4	47.4	38.4	29.5	20.6	45.0	6.7	45.0	45.0	46.2	37.2	28.3	19.4
	57	47.6	6.1	47.6	47.6	47.6	38.6	29.7	20.7	45.6	6.6	45.6	45.6	45.6	36.7	27.7	18.8
1950	77	58.2	6.4	49.1	31.3	20.4	-	-	-	54.6	7.0	49.0	30.1	18.5	-	-	-
	72	54.9	6.4	50.3	40.9	31.4	21.9	-	-	51.9	7.0	49.1	39.7	30.2	20.7	-	-
	67	51.6	6.5	51.6	50.5	42.4	32.9	23.5	-	49.2	7.1	49.2	49.2	41.9	32.4	23.0	-
	62	47.8	6.2	47.8	47.8	47.8	38.4	28.9	19.5	45.6	6.7	45.6	45.6	46.2	36.7	27.2	17.8
	57	48.0	6.1	48.0	48.0	48.0	38.6	29.1	19.6	46.1	6.6	46.1	46.1	46.1	36.7	27.2	17.8
2100	72	55.2	6.5	52.9	43.0	33.0	23.0	-	-	52.2	7.1	51.8	41.8	31.8	21.8	-	-
	67	52.1	6.8	52.1	52.1	44.9	34.9	25.0	-	49.8	7.3	49.8	50.4	44.7	34.7	24.7	-
	62	48.3	6.3	48.3	48.3	48.3	38.3	28.3	18.4	46.1	6.7	46.1	46.1	46.1	36.2	26.2	16.2
	57	48.5	6.2	48.5	48.5	48.5	38.5	28.5	18.5	46.7	6.6	46.7	46.7	46.7	36.7	26.7	16.8

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

TABLE 10: DNP024 SUPPLY AIR BLOWER PERFORMANCE ¹

MODEL # DNP (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
SIDE SUPPLY AIR BLOWER PERFORMANCE																							
024	LOW	998	372	906	333	813	294	721	255	651	241	-	-	-	-	-	-	-	-	-	-	-	
	MED	-	-	-	-	999	353	944	338	865	319	785	299	706	280	-	-	-	-	-	-	-	
	HI	-	-	-	-	-	-	-	-	-	-	-	-	929	491	809	473	688	454	-	-	-	
BOTTOM SUPPLY AIR BLOWER PERFORMANCE																							
024	LOW	898	335	815	300	732	265	649	230	586	217	-	-	-	-	-	-	-	-	-	-	-	
	MED	-	-	-	-	899	318	850	304	778	287	707	269	635	252	-	-	-	-	-	-	-	
	HI	-	-	-	-	-	-	-	-	-	-	-	-	836	442	728	425	620	409	-	-	-	

¹ Above data includes allowances for a dry evaporator coil, gas heat exchanger and no filters. For additional pressure drops, refer to Table 13 and 14.

TABLE 11: DNP030 THRU DNP060 SIDE SUPPLY AIR BLOWER PERFORMANCE

Model No. DNP	Motor Speed Setting	External Static Pressure (Inches Water Gauge)														
		0.2			0.4			0.6			0.8			1.0		
		CFM	W	RPM	CFM	W	RPM	CFM	W	RPM	CFM	W	RPM	CFM	W	RPM
030	Low (1)	827	163	825	759	187	919	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	988	251	914	916	269	992	831	282	1067	--	--	--	--	--	--
	Medium (3)	1113	322	984	1035	333	1047	941	337	1108	818	329	1162	--	--	--
	Medium/High (4)	1233	394	1050	1145	394	1099	1040	388	1145	901	367	1184	--	--	--
	High (5)	--	--	--	--	--	--	1078	425	1164	867	353	1173	--	--	--
036	Low (1)	1032	236	789	921	258	853	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	1185	317	859	1089	347	924	985	373	991	--	--	--	--	--	--
	Medium (3)	1304	395	913	1214	424	978	1114	448	1040	994	462	1098	--	--	--
	Medium/High (4)	1445	515	976	1357	532	1041	1252	542	1097	1117	537	1140	--	--	--
	High (5)	--	--	--	1498	708	1108	1363	665	1157	1179	599	1178	--	--	--
042	Low (1)	1223	230	679	1056	264	773	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	1285	258	696	1116	290	790	--	--	--	--	--	--	--	--	--
	Medium (3)	1641	404	751	1418	460	872	1288	492	942	1187	518	997	1101	540	1044
	Medium/High (4)	--	--	--	1535	547	904	1398	582	976	1292	606	1030	1203	624	1074
	High (5)	--	--	--	1665	664	940	1514	701	1015	1399	720	1067	1304	729	1106
048	Low (1)	1378	310	749	1209	343	840	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	1414	331	763	1253	366	851	--	--	--	--	--	--	--	--	--
	Medium (3)	1713	544	872	1604	587	940	1484	624	1005	1343	653	1067	--	--	--
	Medium/High (4)	1882	703	931	1786	740	987	1671	769	1044	1522	783	1099	1231	717	1142
	High (5)	--	--	--	1972	946	1037	1851	949	1078	1689	927	1118	1306	759	1142
060	Low (1)	1556	416	802	--	--	--	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	1648	489	843	1522	529	917	--	--	--	--	--	--	--	--	--
	Medium (3)	1767	595	892	1664	633	954	1546	668	1015	--	--	--	--	--	--
	Medium/High (4)	1913	739	946	1819	769	996	1702	791	1049	1550	800	1102	--	--	--
	High (5)	2103	952	1007	1990	957	1047	1855	948	1086	1674	912	1122	--	--	--

TABLE 12: DNP030 THRU DNP060 BOTTOM SUPPLY AIR BLOWER PERFORMANCE

Model No. DNP	Motor Speed Setting	External Static Pressure (Inches Water Gauge)														
		0.2			0.4			0.6			0.8			1.0		
		CFM	W	RPM	CFM	W	RPM	CFM	W	RPM	CFM	W	RPM	CFM	W	RPM
030	Low (1)	827	163	825	759	187	919	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	988	251	914	916	269	992	831	282	1067	--	--	--	--	--	--
	Medium (3)	1113	322	984	1035	333	1047	941	337	1108	818	329	1162	--	--	--
	Medium/High (4)	1233	394	1050	1145	394	1099	1040	388	1145	901	367	1184	--	--	--
	High (5)	--	--	--	--	--	--	1078	425	1164	867	353	1173	--	--	--
036	Low (1)	1032	236	789	921	258	853	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	1185	317	859	1089	347	924	985	373	991	--	--	--	--	--	--
	Medium (3)	1304	395	913	1214	424	978	1114	448	1040	994	462	1098	--	--	--
	Medium/High (4)	1445	515	976	1357	532	1041	1252	542	1097	1117	537	1140	--	--	--
	High (5)	--	--	--	1498	708	1108	1363	665	1157	1179	599	1178	--	--	--
042	Low (1)	1223	230	679	1056	264	773	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	1285	258	696	1116	290	790	--	--	--	--	--	--	--	--	--
	Medium (3)	1641	404	751	1418	460	872	1288	492	942	1187	518	997	1101	540	1044
	Medium/High (4)	--	--	--	1535	547	904	1398	582	976	1292	606	1030	1203	624	1074
	High (5)	--	--	--	1665	664	940	1514	701	1015	1399	720	1067	1304	729	1106
048	Low (1)	1378	310	749	1209	343	840	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	1414	331	763	1253	366	851	--	--	--	--	--	--	--	--	--
	Medium (3)	1713	544	872	1604	587	940	1484	624	1005	1343	653	1067	--	--	--
	Medium/High (4)	1882	703	931	1786	740	987	1671	769	1044	1522	783	1099	1231	717	1142
	High (5)	--	--	--	1972	946	1037	1851	949	1078	1689	927	1118	1306	759	1142
060	Low (1)	1556	416	802	--	--	--	--	--	--	--	--	--	--	--	--
	Low/Medium (2)	1648	489	843	1522	529	917	--	--	--	--	--	--	--	--	--
	Medium (3)	1767	595	892	1664	633	954	1546	668	1015	--	--	--	--	--	--
	Medium/High (4)	1913	739	946	1819	769	996	1702	791	1049	1550	800	1102	--	--	--
	High (5)	2103	952	1007	1990	957	1047	1855	948	1086	1674	912	1122	--	--	--

TABLE 13: ADDITIONAL STATIC PRESSURE RESISTANCE - 2, 2-1/2, 3 TON

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

TABLE 14: ADDITIONAL STATIC PRESSURE RESISTANCE - 3-1/2, 4 AND 5 TON

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 ¹	.02	.02	.02	.03	.03	.04	.04	.04	.05	.05	
FILTER FRAME KIT	.04	.04	.05	.05	.06	.07	.08	.09	.10	.11	

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

NOTE:
HEAT ANTICIPATOR
SHOULD BE SET AT 0.35
AMPS FOR ALL MODELS.

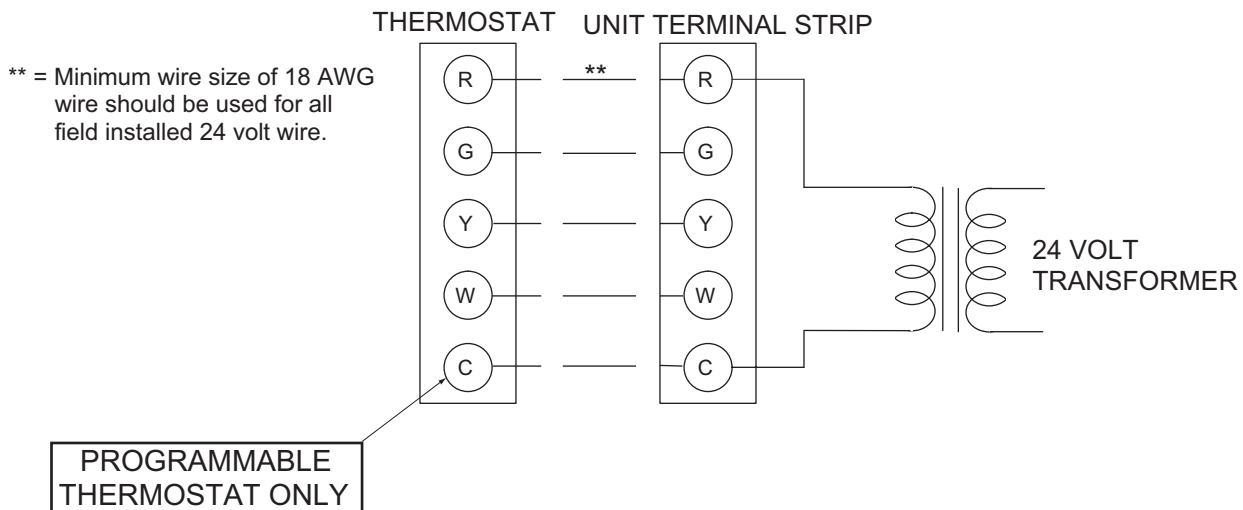


FIGURE 3 - TYPICAL FIELD CONTROL WIRING DIAGRAM SINGLE STAGE THERMOSTAT - SINGLE STAGE GAS HEAT

NOTE:
HEAT ANTICIPATOR
SHOULD BE SET AT 0.35
AMPS FOR ALL MODELS.

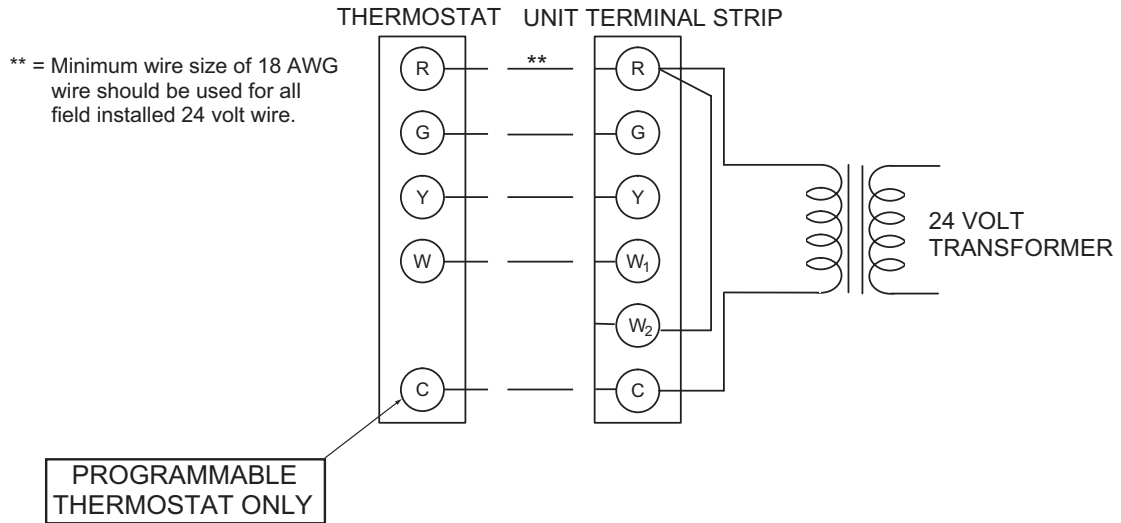


FIGURE 4 - TYPICAL FIELD CONTROL WIRING DIAGRAM SINGLE STAGE THERMOSTAT - TWO STAGE GAS HEAT

NOTE:
HEAT ANTICIPATOR
SHOULD BE SET AT 0.35
AMPS FOR ALL MODELS.

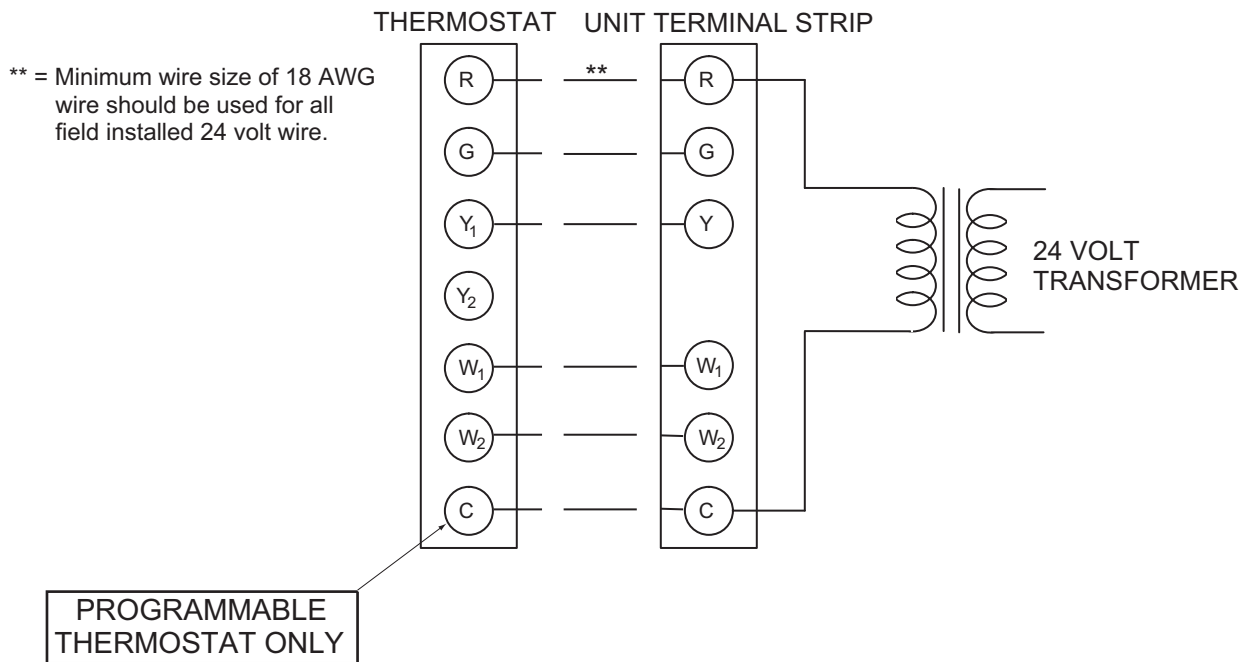


FIGURE 5 - TYPICAL FIELD CONTROL WIRING DIAGRAM TWO STAGE THERMOSTAT - TWO STAGE GAS HEAT

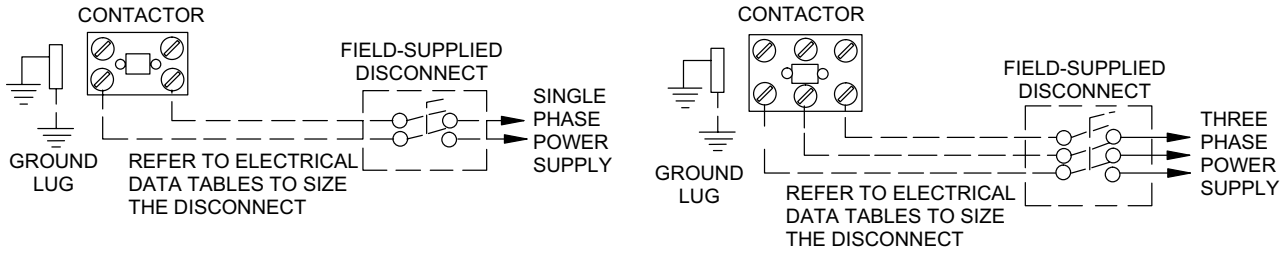


FIGURE 6 - POWER WIRING FIELD DIAGRAM

TABLE 15: ELECTRICAL DATA

MODEL DNP	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							
024	208/230-1-60	187	253	10.2	54	1.2	2.6	16.6	20	20	0.96	40
030	208/230-1-60	187	253	10.9	68	1.2	6.0	20.8	25	25	0.96	40
030	208/230-3-60	187	253	7.7	55	1.2	6.0	16.8	20	20	0.96	75
030	460-3-60	432	504	3.8	27	0.6	3.0	8.4	15	15	0.96	75
036	208/230-1-60	187	253	15.4	88	1.2	6.0	26.5	35	35	0.96	40
036	208/230-3-60	187	253	10.2	77	1.2	6.0	20	25	25	0.96	75
036	460-3-60	432	504	5.1	39	0.8	3.0	10.1	15	15	0.96	75
036	575-3-60	540	630	4.2	31	0.6	2.4	8.3	15	15	0.96	75
042	208/230-1-60	187	253	16.2	86	1.2	7.6	29.1	35	35	0.96	40
042	208/230-3-60	187	253	11.5	88	1.2	7.6	23.2	30	30	0.96	75
042	460-3-60	432	504	5.8	42	0.8	3.8	11.8	15	15	0.96	75
042	575-3-60	540	630	5.1	36	0.6	3.0	10.0	15	15	0.96	75
048	208/230-1-60	187	253	23.4	126	1.7	7.6	38.6	50	50	0.96	40
048	208/230-3-60	187	253	12.9	93	1.7	7.6	25.4	35	35	0.96	75
048	460-3-60	432	504	6.4	46.5	1.0	3.8	12.8	15	15	0.96	75
048	575-3-60	540	630	5.1	37	0.8	3.0	10.2	15	15	0.96	75
060	208/230-1-60	187	253	25.0	150	2.8	7.6	41.7	50	50	0.96	40
060	208/230-3-60	187	253	17.3	123	2.8	7.6	32.0	40	40	0.96	75
060	460-3-60	432	504	8.4	70	1.4	3.8	15.7	20	20	0.96	75
060	575-3-60	540	630	7.0	53	1.2	3.0	13.0	15	15	0.96	75

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element, time delay type.

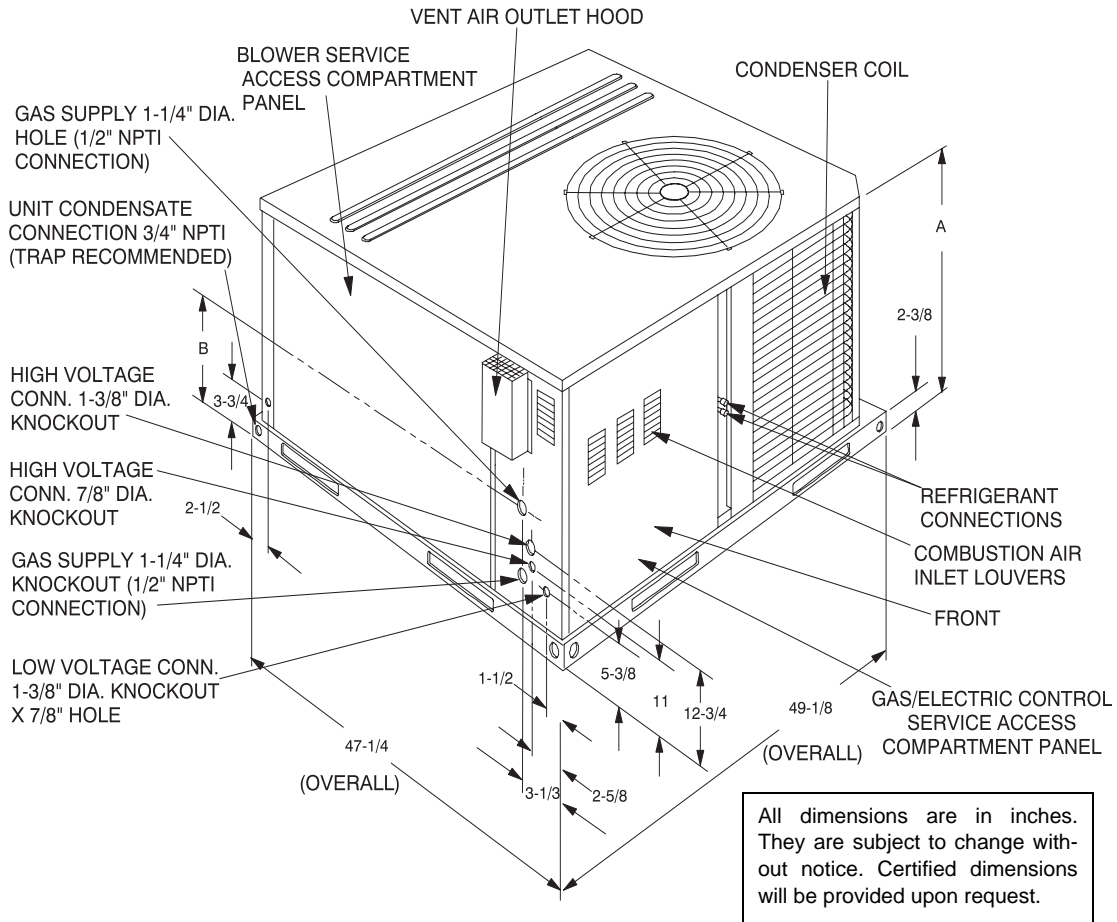


FIGURE 7 - UNIT DIMENSIONS - FRONT

TABLE 16: UNIT DIMENSIONS FRONT

UNIT SIZE	DIMENSION	
	"A"	"B"
024, 030, 036	33-1/2	18-1/4
042, 048, 060	41-1/2	23-1/8

TABLE 17: UNIT MINIMUM CLEARANCES^{1 2}

CLEARANCES	
FRONT	36"
BACK	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.

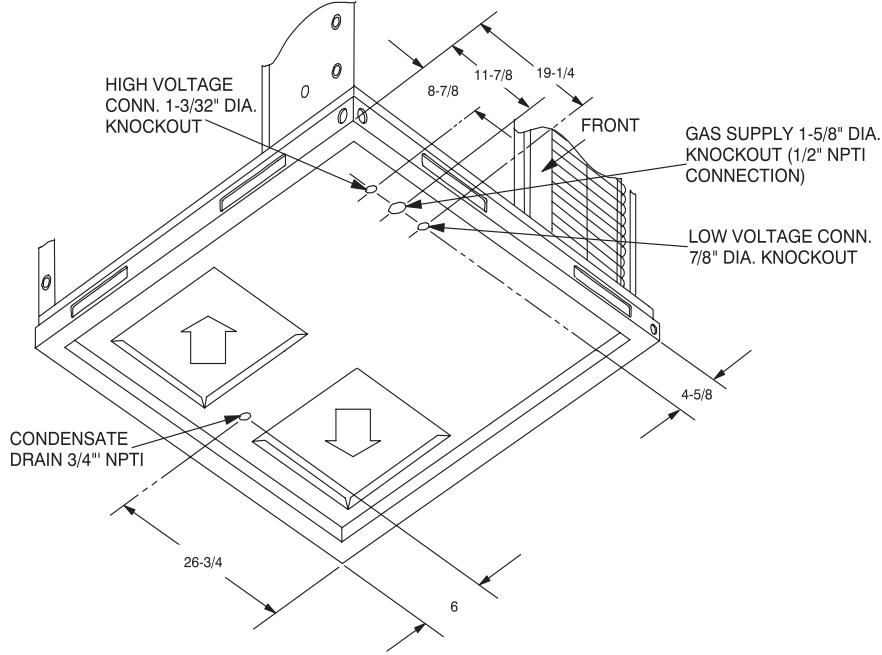


FIGURE 8 - UNIT DIMENSIONS - FRONT & BOTTOM

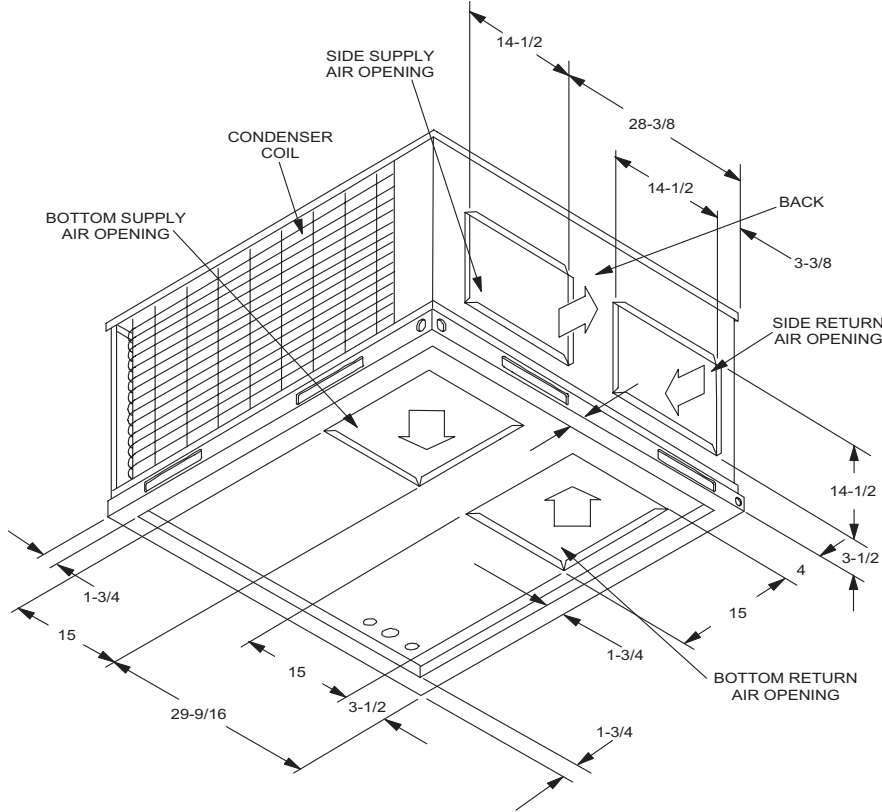


FIGURE 9 - UNIT DIMENSIONS - BACK & BOTTOM

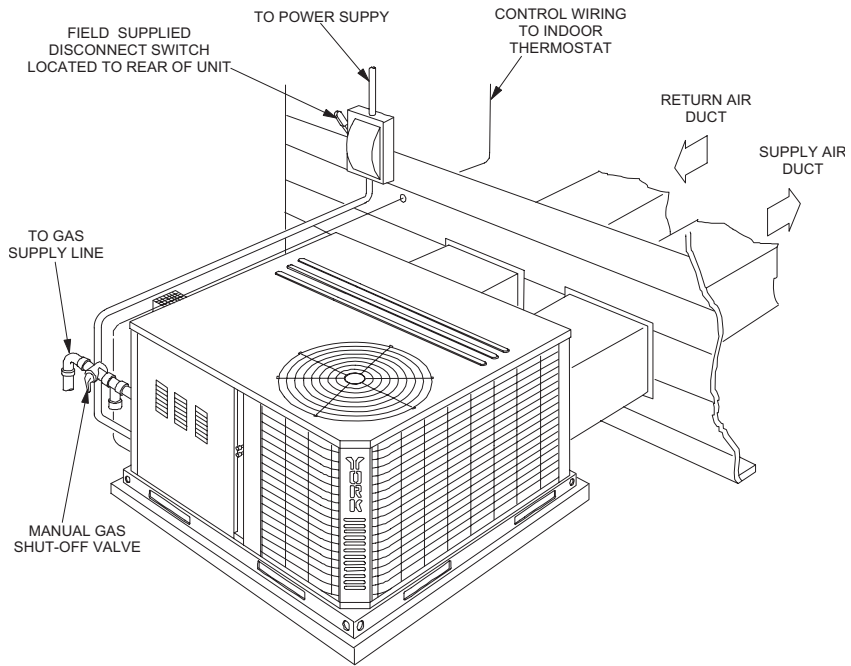


FIGURE 10 - TYPICAL SLAB ON GROUND INSTALLATION

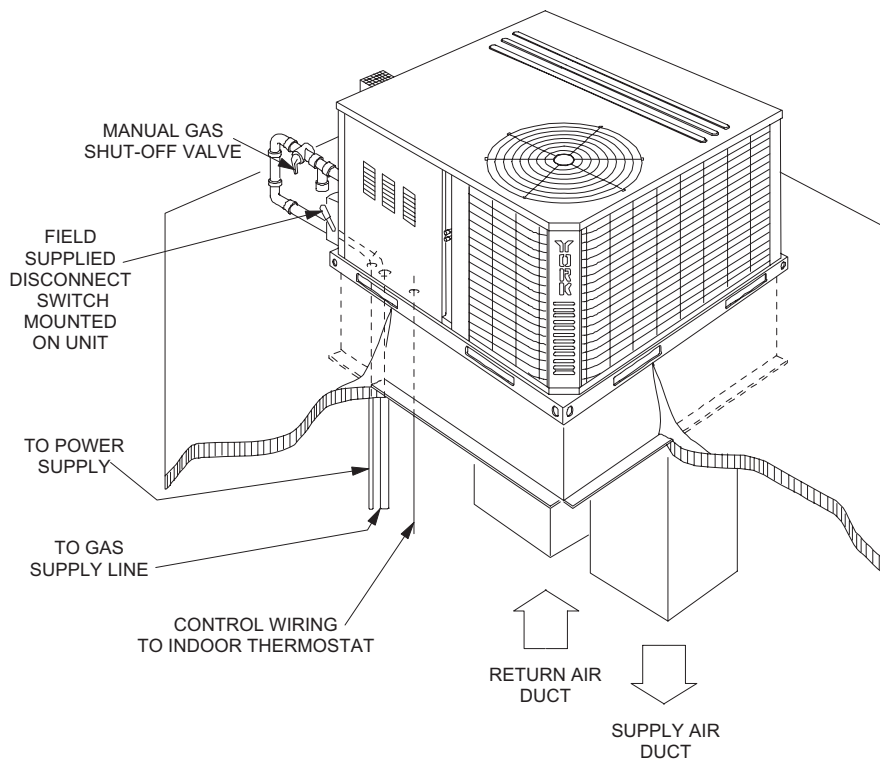


FIGURE 11 - TYPICAL ROOF CURB INSTALLATION

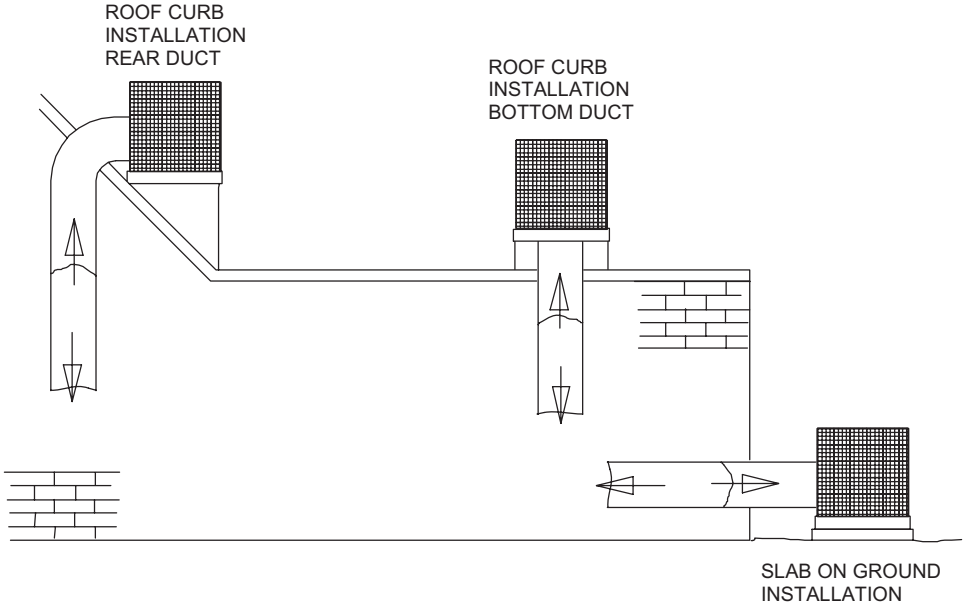


FIGURE 12 - TYPICAL DUCT APPLICATIONS

TABLE 18: 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"		
024, 030, 036	400	395	100	96	98	101	40	8" - 70 14" - 75
042, 048, 060	475	470	133	130	102	104		

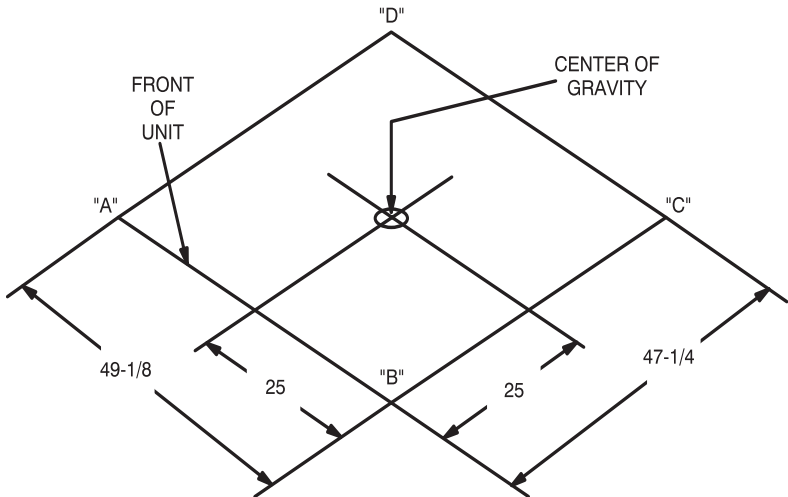


FIGURE 13 - UNIT CENTER OF GRAVITY

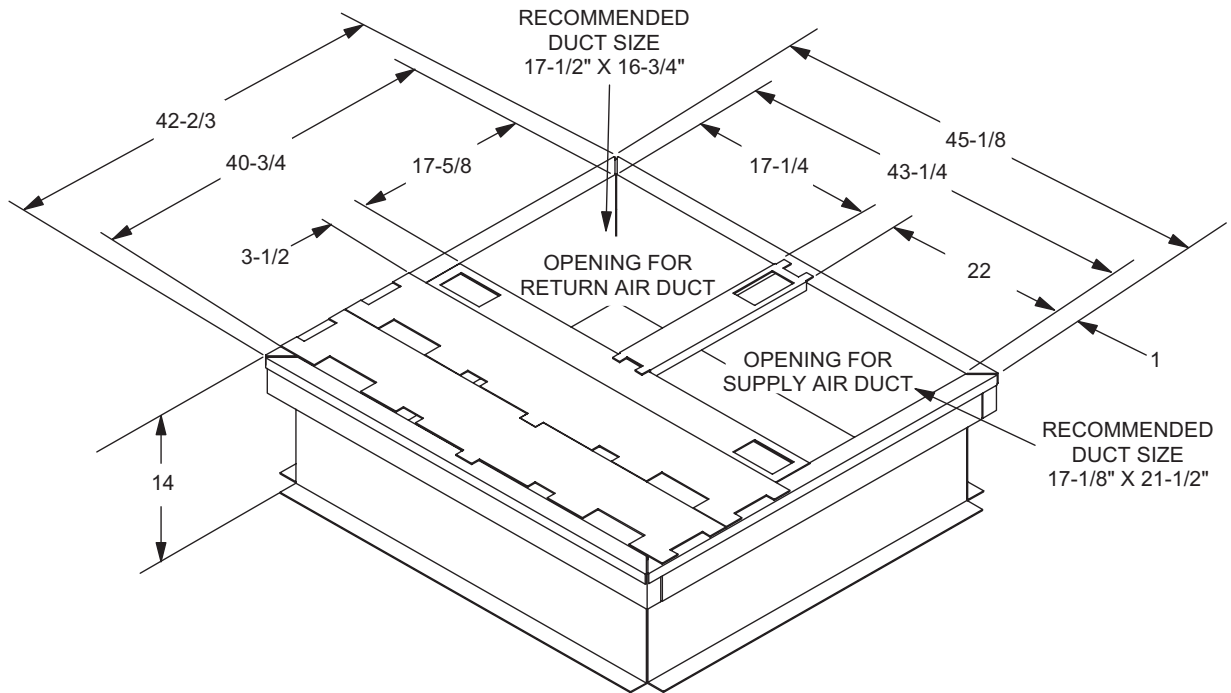


FIGURE 14 - ROOF CURB DIMENSIONS¹

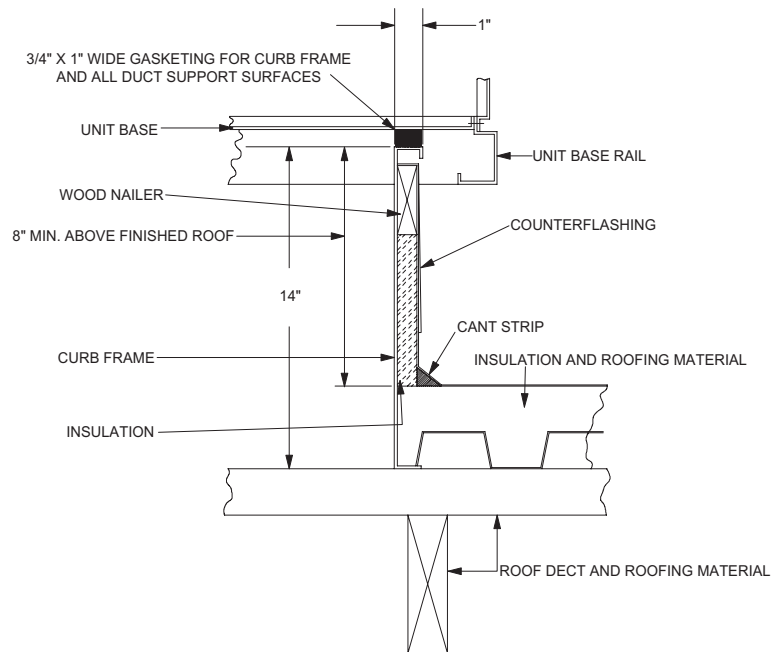


FIGURE 15 - ROOF CURB CROSS SECTION

1. 8" Roof curb also available

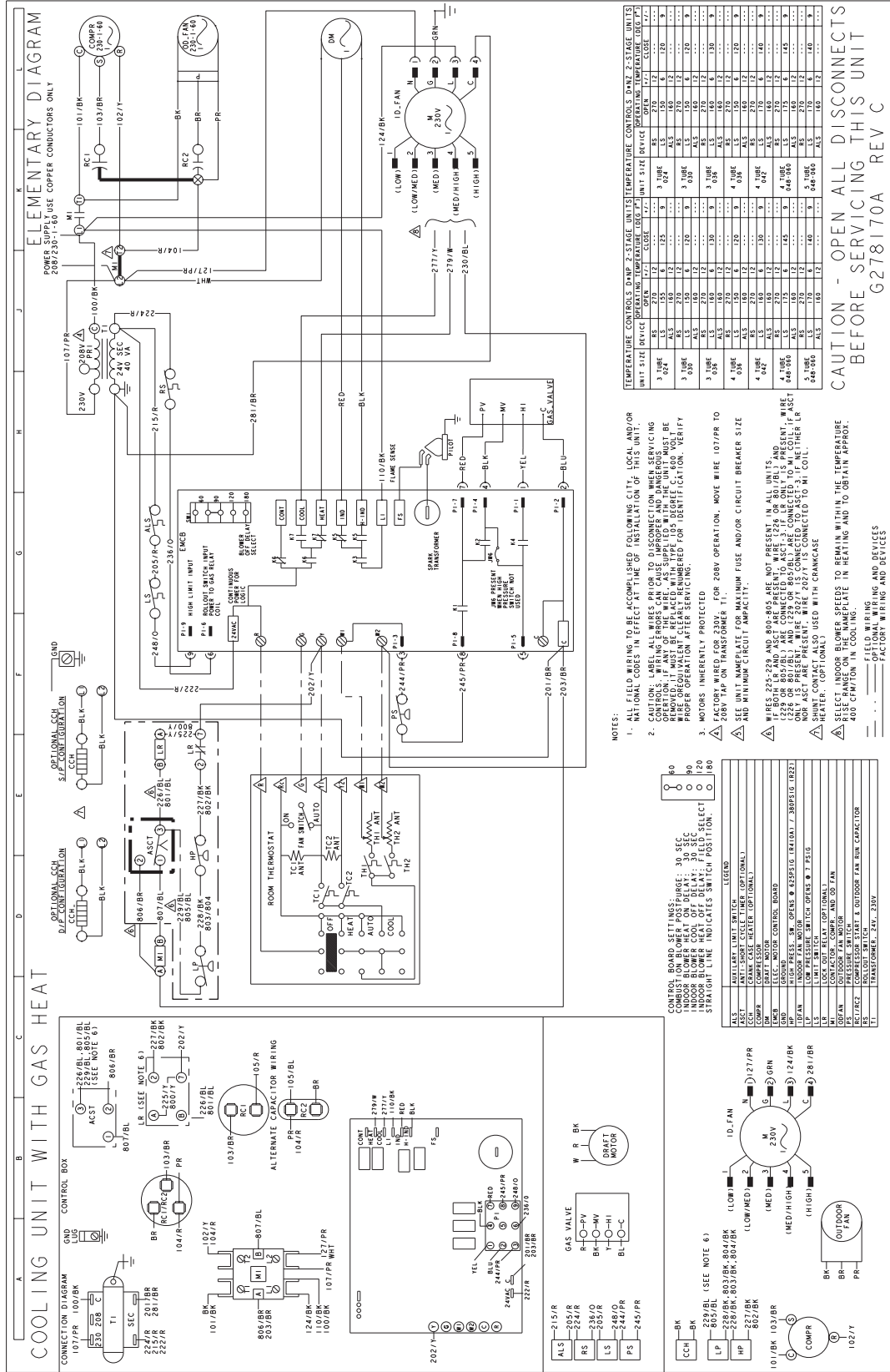


FIGURE 19 - TYPICAL WIRING DIAGRAM D*NP 030-048 TWO STAGE GAS HEAT (208/230-1-60 POWER SUPPLY)

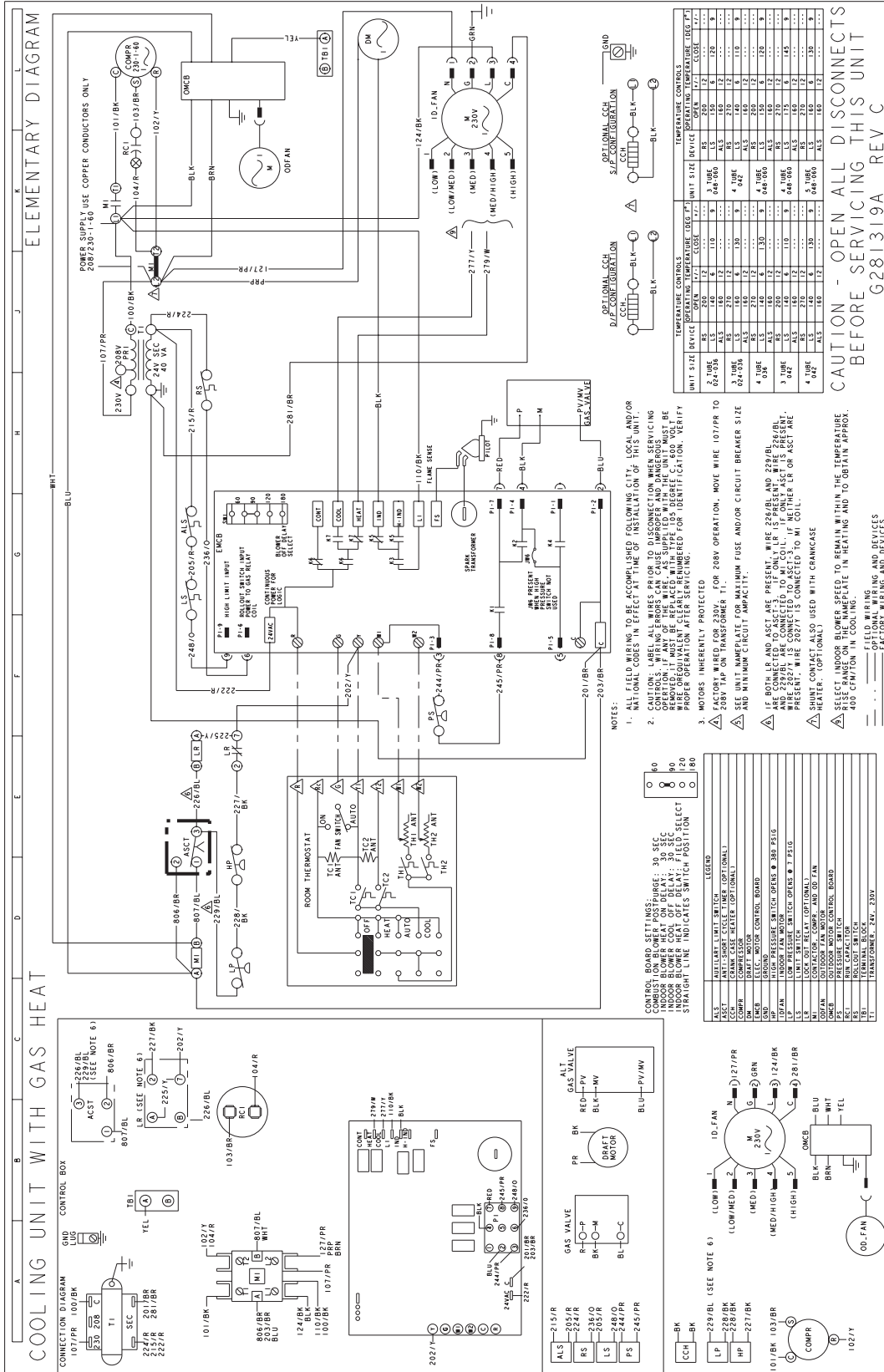


FIGURE 20 - TYPICAL WIRING DIAGRAM D*NP 060 SINGLE STAGE (208/230-1-60 POWER SUPPLY)

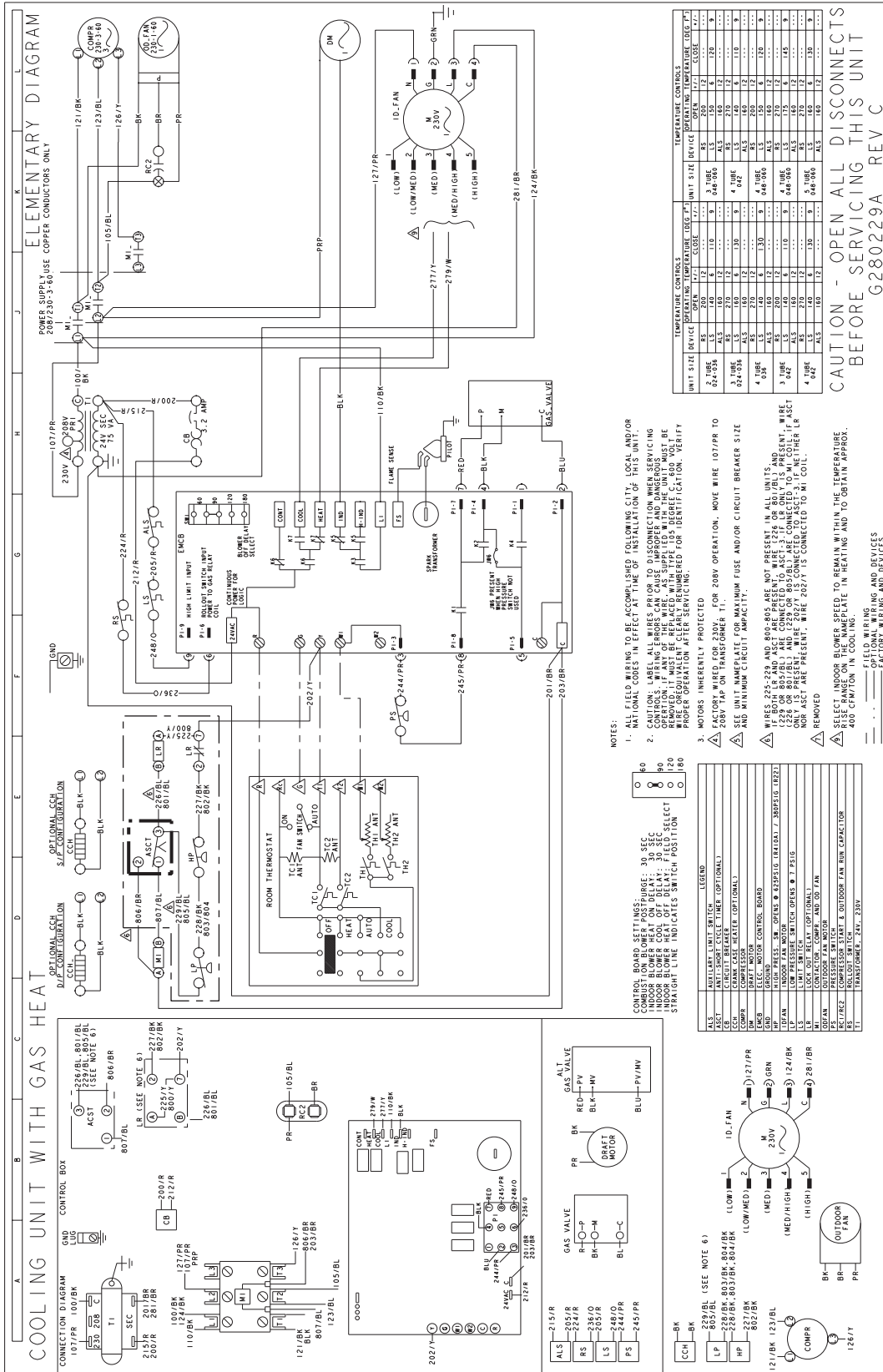


FIGURE 22 - TYPICAL WIRING DIAGRAM D*NP 030-048 SINGLE STAGE GAS HEAT (208/230-3-60 POWER SUPPLY)

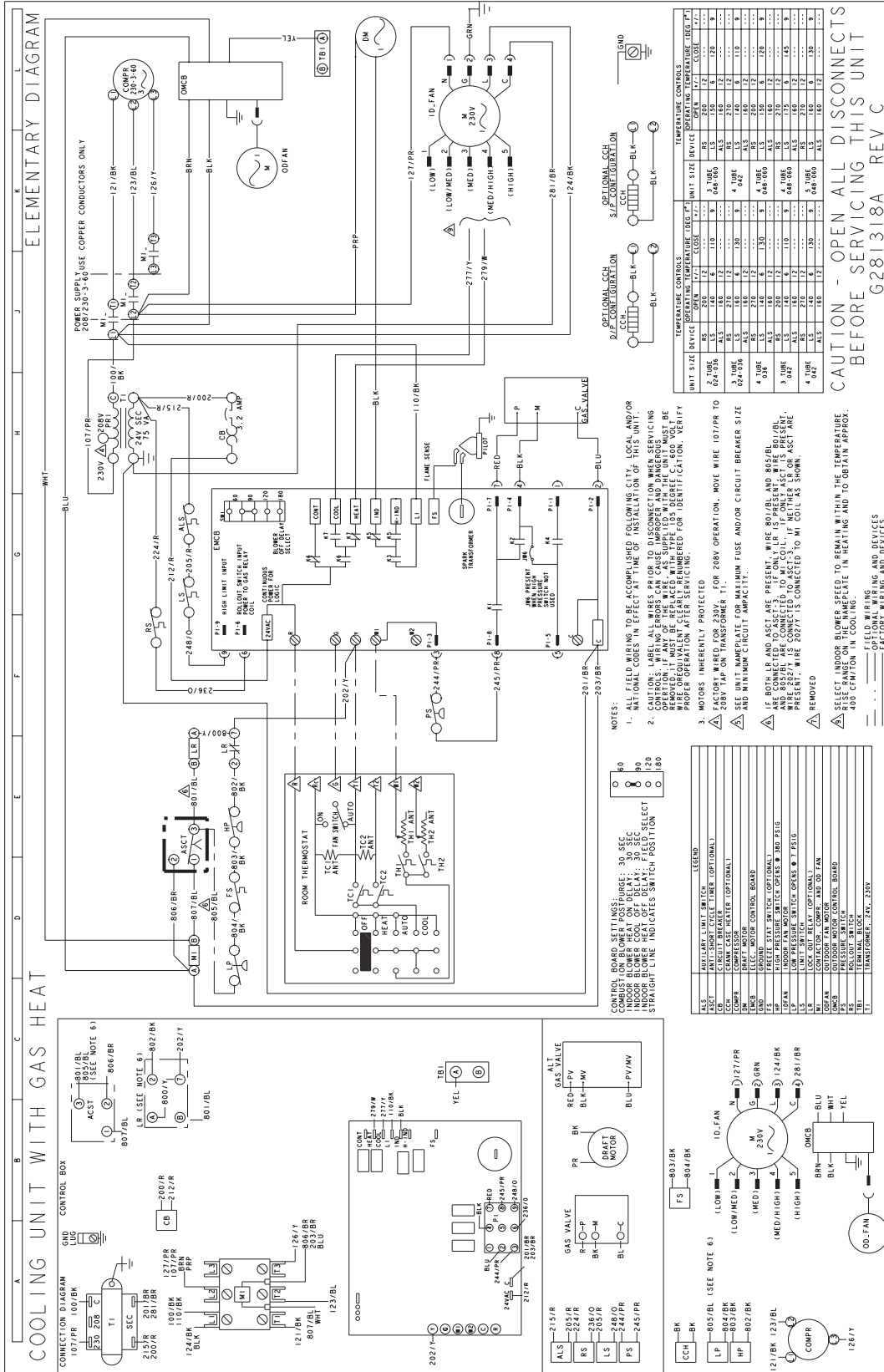


FIGURE 24 - TYPICAL WIRING DIAGRAM D*NP 060 SINGLE STAGE GAS HEAT (208/230-3-60 POWER SUPPLY)

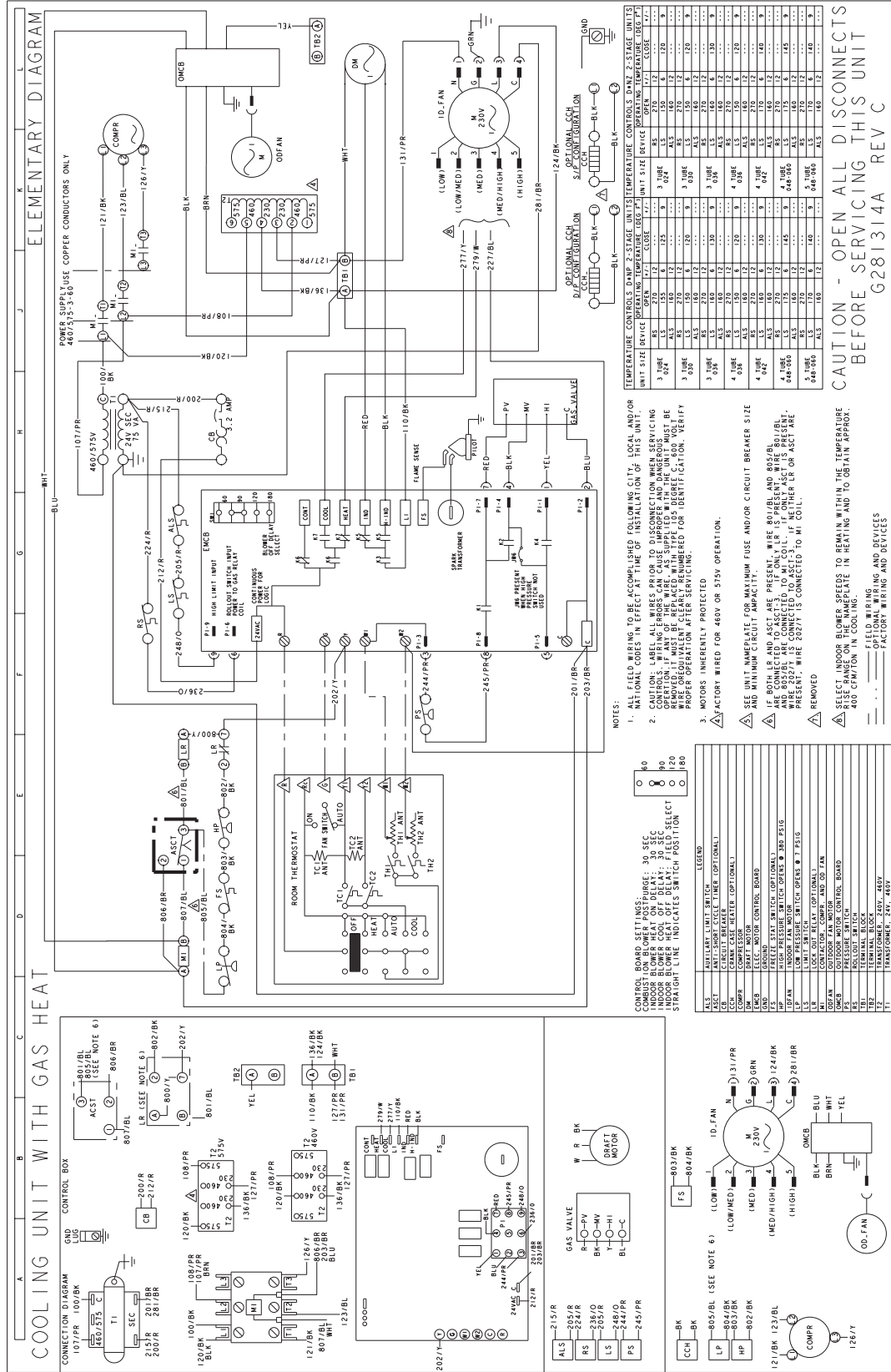



FIGURE 29 - TYPICAL WIRING DIAGRAM D*NP 060 TWO STAGE GAS HEAT (460/575-3-60 POWER SUPPLY)

**TYPICAL WIRING DIAGRAM NOTES
(SEE FIGURES 16 THRU 29)**

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 inherently protected.
4. Factory wired for 460 Volt operation.
5. See unit nameplate for maximum fuse size and/or circuit breaker size and minimum circuit ampacity.

6. If both LR and ASCT are present, wire 801/BL and 805/BL are connected to ASCT-3. If only LR is present wire 801/BL and 805/BL are connected to M1 coil. If only ASCT is present wire 202/Y is connected to ASCT-3. If neither LR or ASCT are present, wire 202/Y is connected to M1 coil as shown.
7. Removed.
8. 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.


Open all disconnects before servicing this unit.

LEGEND	
ALS	AUXILIARY LIMIT SWITCH
ASCT	ANTI-SHORT CYCLE TIMER (OPTIONAL)
CB	CIRCUIT BREAKER
CCH	CRANK CASE HEATER (OPTIONAL)
COMPR	COMPRESSOR
DM	DRAFT MOTOR
EMCB	ELEC, MOTOR CONTROL BOARD
GND	GROUND
FS	FREEZE STAT SWITCH (OPTIONAL)
HP	HIGH PRESSURE SWITCH OPENS @ 625 PSIG (R410A) / 380 PSIG (R22)
IDFAN	INDOOR FAN MOTOR
LP	LOW PRESSURE SWITCH OPENS @ 7 PSIG
LS	LIMIT SWITCH
LR	LOCK OUT RELAY (OPTIONAL)
M1	CONTACTOR, COMPR. AND OD FAN
ODFAN	OUTDOOR FAN MOTOR
PS	PRESSURE SWITCH
RC1 / RC2	COMPRESSOR START & OUTDOOR FAN RUN CAPACITOR
RS	ROLLOUT SWITCH
TB1	TERMINAL BLOCK
T1	TRANSFORMER, 24V, 240V
T2	TRANSFORMER, 240V, 460V

FIGURE 30 - TYPICAL WIRING DIAGRAM LEGEND

MECHANICAL SPECIFICATIONS

GENERAL

Units shall be manufactured by York International Unitary Products Group in an ISO 9001 certified facility. YORK's DNP 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 single or two stage gas-fired heaters have aluminized steel tubular heat exchangers and spark 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 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, 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 thermal expansion devices (TXV).
- b. Shall include filter/strainer to eliminate any foreign matter.

UNIT OPERATING CHARACTERISTICS

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

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