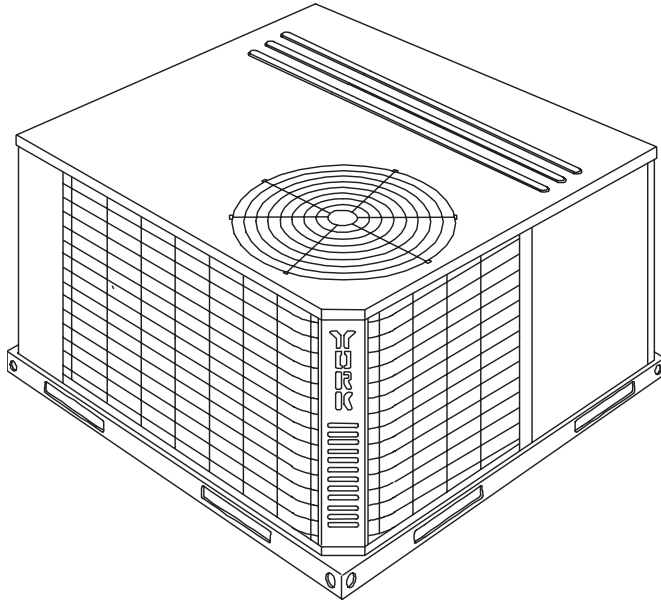




Champion® Series

SINGLE PACKAGE GAS/ELECTRIC AIR-COOLED AIR CONDITIONERS

**D1NA018 THRU 048
AND D2NA060
1-1/2 THRU 5 NOMINAL TONS
10 SEER / 80% AFUE**



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 and BENEFITS

OPERATING EFFICIENCY - All units provide high operating efficiencies and have a minimum AFUE of 80% and SEER of 10 or above. All efficiencies exceed legislated minimum levels.

ON SITE FLEXIBILITY - All model sizes share a common, compact design cabinet with 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 and needs to carry 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 installation. 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 tolerable during installation and is more

durable over time. The connection is rigidly mounted to assure proper fit and leak tight seal.

STANDARD FEATURES and BENEFITS - continued

DURABLE FINISH - With a heavy duty cabinet made of powder-painted, galvanized steel the neutral color blends into surrounding areas. The powered paint, provides a better paint to steel bond, which resists corrosion and rust creep. The special primer formulas and glossy earth tone finish insure less fading when exposed to sunlight and offers a more attractive on site appearance. This paint finish exceeds ASTM-B117 standards for 1000 hour 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 when 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 2 3/8 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 does not add 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 and personal after installation and provides protection during transit and installation.

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 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-thru 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 necessary to field alter units with natural gas/propane. 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. Kit also includes capability to relieve up to 25% air thru built-in barometric relief damper.

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.**

UPGRADE SAFETY PACKAGE - 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 protected grilles made of expanded aluminum grilles with full perimeter 1½ inch 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 return and unit mounted down shot return applications. Damper capable of providing 0% thru 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 15" square to 14" round.

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.

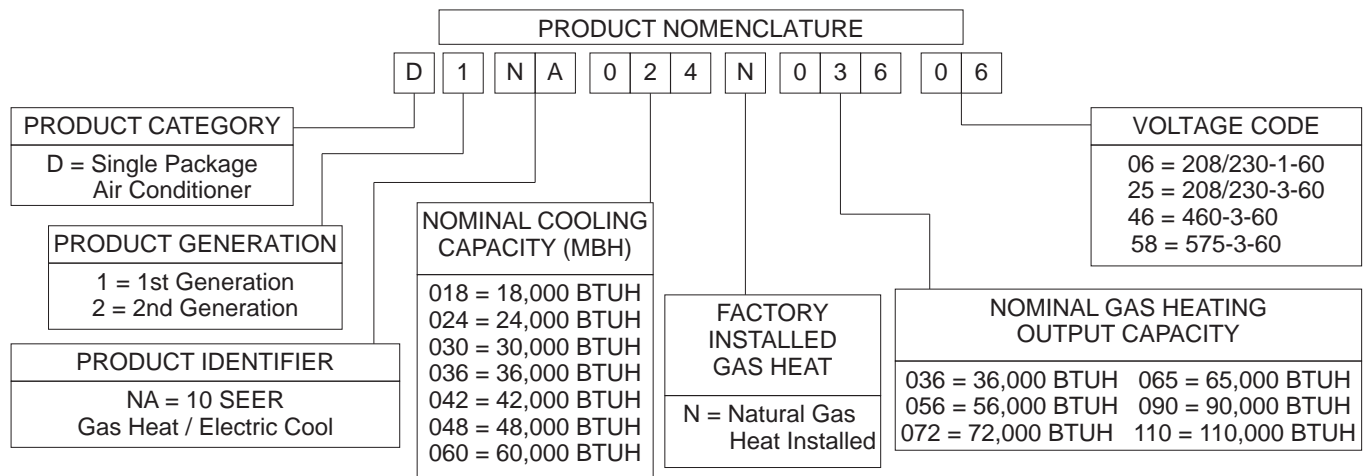
MANUAL OUTDOOR DAMPER - Provides 0% thru 50% outdoor air capability (field adjustable). Designed for duct mounted side return and unit mounted down shot return applications. Includes hood and screen assembly.

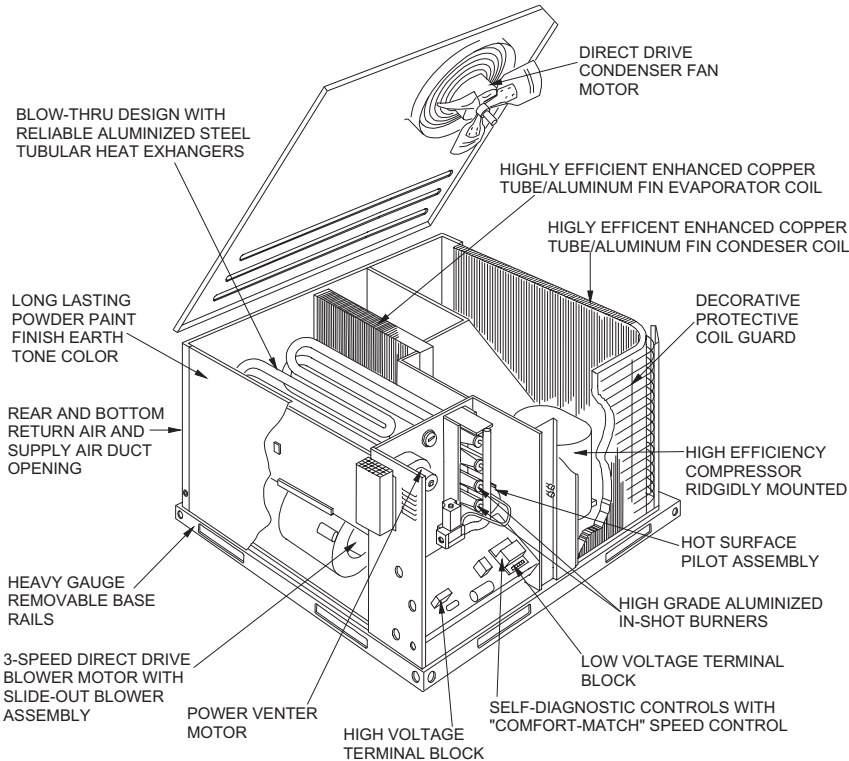
WALL THERMOSTAT - The units are designed to operate with 24-volt electronic and electro-mechanical thermostats. All units can operate with single stage heat / single stage cool thermostats - with or without the economizer.

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.

BURGLAR BAR KIT - Designed to work with listed roof curbs. These burglar bar kits deter entry through the base unit duct work.





PHYSICAL DATA

MODELS		DNA						
		018	024	030	036	042	048	060
EVAPORATOR BLOWER	CENTRIFUGAL BLOWER (Dia. x Wd. 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 (Three Speed)	1/2	1/2	1/2	3/4	3/4	1.0	1.0
EVAPORATOR COIL	ROWS DEEP	2	2	2	2	3	3	3
	FINS PER INCH	14	13	13	15	13	13	13
	FACE AREA (Sq. Ft.)	2.25	3.5	3.5	3.5	3.5	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	1/4	1/4
	NOM. CFM TOTAL	1,800	2,200	2,400	2,400	2,400	3,000	3,000
CONDENSER COIL	ROWS DEEP	1	1	1	1	1	1	1
	FINS PER INCH	13	13	16	20	20	20	20
	FACE AREA (Sq. Ft.)	8.3	8.3	11.7	11.7	11.7	14.8	14.8
CHARGE	REFRIGERANT 22 (lbs./oz.)	3 / 2	3 / 16	4 / 12	4 / 3	4 / 12	6 / 0	5 / 4
FILTER*	FACE AREA (Sq. Ft.) / SIZE (NOMINAL)	2.6/20x20	2.6/20x20	2.6/20x20	2.6/20x20	2.6/20x20	3.3/20x12	3.3/20x12
FURNACE SECTION	NATURAL GAS BURNER ORIFICE NO. (Drill size)	43	43	43	43	43	40	40
	PROPANE BURNER ORIFICE NO. (Drill size)	55	55	55	55	55	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 TYPE	HERMETICALLY SEALED (R = RECIPROCATING, S = Scroll)	R	R	R	R	R	S	S

* = Three phase 018 thru 042 size units are supplied with one (1) filter and on three phase 048 and 060 size units two (2) filters are supplied. Single phase units are shipped without filters. See "FILTER / FRAME KIT" on page 3.

RATINGS - Cooling/Gas Heating

MODEL DNA	NET COOLING CAPACITY ¹		SOUND RATING ² (dbels)	GAS HEAT				
	MBH	SEER		INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	NUMBER OF BURNERS	TEMP. RISE (°F) Range
018N03606	17.9	10.0	76	45	36	80.2	2	25 - 55
024N03606	23.0	10.5	78	45	36	80.2	2	25 - 55
024N05606	23.0	10.5	78	70	56	80.2	3	30 - 60
030N03606	29.0	10.5	78	45	36	80.2	2	25 - 55
030N05606	29.0	10.5	78	70	56	80.2	3	30 - 60
036N03606	34.8	10.0	82	45	36	80.4	2	25 - 55
036N03625	34.8	10.0	82	45	36	80.4	2	25 - 55
036N03646	34.8	10.0	82	45	36	80.4	2	25 - 55
036N03658	34.8	10.0	82	45	36	80.4	2	25 - 55
036N05606	34.8	10.0	82	70	56	80.2	3	25 - 55
036N05625	34.8	10.0	82	70	56	80.2	3	25 - 55
036N05646	34.8	10.0	82	70	56	80.2	3	25 - 55
036N05658	34.8	10.0	82	70	56	80.2	3	25 - 55
036N07206	34.8	10.0	82	90	72	80.1	4	30 - 60
036N07225	34.8	10.0	82	90	72	80.1	4	30 - 60
036N07246	34.8	10.0	82	90	72	80.1	4	30 - 60
036N07258	34.8	10.0	82	90	72	80.1	4	30 - 60
042N03606	40.5	10.0	84	45	36	80.4	2	25 - 55
042N03625	40.5	10.0	84	45	36	80.4	2	25 - 55
042N03646	40.5	10.0	84	45	36	80.4	2	25 - 55
042N03658	40.5	10.0	84	45	36	80.4	2	25 - 55
042N05606	40.5	10.0	84	70	56	80.2	3	25 - 55
042N05625	40.5	10.0	84	70	56	80.2	3	25 - 55
042N05646	40.5	10.0	84	70	56	80.2	3	25 - 55
042N05658	40.5	10.0	84	70	56	80.2	3	25 - 55
042N07206	40.5	10.0	84	90	72	80.1	4	30 - 60
042N07225	40.5	10.0	84	90	72	80.1	4	30 - 60
042N07246	40.5	10.0	84	90	72	80.1	4	30 - 60
042N07258	40.5	10.0	84	90	72	80.1	4	30 - 60
048N06506	46.5	10.0	82	80	64	80	3	25 - 55
048N06525	46.5	10.0	82	80	64	80	3	25 - 55
048N06546	46.5	10.0	82	80	64	80	3	25 - 55
048N06558	46.5	10.0	82	80	64	80	3	25 - 55
048N09006	46.5	10.0	82	108	86	80	4	30 - 60
048N09025	46.5	10.0	82	108	86	80	4	30 - 60
048N09046	46.5	10.0	82	108	86	80	4	30 - 60
048N09058	46.5	10.0	82	108	86	80	4	30 - 60
048N11006	46.5	10.0	82	135	108	80	5	35 - 65
048N11025	46.5	10.0	82	135	108	80	5	35 - 65
048N11046	46.5	10.0	82	135	108	80	5	35 - 65
048N11058	46.5	10.0	82	135	108	80	5	35 - 65
060N06506	56.5	10.0	82	80	64	80	3	25 - 55
060N06525	56.5	10.0	82	80	64	80	3	25 - 55
060N06546	56.5	10.0	82	80	64	80	3	25 - 55
060N06558	56.5	10.0	82	80	64	80	3	25 - 55
060N09006	56.5	10.0	82	108	86	80	4	30 - 60
060N09025	56.5	10.0	82	108	86	80	4	30 - 60
060N09046	56.5	10.0	82	108	86	80	4	30 - 60
060N09058	56.5	10.0	82	108	86	80	4	30 - 60
060N11006	56.5	10.0	82	135	108	80	5	35 - 65
060N11025	56.5	10.0	82	135	108	80	5	35 - 65
060N11046	56.5	10.0	82	135	108	80	5	35 - 65
060N11058	56.5	10.0	82	135	108	80	5	35 - 65

SEER = 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.

AFUE = Annual Fuel Utilization Efficiency.

¹ Certified in accordance with the Unitary Small Equipment certification program, which is based on ARI Standard 210/240.

² Rated in accordance with ARI Standard 270.

COOLING CAPACITIES - 1-1/2 TON (DNA018)

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	17.4	16.6	15.3	15.3	18.3	17.4	16.1	16.0	19.1	18.2	16.8	16.8	19.6	18.7	17.2	17.2	20.1	19.2	17.7	17.6		
	Total Power Input KW	1.78	1.77	1.72	1.75	1.81	1.80	1.75	1.78	1.83	1.83	1.77	1.81	1.85	1.84	1.79	1.82	1.86	1.86	1.80	1.84		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	9.3	11.9	14.1	15.0	11.0	13.8	15.5	15.9	12.7	15.7	16.8	16.8	12.3	15.5	17.2	17.2	11.9	15.2	17.7	17.6
			83	8.8	11.4	13.7	14.5	10.0	12.8	15.2	15.6	11.2	14.2	16.8	16.8	11.2	14.4	17.2	17.2	11.3	14.6	17.5	17.6
			80	8.3	11.0	13.2	14.1	9.0	11.9	14.3	15.2	9.7	12.8	15.4	16.4	10.2	13.4	16.1	17.0	10.7	14.1	16.9	17.6
			77	7.9	10.5	12.7	13.6	8.1	10.9	13.3	14.2	8.2	11.3	13.9	14.9	9.2	12.4	15.1	16.0	10.1	13.5	16.4	17.0
			74	7.4	10.0	12.3	13.1	7.1	9.9	12.3	13.3	6.8	9.8	12.4	13.4	8.2	11.4	14.1	14.9	9.6	12.9	15.8	16.5
			71	-	9.6	11.8	12.7	-	8.9	11.4	12.3	-	8.3	10.9	11.9	-	10.3	13.1	13.9	-	12.3	15.2	15.9
			68	-	9.1	11.3	12.2	-	8.0	10.4	11.3	-	6.8	9.4	10.4	-	9.3	12.0	12.9	-	11.8	14.6	15.3
95 °F	Net Cap. MBH	16.7	15.5	14.5	14.5	17.5	16.3	15.3	15.2	18.4	17.1	16.0	16.0	18.9	17.6	16.4	16.4	19.3	18.1	16.8	16.8		
	Total Power Input KW	1.89	1.89	1.86	1.85	1.93	1.92	1.89	1.88	1.97	1.96	1.93	1.92	1.98	1.97	1.94	1.93	1.99	1.98	1.95	1.94		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	10.7	13.2	14.5	14.5	11.7	14.5	15.3	15.2	12.7	15.7	16.0	16.0	12.1	15.3	16.4	16.4	11.5	14.9	16.8	16.8
			83	9.3	11.9	14.2	14.5	10.2	13.0	15.1	15.2	11.1	14.1	16.0	16.0	11.0	14.2	16.4	16.4	11.0	14.3	16.8	16.8
			80	8.0	10.6	12.9	13.1	8.7	11.5	14.1	14.3	9.4	12.5	15.2	15.5	9.9	13.1	16.0	16.2	10.4	13.7	16.8	16.8
			77	6.6	9.2	11.5	11.8	7.2	10.0	12.6	12.9	7.8	10.9	13.6	13.9	8.8	12.0	14.9	15.1	9.8	13.1	16.2	16.2
			74	5.3	7.9	10.2	10.4	5.8	8.6	11.1	11.4	6.2	9.3	12.0	12.3	7.7	10.9	13.8	14.0	9.2	12.6	15.6	15.7
			71	-	6.5	8.9	9.1	-	7.1	9.6	9.9	-	7.7	10.4	10.7	-	9.8	12.7	12.9	-	12.0	15.0	15.1
			68	-	5.2	7.5	7.8	-	5.6	8.2	8.4	-	6.1	8.8	9.1	-	8.7	11.6	11.8	-	11.4	14.5	14.5
105 °F	Net Cap. MBH	15.6	14.2	13.4	13.3	16.4	14.9	14.1	14.0	17.2	15.6	14.8	14.7	17.7	16.0	15.2	15.1	18.2	16.5	15.6	15.5		
	Total Power Input KW	2.03	2.00	1.98	1.98	2.06	2.03	2.01	2.01	2.09	2.06	2.04	2.04	2.11	2.08	2.06	2.06	2.13	2.10	2.07	2.07		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	9.4	11.7	13.3	13.1	10.2	12.8	14.0	13.9	11.1	13.9	14.8	14.7	11.1	14.1	15.2	15.1	11.1	14.3	15.6	15.5
			83	8.5	10.9	12.9	12.9	9.3	11.9	13.8	13.8	10.1	12.9	14.8	14.7	10.3	13.3	15.2	15.1	10.6	13.7	15.6	15.5
			80	7.6	10.0	12.0	12.0	8.3	10.9	13.2	13.1	9.0	11.9	14.3	14.2	9.5	12.5	14.9	14.9	10.0	13.1	15.6	15.5
			77	6.7	9.1	11.2	11.1	7.4	10.0	12.2	12.2	8.0	10.8	13.2	13.2	8.7	11.7	14.1	14.1	9.5	12.6	15.0	15.0
			74	5.9	8.2	10.3	10.2	6.4	9.0	11.3	11.2	7.0	9.8	12.2	12.1	7.9	10.9	13.3	13.3	8.9	12.0	14.5	14.4
			71	-	7.4	9.4	9.4	-	8.1	10.3	10.2	-	8.7	11.2	11.1	-	10.1	12.5	12.5	-	11.5	13.9	13.9
			68	-	6.5	8.6	8.5	-	7.1	9.3	9.3	-	7.7	10.1	10.1	-	9.3	11.7	11.7	-	10.9	13.4	13.3
115 °F	Net Cap. MBH	14.5	12.8	12.3	12.2	15.2	13.4	12.9	12.8	15.9	14.0	13.5	13.4	16.5	14.5	14.0	13.8	17.0	15.0	14.4	14.3		
	Total Power Input KW	2.16	2.11	2.10	2.10	2.19	2.14	2.13	2.13	2.22	2.17	2.16	2.16	2.24	2.19	2.18	2.18	2.27	2.21	2.20	2.20		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	8.1	10.2	12.0	11.7	8.8	11.2	12.8	12.5	9.6	12.2	13.5	13.4	10.2	12.9	14.0	13.8	10.7	13.6	14.4	14.3
			83	7.7	9.8	11.6	11.3	8.4	10.8	12.6	12.3	9.1	11.7	13.5	13.4	9.7	12.4	14.0	13.8	10.2	13.1	14.4	14.3
			80	7.3	9.4	11.2	10.9	7.9	10.3	12.3	11.9	8.6	11.2	13.3	12.9	9.1	11.9	13.9	13.9	9.7	12.6	14.4	14.3
			77	6.9	9.0	10.8	10.5	7.5	9.9	11.8	11.5	8.2	10.8	12.9	12.5	8.6	11.4	13.4	13.1	9.1	12.0	13.9	13.7
			74	6.5	8.6	10.4	10.1	7.1	9.5	11.4	11.0	7.7	10.3	12.4	12.0	8.1	10.9	12.9	12.6	8.6	11.5	13.3	13.2
			71	-	8.2	10.0	9.7	-	9.0	10.9	10.6	-	9.8	11.9	11.5	-	10.4	12.3	12.1	-	10.9	12.8	12.7
			68	-	7.8	9.6	9.2	-	8.6	10.5	10.1	-	9.3	11.4	11.0	-	9.9	11.8	11.6	-	10.4	12.3	12.1
125 °F	Net Cap. MBH	13.5	11.4	11.2	11.1	14.1	11.9	11.7	11.6	14.7	12.5	12.3	12.1	15.3	12.9	12.7	12.6	15.9	13.4	13.2	13.0		
	Total Power Input KW	2.30	2.23	2.22	2.23	2.32	2.25	2.25	2.26	2.35	2.27	2.27	2.28	2.38	2.30	2.30	2.31	2.41	2.33	2.33	2.34		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	6.8	8.7	10.8	10.3	7.4	9.6	11.5	11.2	8.1	10.5	12.3	12.1	9.2	11.7	12.7	12.6	10.3	13.0	13.2	13.0
			83	6.8	8.8	10.3	9.7	7.5	9.7	11.3	10.9	8.2	10.5	12.3	12.1	9.0	11.5	12.7	12.6	9.8	12.5	13.2	13.0
			80	6.9	8.9	10.4	9.7	4.6	9.8	11.4	10.7	8.2	10.6	12.4	11.6	8.8	11.3	12.8	12.3	9.3	12.0	13.2	13.0
			77	7.0	9.0	10.4	9.8	7.6	9.8	11.4	10.8	8.3	10.7	12.5	11.7	8.5	11.1	12.6	12.1	8.8	11.5	12.7	12.5
			74	7.0	9.0	10.5	9.9	7.7	9.9	11.5	10.8	8.4	10.8	12.5	11.8	8.3	10.9	12.4	11.9	8.2	10.9	12.2	12.0
			71	-	9.1	10.6	9.9	-	10.0	11.6	10.9	-	10.9	12.6	11.9	-	10.6	12.2	11.7	-	10.4	11.7	11.5
			68	-	9.2	10.6	10.0	-	10.1	11.7	11.0	-	11.0	12.7	12.0	-	10.4	11.9	11.4	-	9.9	11.2	10.9

¹ = These capacities are net capacities - indoor fan heat deducted.



COOLING CAPACITIES - 2 TON (DNA024)

Temperature of Air on Condenser Coil		Air On Evaporator Coil																					
		600 CFM				700 CFM				800 CFM				900 CFM				1,000 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	24.1	22.5	20.9	21.3	24.9	23.3	21.6	22.1	25.8	24.1	22.3	22.8	25.9	24.2	22.5	22.9	26.1	24.4	22.6	23.1		
	Total Power Input KW	2.28	2.25	2.21	2.21	2.31	2.28	2.24	2.24	2.34	2.31	2.27	2.27	2.44	2.41	2.37	2.37	2.53	2.51	2.46	2.46		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	12.9	16.5	19.7	20.4	15.2	19.0	21.0	21.6	17.5	21.6	22.3	22.8	16.8	21.2	22.5	22.9	16.2	20.7	22.6	23.1
			83	12.3	15.9	19.1	19.7	13.9	17.8	20.7	21.3	15.5	19.6	22.3	22.8	15.5	19.8	22.5	22.9	15.5	19.9	22.6	23.1
			80	11.7	15.3	18.5	19.1	12.6	16.5	20.0	20.6	13.5	17.7	21.4	22.2	14.1	18.4	22.0	22.6	14.7	19.2	22.6	23.1
			77	11.1	14.6	17.9	18.5	11.3	15.2	18.7	19.3	11.5	15.7	19.4	20.2	12.7	17.0	20.6	21.3	13.9	18.4	21.8	22.3
			74	10.4	14.0	17.3	17.9	10.0	13.9	17.4	18.1	9.6	13.7	17.5	18.2	11.3	15.7	19.3	19.9	13.1	17.6	21.1	21.5
			71	-	13.4	16.6	17.3	-	12.6	16.1	16.8	-	11.7	15.5	16.2	-	14.3	17.9	18.5	-	16.8	20.3	20.8
			68	-	12.8	16.0	16.7	-	11.3	14.8	15.5	-	9.8	13.5	14.3	-	12.9	16.5	17.1	-	16.1	19.5	20.0
	95 °F	Net Cap. MBH	23.5	21.4	20.2	20.4	24.0	21.9	20.7	20.9	24.6	22.4	21.2	21.3	25.0	22.8	21.5	21.7	25.4	23.2	21.9	22.1	
Total Power Input KW		2.41	2.38	2.33	2.33	2.45	2.42	2.37	2.37	2.50	2.46	2.40	2.41	2.59	2.56	2.50	2.50	2.69	2.66	2.60	2.60		
Sensible Capacity MBH		Entering Dry Bulb, °F	86	15.0	18.3	20.2	20.4	16.2	19.8	20.7	20.9	17.4	21.2	21.2	21.3	16.8	20.9	21.5	21.7	16.2	20.5	21.9	22.1
			83	13.2	16.5	19.9	20.0	14.2	17.8	20.5	20.6	15.2	19.1	21.2	21.3	15.3	19.4	21.5	21.7	15.4	19.8	21.9	22.1
			80	11.4	14.7	18.1	18.2	12.2	15.8	19.5	19.5	13.1	16.9	20.9	20.9	13.9	18.0	21.4	21.5	14.6	19.0	21.9	22.1
			77	9.6	13.0	16.4	16.4	10.3	13.9	17.5	17.5	10.9	14.8	18.7	18.7	12.4	16.5	19.9	20.0	13.9	18.2	21.1	21.3
			74	7.8	11.2	14.6	14.6	8.3	11.9	15.6	15.6	8.8	12.7	16.6	16.6	10.9	15.0	18.5	18.6	13.1	17.4	20.3	20.6
			71	-	9.4	12.8	12.8	-	9.9	13.6	13.6	-	10.5	14.4	14.4	-	13.6	17.0	17.1	-	16.6	19.6	19.7
			68	-	7.6	11.0	11.0	-	8.0	11.6	11.6	-	8.4	12.3	12.3	-	12.1	15.6	15.6	-	15.9	18.8	19.0
105 °F		Net Cap. MBH	21.7	19.5	18.5	18.6	22.3	20.1	19.0	19.1	22.9	20.6	19.5	19.6	23.2	20.9	19.8	19.9	23.5	21.2	20.1	20.1	
	Total Power Input KW	2.55	2.51	2.47	2.45	2.60	2.56	2.51	2.50	2.65	2.60	2.56	2.54	2.74	2.69	2.65	2.63	2.83	2.79	2.74	2.72		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	13.0	16.4	18.1	18.0	14.2	17.8	18.8	18.8	15.3	19.2	19.5	19.6	15.3	19.5	19.8	19.9	15.4	19.8	20.1	20.1
			83	11.9	15.2	17.7	17.5	12.9	16.5	18.6	18.6	13.9	17.8	19.5	19.6	14.3	18.4	19.8	19.9	14.6	19.0	20.1	20.1
			80	10.7	14.1	16.5	16.3	11.6	15.3	17.9	17.7	12.5	16.5	19.3	19.1	13.2	17.4	19.7	19.6	13.9	18.3	20.1	20.1
			77	9.5	12.9	15.4	15.2	10.3	14.0	16.7	16.5	11.1	15.1	18.0	17.7	12.1	16.3	18.6	18.6	13.1	17.5	19.3	19.4
			74	8.4	11.7	14.2	14.0	9.0	12.7	15.4	15.2	9.7	13.7	16.6	16.3	11.1	16.2	17.6	17.5	12.4	16.8	18.6	18.6
			71	-	10.6	13.0	12.9	-	11.4	14.1	13.9	-	12.3	15.2	14.9	-	14.1	16.5	16.4	-	16.0	17.8	17.9
			68	-	9.4	11.9	11.7	-	10.1	12.8	12.6	-	10.9	13.8	13.5	-	13.1	15.4	15.3	-	15.3	17.0	17.1
	115 °F	Net Cap. MBH	20.0	17.7	16.8	16.8	20.6	18.2	17.3	17.3	21.2	18.7	17.8	17.8	21.4	19.0	18.0	18.0	21.7	19.2	18.2	18.2	
Total Power Input KW		2.69	2.64	2.60	2.58	2.75	2.70	2.66	2.63	2.80	2.75	2.71	2.68	2.89	2.83	2.79	2.76	2.97	2.92	2.87	2.84		
Sensible Capacity MBH		Entering Dry Bulb, °F	86	11.1	14.4	16.0	15.6	12.2	15.8	16.9	16.7	13.2	17.2	17.8	17.8	13.9	18.1	18.0	18.0	14.6	19.0	18.2	18.2
			83	10.5	13.9	15.5	15.1	11.6	15.3	16.6	16.4	12.6	16.6	17.8	17.8	13.2	17.5	18.0	18.0	13.9	18.3	18.2	18.2
			80	10.0	13.4	14.9	14.5	11.0	14.7	16.4	15.9	11.9	16.0	17.8	17.4	12.5	16.8	18.0	17.8	13.2	17.6	18.2	18.2
			77	9.5	12.8	14.4	14.0	10.4	14.1	15.8	15.4	11.3	15.3	17.2	16.7	11.9	16.1	17.3	17.1	12.4	16.8	17.5	17.5
			74	8.9	12.3	13.9	13.5	9.8	13.5	15.2	14.8	10.7	14.7	16.5	16.1	11.2	15.4	16.7	16.4	11.7	16.1	16.8	16.7
			71	-	11.8	13.3	12.9	-	12.9	14.6	14.2	-	14.0	15.9	15.4	-	14.7	16.0	15.7	-	15.4	16.0	16.0
			68	-	11.2	12.8	12.4	-	12.3	14.0	13.6	-	13.4	15.3	14.8	-	14.0	15.3	15.0	-	14.6	15.3	15.3
125 °F		Net Cap. MBH	18.2	15.8	15.1	15.0	18.9	16.3	15.6	15.5	19.5	16.9	16.2	16.0	19.6	17.0	16.3	16.2	19.8	17.1	16.4	16.3	
	Total Power Input KW	2.83	2.77	2.74	2.70	2.89	2.83	2.80	2.76	2.95	2.89	2.86	2.82	3.03	2.97	2.94	2.89	3.11	3.05	3.01	2.97		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	9.1	12.5	13.9	13.2	10.2	13.9	15.0	14.6	11.2	15.3	16.2	16.0	12.5	16.8	16.3	16.2	13.8	18.3	16.4	16.3
			83	9.2	12.6	13.2	12.6	10.3	14.0	14.7	14.3	11.3	15.4	16.2	16.0	12.2	16.5	16.3	16.2	13.1	17.6	16.4	16.3
			80	9.3	12.7	13.3	12.7	10.4	14.1	14.8	14.2	11.4	15.5	16.2	15.6	11.9	16.2	16.3	15.9	12.4	16.9	16.4	16.3
			77	9.4	12.8	13.4	12.8	10.5	14.2	14.9	14.3	11.5	15.6	16.2	15.7	11.6	15.9	16.1	15.6	11.7	16.2	15.7	15.6
			74	9.5	12.9	13.5	12.9	10.6	14.3	15.0	14.4	11.6	15.7	16.2	15.8	11.3	15.6	15.8	15.3	11.0	15.5	15.0	14.9
			71	-	13.0	13.6	13.0	-	14.4	15.1	14.5	-	15.8	16.2	15.9	-	15.3	15.5	15.0	-	14.7	14.3	14.1
			68	-	13.0	13.7	13.1	-	14.5	15.2	14.6	-	15.9	16.2	16.0	-	15.0	15.2	14.7	-	14.0	13.6	13.4

¹ = These capacities are net capacities - indoor fan heat deducted.

ALL SENSIBLE CAPACITY

COOLING CAPACITIES - 2-1/2 TON (DNA030)

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		28.1	26.4	24.2	22.6	30.6	28.7	26.3	24.5	32.9	31.0	28.3	26.4	33.2	31.2	28.6	26.7	33.5	31.5	28.8	26.9	
	Total Power Input KW		2.99	2.95	2.90	2.89	3.03	2.99	2.94	2.93	3.06	3.02	2.97	2.96	3.13	3.09	3.04	3.03	3.20	3.16	3.11	3.10	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	15.3	19.8	23.6	22.6	18.6	23.6	26.0	24.5	21.9	27.4	28.3	26.4	21.1	26.8	28.6	26.7	20.2	26.2	28.8	26.9
			83	14.5	19.0	22.8	21.9	17.0	21.9	25.6	24.2	19.4	24.9	28.3	26.4	19.3	25.1	28.6	26.7	19.3	25.2	28.8	26.9
			80	13.7	18.2	22.1	21.2	15.3	20.3	24.6	23.6	16.9	22.4	27.2	26.1	17.6	23.3	28.0	26.5	18.3	24.2	28.8	26.9
			77	13.0	17.4	21.3	20.4	13.7	18.7	23.0	22.0	14.5	20.0	24.7	23.6	15.9	21.6	26.3	24.8	17.3	23.3	27.8	25.9
			74	12.2	16.7	20.5	19.6	12.1	17.1	21.4	20.4	12.0	17.5	22.2	21.1	14.2	19.9	24.6	23.0	16.4	22.3	26.9	24.9
			71	-	15.9	19.7	18.8	-	15.5	19.8	18.7	-	15.0	19.8	18.7	-	18.2	22.8	21.3	-	21.3	25.9	24.0
			68	-	15.1	19.0	18.1	-	13.8	18.1	17.1	-	12.6	17.3	16.2	-	16.5	21.1	19.6	-	20.4	24.9	23.0
95 °F	Net Cap. MBH		26.8	25.0	22.3	21.4	29.2	27.3	24.3	23.4	31.7	29.6	26.4	25.4	32.0	29.9	26.6	25.6	32.2	30.1	26.8	25.8	
	Total Power Input KW		3.18	3.14	3.08	3.07	3.22	3.18	3.11	3.11	3.26	3.22	3.15	3.15	3.34	3.30	3.23	3.22	3.42	3.38	3.30	3.30	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	17.9	22.3	22.3	21.4	19.9	24.9	24.3	23.4	22.0	27.5	26.4	25.4	21.0	26.7	26.6	25.6	19.9	25.9	26.8	25.8
			83	15.6	20.1	22.3	21.4	17.5	22.5	24.3	23.4	19.3	24.9	26.4	25.4	19.1	24.9	26.6	25.6	19.0	24.9	26.8	25.8
			80	13.4	17.8	21.0	20.0	15.0	20.0	23.6	22.4	16.6	22.2	26.1	24.8	17.3	23.1	26.5	25.3	18.0	24.0	26.8	25.8
			77	11.1	15.6	18.8	17.7	12.6	17.5	21.1	19.9	14.0	19.5	23.5	22.2	15.5	21.2	24.6	23.5	17.0	23.0	25.8	24.8
			74	8.9	13.4	16.5	15.5	10.1	15.1	18.7	17.5	11.3	16.8	20.8	19.5	13.7	19.4	22.8	21.7	16.0	22.0	24.9	23.9
			71	-	11.1	14.3	13.3	-	12.6	16.2	15.0	-	14.1	18.1	16.8	-	17.6	21.0	19.8	-	21.0	23.9	22.9
			68	-	8.9	12.1	11.0	-	10.2	13.7	12.6	-	11.5	15.4	14.1	-	15.8	19.2	18.0	-	20.1	22.9	21.9
105 °F	Net Cap. MBH		25.4	23.0	20.6	20.1	27.7	25.0	22.5	21.9	30.0	27.1	24.4	23.8	30.4	27.4	24.7	24.0	30.7	27.8	25.0	24.3	
	Total Power Input KW		2.94	3.31	3.23	3.24	2.98	3.36	3.28	3.29	3.03	3.41	3.33	3.34	3.10	3.49	3.41	3.42	3.17	3.57	3.48	3.49	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	15.9	20.0	20.6	20.1	17.7	22.3	22.5	21.9	19.6	24.7	24.4	23.8	19.5	24.9	24.7	24.0	19.5	25.1	25.0	24.3
			83	14.4	18.5	20.5	19.9	16.1	20.7	22.5	21.8	17.8	22.9	24.4	23.8	18.2	23.5	24.7	24.0	18.6	24.1	25.0	24.3
			80	13.0	17.1	19.6	18.8	14.5	19.1	21.9	21.0	16.1	21.2	24.3	23.3	16.9	22.2	24.6	23.8	16.7	22.2	24.0	23.4
			77	11.5	15.6	18.1	17.3	12.9	17.5	20.3	19.5	14.4	19.5	22.5	21.6	15.5	20.9	23.3	22.5	16.7	22.2	24.0	23.4
			74	10.1	14.2	16.6	15.9	11.3	15.9	18.7	17.9	12.6	17.7	20.8	19.8	14.2	19.5	21.9	21.1	15.7	21.3	23.1	22.4
			71	-	12.7	15.2	14.4	-	14.3	17.1	16.3	-	16.0	19.0	18.1	-	18.2	20.6	19.8	-	20.4	22.1	21.5
			68	-	11.3	13.7	13.0	-	12.7	15.5	14.7	-	14.2	17.3	16.3	-	16.8	19.2	18.4	-	19.4	21.2	20.6
115 °F	Net Cap. MBH		24.1	20.9	19.0	18.8	26.2	22.8	20.7	20.5	28.3	24.6	22.4	22.1	28.8	25.0	22.7	22.5	29.2	25.4	23.1	22.8	
	Total Power Input KW		2.70	3.47	3.38	3.40	2.75	3.53	3.44	3.47	2.80	3.60	3.50	3.53	2.86	3.68	3.58	3.61	2.92	3.76	3.66	3.69	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	13.9	17.7	19.0	18.8	15.5	19.7	20.7	20.5	17.2	21.8	22.4	22.1	18.1	23.0	22.7	22.5	19.1	24.2	23.1	22.8
			83	13.2	17.0	18.8	18.3	14.8	19.0	20.6	20.2	16.4	21.0	22.4	22.1	17.3	22.2	22.7	22.5	18.2	23.3	23.1	22.8
			80	12.6	16.3	18.1	17.6	14.1	18.3	20.2	19.7	15.6	20.2	22.4	21.8	16.4	21.3	22.7	22.3	17.3	22.4	23.1	22.8
			77	11.9	15.7	17.4	16.9	13.3	17.5	19.5	19.0	14.8	19.4	21.6	21.0	15.6	20.5	21.9	21.5	16.3	21.5	22.2	21.9
			74	11.2	15.0	16.7	16.3	12.6	16.8	18.8	18.2	13.9	13.6	20.8	20.2	14.7	19.6	21.0	20.6	15.4	20.6	21.3	21.0
			71	-	14.3	16.1	15.6	-	16.1	18.0	17.5	-	17.8	20.0	19.4	-	18.7	20.2	19.7	-	19.7	20.4	20.1
			68	-	13.6	15.4	14.9	-	15.3	17.3	16.7	-	17.0	19.2	18.6	-	17.9	19.3	18.9	-	18.8	19.5	19.2
125 °F	Net Cap. MBH		22.7	18.9	17.4	17.5	24.7	20.5	18.9	19.0	26.6	22.2	20.4	20.5	27.2	22.6	20.8	20.9	27.7	23.1	21.3	21.4	
	Total Power Input KW		2.45	3.63	3.53	3.57	2.51	3.71	3.60	3.64	2.56	3.79	3.68	3.72	2.62	3.87	3.76	3.80	2.68	3.96	3.84	3.89	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	11.9	15.3	17.4	17.5	13.3	17.2	18.9	19.0	14.7	19.0	20.4	20.5	16.7	21.2	20.8	20.9	18.9	23.4	21.3	21.4
			83	12.0	15.5	17.0	16.7	13.5	17.3	18.7	18.6	14.9	19.1	20.4	20.5	16.3	20.8	20.8	20.9	17.8	22.5	21.3	21.4
			80	12.2	15.6	16.6	16.4	13.6	17.4	18.6	18.3	15.0	19.2	20.5	20.2	16.0	20.4	20.9	20.8	16.9	21.7	21.3	21.4
			77	12.3	15.7	16.7	16.5	13.7	17.5	18.7	18.5	15.1	19.4	20.7	20.4	15.6	20.1	20.5	20.4	16.0	20.8	20.4	20.5
			74	12.4	15.8	16.9	16.8	13.8	17.6	18.8	18.6	15.3	19.5	20.8	20.5	15.2	19.7	20.1	20.1	15.1	19.9	19.5	19.6
			71	-	15.9	17.0	16.7	-	17.8	18.9	18.7	-	19.6	20.9	20.7	-	19.3	19.8	19.7	-	19.0	18.6	18.7
			68	-	16.0	17.1	16.9	-	17.9	19.1	18.8	-	19.8	21.1	20.8	-	19.0	19.4	19.3	-	18.1	17.7	17.8

¹ = These capacities are net capacities - indoor fan heat deducted.

ALL SENSIBLE CAPACITY

COOLING CAPACITIES - 3 TON (DNA036)

Temperature of Air on Condenser Coil			Air On Evaporator Coil																				
			900 CFM				1,050 CFM				1,200 CFM				1,350 CFM				1,500 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	36.7	34.6	31.9	30.3	37.9	35.7	32.9	31.3	39.1	36.9	34.0	32.3	39.4	37.1	34.2	32.5	39.6	37.4	34.4	32.7		
		Total Power Input KW	3.57	3.51	3.44	3.41	3.64	3.58	3.51	3.48	3.71	3.65	3.58	3.55	3.80	3.73	3.66	3.63	3.88	3.82	3.74	3.71	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	19.8	25.2	29.9	30.3	23.0	28.7	32.0	31.3	26.1	32.1	34.0	32.3	24.8	31.0	34.2	32.5	23.5	29.9	34.4	32.7
			83	18.9	24.3	29.0	29.7	21.0	26.7	31.5	31.0	23.1	29.2	34.0	32.3	22.8	29.0	34.2	32.5	22.4	28.8	34.4	32.7
			80	18.0	23.4	28.1	28.8	19.1	24.8	29.8	30.5	20.1	26.2	31.5	32.3	20.7	27.0	32.4	32.5	21.3	27.7	33.3	32.7
			77	17.1	22.4	27.2	27.9	17.1	22.8	27.8	28.6	17.2	23.2	28.5	29.3	18.7	24.9	30.4	30.5	20.2	26.6	32.2	31.6
			74	16.1	21.5	26.2	26.9	15.2	20.9	25.9	26.6	14.2	20.2	25.5	26.3	16.7	22.9	28.3	28.4	19.1	25.5	31.1	30.5
			71	-	20.6	25.3	26.0	-	18.9	23.9	24.7	-	17.3	22.6	23.4	-	20.9	26.3	26.4	-	24.4	30.0	29.4
			68	-	19.7	24.4	25.1	-	17.0	22.0	22.7	-	14.3	19.6	20.4	-	18.8	24.3	24.4	-	23.3	28.9	28.3
95 °F	Net Cap. MBH	36.9	34.1	31.4	31.2	37.3	34.5	31.8	31.5	37.7	34.9	32.1	31.9	38.3	35.5	32.6	32.4	39.0	36.1	33.2	32.9		
		Total Power Input KW	3.77	3.73	3.64	3.61	3.86	3.81	3.72	3.69	3.95	3.90	3.81	3.77	4.03	3.98	3.88	3.85	4.11	4.06	3.96	3.93	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	23.8	29.2	31.4	31.2	25.1	30.8	31.8	31.5	26.5	32.4	32.1	31.9	25.1	31.2	32.6	32.4	23.6	30.0	33.2	32.9
			83	21.1	26.5	31.2	31.2	22.2	27.8	31.7	31.5	23.3	29.2	32.1	31.9	22.9	29.0	32.6	32.4	22.5	28.9	33.2	32.9
			80	18.4	23.8	28.5	29.3	19.2	24.9	29.8	30.6	20.0	26.0	31.1	31.9	20.7	26.9	32.1	32.4	21.4	27.8	33.2	32.9
			77	15.7	21.1	25.9	26.6	16.3	21.9	26.9	27.6	16.8	22.7	27.9	28.7	18.6	24.7	30.0	30.3	20.3	26.7	32.1	31.8
			74	13.0	18.5	23.2	23.9	13.3	19.0	23.9	24.7	13.6	19.5	24.7	25.5	16.4	22.5	27.8	28.1	19.2	25.6	31.0	30.7
			71	-	15.8	20.5	21.2	-	16.0	21.0	21.7	-	16.3	21.4	22.2	-	20.4	25.7	25.9	-	24.5	29.9	29.6
			68	-	13.1	17.8	18.5	-	13.1	18.0	18.8	-	13.1	18.2	19.0	-	18.2	23.5	23.8	-	23.4	28.8	28.5
105 °F	Net Cap. MBH	34.9	32.6	30.7	29.6	35.3	32.9	31.0	29.9	35.6	33.2	31.3	30.2	36.1	33.6	31.7	30.6	36.5	34.0	32.1	30.9		
		Total Power Input KW	4.00	3.93	3.84	3.83	4.09	4.01	3.93	3.91	4.18	4.10	4.01	3.99	4.26	4.18	4.09	4.07	4.34	4.26	4.17	4.15	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	21.1	27.2	29.8	28.8	22.4	28.7	30.6	29.5	23.7	30.3	31.3	30.2	23.2	30.1	31.7	30.6	22.8	29.8	32.1	30.9
			83	19.4	25.4	29.3	28.4	20.5	26.8	30.3	29.3	21.6	28.2	31.3	30.2	21.6	28.5	31.7	30.6	21.7	28.7	32.1	30.9
			80	17.7	23.7	27.6	27.0	18.6	24.9	29.0	28.4	19.5	26.1	30.4	29.8	20.1	26.9	31.2	30.4	20.6	27.7	32.1	30.9
			77	15.9	21.9	25.8	25.3	16.6	23.0	27.1	26.5	17.4	24.0	28.3	27.7	18.5	25.3	29.7	28.8	19.6	26.6	31.0	29.8
			74	14.2	20.2	24.1	23.5	14.7	21.0	25.1	24.6	15.3	21.9	26.2	25.6	16.9	23.7	28.1	27.2	18.5	25.5	29.9	28.8
			71	-	18.4	22.3	21.8	-	19.1	23.2	22.7	-	19.8	24.1	23.5	-	22.2	26.5	25.6	-	24.5	28.9	27.7
			68	-	16.7	20.6	20.0	-	17.2	21.3	20.7	-	17.7	22.0	21.4	-	20.6	24.9	24.0	-	23.4	27.8	26.7
115 °F	Net Cap. MBH	33.0	31.0	30.0	28.0	33.3	31.3	30.3	28.2	33.5	31.6	30.6	28.5	33.8	31.8	30.8	28.7	34.0	32.0	31.0	28.9		
		Total Power Input KW	4.24	4.13	4.05	4.04	4.32	4.22	4.13	4.12	4.41	4.30	4.22	4.21	4.50	4.38	4.30	4.29	4.58	4.47	4.38	4.37	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	18.5	25.1	28.2	26.4	19.7	26.7	29.4	27.4	20.9	28.2	30.6	28.5	21.4	28.9	30.8	28.7	21.9	29.6	31.0	28.9
			83	17.7	24.3	27.4	25.6	18.8	25.8	29.0	27.0	19.9	27.3	30.6	28.5	20.4	27.9	30.8	28.7	20.9	28.6	31.0	28.9
			80	16.9	23.5	26.6	24.8	17.9	24.9	28.1	26.2	18.9	26.3	29.7	27.7	19.4	26.9	30.3	28.3	19.9	27.6	31.0	28.9
			77	16.1	22.7	25.8	24.0	17.0	24.0	27.2	25.4	17.9	25.3	28.7	26.7	18.4	25.9	29.3	27.3	18.8	26.6	30.0	27.9
			74	15.3	21.9	24.9	23.2	16.1	23.1	26.4	24.5	17.0	24.3	27.8	25.8	17.4	24.9	28.3	26.3	17.8	25.5	28.9	26.8
			71	-	21.1	24.1	22.4	-	22.2	25.5	23.6	-	23.4	26.8	24.8	-	23.9	27.3	25.3	-	24.5	27.9	25.8
			68	-	20.3	23.3	21.6	-	21.3	24.6	22.7	-	22.4	25.8	23.8	-	22.9	26.3	24.3	-	23.5	26.9	24.8
125 °F	Net Cap. MBH	31.0	29.4	29.3	26.4	31.2	29.7	29.6	26.6	31.4	29.9	29.8	26.8	31.5	29.9	29.8	26.8	31.5	30.0	29.9	26.9		
		Total Power Input KW	4.47	4.33	4.26	4.26	4.55	4.42	4.34	4.34	4.64	4.50	4.42	4.42	4.73	4.59	4.51	4.51	4.82	4.68	4.59	4.60	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	15.9	23.1	26.6	24.0	17.0	24.6	28.2	25.4	18.1	26.1	29.8	26.8	19.6	27.8	29.8	26.8	21.1	29.5	29.9	26.9
			83	16.0	23.2	25.4	22.8	17.1	24.8	27.6	24.8	18.2	26.3	29.8	26.8	19.1	27.4	29.8	26.8	20.1	28.5	29.9	26.9
			80	16.2	23.3	25.6	22.5	17.3	24.9	27.3	24.1	18.4	26.5	29.0	25.6	18.7	27.0	29.5	26.2	19.1	27.5	29.9	26.9
			77	16.3	23.5	25.7	22.7	17.4	25.0	27.4	24.2	18.5	26.6	29.2	25.8	18.3	26.6	29.0	25.8	18.1	26.5	28.9	25.9
			74	16.4	23.6	25.8	22.8	17.6	25.2	27.6	24.4	18.7	26.8	29.3	25.9	17.9	26.1	28.6	25.4	17.1	25.5	27.9	24.9
			71	-	23.7	26.0	22.9	-	25.3	27.7	24.5	-	26.9	29.5	26.1	-	25.7	28.2	25.0	-	24.5	26.9	23.9
			68	-	23.9	26.1	23.1	-	25.5	27.9	24.7	-	27.1	29.6	26.2	-	25.3	27.8	24.6	-	23.5	25.9	22.9

¹ = These capacities are net capacities - indoor fan heat deducted.

ALL SENSIBLE CAPACITY

COOLING CAPACITIES - 3-1/2 TON (DNA042)

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		44.5	40.8	37.6	36.5	46.0	42.2	38.8	37.7	47.5	43.6	40.1	38.9	48.9	44.9	41.3	40.1	50.3	46.2	42.5	41.2	
	Total Power Input KW		4.01	4.00	3.85	3.85	4.16	4.15	4.00	4.00	4.31	4.31	4.15	4.15	4.36	4.35	4.19	4.19	4.40	4.39	4.23	4.23	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	23.6	29.7	35.1	35.9	27.6	34.2	37.6	37.4	31.6	38.6	40.1	38.9	31.0	38.5	41.3	40.1	30.5	38.4	42.5	41.2
			83	22.5	28.6	34.0	34.8	25.3	31.9	37.0	36.8	28.1	35.1	40.1	38.9	28.6	36.1	41.3	40.1	29.1	37.1	42.5	41.2
			80	21.4	27.5	32.9	33.7	23.0	29.6	35.4	36.2	24.6	31.7	37.9	38.8	26.2	33.7	40.2	40.0	27.8	35.7	42.5	41.2
			77	20.3	26.4	31.8	32.6	20.7	27.3	33.1	34.0	21.2	28.2	34.4	35.3	23.8	31.3	37.8	37.6	26.4	34.3	41.1	39.9
			74	19.2	25.4	30.7	31.5	18.5	25.1	30.8	31.7	17.7	24.7	30.9	31.8	21.4	28.9	35.3	35.2	25.0	33.0	39.7	38.5
			71	-	24.3	29.7	30.4	-	22.8	28.6	29.4	-	21.3	27.5	28.4	-	26.4	32.9	32.8	-	31.6	38.4	37.2
			68	-	23.2	28.6	29.4	-	20.5	26.3	27.1	-	17.8	24.0	24.9	-	24.0	30.5	30.3	-	30.2	37.0	35.8
	95 °F	Net Cap. MBH		41.5	38.0	34.6	35.0	43.2	39.6	36.0	36.4	44.9	41.1	37.3	37.8	46.1	42.2	38.3	38.8	47.2	43.2	39.3	39.8
Total Power Input KW		4.24	4.22	4.07	4.10	4.40	4.38	4.22	4.25	4.56	4.54	4.38	4.40	4.62	4.60	4.43	4.46	4.68	4.66	4.49	4.52		
Sensible Capacity MBH		Entering Dry Bulb, °F	86	26.5	32.7	34.6	35.0	29.0	35.7	36.0	36.4	31.4	38.7	37.3	37.8	30.3	38.0	38.3	38.8	29.2	37.3	39.3	39.8
			83	23.4	29.6	33.8	34.1	25.5	32.3	35.6	36.0	27.6	34.9	37.3	37.8	27.7	35.4	38.3	38.8	27.8	35.9	39.3	39.8
			80	20.3	26.5	30.7	31.0	22.1	28.8	33.4	33.8	23.9	31.2	36.1	36.5	25.2	32.9	37.7	38.2	26.5	34.6	39.3	39.8
			77	17.1	23.3	27.6	27.9	18.6	25.4	30.0	30.3	20.1	27.4	32.4	32.8	22.6	30.3	35.2	35.6	25.1	33.2	37.9	38.4
			74	14.0	20.2	24.4	24.7	15.2	21.9	26.5	26.9	16.3	23.7	28.6	29.0	20.0	27.7	32.6	33.0	23.7	31.8	36.6	37.1
			71	-	17.1	21.3	21.6	-	18.5	23.1	23.4	-	19.9	24.9	25.2	-	25.2	30.0	30.5	-	30.4	35.2	35.7
			68	-	13.9	18.1	18.5	-	15.0	19.6	20.0	-	16.1	21.1	21.5	-	22.6	27.5	27.9	-	29.1	33.8	34.3
105 °F		Net Cap. MBH		38.7	34.7	32.2	33.0	40.3	36.1	33.5	34.3	41.8	37.5	34.8	35.6	42.8	38.4	35.6	36.5	43.8	39.2	36.5	37.3
	Total Power Input KW		4.51	4.44	4.34	4.34	4.67	4.59	4.49	4.49	4.82	4.74	4.63	4.64	4.90	4.82	4.71	4.71	4.98	4.90	4.78	4.79	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	23.6	29.4	31.7	31.8	25.7	32.0	33.3	33.7	27.8	34.6	34.8	35.6	28.0	35.1	35.6	36.4	28.1	35.7	36.5	37.3
			83	21.5	27.3	30.9	30.9	23.4	29.7	32.9	32.9	25.3	32.1	34.8	35.0	26.1	33.2	35.6	36.2	26.8	34.4	36.5	37.3
			80	19.5	25.3	28.9	28.8	21.2	27.5	31.4	31.3	22.9	29.7	33.8	33.8	24.2	31.3	35.2	35.5	25.5	33.0	36.5	37.3
			77	17.5	23.3	26.8	26.8	18.9	25.2	29.1	29.1	20.4	27.2	31.4	31.4	22.3	29.5	33.3	33.7	24.1	31.7	35.1	36.0
			74	15.4	21.2	24.8	24.7	16.7	23.0	26.9	26.8	18.0	24.8	28.9	28.9	20.4	27.6	31.4	31.8	22.8	30.4	33.8	34.6
			71	-	19.2	22.7	22.7	-	20.7	24.6	24.6	-	22.3	26.5	26.5	-	25.7	29.5	29.9	-	29.0	32.5	33.3
			68	-	17.1	20.7	20.7	-	18.5	22.4	22.3	-	19.9	24.0	24.0	-	23.8	27.6	28.0	-	27.7	31.1	32.0
	115 °F	Net Cap. MBH		35.9	31.3	29.9	30.9	37.3	32.6	31.1	32.2	38.8	33.9	32.3	33.4	39.6	34.5	33.0	34.1	40.3	34.2	33.6	34.8
Total Power Input KW		4.78	4.66	4.61	4.59	4.93	4.80	4.75	4.73	5.08	4.95	4.89	4.87	5.18	5.04	4.99	4.97	5.27	5.14	5.08	5.06		
Sensible Capacity MBH		Entering Dry Bulb, °F	86	20.6	26.0	28.9	28.5	22.4	28.2	30.6	31.0	24.2	30.4	32.3	33.4	25.6	32.3	33.0	34.1	27.1	34.1	33.6	34.8
			83	19.7	25.1	28.0	27.6	21.4	27.2	30.1	29.9	23.0	29.3	32.3	32.2	24.4	31.0	33.0	33.5	25.8	32.8	33.6	34.8
			80	18.7	24.1	27.0	26.6	20.3	26.1	29.3	28.9	21.9	28.2	31.6	31.1	23.2	29.8	32.6	32.9	24.5	31.5	33.6	34.8
			77	17.8	23.2	26.1	25.7	19.3	25.1	28.2	27.8	20.7	27.0	30.4	30.0	22.0	28.6	31.4	31.7	23.2	30.2	32.3	33.5
			74	16.9	22.2	25.1	24.8	18.2	24.0	27.2	26.8	19.6	25.9	29.3	28.8	20.8	27.4	30.1	30.5	21.9	28.9	31.0	32.2
			71	-	21.3	24.2	23.8	-	23.0	26.2	25.7	-	24.7	28.1	27.7	-	26.2	28.9	29.3	-	27.6	29.7	30.9
			68	-	20.3	23.2	22.9	-	22.0	25.1	24.7	-	23.6	27.0	26.5	-	25.0	27.7	28.1	-	26.4	28.5	29.6
125 °F		Net Cap. MBH		33.0	27.9	27.5	28.9	34.4	29.1	28.7	30.1	35.8	30.3	29.8	31.3	36.3	30.7	30.3	31.7	36.9	31.2	30.7	32.2
	Total Power Input KW		5.05	4.88	4.87	4.83	5.19	5.02	5.01	4.97	5.34	5.16	5.15	5.11	5.45	5.27	5.26	5.22	5.57	5.38	5.37	5.33	
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	17.7	22.6	26.1	25.3	19.1	24.5	27.9	28.2	20.6	26.3	29.8	31.2	23.3	29.4	30.3	31.7	26.0	32.5	30.7	32.2
			83	17.8	22.8	25.0	24.3	19.3	24.6	27.4	26.9	20.7	26.5	29.8	29.5	22.7	28.8	30.3	30.8	24.8	31.2	30.7	32.2
			80	18.0	22.9	25.2	24.4	19.4	24.8	27.2	26.4	20.9	26.6	29.3	28.4	22.2	28.3	30.0	30.3	23.5	30.0	30.7	32.2
			77	18.1	23.1	25.3	24.6	19.6	24.9	27.4	26.6	21.1	26.8	29.4	28.6	21.7	27.8	29.5	29.8	22.3	28.7	29.5	31.0
			74	18.3	23.2	25.5	24.8	19.8	25.1	27.5	26.7	21.2	27.0	29.6	28.7	21.1	27.2	28.9	29.2	21.0	27.5	28.2	29.7
			71	-	23.4	25.6	24.9	-	25.3	27.7	26.9	-	27.2	29.8	28.9	-	26.7	28.4	28.7	-	26.2	27.0	28.5
			68	-	23.5	25.8	25.1	-	25.4	27.9	27.1	-	27.3	29.9	29.1	-	26.2	27.9	28.2	-	25.0	25.8	27.2

¹ = These capacities are net capacities - indoor fan heat deducted.



COOLING CAPACITIES - 4 TON (DNA048)

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	48.5	45.0	41.0	41.6	49.9	46.3	42.2	42.8	51.3	47.6	43.4	44.0	52.4	48.7	44.4	44.9	53.5	49.7	45.3	45.9		
	Total Power Input KW	3.99	3.93	3.87	3.86	4.01	3.95	3.88	3.88	4.02	3.96	3.90	3.89	4.04	3.97	3.91	3.91	4.05	3.99	3.92	3.92		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	28.9	36.8	41.0	41.6	31.9	40.5	42.2	42.8	34.9	44.1	43.4	44.0	38.0	46.9	44.4	44.9	41.0	49.7	45.3	45.9
			83	25.5	33.4	40.3	41.2	27.8	36.4	41.9	42.6	30.2	39.4	43.4	44.0	32.7	42.5	44.4	44.9	35.1	45.6	45.3	45.9
			80	22.0	30.0	36.9	37.8	23.8	32.4	39.8	40.9	25.6	34.8	42.8	43.9	27.3	37.2	44.1	44.9	29.1	39.6	45.3	45.9
			77	18.6	26.5	33.4	34.4	19.8	28.3	35.8	36.8	20.9	30.1	38.1	39.2	22.0	31.9	38.7	39.6	23.1	33.6	39.4	40.0
			74	15.2	23.1	30.0	31.0	15.7	24.3	31.7	32.8	16.2	25.4	33.5	34.6	16.7	26.6	33.4	34.3	17.2	27.7	33.4	34.0
			71	-	19.7	26.6	27.6	-	20.2	27.7	23.7	-	20.8	28.8	29.9	-	21.2	28.1	29.0	-	21.7	27.5	28.0
	68	-	16.3	23.2	24.1	-	16.2	23.7	24.7	-	16.1	24.1	25.2	-	15.9	22.8	23.7	-	15.7	21.5	22.1		
95 °F	Net Cap. MBH	43.5	41.9	36.3	36.9	46.1	44.4	38.6	39.1	48.8	47.0	40.8	41.4	48.6	46.8	40.6	41.2	48.3	46.5	40.4	40.9		
	Total Power Input KW	4.44	4.34	4.32	4.32	4.44	4.34	4.32	4.32	4.43	4.33	4.31	4.47	4.37	4.37	4.35	4.35	4.50	4.41	4.38	4.39		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	27.2	35.6	36.3	36.9	30.7	40.1	38.6	39.1	34.3	44.7	40.8	41.4	36.8	45.6	40.6	41.2	39.2	46.5	40.4	40.9
			83	23.7	32.2	36.3	36.9	26.7	36.1	38.6	39.1	29.7	40.0	40.8	41.4	31.5	42.3	40.6	41.2	33.3	44.6	40.4	40.9
			80	20.3	28.8	33.1	33.6	22.7	32.1	36.9	37.4	25.0	35.4	40.7	41.3	26.2	37.0	40.5	41.1	27.3	38.6	40.4	40.9
			77	16.9	25.3	29.7	30.2	18.6	28.0	32.9	33.4	20.3	30.7	36.1	36.6	20.8	31.7	35.2	35.8	21.3	32.7	34.4	35.0
			74	13.5	21.9	26.3	26.7	14.6	24.0	28.8	29.3	15.7	26.0	31.4	32.0	15.5	26.4	29.9	30.5	15.4	26.7	28.4	29.0
			71	-	18.5	22.8	23.3	-	19.9	24.8	25.3	-	21.4	26.7	27.3	-	21.1	24.6	25.2	-	20.8	22.5	23.0
	68	-	15.1	19.4	19.5	-	15.9	20.7	21.3	-	16.7	22.1	22.6	-	15.7	19.3	19.9	-	14.8	16.5	17.1		
105 °F	Net Cap. MBH	42.2	39.2	35.7	36.0	44.1	40.9	37.2	37.5	45.9	42.6	38.8	39.1	46.4	43.1	39.2	39.5	47.0	43.6	39.7	40.0		
	Total Power Input KW	4.94	4.85	4.81	4.81	4.95	4.85	4.81	4.82	4.95	4.86	4.82	4.83	4.98	4.89	4.84	4.85	5.00	4.91	4.87	4.89		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	26.7	34.8	35.7	36.0	30.1	38.1	37.2	37.5	33.4	41.5	38.8	39.1	36.1	42.5	39.2	39.5	38.8	43.6	39.7	40.0
			83	23.3	31.3	35.3	35.6	26.0	34.9	37.0	37.3	28.7	38.4	38.8	39.1	30.8	40.5	39.2	39.5	32.8	42.6	39.7	40.0
			80	19.9	27.9	32.0	32.2	22.0	30.8	35.3	35.6	24.1	33.8	38.7	39.0	25.5	35.7	39.2	39.5	26.9	37.6	39.7	40.0
			77	16.5	24.5	28.6	28.8	17.9	26.8	31.3	31.6	19.4	29.1	34.0	34.3	20.2	30.4	33.9	34.2	20.9	31.7	33.7	34.0
			74	13.0	21.1	25.1	25.4	13.9	22.8	27.2	27.5	14.7	24.4	29.4	29.7	14.8	25.1	28.6	28.9	14.9	25.8	27.8	28.1
			71	-	17.7	21.7	22.0	-	18.7	23.2	23.5	-	19.8	24.7	25.0	-	19.8	23.3	23.6	-	19.8	21.8	22.1
	68	-	14.2	18.3	18.5	-	14.7	19.2	19.4	-	15.1	20.0	20.3	-	14.5	17.9	18.3	-	13.9	15.9	16.2		
115 °F	Net Cap. MBH	41.0	36.5	35.0	35.1	42.0	37.3	35.9	35.9	43.0	38.2	36.7	36.8	44.3	39.4	37.9	37.9	45.7	40.6	39.0	39.1		
	Total Power Input KW	5.44	5.35	5.29	5.30	5.46	5.37	5.31	5.32	5.47	5.39	5.33	5.34	5.49	5.40	5.34	5.35	5.50	5.42	5.35	5.37		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	26.3	33.9	35.0	35.1	29.4	36.1	35.9	35.9	32.5	38.2	36.7	36.8	35.4	39.4	37.9	37.9	38.4	40.6	39.0	39.1
			83	22.9	30.5	34.3	34.3	25.3	33.7	35.5	35.5	27.8	36.9	36.7	36.8	30.1	38.7	37.9	37.9	32.4	40.6	39.0	39.1
			80	19.5	27.1	30.8	30.9	21.3	29.6	33.7	33.6	23.1	32.1	36.7	36.7	24.8	34.9	37.8	37.9	26.4	36.8	39.0	39.1
			77	16.0	23.7	27.4	27.5	17.2	25.6	29.7	29.8	18.5	27.5	32.0	32.0	19.5	29.2	32.5	32.6	20.5	30.8	33.1	33.1
			74	12.6	20.6	24.0	24.0	13.2	21.5	25.7	25.7	13.8	22.9	27.3	27.4	14.2	23.9	27.2	27.3	14.5	24.9	27.1	27.2
			71	-	16.8	20.6	20.6	-	17.5	21.6	21.7	-	18.2	22.7	22.7	-	18.5	21.9	22.0	-	18.9	21.1	21.2
	68	-	13.4	17.2	17.2	-	13.5	17.6	17.6	-	13.5	18.0	18.1	-	13.2	16.6	16.6	-	12.9	15.2	15.2		
125 °F	Net Cap. MBH	39.7	33.7	34.3	34.2	39.9	33.6	34.5	34.3	40.1	33.9	34.7	34.5	42.2	35.8	36.5	36.3	44.4	37.7	38.4	38.2		
	Total Power Input KW	5.90	5.90	5.80	5.80	6.00	5.90	5.80	5.80	6.00	5.90	5.80	5.90	6.00	5.90	5.80	5.90	6.00	5.90	5.80	5.90		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	25.9	33.1	34.3	34.2	28.7	34.0	34.5	34.3	31.5	35.0	34.7	34.5	34.7	36.4	36.5	36.3	37.9	37.7	38.4	38.2
			83	22.4	29.7	33.2	33.0	24.7	32.5	34.0	33.8	26.9	35.3	34.7	34.5	29.4	37.0	36.5	36.3	32.0	38.7	38.4	38.2
			80	19.0	26.2	29.7	29.5	20.6	28.4	32.2	32.0	22.2	30.6	34.6	34.4	24.1	33.2	36.5	36.3	26.0	35.9	38.4	38.2
			77	15.6	22.8	26.8	26.1	16.6	24.4	28.1	27.9	17.5	25.9	30.0	29.8	18.8	27.9	31.2	31.0	20.0	29.9	32.4	32.2
			74	12.2	19.4	22.9	22.7	12.5	20.3	24.1	23.9	12.9	21.3	25.3	25.1	13.5	22.6	25.9	25.7	14.1	23.9	26.4	26.2
			71	-	16.0	19.4	19.3	-	16.3	20.0	19.9	-	16.6	20.6	20.4	-	17.3	20.5	20.4	-	18.0	20.5	20.3
	68	-	12.6	16.6	15.9	-	12.2	16.0	15.8	-	11.9	16.0	15.8	-	12.0	15.2	15.0	-	12.0	14.5	14.3		

¹ = These capacities are net capacities - indoor fan heat deducted.

ALL SENSIBLE CAPACITY

COOLING CAPACITIES - 5 TON (DNA060)

Temperature of Air on Outdoor Coil		Air On Indoor Coil																					
		1500 CFM				1750 CFM				2000 CFM				2250 CFM				2500 CFM					
		WB°F		WB°F		WB°F		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	60.3	56.2	52.0	51.1	62.4	58.1	53.8	52.9	64.4	60.0	55.5	54.6	65.4	60.9	56.4	55.5	66.5	61.8	57.3	56.3		
	Total Power Input KW	5.67	5.58	5.48	5.50	5.80	5.71	5.61	5.63	5.93	5.83	5.73	5.75	6.11	6.01	5.91	5.93	6.30	6.20	6.09	6.11		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	39.5	47.7	52.0	51.1	43.5	52.3	53.8	52.9	47.5	56.9	55.5	54.6	50.9	59.4	56.4	55.5	54.3	61.8	57.3	56.3
			83	35.2	43.4	50.6	50.9	38.4	47.2	53.1	52.7	41.6	51.0	55.5	54.6	44.3	54.1	56.4	55.5	46.9	57.2	57.3	56.3
			80	31.0	39.1	46.4	46.6	33.4	42.2	50.0	50.2	35.8	45.2	53.6	53.9	37.6	47.5	55.4	55.1	39.4	49.8	57.3	56.3
			77	26.7	34.8	42.1	42.3	28.3	37.1	44.9	45.2	30.0	39.4	47.8	48.1	31.0	40.9	48.8	48.5	32.0	42.3	49.8	48.9
			74	22.4	30.5	37.8	38.0	23.3	32.0	39.9	40.1	24.2	33.6	42.0	42.2	24.3	34.2	42.2	41.8	24.5	34.9	42.4	41.4
			71	-	26.3	33.5	33.8	-	27.0	34.8	35.1	-	27.7	36.1	36.4	-	27.6	35.5	35.2	17.1	27.4	34.9	34.0
68	-	22.0	29.3	29.5	-	21.9	29.8	30.0	-	21.9	30.3	30.6	-	20.9	28.9	28.5	9.6	20.0	27.5	26.5			
95 °F	Net Cap MBH	57.6	53.0	49.0	48.5	59.5	54.7	50.7	50.1	61.5	56.5	52.3	51.7	62.4	57.3	53.1	52.4	63.3	58.1	53.9	53.2		
	Total Power Input KW	6.14	6.11	5.96	6.01	6.30	6.27	6.11	6.16	6.45	6.42	6.26	6.32	6.62	6.59	6.43	6.49	6.80	6.76	6.60	6.65		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	37.6	46.8	49.0	48.5	41.5	51.4	50.7	50.1	45.3	56.0	52.3	51.7	48.6	57.1	53.1	52.4	51.8	58.1	53.9	53.2
			83	33.3	42.5	48.6	48.2	36.4	46.4	50.5	50.0	39.5	50.2	52.3	51.7	41.9	53.1	53.1	52.4	44.4	56.1	53.9	53.2
			80	29.1	38.3	44.4	43.9	31.4	41.3	47.9	47.4	33.7	44.3	51.4	50.9	35.3	46.5	52.6	52.1	36.9	48.6	53.9	53.2
			77	24.8	34.0	40.1	39.7	26.3	36.2	42.8	42.4	27.8	38.5	45.5	45.1	28.7	39.8	46.0	45.4	29.5	41.2	46.4	45.7
			74	20.5	29.7	35.8	35.4	21.3	31.2	37.8	37.3	22.0	32.7	39.7	39.2	22.0	33.2	39.3	38.8	22.0	33.7	38.9	38.3
			71	-	25.4	31.5	31.1	-	26.1	32.7	32.3	-	26.8	33.9	33.4	-	26.6	32.7	32.1	-	26.3	31.5	30.8
68	-	21.2	27.2	26.8	-	21.1	27.6	27.2	-	21.0	28.0	27.6	-	19.9	26.0	25.5	-	18.8	24.0	23.4			
105 °F	Net Cap MBH	53.0	48.8	45.0	42.7	55.0	50.7	46.8	44.3	57.1	52.5	48.5	45.9	57.6	53.1	49.0	46.4	58.2	53.6	49.5	46.9		
	Total Power Input KW	6.85	6.74	6.64	6.64	6.99	6.88	6.78	6.78	7.14	7.03	6.93	6.92	7.34	7.22	7.12	7.12	7.54	7.42	7.31	7.31		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	36.1	45.1	45.0	42.7	39.9	48.7	46.8	44.3	43.7	52.3	48.5	45.9	46.9	53.0	49.0	46.4	50.1	53.6	49.5	46.9
			83	31.8	40.8	44.8	42.6	34.9	44.6	46.7	44.2	37.9	48.4	48.5	45.9	40.3	50.5	49.0	46.4	42.6	52.6	49.5	46.9
			80	27.6	36.5	41.5	39.4	29.8	39.5	44.9	42.6	32.1	42.5	48.3	45.8	33.6	44.6	48.9	46.3	35.2	46.6	49.5	46.9
			77	23.3	32.2	37.2	35.1	24.8	34.5	39.8	37.5	26.3	36.7	42.4	40.0	27.0	37.9	42.2	39.7	27.7	39.2	42.0	39.4
			74	19.0	28.0	32.9	30.8	19.7	29.4	34.8	32.5	20.4	30.9	36.6	34.2	20.3	31.3	35.6	33.1	20.3	31.7	34.6	32.0
			71	-	23.7	28.6	26.5	-	24.4	29.7	27.4	-	25.0	30.8	28.3	-	24.6	29.0	26.4	-	24.2	27.1	24.5
68	-	19.4	24.4	22.3	-	19.3	24.6	22.4	-	19.2	24.9	22.5	-	18.0	22.3	19.8	-	16.8	19.7	17.1			
115 °F	Net Cap MBH	48.4	44.7	41.0	36.9	50.5	46.6	42.8	38.5	52.6	48.6	44.6	40.1	52.9	48.8	44.9	40.3	53.2	49.1	45.1	40.5		
	Total Power Input KW	7.56	7.37	7.33	7.27	7.69	7.50	7.46	7.40	7.82	7.63	7.59	7.53	8.05	7.85	7.81	7.75	8.28	8.08	8.03	7.97		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	34.6	43.3	41.0	36.9	38.4	45.9	42.8	38.5	42.2	48.6	44.6	40.1	45.2	48.8	44.9	40.3	48.3	49.1	45.1	40.5
			83	30.3	39.1	41.0	36.9	33.3	42.8	42.8	38.5	36.3	46.5	44.6	40.1	38.6	47.8	44.9	40.3	40.8	49.1	45.1	40.5
			80	26.1	34.8	38.6	34.8	28.3	37.7	41.9	37.8	30.5	40.7	45.2	40.7	31.9	42.6	45.1	40.6	33.4	44.6	45.1	40.5
			77	21.8	30.5	34.3	30.5	23.2	32.7	36.8	32.7	24.7	34.9	39.3	34.9	25.3	36.0	38.5	34.0	25.9	37.1	37.7	33.1
			74	17.5	26.2	30.0	26.3	18.2	27.6	31.8	27.7	18.8	29.0	33.5	29.1	18.7	29.4	31.9	27.4	18.5	29.7	30.2	25.6
			71	-	22.0	25.8	22.0	-	22.6	26.7	22.6	-	23.2	27.7	23.2	-	22.7	25.2	20.7	-	22.2	22.8	18.2
68	-	17.7	21.5	17.7	-	17.5	21.7	17.6	-	17.4	21.8	17.4	-	16.1	18.6	14.1	-	14.8	15.3	10.7			
125 °F	Net Cap MBH	43.8	40.5	37.1	31.1	46.0	42.6	38.9	32.7	48.2	44.6	40.7	34.3	48.2	44.6	40.8	34.2	48.2	44.6	40.8	34.2		
	Total Power Input KW	8.30	8.00	8.00	7.90	8.40	8.10	8.10	8.00	8.50	8.20	8.20	8.10	8.80	8.50	8.50	8.40	9.00	8.70	8.70	8.60		
	Sensible Capacity MBH	Entering Dry Bulb, °F	86	33.1	41.6	37.1	31.1	36.8	43.2	38.9	32.7	40.6	44.8	40.7	34.3	43.5	44.7	40.8	34.2	46.5	44.6	40.8	34.2
			83	28.8	37.3	37.3	31.2	31.8	41.0	39.0	32.7	34.7	44.7	40.7	34.3	36.9	45.2	40.8	34.2	39.1	45.6	40.8	34.2
			80	24.5	33.0	35.7	30.2	26.7	36.0	38.9	32.9	28.9	38.9	42.0	35.6	30.3	40.7	41.4	34.9	31.6	42.5	40.8	34.2
			77	20.3	28.8	31.4	26.0	21.7	30.9	33.8	27.9	23.1	33.1	36.2	29.8	23.6	34.1	34.8	28.3	24.2	35.1	33.3	26.8
			74	16.0	24.5	27.1	21.7	16.6	25.9	28.8	22.8	17.2	27.2	30.4	24.0	17.0	27.4	28.1	21.6	16.7	27.6	25.9	19.3
			71	-	20.2	22.9	17.4	-	20.8	23.7	17.8	-	21.4	24.6	18.2	-	20.8	21.5	15.0	-	20.2	18.4	11.9
68	-	15.9	18.6	13.1	-	15.8	18.7	12.7	-	15.6	18.7	12.3	-	14.2	14.8	8.2	-	12.7	10.9	4.4			

¹ = These capacities are net capacities - indoor fan heat deducted.

ALL SENSIBLE CAPACITY

SIDE SUPPLY AIR BLOWER PERFORMANCE

208 volts

MODEL NO. DNA	MOTOR SPEED	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	LOW	743	243	700	235	657	226	614	218	549	207	483	195	615	246	509	226	608	358	465	326	-	-
024	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MED	994	333	947	321	901	309	854	297	774	280	695	263	894	422	751	390	608	358	-	-	-	-
	LOW	743	243	700	235	657	226	614	218	549	207	483	195	615	246	509	226	608	358	-	-	-	-
030	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MED	994	333	947	321	901	309	854	297	774	280	695	263	894	422	751	390	-	-	-	-	-	-
	LOW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MED	1432	650	1381	628	1330	605	1279	583	1210	556	1140	529	1390	685	1315	657	1204	623	1093	588	982	554
	LOW	1191	527	1149	510	1107	494	1065	477	1009	459	952	441	1140	529	1071	502	977	477	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
048,060	HI	-	-	-	-	-	-	1908	1023	1832	982	1737	938	1656	889	1348	789	1252	754	-	-	-	-
	MED	-	-	-	-	-	-	1773	894	1726	869	1674	852	1613	832	1339	731	-	-	-	-	-	-
	LOW	-	-	-	-	1672	841	1610	804	1542	773	-	-	-	-	-	-	-	-	-	-	-	-

NOTE: Above data includes allowances for a dry evaporator coil , gas heat exchanger and no filters. For additional pressure drops, refer to the "Additional Static Pressure Resistance" table.

230, 460 and 575 volts

MODEL NO. DNA	MOTOR SPEED	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	LOW	-	-	-	-	-	-	721	255	651	241	581	226	706	280	511	212	588	257	470	234	568	436
024	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MED	-	-	-	-	999	353	944	338	865	319	785	299	929	491	809	473	688	454	-	-	-	-
	LOW	998	372	906	333	813	294	721	255	651	241	581	226	706	280	-	-	-	-	-	-	-	-
030	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MED	1110	383	1055	368	999	353	944	338	865	319	785	299	1019	514	929	491	809	473	-	-	-	-
	LOW	998	372	906	333	813	294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	HI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MED	-	-	-	-	1483	682	1420	655	1341	625	1262	596	1447	754	1360	722	1264	692	1169	663	1073	633
	LOW	1384	625	1336	605	1287	584	1239	564	1167	537	1094	509	1022	482	903	460	803	460	692	501	-	-
042	HI	-	-	-	-	1705	847	1622	818	1535	786	1447	754	1360	722	1264	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	-	-	-	-	-	-	-	-	-	-
048,060	HI	-	-	-	-	-	-	2094	1152	2010	1117	1908	1082	1820	1040	1480	926	1370	890	1220	845	-	-
	MED	-	-	-	-	-	-	1955	987	1870	947	1785	914	1690	877	1400	773	1290	744	1160	708	-	-
	LOW	-	-	-	-	1893	945	1815	903	1730	868	1640	819	1545	780	1290	695	1180	662	1060	625	-	-

NOTE: Above data includes allowances for a dry evaporator coil , gas heat exchanger and no filters. For additional pressure drops, refer to the "Additional Static Pressure Resistance" table.

BOTTOM SUPPLY AIR BLOWER PERFORMANCE

208 volts

MODEL NO. DNA	MOTOR SPEED	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
048,060	HI	-	-	-	-	-	-	1928	1032	1844	994	1636	923	1515	888	1441	849	-	-	-	-	-	-
	MED	-	-	-	-	-	-	1805	837	1693	859	1580	819	1473	788	-	-	-	-	-	-	-	-
	LOW	-	-	-	-	1725	850	1660	807	1557	776	1428	728	-	-	-	-	-	-	-	-	-	-

NOTE: Above data includes allowances for a dry evaporator coil , gas heat exchanger and no filters. For additional pressure drops, refer to the "Additional Static Pressure Resistance" table.

230, 460 and 575 volts

MODEL NO. DNA	MOTOR SPEED	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	-	-	-	-	-
	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	-	-	-	-	-	-	-	-	-	-
048,060	HI	-	-	-	-	-	-	2068	1151	1985	1118	1758	1034	1625	992	1555	961	1408	914	1270	872	-	-
	MED	-	-	-	-	-	-	1928	998	1806	935	1680	889	1560	854	1448	816	1325	773	1214	735	-	-
	LOW	-	-	-	-	1878	924	1786	875	1655	838	1525	786	1440	761	1336	717	1196	679	1097	646	-	-

NOTE: Above data includes allowances for a dry evaporator coil , gas heat exchanger and no filters. For additional pressure drops, refer to the "Additional Static Pressure Resistance" table.

ADDITIONAL STATIC PRESSURE RESISTANCE

1-1/2 THRU 3-1/2 TON (DNA048 AND DNA060)

DESCRIPTION	RESISTANCE, IWG															
	CFM															
	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000
Wet Evaporator coil	.01	.01	.01	.02	.03	.04	.05	.06	.07	.08	.09	.09	-	-	-	-
Economizer	.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	-	-	-	-

NOTE: 1. Deduct these resistance values from the available external static pressure shown in the respective Blower Performance Table.

2. The pressure thru 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.

4 AND 5 TON (DNA048 AND DNA060)

DESCRIPTION	RESISTANCE, IWG															
	CFM															
	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000
Wet Evaporator coil	-	-	-	-	-	-	-	.03	.04	.05	.06	.07	.07	.08	.09	.09
Economizer	-	-	-	-	-	-	-	.02	.02	.03	.03	.04	.04	.04	.05	.05
Filter/Frame Kit	-	-	-	-	-	-	-	.04	.05	.05	.06	.07	.08	.09	.10	.11

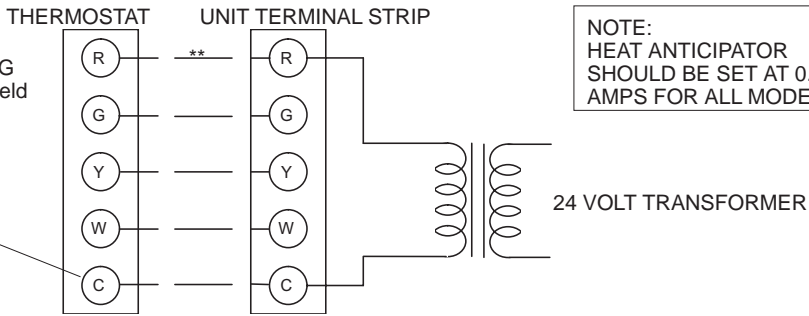
NOTE: 1. Deduct these resistance values from the available external static pressure shown in the respective Blower Performance Table.

2. The pressure thru 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.

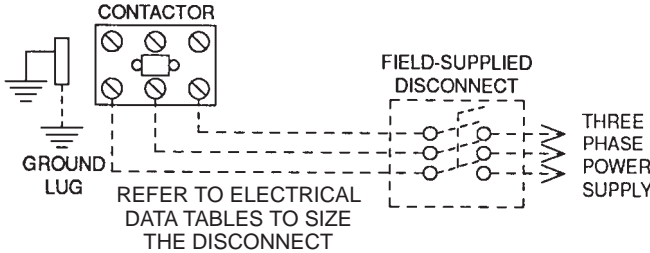
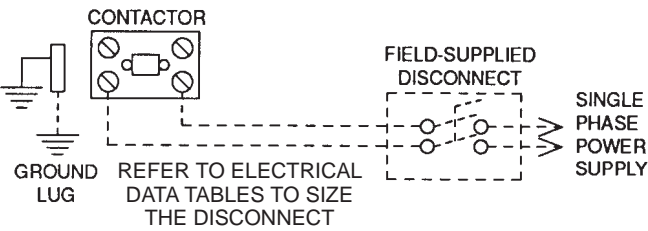
FIELD WIRING DIAGRAM

** = Minimum wire size of 18 AWG wire should be used for all field installed 24 volt wire.

PROGRAMMABLE THERMOSTAT ONLY



CONTROL WIRING



POWER WIRING

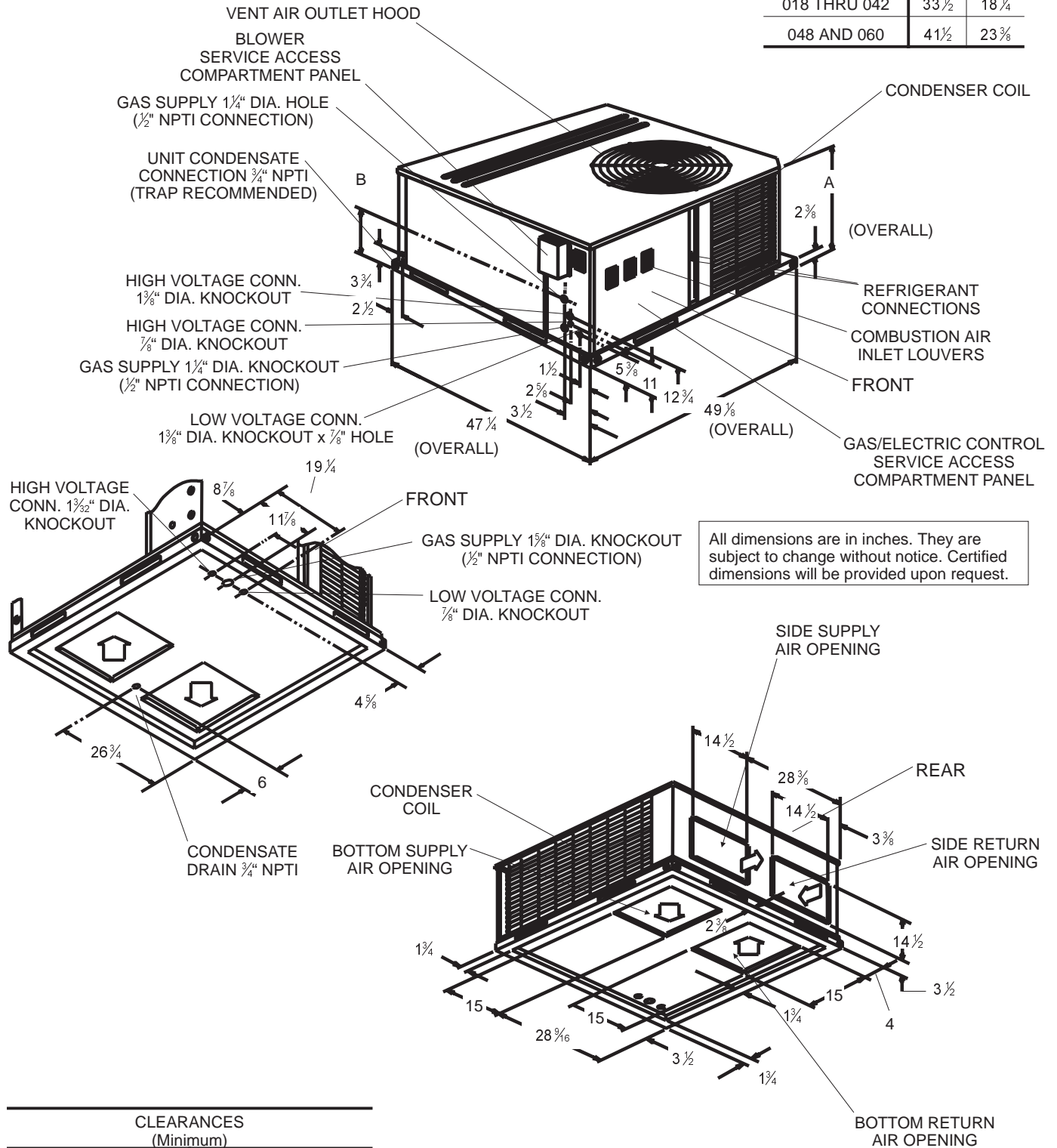
ELECTRICAL DATA

MODEL DNA	POWER SUPPLY	VOLTAGE LIMITATIONS ¹		COMPRESSOR		COND. FAN MOTOR, FLA	SUPPLY AIR BLOWER MOTOR, FLA	MIN. CIRCUIT AMP.	MAX. FUSE SIZE, AMPS ²	MAX. HACR BREAKER SIZE, AMPS	UNIT POWER FACTOR	TRANSFORMER SIZE (VA) ³
		MIN.	MAX.	RLA	LRA							
018	208/230-1-60	187	253	9.0	48.0	1.1	2.2	14.5	20	20	.96	40
024	208/230-1-60	187	253	11.5	60.0	1.1	2.2	17.7	25	25	.96	40
030	208/230-1-60	187	253	14.7	73.0	1.1	2.2	21.7	30	30	.96	40
036	208/230-1-60	187	253	17.3	94.0	1.1	3.5	26.2	35	35	.96	40
042	208/230-1-60	187	253	20.5	120.0	1.1	3.5	30.2	40	40	.96	40
048	208/230-1-60	187	253	24.4	140.0	1.3	7.0	38.8	50	50	.96	40
060	208/230-1-60	187	253	28.9	175.0	1.3	7.0	44.4	60	60	.96	40
036	208/230-3-60	187	253	10.9	78.0	1.1	3.5	18.2	25	25	.96	75
042	208/230-3-60	187	253	14.1	110.0	1.1	3.5	22.2	30	30	.96	75
048	208/230-3-60	187	253	14.1	105	1.3	7.0	25.9	35	35	.96	75
060	208/230-3-60	187	253	15.5	125	1.3	7.0	29.5	40	40	.96	75
036	460-3-60	414	504	5.8	40.0	0.6	1.8	9.6	15	15	.96	75
042	460-3-60	414	504	7.1	54.0	0.6	1.8	11.2	15	15	.96	75
048	460-3-60	414	504	7.1	55.0	0.7	3.5	13.1	20	20	.96	75
060	460-3-60	414	504	8.9	66.5	0.7	3.5	15.4	20	20	.96	75
036	575-3-60	518	630	4.5	32.0	0.4	1.5	7.5	15	15	.96	75
042	575-3-60	518	630	5.8	44.0	0.4	1.5	9.1	15	15	.96	75
048	575-3-60	518	630	5.7	45.0	0.6	2.8	10.5	15	15	.96	75
060	575-3-60	518	630	7.1	50.0	0.6	2.8	12.3	15	15	.96	75

Note; Electrical data based on 104°F outdoor air ambient temperature.
¹ = Rated in accordance with ARI Standard 110, utilization range "A".
² = Dual element, time delay type.
³ = If economizer or motorized damper are to be used, 75 VA is required. Refer to price pages for future details.

UNIT DIMENSIONS

UNIT SIZE	DIMENSION	
	"A"	"B"
018 THRU 042	33 1/2	18 1/4
048 AND 060	41 1/2	23 3/8



CLEARANCES (Minimum)	
Front	36"
Back	0"
Left Side (Filter Access)	24"
Right Side	12"
Below Unit ¹	0"
Above Unit ²	36" (For Condenser Air Discharge)

¹ Units may be installed on combustible floors made from wood or class A, B or C roof covering material.

² Units must be installed outdoors. Overhanging structures or shrubs should not obstruct condenser air discharge outlet.

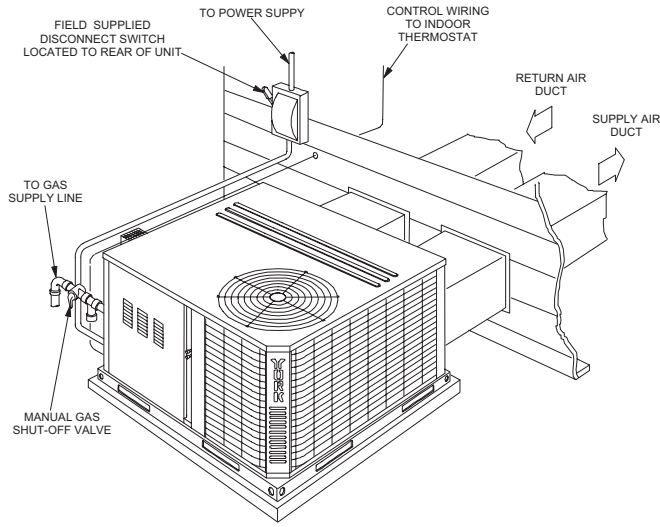
NOTE:

A 1" clearance must be provided between any combustible material and the supply air ductwork.

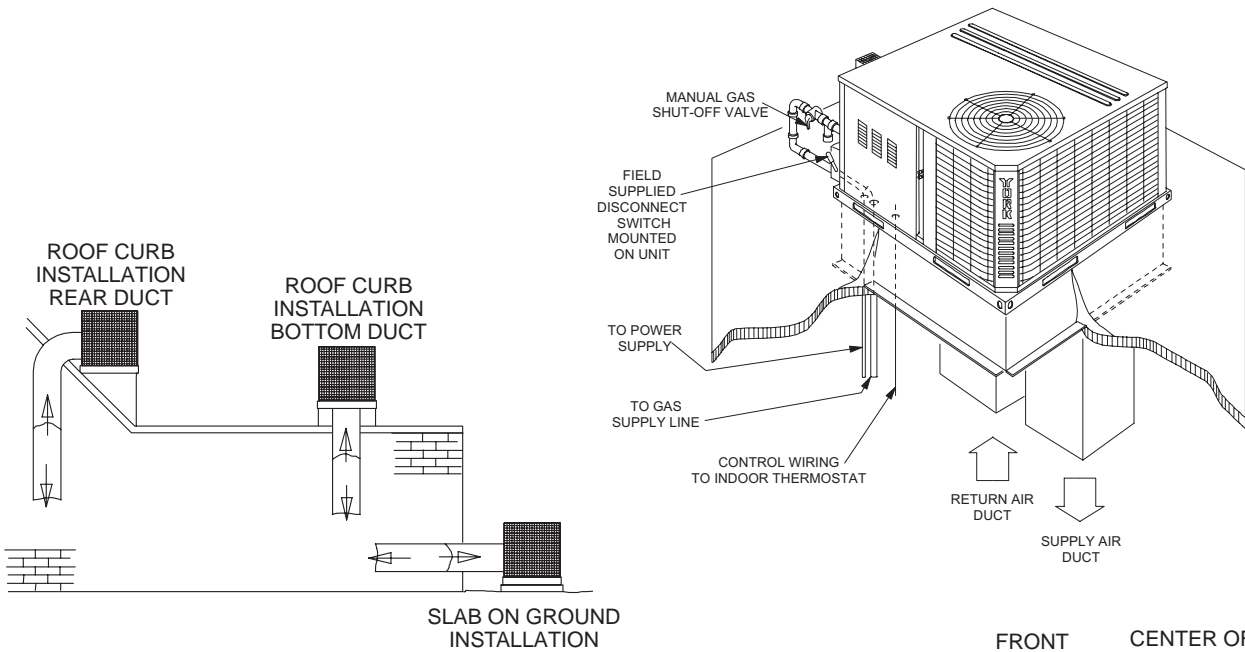
The products of combustion must not be allowed to accumulate within a confined space and recirculate.

TYPICAL APPLICATIONS

TYPICAL SLAB ON GROUND INSTALLATION

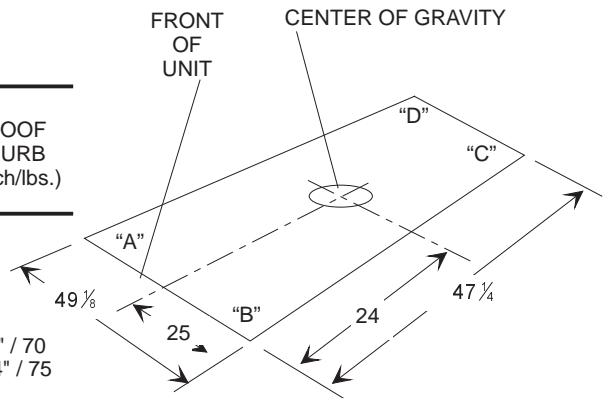


TYPICAL ROOF CURB INSTALLATION



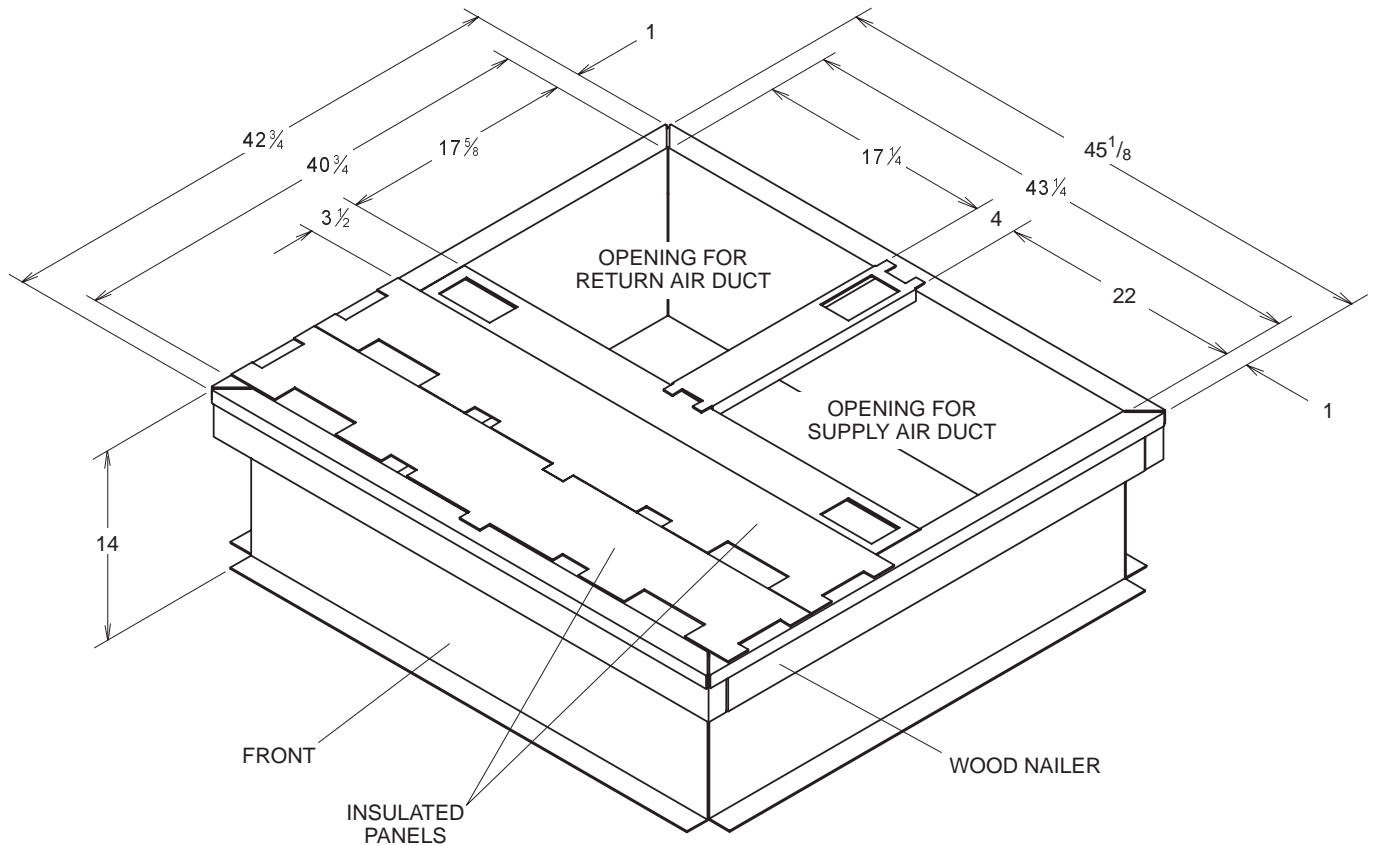
SLAB ON GROUND INSTALLATION

UNIT SIZE	SHIPPING WEIGHT (lbs.)	OPERATING WEIGHT (lbs.)	OPERATING CORNER WEIGHTS (location, lbs.)				ECONOMIZER (lbs.)	ROOF CURB (inch/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	415	410	104	100	101	105		
048	475	470	119	115	116	120		
060	480	475	120	116	117	122		



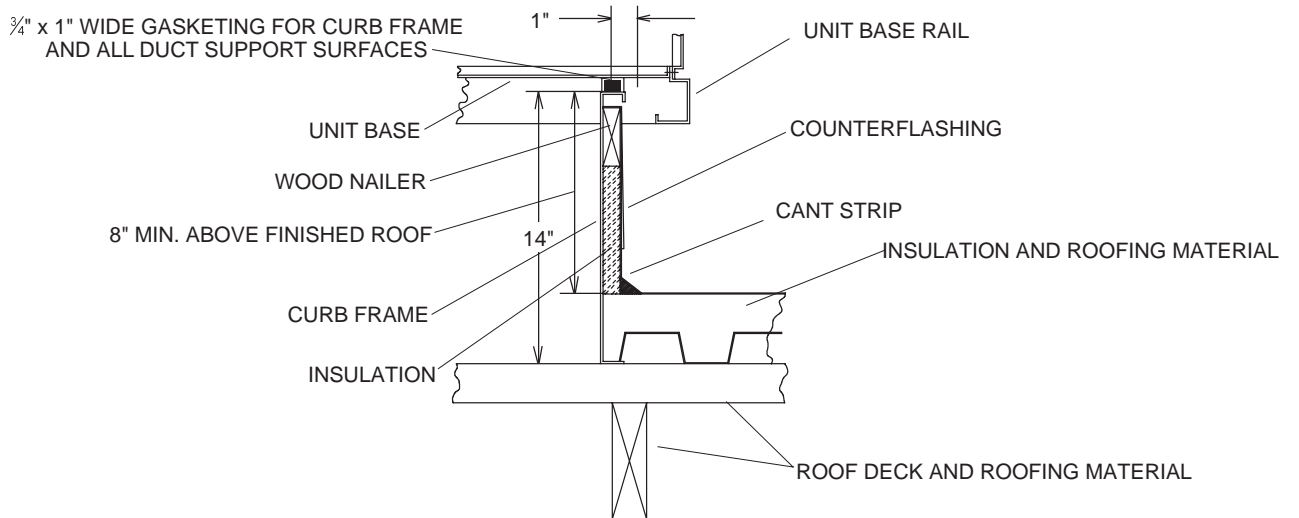
ROOF CURB DIMENSIONS

(8" roof curb also available)

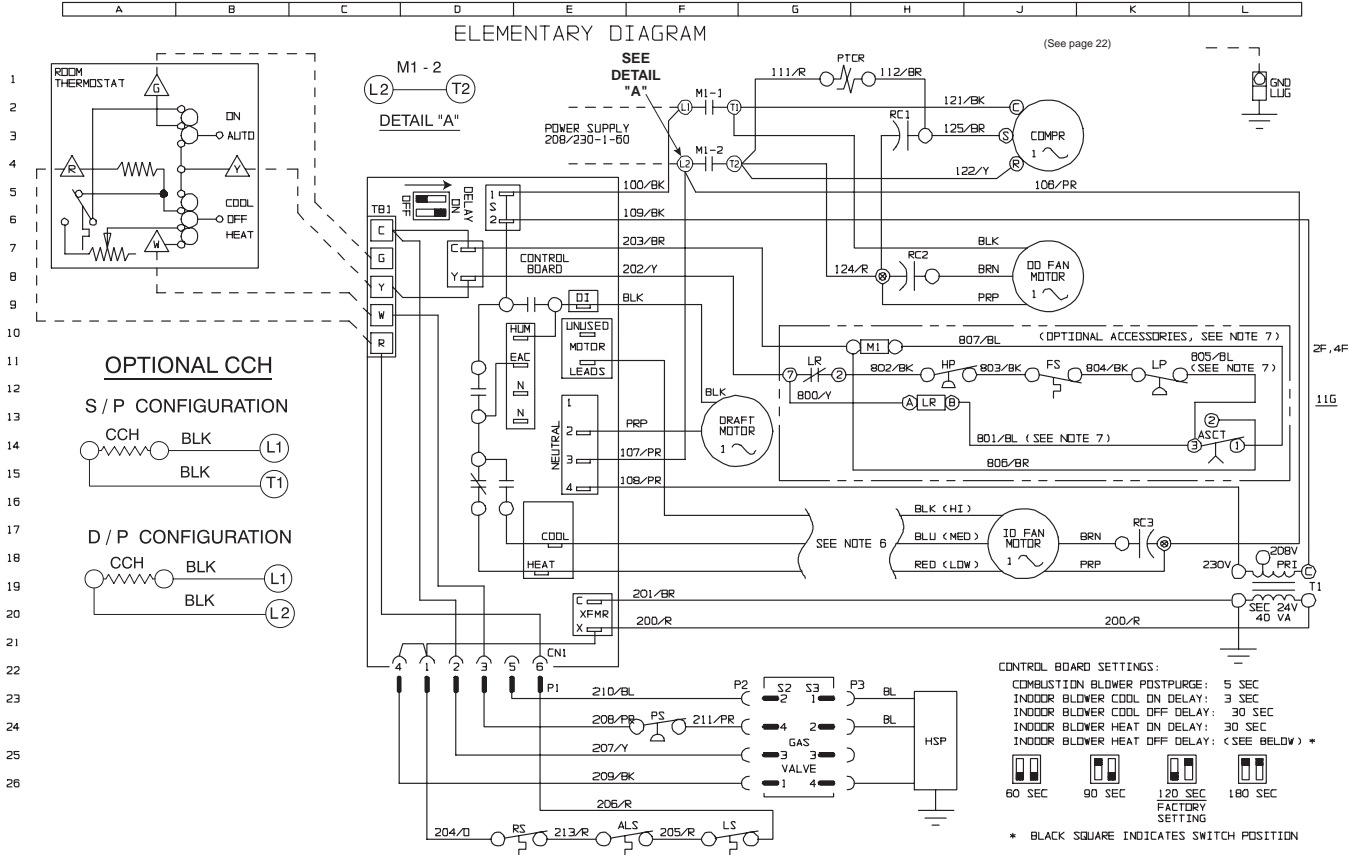


RECOMMENDED DUCT SIZE	
SUPPLY AIR DUCT	17 1/8" x 21 1/2"
RETURN AIR DUCT	17 1/8" x 16 3/4"

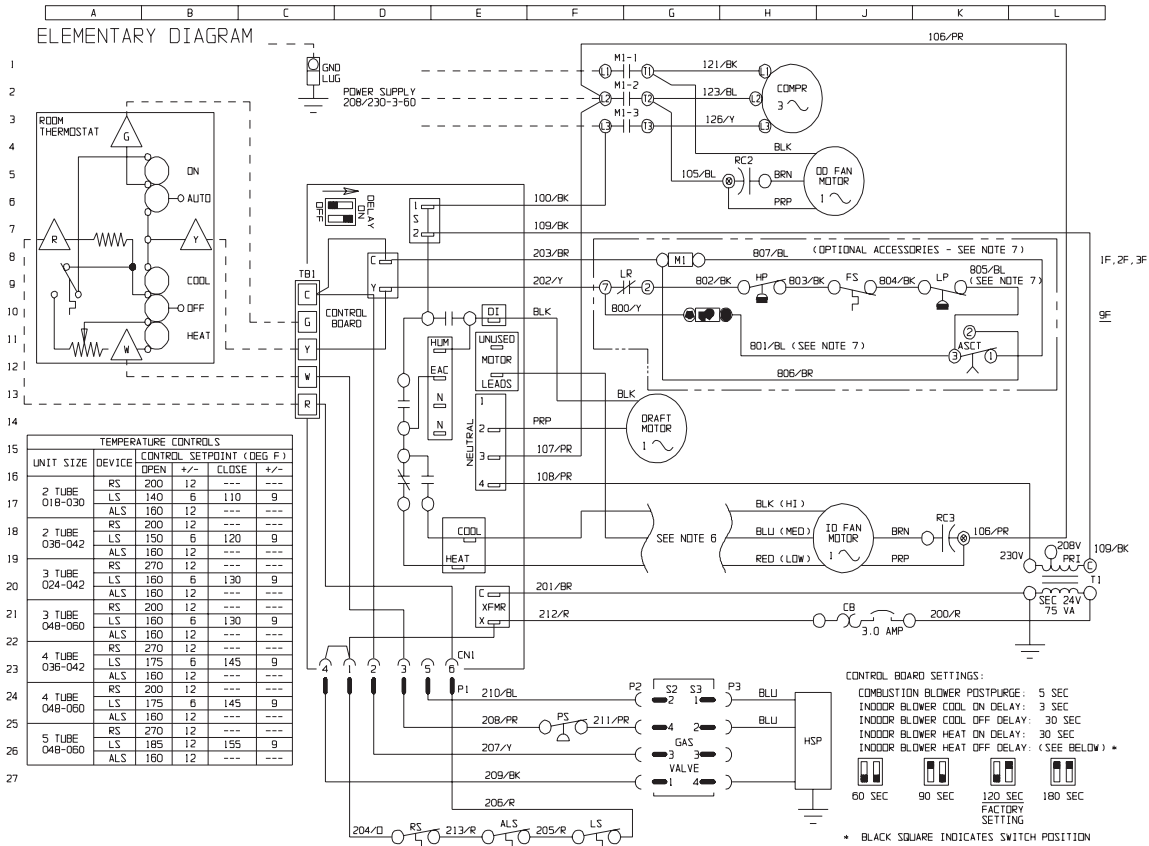
ROOF CURB APPLICATION



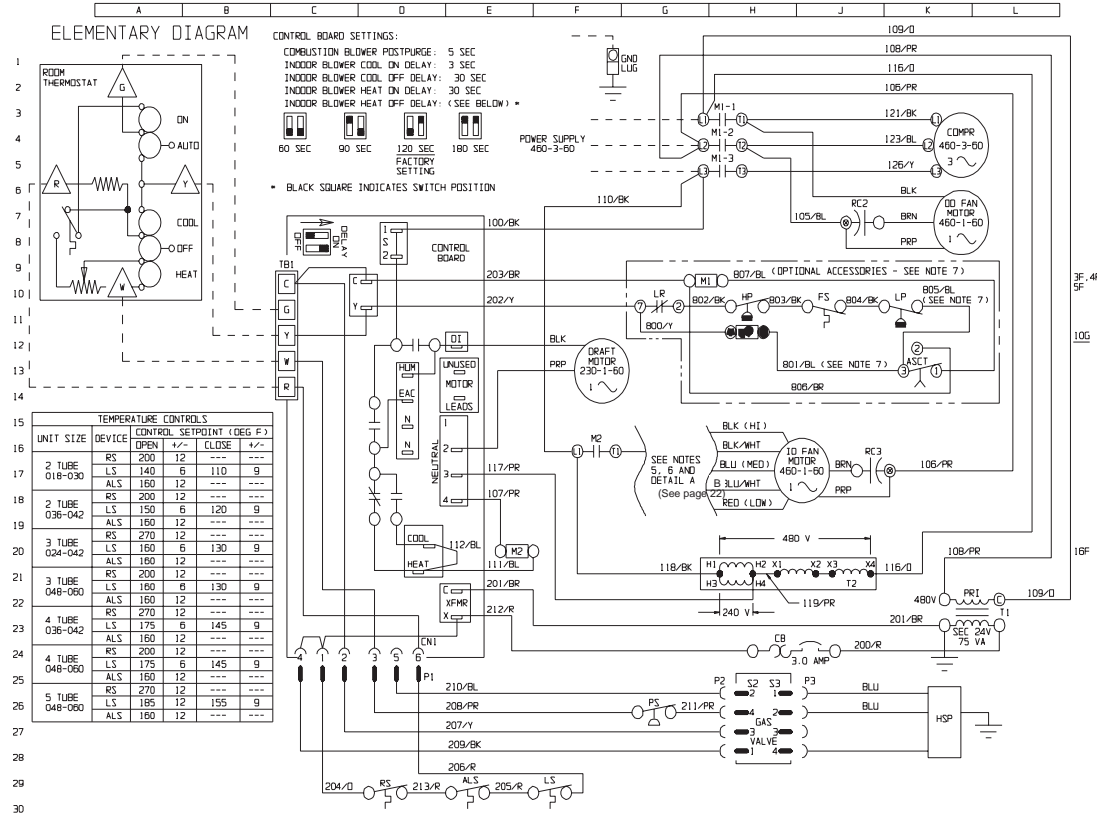
TYPICAL WIRING DIAGRAM (208/230-1-60 POWER SUPPLY)



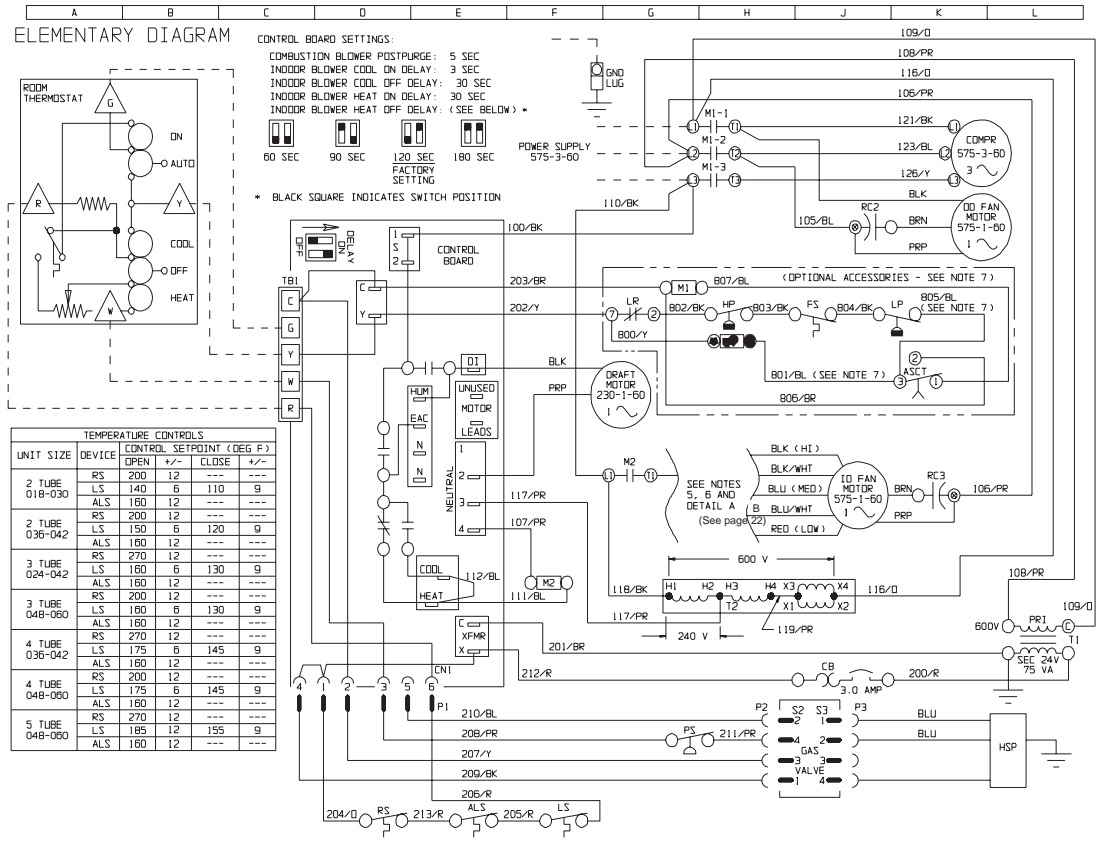
TYPICAL WIRING DIAGRAM (208/230-3-60 POWER SUPPLY)



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



TYPICAL WIRING DIAGRAM (575-3-60 POWER SUPPLY)



TYPICAL WIRING DIAGRAM NOTES (See pages 20 and 21)

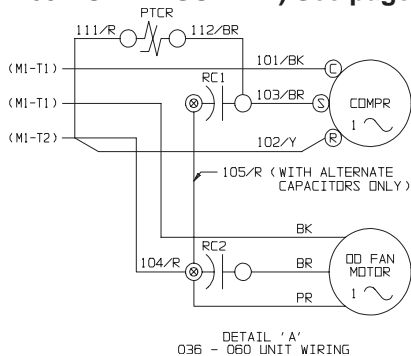
1. ALL FIELD WIRING TO BE ACCOMPLISHED FOLLOWING CITY, LOCAL AND/OR NATIONAL CODES IN EFFECT AT TIME OF INSTALLATION OF THIS UNIT.
2. CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. IF ANY OF THE WIRE AS SUPPLIED WITH 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. 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 APPROX 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 CONNECTED TO M1 COIL.
8. SHUNT CONTACT ALSO USED WITH CRANKCASE HEATER. (OPTIONAL)

CAUTION - OPEN ALL DISCONNECTS BEFORE SERVICING THIS UNIT

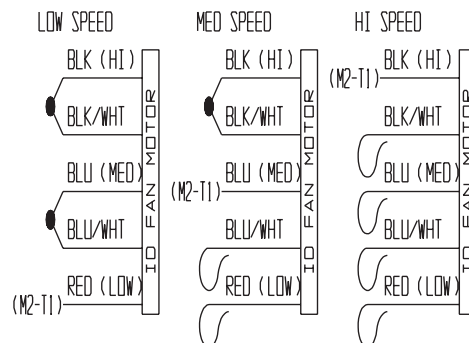
TYPICAL WIRING DIAGRAM LEGEND (See pages 20 and 21)

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
COMP	COMPRESSOR
HSP	HOT SURFACE TO PILOT
LS	LIMIT SWITCH
ALS	AUXILIARY 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

WIRING DIAGRAM DETAIL "A" (208/230-1-60 POWER SUPPLY) See page 20



WIRING DIAGRAM DETAIL "B" (460 & 575-3-60 POWER SUPPLY) See page 21



MECHANICAL SPECIFICATIONS

GENERAL DESCRIPTION

Units shall be factory-assembled, single packaged, Electric Cooling/Gas Heating units, designed for outdoor mounted installation. Units shall have minimum SEER ratings of 10.0 and minimum AFUE ratings of 80%. 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

1. Unit cabinet shall be constructed of G90 galvanized steel, with exterior surfaces coated with a non-chalking, powdered paint finish, certified at 1000 hour salt spray test per ASTM-B117 standards.
2. The unit top shall be a single piece "Water Shed" design, with drip edges and no-seam corners to provide optimum water integrity.
3. Unit shall have a rigidly mounted condenser coil guard to provide protection from objects and personnel after installation.
4. 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.
5. Cabinet panels shall be "large" size, easily removable for servicing and maintenance, with built-in lift handles.
6. 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.
7. Full perimeter base rails shall be provided to assure reliable transit of equipment, overhead rigging, fork truck access and proper sealing on roof curb applications. Base rails shall be removable, when required, to lower unit height.
8. Filters shall be furnished and be accessible through a removable access door, sealed air tight.
9. 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.
10. Condensate pan shall be internally sloped and conform to ASHARE 62-89 self-draining standards, with 3/4" NPTI copper, ridged mount connection.

INDOOR (EVAPORATOR) FAN ASSEMBLY

1. Fan shall be direct drive, multi-speed design. Job site selected (BHP) brake horse power shall not exceed the motors nameplate horse power rating.
2. 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.
3. Bearings shall be sealed and permanently lubricated for longer life and no maintenance.
4. Fan assembly shall be "Slip Track" (slide-out) design for easy removal and cleaning.

OUTDOOR (CONDENSER) FAN ASSEMBLY

1. 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.
2. The outdoor fan motor shall be totally enclosed with permanently lubricated bearings and internally protected against overload conditions.

REFRIGERANT COMPONENTS

1. 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.
2. 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.
3. Refrigerant Circuit and Refrigerant Safety Components shall include:
 - A. Independent fixed-orifice expansion devices.
 - B. 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 of 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.



ISO 9001
Certified Quality
Management System



Heating and Air Conditioning