



Heating and Air Conditioning

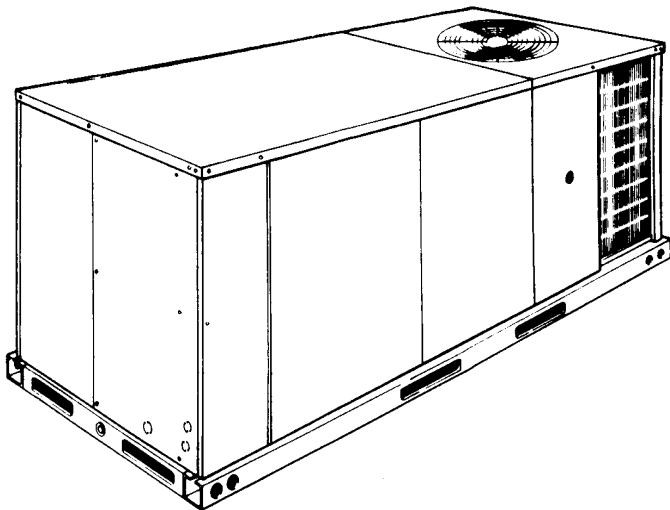
## TECHNICAL GUIDE

### SINGLE PACKAGE HEAT PUMP UNITS

BP 036 thru 072

3 - 6 NOMINAL TONS

HIGH EFFICIENCY



### DESCRIPTION

YORK Sunline 2000™ heat pumps are convertible single package units with a common cabinet and a common roof curb for the 3-6 ton sizes. The units were designed for light commercial and commercial applications. They can easily be installed on a roof curb, slab, roof jack or frame.

All units include:

- Powder Paint finish that meets ASTM-B-117 1000 hour salt spray standards
- Permanently lubricated motors
- Bottom or side air discharge configuration capability (field convertible)
- Manufactured under the quality standards of ISO9001
- **Simplicity**® Control Board
- Copper tube/aluminum fin coils
- Easy access to all components
- Rigging holes in base rails for lifting
- Fork lift slots on three sides
- Single point power connection
- Complete factory package - tested, charged and wired
- CSA agency listing on all units

### WARRANTY

- Factory Limited Parts Warranty
- One-year parts warranty
- A Five-year parts warranty on the compressor and electric heat elements.



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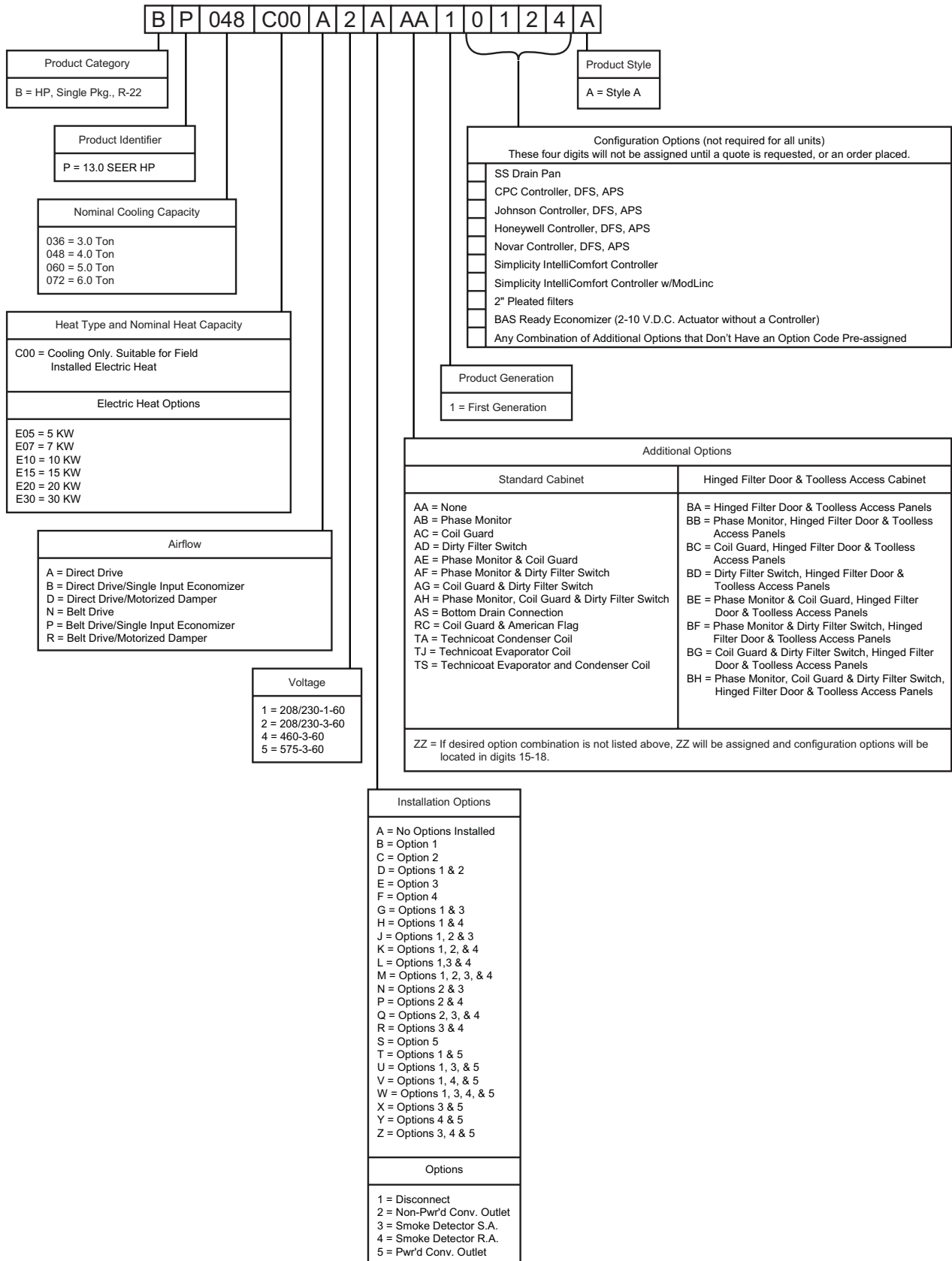
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# PRODUCT NOMENCLATURE



## FEATURES

All models are available with a wide variety of factory-mounted options such as electric heaters, phase monitor, convenience outlet, dirty filter switch, disconnect switch, smoke detectors, and coil guards to make them suitable for almost every application.

All units are self-contained and assembled on full perimeter base rails with forklift holes on three sides and holes for overhead rigging. Every unit is completely piped, wired, charged and tested at the factory to simplify the field installation and to provide years of dependable operation.

All models (including those with an economizer) are suitable for either bottom or horizontal duct connections. For bottom duct, remove the sheet metal panels from the supply and return air openings through the base of the unit. For horizontal duct, remove the supply and return air panels on the rear of the unit.

All models are available with these “factory mounted” outdoor air damper options:

- Single enthalpy economizer
- Motorized outdoor air damper

Supply air blowers are equipped with either direct drive or belt drive that can be adjusted to meet the exact requirements of the job.

All compressors are equipped with internal pressure relief. Every refrigerant circuit includes a liquid line filter-drier, a high pressure switch and a suction line with a freeze-stat and low pressure/loss of charge switch to protect all system components.

- **Simplicity® Controls - Simplicity®** control boards have standardized a number of features previously available only as options or by utilizing additional controls.
  - **Low Ambient** - An integrated low-ambient control allows all units to operate in the cooling mode down to 0°F outdoor ambient without additional assistance. Optionally, the control board can be programmed to lockout the compressors when the outdoor air temperature is low or when free cooling is available.
  - **Anti-Short Cycle Protection** - To aid compressor life, an anti-short cycle delay is incorporated into the standard controls. Compressor reliability is further ensured by programmable minimum run times. For testing, the anti short cycle delay can be temporarily overridden with the push of a button.

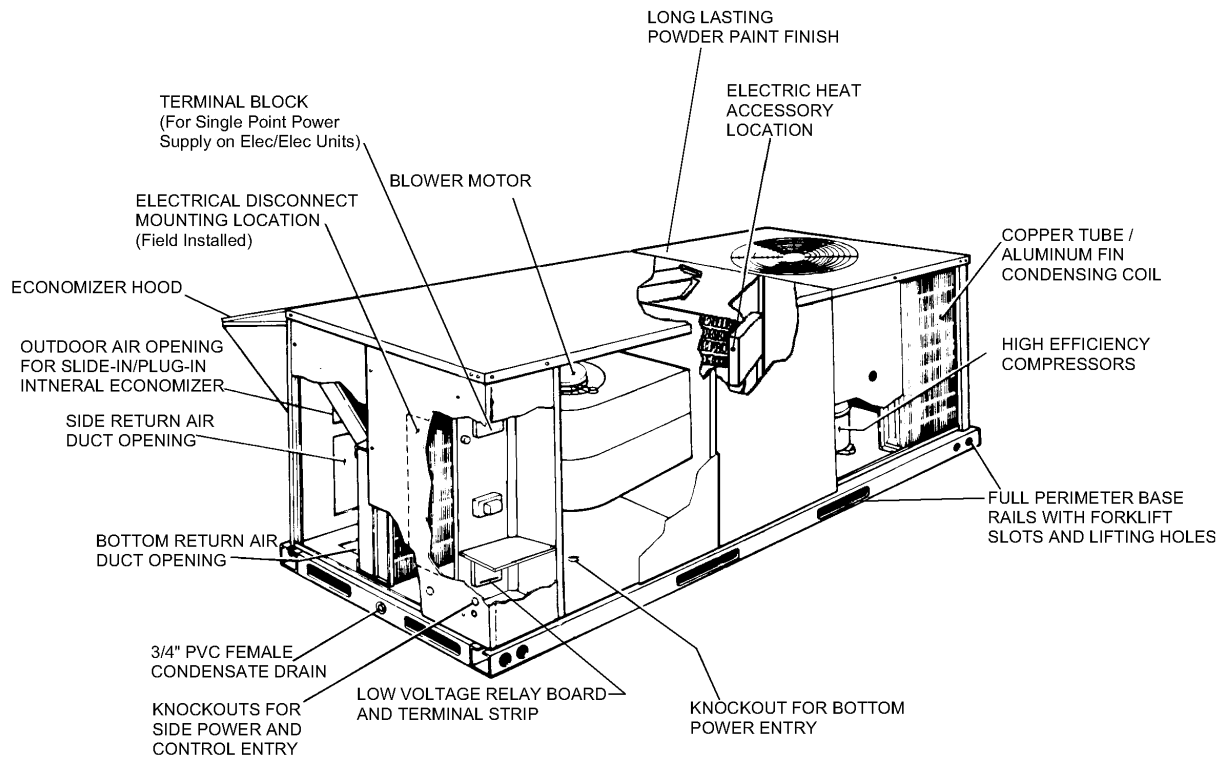
- **Fan Delays** - Fan on and fan off delays are fully programmable and are independent of one another. All units are programmed with default values based upon their configuration of cooling and heat.
- **Safety Monitoring** - The control board monitors the high and low-pressure switches, the freeze-stats, the gas valve, if applicable, and the temperature limit switch on gas heat units. The unit control board will alarm on ignition failures, compressor lockouts and repeated limit switch trips.
- **Nuisance Trip Protection** - To prevent nuisance trouble calls, the control board uses a “three strikes, you’re out” philosophy. The high and low-pressure switches and the freeze-stats must trip three times within two hours before the unit control board will lock out the compressor.
- **On Board Diagnostics** - Each alarm will energize a trouble light on the thermostat, if so equipped, and flash an alarm code on the control board LED. Each high and low-pressure switch alarm as well as each freeze-stat alarm has its own flash code. The control board saves the five most recent alarms in memory, and these alarms can be reviewed at any time. Alarms and programmed values are retained through the loss of power.

All units have long lasting powder paint cabinets with 1000 hour salt spray test approval under ASTM-B117 procedures.

All models are CSA listed.

- **Warranty** - All models include a one-year limited parts warranty on the complete unit. Compressors and electric heater elements carry a five-year warranty
- **Electric Heat Operation** - All electric heat models are wired for a single power source and include a bank of nickel chromium elements mounted at the discharge of the supply air blower to provide a high velocity and uniform distribution of air across the heating elements. Every element is fully protected against excessive temperature by thermal limit switches.
 

The power supply wiring can be routed into the control box through a threaded pipe connection (field supplied) in the base pan of the unit or through a knockout in the wiring panel on the side of the unit.
- **BAS Controls** - York’s Sunline™ series units offer factory mounted BAS controls such as Simplicity® INTELLI-Comfort™, Novar, Honeywell, Johnson, and CPC.



**FIGURE 1 - UNIT CUTAWAY**

## FACTORY-INSTALLED OPTIONS

- SINGLE INPUT ELECTRONIC ENTHALPY ECONOMIZERS** - Includes a slide-in / plug-in damper assembly with fully modulating spring-return motor actuator capable of introducing up to 100% outdoor air with nominal 1% leakage type dampers.

The enthalpy system contains one sensor that monitors the outdoor air and determines when the air is cool enough and dry enough to provide free cooling.

The rainhood is painted to match the basic unit and must be field-assembled before installing.
- MOTORIZED OUTDOOR AIR INTAKE DAMPER** - Includes a slide-in / plug-in damper assembly with a 2-position, spring return motor actuator which opens to a pre-set position whenever the supply air blower is operating and will drive fully closed when the blower unit shuts down.

The rain hood is painted to match the basic unit and must be field assembled before installing.
- PHENOLIC COATED EVAPORATOR AND CONDENSER COILS** - Special coating process that utilizes Technicoat 10-1™ processes. Coating is applied by total immersion of the complete coil for maximum protection.

- ELECTRIC HEATERS** - Wired for single point power supply. These nickel chromium heater elements are provided with limit and automatic reset capability to prevent operation at excessive temperatures.
- FILTER OPTIONS** - Standard units are shipped with 1" throw-away filters installed. 2" pleated filters are offered as a factory installed option.
- CONVENIENCE OUTLET** - This 110 volt outlet can be "powered" by the unit with a stepdown transformer or the unit may be ordered with a "non-powered" convenience outlet that can be wired in the field.
- DISCONNECT SWITCH** - For heat pump units with electric heat, an HACR breaker sized to the unit is provided. For heat pump units without electric heat, a switch sized to the largest electric heat available for the particular unit is provided. Factory-installed option only.
- BAS - Building Automation System Controls**  
**Simplicity® INTELLI-Comfort™ CONTROL** - The York® Simplicity® INTELLI-Comfort™ control is factory installed. It includes a supply air sensor, a return air sensor, and an outside air sensor. There are provisions for a field installed dirty filter indicator switch, an air-proving switch, an Outside Air Humidity sensor, a Return Air Humidity sensor, an Inside IAQ sensor, and an Outside Air IAQ sensor. Construction mode operation, 365-day real time clock with 7

day programming plus holiday scheduling is built-in. Two different modes of demand ventilation are achieved through the INTELLI-Comfort™ using CO<sub>2</sub> sensors. It uses an inside CO<sub>2</sub> sensor to perform Demand Ventilation. It can also use an Outside CO<sub>2</sub> sensor to perform Differential Demand Ventilation. It uses a Patented Comfort Ventilation algorithm to provide comfortable ventilation air temperature. The patented economizer-loading algorithm will protect the equipment when harsh operating conditions exist. Humidity in the occupied space or return duct can be monitored and controlled via humidity sensors and the on-board connection for hot gas re-heat system. It uses the INTELLI-Start™ algorithm to maximize energy savings by recovering the building from the Unoccupied Setpoints to the Occupied Setpoints just in time for the Occupied Time Period to begin. The Simplicity® INTELLI-Comfort™ balances space temperature, ventilation air temperature, CO<sub>2</sub> and humidity for ultimate comfort.

- **Simplicity® INTELLI-Comfort™ with ModLINC CONTROL** - The York® Simplicity® INTELLI-Comfort™ with ModLINC control is factory installed. It includes all the features of the INTELLI-Comfort™ control with an additional control to translate communications from MOD-BUS to the BACnet MSTP protocol.
- **Novar® BAS CONTROL** - The Novar® ETC-3 building automation system controller is factory installed. Includes supply air sensor, return air sensor, dirty filter indicator switch, and air proving switch.
- **JOHNSON CONTROLS BAS CONTROL** - The Johnson Control YK-UNT-1126 building automation system controller is factory installed. Includes supply air sensor, return air sensor, dirty filter indicator switch, and air proving switch.
- **CPC BAS CONTROL** - The Computer Process Controls Model 810-3060 ARTC Advanced Rooftop building automation system controller is factory installed. Includes supply air sensor, return air sensor, dirty filter indicator switch and air proving switch.
- **HONEYWELL BAS CONTROL** - The Honeywell W7750C building automation system controller is factory installed. Includes air supply sensor, return air sensor, dirty filter indicator switch, and air proving switch.
- **SMOKE DETECTORS** - (supply air & return air) The smoke detectors stop operation of the unit by interrupting power to the control board if smoke is detected within the air compartment.
- **STAINLESS STEEL DRAIN PAN** - An optional rust-proof stainless steel drain pan is available to provide years of trouble-free operation in corrosive environments.
- **BOTTOM DRAIN CONNECTION** - An optional bottom drain connection is available for inside the curb connections for applications in cold environments to reduce freezing drain lines.
- **COIL GUARD** - Customers can purchase a coil guard kit to protect the condenser coil from damage. This is not a hail guard kit.
- **PHASE MONITORS** - Designed to prevent unit damage. The phase monitor will shut the unit down in an out-of-phase condition.
- **DIRTY FILTER SWITCH** - This kit includes a differential pressure switch that energizes the fault light on the unit thermostat, indicating that there is an abnormally high pressure drop across the filters. Factory installed option or field installed accessory.
- **HINGED FILTER DOOR/"TOOLLESS" BLOWER AND ACCESS PANELS** (not hinged) - This option allows for easy access and maintenance.

**NOTE:** Knobs are shipped inside the unit to prevent shipping damage. These must be field installed for toolless operation.

## FIELD-INSTALLED ACCESSORIES

- **SINGLE INPUT ELECTRONIC ENTHALPY ECONOMIZERS** - Includes a slide-in / plug-in damper assembly with fully modulating spring-return motor actuator capable of introducing up to 100% outdoor air with nominal 1% leakage type dampers.

The enthalpy system contains one sensor that monitors the outdoor air and determines when the air is cool enough and dry enough to provide free cooling.

The rainhood is painted to match the basic unit and must be field-assembled before installing.

- **MOTORIZED OUTDOOR AIR INTAKE DAMPER** - Includes a slide-in / plug-in damper assembly with a 2-position, spring return motor actuator which opens to some pre-set position whenever the supply air blower is operating and will drive fully closed when the blower unit shuts down.

The rain hood is painted to match the basic unit and must be field assembled before installing.

- **ELECTRIC HEATERS** wired for single point power supply. These nickel chromium heater elements are provided with limit and automatic reset capability to prevent operation at excessive temperatures.
- **ROOF CURBS** - Eight and fourteen-inch high roof curbs provide a water-tight seal between the unit and the finished roof. These full perimeter curbs meet the requirements of the National Roofing Contractors Association (NRCA) and are shipped knocked-down for field assembly.

### **WARNING**

Factory installed Smoke Detectors in the Return Air, may be subjected to freezing temperatures during "off" times due to Out Side Air infiltration. These Smoke Detectors have an operational limit of 32°F to 131°F. Smoke Detectors installed in areas that could be out side those limitations will have to be moved to prevent having false alarms.

Roof curbs are designed to fit inside the base rails of the unit and include both a wood nailing strip and duct hanger supports.

- **POWER EXHAUST** - Our single input economizer options are available with power exhaust. Whenever the outdoor air intake dampers are opened for free cooling, the exhaust fan will be energized to prevent the conditioned space from being over-pressurized during economizer operation.

**The power exhaust option can only be used on bottom duct configurations.**

- **BAROMETRIC RELIEF DAMPER** - This damper accessory can be used to relieve internal building air pressure on units with an economizer without power exhaust. This accessory includes a rain hood, a bird screen and a fully assembled damper. With bottom duct connections, the damper should be mounted over the opening in the

return air panel. With horizontal ductwork, the accessory should be mounted on the return air duct.

- **ENTHALPY ACCESSORY CONTROL KIT** - This kit contains the required components to convert a single enthalpy economizer to dual enthalpy.
- **BURGLAR BARS** - Mount in the supply and return openings to prevent entry into the duct work.
- **CO<sub>2</sub> SENSOR** - Senses CO<sub>2</sub> levels and automatically overrides the economizer when levels rise above the present limits.
- **COIL GUARD** - Customers can purchase a coil guard kit to protect the condenser coil from damage. This is not a hail guard kit.
- **HAIL GUARD** - Hail guard is available to protect the unit from hail damage. This is a sloped hood that fits above the coil.

**TABLE 1: SOUND POWER RATING<sup>1</sup>**

UNIT SIZE	CFM	ESP	BLOWER		SOUND POWER (db 10 <sup>-12</sup> Watts)									SWL dB(A)	dB(A) @ 10Ft. <sup>2</sup>
					Octave Band Centerline Frequency (Hz)										
					IWG	SPEED	KW	63	125	250	500	1,000	2,000		
036	1,200	0.6	-	0.60	84	84	74	67	69	62	57	52	74	41	
048	1,600	0.55	-	0.80	85	85	75	68	70	63	58	53	75	42	
060	2,000	0.45	-	1.00	86	86	76	69	71	64	59	54	76	43	
072	2,200	0.30	-	1.35	87	87	77	70	72	65	60	55	77	44	

1. These values have been accessed using a model of sound propagation from a point source into the hemispheric/free field. The dBA values provided are to be used for reference only. Calculation of dBA values cover matters of system design and the fan manufacture has no way of knowing the details of each system. This constitutes an expectation to any specification or guarantee requiring a dBA value or sound data in any other form than sound power level ratings.
2. At a distance of 10 feet from the blower.

**TABLE 2: CAPACITY RATING**

MODEL	COOLING PERFORMANCE			HEATING PERFORMANCE					NOMINAL CFM	SOUND RATING (Db) <sup>1</sup>
	MBH	EER <sup>2</sup>	SEER <sup>3</sup>	47 °F		17 °F		HSPF <sup>4</sup>		
				MBH	COP <sup>5</sup>	MBH	COP <sup>5</sup>			
036 <sup>6</sup>	35.0	11.6	13.30	32.2	3.20	17.6	2.10	7.85	1200	84
048 <sup>6</sup>	46.5	11.1	13.15	44.0	3.40	23.2	2.10	7.75	1600	83
060 <sup>6</sup>	55.0	11.2	13.55	52.0	3.25	29.2	2.15	7.75	2000	81
072 <sup>7</sup>	68.0	10.2	-	69	3.20	43.0	2.20	-	2400	84

1. Rated in accordance with ARI Standard 270.
2. EER = Energy Efficiency Ratio at full load - the ratio (expressed in Btuh/Watt) of the cooling capacity and total power.
3. SEER = Seasonal Energy Efficiency Ratio.
4. HSPF = Heating Seasonal Performance Factor. Based on Region IV minimum design heating requirement.
5. COP = Coefficient of Performance
6. Cooling and heating performance rated in accordance with ARI 210/240.
7. Cooling and heating performance rated in accordance with ARI 340/360.

TABLE 3: BP036 COOLING CAPACITIES (3 TON)

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)						Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
		<b>75°F</b>								<b>85°F</b>							
750	77	42.7	2.1	16.5	13.3	10.3	-	-	-	41.2	2.4	16.1	13.1	10.0	-	-	-
	72	39.8	2.1	22.0	19.0	16.1	13.1	-	-	37.9	2.4	21.5	18.5	15.5	12.5	-	-
	67	36.8	2.1	27.5	24.8	21.8	18.9	15.9	-	34.7	2.4	27.0	24.0	20.9	17.9	14.9	-
	62	35.2	2.1	35.1	28.3	25.7	22.7	19.8	16.8	33.4	2.3	33.3	28.1	24.7	21.7	18.6	15.6
900	77	44.9	2.1	18.5	15.1	11.6	-	-	-	42.9	2.4	18.3	14.8	11.3	-	-	-
	72	41.7	2.1	24.9	21.5	18.1	14.7	-	-	39.5	2.4	24.4	20.9	17.4	13.9	-	-
	67	38.6	2.1	31.4	28.0	24.6	21.2	17.8	-	36.2	2.4	30.5	27.0	23.5	20.0	16.5	-
	62	36.9	2.1	36.9	32.3	28.9	25.5	22.1	18.7	34.8	2.3	34.8	31.3	27.8	24.3	20.8	17.3
	57	34.3	2.1	34.3	33.3	29.8	26.4	23.0	19.6	33.1	2.3	33.1	31.8	28.3	24.8	21.3	17.8
1050	77	47.0	2.1	20.4	16.8	12.9	-	-	-	44.7	2.4	20.4	16.5	12.5	-	-	-
	72	43.7	2.1	27.9	24.0	20.1	16.3	-	-	41.1	2.4	27.3	23.3	19.3	15.4	-	-
	67	40.5	2.1	35.3	31.2	27.3	23.5	19.6	-	37.6	2.4	34.1	30.1	26.1	22.2	18.2	-
	62	38.7	2.1	38.6	36.4	32.2	28.3	24.4	20.6	36.2	2.3	36.2	34.4	30.8	26.9	22.9	18.9
	57	36.0	2.1	36.0	35.4	33.2	29.3	25.5	21.6	34.4	2.4	34.4	33.8	31.4	27.5	23.5	19.6
1200	77	49.1	2.1	22.3	18.6	14.2	-	-	-	46.4	2.4	22.6	18.2	13.8	-	-	-
	72	45.7	2.1	30.8	26.5	22.2	17.8	-	-	42.8	2.4	30.1	25.7	21.2	16.8	-	-
	67	42.3	2.2	39.3	34.4	30.1	25.8	21.4	-	39.1	2.4	37.6	33.2	28.7	24.3	19.9	-
	62	40.4	2.1	40.4	40.4	35.4	31.1	26.8	22.4	37.6	2.4	37.6	37.6	33.9	29.5	25.0	20.6
	57	37.6	2.1	37.6	37.6	36.5	32.2	27.9	23.6	35.8	2.4	35.8	35.8	34.6	30.1	25.7	21.3
1350	72	46.4	2.1	32.8	28.0	23.1	18.3	-	-	43.4	2.4	32.1	27.2	22.3	17.4	-	-
	67	42.9	2.1	41.4	36.2	31.4	26.6	21.8	-	39.7	2.4	39.0	35.0	30.1	25.2	20.3	-
	62	41.0	2.1	41.0	41.0	37.0	32.2	27.3	22.5	38.2	2.4	38.2	38.2	35.5	30.6	25.7	20.8
	57	38.2	2.1	38.2	38.2	37.6	32.8	28.0	23.2	36.4	2.4	36.4	36.4	35.7	30.8	25.9	21.0
1500	72	47.1	2.1	34.8	29.5	24.1	18.8	-	-	44.1	2.4	34.1	28.7	23.3	17.9	-	-
	67	43.6	2.1	43.6	38.1	32.8	27.4	22.1	-	40.3	2.4	40.3	36.9	31.5	26.1	20.7	-
	62	41.7	2.1	41.7	41.7	38.6	33.2	27.9	22.6	38.8	2.4	38.8	38.8	37.1	31.8	26.4	21.0
	57	38.8	2.1	38.8	38.8	38.8	33.4	28.1	22.8	36.9	2.4	36.9	36.9	36.9	31.5	26.1	20.7
		<b>95°F</b>								<b>105°F</b>							
750	77	39.6	2.6	15.6	12.8	9.7	-	-	-	36.1	2.9	13.5	11.7	8.5	-	-	-
	72	36.1	2.6	21.1	18.0	14.9	11.8	-	-	33.0	2.8	20.1	16.9	13.7	10.5	-	-
	67	32.6	2.6	26.5	23.1	20.0	17.0	13.9	-	29.9	2.8	26.7	22.1	18.9	15.7	12.5	-
	62	31.6	2.5	31.6	27.8	23.7	20.6	17.5	14.4	29.1	2.8	29.1	26.2	21.7	18.5	15.2	12.0
900	77	41.0	2.7	18.1	14.5	10.9	-	-	-	37.3	2.9	17.0	13.2	9.5	-	-	-
	72	37.3	2.6	23.9	20.3	16.7	13.1	-	-	34.1	2.9	22.9	19.2	15.4	11.7	-	-
	67	33.7	2.6	29.7	26.1	22.5	18.9	15.3	-	30.9	2.8	28.8	25.1	21.4	17.6	13.9	-
	62	32.7	2.6	32.7	30.2	26.6	23.0	19.4	15.8	30.1	2.8	30.1	28.1	24.4	20.7	17.0	13.3
	57	31.9	2.6	31.9	30.4	26.8	23.2	19.6	16.0	28.9	2.8	28.9	28.2	24.6	20.9	17.2	13.5
1050	77	42.3	2.7	20.5	16.1	12.1	-	-	-	38.5	2.9	20.4	14.8	10.6	-	-	-
	72	38.6	2.6	26.6	22.6	18.5	14.5	-	-	35.2	2.9	25.6	21.4	17.2	13.0	-	-
	67	34.8	2.6	32.8	29.0	25.0	20.9	16.8	-	31.9	2.8	30.9	28.0	23.8	19.6	15.3	-
	62	33.7	2.6	33.7	32.5	29.5	25.4	21.4	17.3	31.1	2.8	31.1	30.1	27.2	23.0	18.8	14.6
	57	32.9	2.6	32.9	32.2	29.7	25.6	21.6	17.5	29.9	2.8	29.9	29.5	27.4	23.2	18.9	14.7
1200	77	43.7	2.7	22.9	17.8	13.3	-	-	-	39.8	2.9	23.8	16.4	11.7	-	-	-
	72	39.8	2.6	29.4	24.9	20.3	15.8	-	-	36.3	2.9	28.4	23.6	18.9	14.2	-	-
	67	35.9	2.6	35.9	32.0	27.4	22.9	18.3	-	32.9	2.9	32.9	30.9	26.2	21.5	16.8	-
	62	34.8	2.6	34.8	34.8	32.4	27.8	23.3	18.7	32.1	2.8	32.1	32.1	30.0	25.3	20.5	15.8
	57	34.0	2.6	34.0	34.0	32.6	28.1	23.5	19.0	30.9	2.8	30.9	30.9	30.2	25.4	20.7	16.0
1350	72	40.4	2.7	31.4	26.4	21.4	16.4	-	-	36.8	2.9	30.2	25.1	19.9	14.8	-	-
	67	36.5	2.6	36.5	33.8	28.8	23.8	18.8	-	33.3	2.9	33.3	32.0	27.5	22.4	17.2	-
	62	35.4	2.6	35.4	35.4	34.0	29.1	24.1	19.1	32.5	2.8	32.5	32.5	31.4	26.2	21.1	15.9
	57	34.5	2.6	34.5	34.5	33.8	28.8	23.9	18.9	31.2	2.8	31.2	31.2	30.9	25.7	20.5	15.4
1500	72	41.1	2.7	33.3	27.9	22.4	17.0	-	-	37.2	2.9	32.1	26.5	20.9	15.3	-	-
	67	37.0	2.6	37.0	35.7	30.2	24.8	19.3	-	33.7	2.9	33.7	33.0	28.9	23.3	17.7	-
	62	35.9	2.6	35.9	35.9	35.7	30.3	24.8	19.4	32.9	2.8	32.9	32.9	32.8	27.2	21.6	16.0
	57	35.1	2.6	35.1	35.1	35.1	29.6	24.2	18.7	31.6	2.8	31.6	31.6	31.6	26.0	20.4	14.8



**TABLE 3: BP036 COOLING CAPACITIES (3 TON) (CONT.)**

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)						Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	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	32.5	3.1	11.4	10.5	7.2	-	-	-	29.0	3.3	11.9	8.4	5.9	-	-	-
	72	29.8	3.1	19.1	15.8	12.5	9.2	-	-	26.7	3.3	18.2	14.7	11.3	7.9	-	-
	67	27.2	3.0	26.9	21.1	17.8	14.5	11.2	-	24.5	3.3	24.5	20.1	16.7	13.3	9.8	-
	62	26.7	3.0	26.7	24.5	19.7	16.3	13.0	9.7	24.3	3.2	24.3	22.8	17.6	14.2	10.8	7.3
900	77	33.6	3.1	15.8	12.0	8.2	-	-	-	29.9	3.3	16.4	10.8	6.8	-	-	-
	72	30.9	3.1	21.9	18.0	14.2	10.3	-	-	27.6	3.3	20.9	16.9	12.9	8.9	-	-
	67	28.1	3.1	27.9	24.0	20.2	16.4	12.5	-	25.3	3.3	25.3	23.0	19.0	15.1	11.1	-
	62	27.6	3.0	27.6	26.1	22.3	18.4	14.6	10.8	25.1	3.2	25.1	24.1	20.1	16.2	12.2	8.2
1050	77	34.7	3.1	20.2	13.5	9.1	-	-	-	30.9	3.4	21.0	13.1	7.6	-	-	-
	72	31.9	3.1	24.6	20.2	15.9	11.5	-	-	28.5	3.3	23.5	19.0	14.5	10.0	-	-
	67	29.0	3.1	28.9	26.9	22.6	18.2	13.9	-	26.1	3.3	26.1	25.9	21.4	16.9	12.4	-
	62	28.5	3.0	28.5	27.8	24.9	20.6	16.2	11.8	25.9	3.3	25.9	25.4	22.6	18.1	13.6	9.1
1200	77	35.8	3.2	24.6	15.0	10.1	-	-	-	31.9	3.4	25.5	15.4	8.5	-	-	-
	72	32.9	3.1	27.3	22.4	17.5	12.6	-	-	29.4	3.4	26.2	21.2	16.1	11.1	-	-
	67	29.9	3.1	29.9	29.9	25.0	20.1	15.2	-	27.0	3.3	27.0	27.0	23.8	18.7	13.7	-
	62	29.4	3.1	29.4	29.4	27.6	22.7	17.8	12.9	26.7	3.3	26.7	26.7	25.1	20.1	15.0	10.0
1350	77	33.1	3.1	29.1	23.8	18.4	13.1	-	-	29.5	3.4	27.9	22.4	17.0	11.5	-	-
	72	30.1	3.1	30.1	30.1	26.3	20.9	15.6	-	27.0	3.4	27.0	27.0	25.0	19.5	14.0	-
	67	29.6	3.1	29.6	29.6	28.7	23.4	18.1	12.7	26.8	3.3	26.8	26.8	26.0	20.5	15.1	9.6
	62	29.4	3.1	29.4	29.4	27.6	22.7	17.8	12.9	26.7	3.3	26.7	26.7	25.1	20.1	15.0	10.0
1500	77	33.3	3.2	30.9	25.1	19.3	13.6	-	-	29.5	3.4	29.5	23.7	17.8	11.9	-	-
	72	30.4	3.1	30.4	30.4	27.6	21.8	16.0	-	27.0	3.4	27.0	27.0	26.2	20.3	14.4	-
	67	29.8	3.1	29.8	29.8	29.8	24.1	18.3	12.6	26.8	3.3	26.8	26.8	26.8	21.0	15.1	9.2
	62	28.1	3.1	28.1	28.1	28.1	22.3	16.6	10.8	24.6	3.3	24.6	24.6	24.6	18.7	12.8	6.9

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**TABLE 4: BP048 COOLING CAPACITIES (4 TON)**

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)						Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	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							
1000	77	61.2	3.0	23.7	19.8	15.9	-	-	-	56.9	3.3	22.8	18.8	14.8	-	-	-
	72	55.6	3.0	30.4	26.6	22.7	18.8	-	-	51.5	3.3	29.3	25.3	21.3	17.3	-	-
	67	50.0	3.0	37.2	33.3	29.4	25.5	21.6	-	46.1	3.3	35.9	31.9	27.9	23.9	19.9	-
	62	44.8	2.9	44.8	41.4	35.4	31.6	27.7	23.8	41.4	3.2	41.4	39.7	34.0	30.0	26.0	22.0
1200	77	63.8	3.0	26.8	22.2	17.6	-	-	-	59.4	3.4	25.6	21.0	16.3	-	-	-
	72	57.9	3.0	34.2	29.7	25.1	20.5	-	-	53.8	3.3	32.9	28.2	23.6	18.9	-	-
	67	52.1	3.0	41.7	37.1	32.5	27.9	23.3	-	48.1	3.3	40.1	35.5	30.8	26.2	21.5	-
	62	46.7	2.9	46.7	44.5	39.2	34.6	30.0	25.4	43.2	3.2	43.2	42.1	37.5	32.8	28.1	23.5
1400	77	66.4	3.0	29.9	24.6	19.3	-	-	-	61.9	3.4	28.5	23.2	17.8	-	-	-
	72	60.3	3.0	38.1	32.8	27.5	22.2	-	-	56.0	3.3	36.4	31.1	25.8	20.4	-	-
	67	54.2	3.0	46.2	40.9	35.6	30.3	25.1	-	50.2	3.3	44.4	39.0	33.7	28.4	23.1	-
	62	48.6	3.0	48.6	47.5	43.0	37.7	32.4	27.1	45.1	3.2	45.1	44.5	41.0	35.7	30.3	25.0
1600	77	69.0	3.0	33.0	27.0	21.0	-	-	-	64.4	3.4	31.3	25.4	19.4	-	-	-
	72	62.7	3.0	41.9	35.9	29.9	23.9	-	-	58.3	3.3	40.0	34.0	28.0	22.0	-	-
	67	56.3	3.0	50.8	44.8	38.8	32.8	26.8	-	52.2	3.3	48.6	42.6	36.6	30.6	24.6	-
	62	50.5	3.0	50.5	50.5	46.7	40.7	34.7	28.7	46.9	3.3	46.9	46.9	44.5	38.5	32.5	26.5
1800	77	66.4	3.0	33.0	27.0	21.0	-	-	-	64.4	3.4	31.3	25.4	19.4	-	-	-
	72	62.7	3.0	41.9	35.9	29.9	23.9	-	-	58.3	3.3	40.0	34.0	28.0	22.0	-	-
	67	56.3	3.0	50.8	44.8	38.8	32.8	26.8	-	52.2	3.3	48.6	42.6	36.6	30.6	24.6	-
	62	50.5	3.0	50.5	50.5	46.7	40.7	34.7	28.7	46.9	3.3	46.9	46.9	44.5	38.5	32.5	26.5
2000	77	66.4	3.0	33.0	27.0	21.0	-	-	-	64.4	3.4	31.3	25.4	19.4	-	-	-
	72	62.7	3.0	41.9	35.9	29.9	23.9	-	-	58.3	3.3	40.0	34.0	28.0	22.0	-	-
	67	56.3	3.0	50.8	44.8	38.8	32.8	26.8	-	52.2	3.3	48.6	42.6	36.6	30.6	24.6	-
	62	50.5	3.0	50.5	50.5	46.7	40.7	34.7	28.7	46.9	3.3	46.9	46.9	44.5	38.5	32.5	26.5

**TABLE 4: BP048 COOLING CAPACITIES (4 TON) (CONT.)**

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)						Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
				<b>95°F</b>						<b>105°F</b>							
1000	77	52.5	3.7	21.8	17.7	13.6	-	-	-	48.5	4.0	19.2	15.9	11.9	-	-	-
	72	47.4	3.6	28.2	24.1	20.0	15.9	-	-	43.6	3.9	26.5	22.4	18.3	14.2	-	-
	67	42.3	3.6	34.6	30.5	26.4	22.3	18.2	-	38.6	3.8	33.8	28.8	24.7	20.7	16.6	-
	62	38.1	3.5	38.1	38.1	32.5	28.3	24.2	20.1	34.8	3.8	34.8	34.8	29.6	25.6	21.5	17.4
1200	77	54.9	3.7	24.5	19.7	15.0	-	-	-	50.7	4.1	22.6	17.8	13.1	-	-	-
	72	49.6	3.7	31.5	26.8	22.0	17.3	-	-	45.5	4.0	29.7	24.9	20.2	15.5	-	-
	67	44.2	3.6	38.6	33.8	29.1	24.4	19.6	-	40.3	3.9	36.8	32.1	27.3	22.6	17.8	-
	62	39.8	3.5	39.8	39.8	35.7	31.0	26.3	21.5	36.3	3.8	36.3	36.3	32.7	28.0	23.2	18.5
1400	77	57.3	3.7	27.1	21.7	16.4	-	-	-	52.8	4.1	26.0	19.7	14.3	-	-	-
	72	51.8	3.7	34.8	29.4	24.1	18.7	-	-	47.4	4.0	32.9	27.5	22.1	16.7	-	-
	67	46.2	3.6	42.5	37.1	31.8	26.4	21.1	-	42.0	3.9	39.8	35.3	29.9	24.5	19.1	-
	62	41.6	3.5	41.6	41.6	39.0	33.7	28.3	23.0	37.9	3.8	37.9	37.9	35.8	30.4	25.0	19.6
1600	77	59.8	3.8	29.7	23.7	17.8	-	-	-	55.0	4.1	29.4	21.6	15.6	-	-	-
	72	53.9	3.7	38.1	32.1	26.1	20.1	-	-	49.4	4.0	36.1	30.1	24.0	18.0	-	-
	67	48.1	3.6	46.4	40.4	34.5	28.5	22.5	-	43.7	3.9	42.9	38.6	32.5	26.4	20.4	-
	62	43.3	3.6	43.3	43.3	42.3	36.3	30.4	24.4	39.4	3.8	39.4	39.4	38.9	32.9	26.8	20.7
1800	77	62.5	3.7	31.2	25.2	19.3	-	-	-	60.4	4.1	31.2	23.4	17.4	-	-	-
	72	55.2	3.7	41.2	34.6	28.0	21.4	-	-	50.4	4.0	39.1	32.4	25.8	19.2	-	-
	67	49.3	3.6	48.4	43.5	36.9	30.4	23.8	-	44.7	3.9	44.3	41.1	34.9	28.3	21.6	-
	62	44.4	3.6	44.4	44.4	43.9	37.3	30.7	24.1	40.3	3.8	40.3	40.3	40.0	33.4	26.7	20.1
2000	77	65.5	3.7	33.2	27.2	21.3	-	-	-	63.4	4.1	33.2	25.4	19.4	-	-	-
	72	56.5	3.7	44.2	37.1	29.9	22.7	-	-	51.5	4.0	42.0	34.8	27.6	20.4	-	-
	67	50.4	3.7	50.4	46.6	39.4	32.3	25.1	-	45.6	4.0	45.6	43.7	37.3	30.1	22.9	-
	62	45.4	3.6	45.4	45.4	45.4	38.2	31.1	23.9	41.1	3.9	41.1	41.1	41.1	33.9	26.7	19.5
1000	77	44.6	4.4	16.5	14.1	10.1	-	-	-	40.6	4.7	14.6	12.4	8.3	-	-	-
	72	39.8	4.2	24.7	20.6	16.6	12.5	-	-	35.9	4.6	22.9	18.9	14.9	10.8	-	-
	67	34.9	4.1	32.9	27.1	23.1	19.0	14.9	-	31.3	4.4	31.3	25.4	21.4	17.4	13.3	-
	62	31.5	4.0	31.5	31.5	26.8	22.8	18.7	14.6	28.2	4.3	28.2	28.2	24.0	20.0	15.9	11.9
1200	77	46.5	4.4	20.7	15.9	11.2	-	-	-	42.2	4.7	19.6	14.0	9.3	-	-	-
	72	41.4	4.3	27.9	23.1	18.4	13.6	-	-	37.4	4.6	26.0	21.3	16.5	11.8	-	-
	67	36.4	4.2	35.0	30.3	25.6	20.8	16.1	-	32.5	4.4	32.5	28.5	23.8	19.0	14.3	-
	62	32.8	4.0	32.8	32.8	29.7	25.0	20.2	15.5	29.4	4.3	29.4	29.4	26.7	21.9	17.2	12.4
1400	77	48.3	4.4	24.9	17.7	12.3	-	-	-	43.8	4.8	24.5	15.7	10.2	-	-	-
	72	43.1	4.3	31.0	25.6	20.2	14.7	-	-	38.8	4.6	29.1	23.7	18.2	12.7	-	-
	67	37.9	4.2	37.2	33.5	28.0	22.6	17.2	-	33.7	4.5	33.7	31.7	26.2	20.7	15.2	-
	62	34.2	4.1	34.2	34.2	32.6	27.2	21.7	16.3	30.5	4.3	30.5	30.5	29.4	23.9	18.4	13.0
1600	77	50.2	4.4	29.0	19.5	13.4	-	-	-	45.5	4.8	29.5	17.3	11.2	-	-	-
	72	44.8	4.3	34.2	28.1	21.9	15.8	-	-	40.2	4.6	32.3	26.1	19.9	13.7	-	-
	67	39.4	4.2	39.4	36.7	30.5	24.4	18.3	-	35.0	4.5	35.0	34.8	28.6	22.4	16.2	-
	62	35.5	4.1	35.5	35.5	35.5	29.4	23.3	17.1	31.6	4.4	31.6	31.6	31.6	25.9	19.7	13.5
1800	77	45.6	4.3	37.0	30.3	23.6	16.9	-	-	40.8	4.7	34.9	28.2	21.4	14.7	-	-
	72	40.1	4.2	40.1	38.7	32.9	26.2	19.5	-	35.5	4.5	35.5	35.5	30.8	24.1	17.4	-
	67	36.2	4.1	36.2	36.2	36.2	29.5	22.8	16.1	32.1	4.4	32.1	32.1	32.1	25.6	18.8	12.1
	62	32.7	4.1	32.7	32.7	32.7	31.0	24.3	17.6	34.0	4.4	34.0	34.0	34.0	27.4	20.7	13.9
2000	77	46.5	4.4	39.8	32.6	25.3	18.1	-	-	41.4	4.7	37.6	30.3	23.0	15.7	-	-
	72	40.8	4.3	40.8	40.8	35.2	28.0	20.7	-	36.0	4.6	36.0	36.0	33.1	25.8	18.5	-
	67	36.8	4.1	36.8	36.8	36.8	29.6	22.3	15.1	32.5	4.4	32.5	32.5	32.5	25.2	17.9	10.6
	62	33.4	4.2	33.4	33.4	33.4	31.1	23.9	16.6	34.5	4.5	34.5	34.5	34.5	27.2	19.9	12.6

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

**TABLE 5: BP060 COOLING CAPACITIES (5 TON)**

Air on Evaporator Coil		Temperature of Air on Condenser Coil															
CFM	WB (°F)	Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)						Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)								Return Dry Bulb (°F)					
				90	85	80	75	70	65			90	85	80	75	70	65
				<b>75°F</b>						<b>85°F</b>							
1250	77	73.6	3.5	31.0	25.8	20.7	-	-	-	67.5	4.0	28.6	23.7	18.9	-	-	-
	72	66.3	3.4	38.7	33.6	28.4	23.3	-	-	61.5	3.9	36.5	31.7	26.9	22.0	-	-
	67	59.0	3.3	46.5	41.4	36.2	31.1	25.9	-	55.5	3.8	44.5	39.7	34.8	30.0	25.2	-
	62	53.8	3.2	53.8	50.9	44.8	39.6	34.5	29.3	50.4	3.7	50.4	48.9	42.7	37.8	33.0	28.2
1500	77	76.2	3.5	33.5	27.8	22.1	-	-	-	70.2	4.0	31.3	25.8	20.3	-	-	-
	72	68.6	3.4	41.8	36.1	30.5	24.8	-	-	63.9	3.9	39.9	34.4	28.9	23.4	-	-
	67	61.0	3.3	50.2	44.5	38.8	33.1	27.4	-	57.7	3.8	48.4	42.9	37.4	31.9	26.4	-
	62	55.7	3.2	55.7	53.7	47.9	42.3	36.6	30.9	52.3	3.7	52.3	51.4	45.9	40.4	34.9	29.4
	57	50.2	3.2	50.2	50.2	47.0	41.3	35.7	30.0	48.6	3.7	48.6	48.6	45.7	40.2	34.7	29.2
1750	77	78.7	3.5	36.0	29.8	23.6	-	-	-	72.8	4.0	34.1	27.9	21.7	-	-	-
	72	70.9	3.4	44.9	38.7	32.5	26.3	-	-	66.3	3.9	43.2	37.1	30.9	24.7	-	-
	67	63.1	3.3	53.8	47.6	41.3	35.1	28.9	-	59.8	3.8	52.4	46.2	40.0	33.9	27.7	-
	62	57.5	3.2	57.5	56.6	51.1	44.9	38.7	32.5	54.3	3.7	54.3	53.8	49.1	42.9	36.7	30.6
	57	51.9	3.2	51.9	51.9	50.1	43.9	37.7	31.5	50.4	3.7	50.4	50.4	48.9	42.7	36.5	30.4
2000	77	81.3	3.5	38.5	31.8	25.1	-	-	-	75.4	4.0	36.8	30.0	23.2	-	-	-
	72	73.2	3.4	48.0	41.2	34.5	27.7	-	-	68.7	3.9	46.6	39.7	32.9	26.1	-	-
	67	65.1	3.3	57.4	50.6	43.9	37.2	30.4	-	62.0	3.8	56.3	49.5	42.7	35.8	29.0	-
	62	59.4	3.2	59.4	59.4	54.3	47.5	40.8	34.1	56.2	3.7	56.2	56.2	52.2	45.4	38.6	31.8
	57	53.5	3.2	53.5	53.5	53.2	46.5	39.7	33.0	52.2	3.7	52.2	52.2	52.1	45.2	38.4	31.6
2250	72	75.1	3.4	52.0	44.7	37.4	30.0	-	-	70.0	3.9	50.2	42.8	35.4	28.0	-	-
	67	66.8	3.3	63.0	54.9	47.6	40.2	32.9	-	63.2	3.8	60.3	53.3	45.9	38.5	31.1	-
	62	61.0	3.2	61.0	61.0	58.4	51.1	43.7	36.4	57.3	3.7	57.3	57.3	55.3	47.9	40.5	33.2
	57	55.0	3.2	55.0	55.0	54.8	47.5	40.1	32.8	53.2	3.7	53.2	53.2	53.1	45.7	38.4	31.0
2500	72	77.0	3.5	56.1	48.2	40.2	32.3	-	-	71.3	4.0	53.8	45.9	37.9	30.0	-	-
	67	68.5	3.3	68.5	59.2	51.3	43.3	35.4	-	64.4	3.9	64.4	57.1	49.2	41.2	33.3	-
	62	62.5	3.3	62.5	62.5	54.6	46.6	38.7	-	58.4	3.8	58.4	58.4	54.4	50.4	42.5	34.6
	57	56.4	3.3	56.4	56.4	48.4	40.5	32.6	-	54.2	3.8	54.2	54.2	54.2	46.3	38.3	30.4
				<b>95°F</b>						<b>105°F</b>							
1250	77	61.5	4.5	26.2	21.7	17.2	-	-	-	60.1	5.1	24.0	19.8	15.0	-	-	-
	72	56.8	4.4	34.3	29.8	25.3	20.8	-	-	54.9	5.0	33.0	28.2	23.4	18.6	-	-
	67	52.1	4.3	42.4	37.9	33.4	28.9	24.4	-	49.7	4.9	42.0	36.6	31.8	27.0	22.2	-
	62	46.9	4.3	46.9	46.9	40.6	36.0	31.5	27.0	44.9	4.8	44.9	44.9	38.2	33.4	28.6	23.8
1500	77	64.2	4.5	29.2	23.8	18.5	-	-	-	62.2	5.0	27.5	21.9	16.3	-	-	-
	72	59.3	4.4	37.9	32.6	27.3	22.0	-	-	56.9	4.9	36.6	31.0	25.4	19.8	-	-
	67	54.3	4.3	46.7	41.4	36.1	30.8	25.5	-	51.5	4.9	45.7	40.1	34.5	28.9	23.3	-
	62	49.0	4.2	49.0	49.0	43.8	38.5	33.2	27.8	46.5	4.8	46.5	46.5	41.5	35.9	30.3	24.7
	57	47.0	4.2	47.0	47.0	44.4	39.1	33.7	28.4	45.6	4.8	45.6	45.6	42.1	36.5	30.9	25.3
1750	77	66.8	4.5	32.1	26.0	19.9	-	-	-	64.4	5.0	31.0	24.0	17.6	-	-	-
	72	61.7	4.4	41.5	35.4	29.3	23.2	-	-	58.8	4.9	40.2	33.8	27.5	21.1	-	-
	67	56.6	4.3	51.0	44.9	38.7	32.6	26.5	-	53.3	4.8	49.5	43.7	37.3	30.9	24.5	-
	62	51.0	4.2	51.0	51.0	47.0	40.9	34.8	28.7	48.1	4.8	48.1	48.1	44.8	38.4	32.0	25.6
	57	48.9	4.2	48.9	48.9	47.6	41.5	35.4	29.3	47.2	4.8	47.2	47.2	45.4	39.0	32.6	26.2
2000	77	69.5	4.5	35.1	28.2	21.3	-	-	-	66.6	5.0	34.5	26.1	18.9	-	-	-
	72	64.2	4.4	45.2	38.2	31.3	24.4	-	-	60.8	4.9	43.9	36.7	29.5	22.3	-	-
	67	58.9	4.2	55.2	48.3	41.4	34.5	27.6	-	55.0	4.8	53.2	47.2	40.0	32.8	25.6	-
	62	53.1	4.2	53.1	53.1	50.2	43.3	36.4	29.5	49.8	4.7	49.8	49.8	48.1	40.9	33.7	26.5
	57	50.9	4.2	50.9	50.9	50.9	44.0	37.1	30.1	48.8	4.7	48.8	48.8	48.8	41.6	34.4	27.2
2250	72	64.9	4.4	48.3	40.9	33.5	26.0	-	-	61.5	4.9	46.9	39.2	31.5	23.8	-	-
	67	59.5	4.3	57.7	51.7	44.2	36.8	29.4	-	55.7	4.9	54.7	50.4	42.7	35.0	27.3	-
	62	53.7	4.2	53.7	53.7	52.2	44.8	37.4	29.9	50.3	4.8	50.3	50.3	49.5	41.8	34.0	26.3
	57	51.5	4.2	51.5	51.5	51.5	44.0	36.6	29.2	49.3	4.8	49.3	49.3	49.3	41.6	33.9	26.2
2500	72	65.6	4.5	51.5	43.6	35.6	27.7	-	-	62.2	5.0	49.9	41.7	33.5	25.2	-	-
	67	60.2	4.4	60.2	55.0	47.1	39.1	31.2	-	56.3	4.9	56.3	53.7	45.4	37.2	29.0	-
	62	54.3	4.3	54.3	54.3	54.3	46.3	38.4	30.4	50.9	4.9	50.9	50.9	50.9	42.6	34.4	26.2
	57	52.0	4.3	52.0	52.0	52.0	44.1	36.1	28.2	49.9	4.8	49.9	49.9	49.9	41.6	33.4	25.2



**TABLE 6: BP072 COOLING CAPACITIES (6 TON) (CONT.)**

Air on Evaporator Coil		Temperature of Air on Condenser Coil																	
CFM	WB (°F)	Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)								Total Capacity <sup>1</sup> (MBh)	Total Input (kW) <sup>2</sup>	Sensible Capacity (MBh)					
				Return Dry Bulb (°F)										Return Dry Bulb (°F)					
				90	85	80	75	70	65	90	85			80	75	70	65		
				<b>95°F</b>								<b>105°F</b>							
1500	77	75.0	5.8	30.3	24.7	19.0	-	-	-	69.9	6.5	27.3	22.6	17.2	-	-	-		
	72	69.6	5.8	41.1	35.4	29.7	24.0	-	-	64.1	6.4	38.1	32.6	27.2	21.7	-	-		
	67	64.2	5.7	51.8	46.1	40.4	34.7	29.1	-	58.4	6.3	48.8	42.6	37.1	31.7	26.2	-		
	62	58.3	5.6	58.3	58.3	49.4	43.7	38.0	32.4	53.6	6.3	53.6	53.6	44.7	39.2	33.7	28.3		
1800	77	78.3	5.8	34.1	27.5	21.0	-	-	-	73.6	6.6	32.1	25.7	19.4	-	-	-		
	72	72.6	5.8	45.9	39.4	32.9	26.3	-	-	67.5	6.5	43.3	37.0	30.6	24.2	-	-		
	67	67.0	5.7	57.8	51.3	44.7	38.2	31.7	-	61.4	6.4	54.6	48.2	41.8	35.4	29.1	-		
	62	60.9	5.7	60.9	60.9	54.7	48.1	41.6	35.1	56.3	6.3	56.3	56.3	50.3	43.9	37.5	31.1		
2100	77	81.6	5.9	37.8	30.4	23.0	-	-	-	77.2	6.6	36.9	28.8	21.5	-	-	-		
	72	75.7	5.8	50.8	43.4	36.0	28.7	-	-	70.8	6.5	48.6	41.3	34.0	26.7	-	-		
	67	69.8	5.8	63.8	56.4	49.0	41.7	34.3	-	64.4	6.4	60.3	53.8	46.5	39.2	31.9	-		
	62	63.4	5.7	63.4	63.4	59.9	52.5	45.2	37.8	59.1	6.4	59.1	59.1	55.9	48.6	41.2	33.9		
2400	77	84.8	5.9	41.5	33.3	25.0	-	-	-	80.9	6.6	41.7	31.9	23.7	-	-	-		
	72	78.7	5.9	55.6	47.4	39.2	31.0	-	-	74.2	6.5	53.9	45.7	37.4	29.2	-	-		
	67	72.6	5.8	69.8	61.6	53.3	45.1	36.9	-	67.4	6.5	66.1	59.4	51.2	42.9	34.7	-		
	62	66.0	5.7	66.0	66.0	65.2	57.0	48.7	40.5	61.9	6.4	61.9	61.9	61.5	53.2	45.0	36.8		
2700	77	79.6	5.9	58.3	49.6	41.0	32.3	-	-	74.3	6.6	56.1	47.4	38.8	30.2	-	-		
	72	73.4	5.8	72.0	64.4	55.8	47.1	38.4	-	67.6	6.5	66.9	61.7	53.0	44.4	35.8	-		
	67	66.7	5.7	66.7	66.7	66.3	57.7	49.0	40.3	62.1	6.4	62.1	62.1	61.9	53.2	44.6	35.9		
	62	66.5	5.7	66.5	66.5	66.3	57.6	48.9	40.2	61.5	6.4	61.5	61.5	61.3	52.7	44.1	35.4		
3000	77	80.5	5.9	61.0	51.9	42.8	33.6	-	-	74.5	6.6	58.2	49.2	40.2	31.1	-	-		
	72	74.2	5.8	74.2	67.3	58.2	49.1	40.0	-	67.8	6.5	67.8	63.9	54.9	45.9	36.8	-		
	67	67.5	5.8	67.5	67.5	67.5	58.3	49.2	40.1	62.2	6.4	62.2	62.2	62.2	53.2	44.2	35.1		
	62	67.2	5.8	67.2	67.2	67.2	58.1	49.0	39.9	61.7	6.4	61.7	61.7	61.7	52.7	43.6	34.6		
				<b>115°F</b>								<b>125°F</b>							
1500	77	64.9	7.2	24.3	20.6	15.4	-	-	-	59.8	7.9	20.5	18.6	13.6	-	-	-		
	72	58.7	7.1	35.1	29.9	24.6	19.4	-	-	53.3	7.8	32.1	27.1	22.1	17.1	-	-		
	67	52.5	7.0	45.9	39.1	33.8	28.6	23.4	-	46.7	7.6	42.9	35.6	30.6	25.6	20.6	-		
	62	48.8	6.9	48.8	48.8	39.9	34.7	29.5	24.2	44.0	7.6	44.0	44.0	35.2	30.2	25.2	20.2		
1800	77	68.9	7.3	30.2	23.9	17.7	-	-	-	64.2	8.0	28.2	22.2	16.1	-	-	-		
	72	62.3	7.1	40.8	34.5	28.3	22.1	-	-	57.2	7.8	38.2	32.1	26.0	19.9	-	-		
	67	55.8	7.0	51.4	45.1	38.9	32.7	26.4	-	50.2	7.7	48.1	42.1	36.0	29.9	23.8	-		
	62	51.8	7.0	51.8	51.8	45.9	39.6	33.4	27.2	47.3	7.6	47.3	47.3	41.5	35.4	29.3	23.2		
2100	77	72.9	7.3	36.1	27.3	20.0	-	-	-	68.6	8.0	35.9	25.7	18.5	-	-	-		
	72	66.0	7.2	46.5	39.2	32.0	24.7	-	-	61.1	7.9	44.3	37.1	29.9	22.8	-	-		
	67	59.1	7.1	56.8	51.2	43.9	36.7	29.4	-	53.7	7.7	53.4	48.6	41.4	34.2	27.0	-		
	62	54.8	7.0	54.8	54.8	51.8	44.6	37.3	30.1	50.6	7.7	50.6	50.6	47.8	40.6	33.4	26.2		
2400	77	76.9	7.4	42.0	30.6	22.3	-	-	-	73.0	8.1	43.6	29.2	20.9	-	-	-		
	72	69.6	7.2	52.2	43.9	35.6	27.4	-	-	65.1	7.9	50.4	42.1	33.9	25.6	-	-		
	67	62.3	7.1	62.3	57.2	49.0	40.7	32.5	-	57.2	7.8	57.2	55.1	46.8	38.5	30.3	-		
	62	57.9	7.1	57.9	57.9	57.8	49.5	41.2	33.0	53.8	7.7	53.8	53.8	53.8	45.8	37.5	29.2		
2700	77	76.9	7.4	42.0	30.6	22.3	-	-	-	73.0	8.1	43.6	29.2	20.9	-	-	-		
	72	69.6	7.2	52.2	43.9	35.6	27.4	-	-	65.1	7.9	50.4	42.1	33.9	25.6	-	-		
	67	62.3	7.1	62.3	57.2	49.0	40.7	32.5	-	57.2	7.8	57.2	55.1	46.8	38.5	30.3	-		
	62	57.9	7.1	57.9	57.9	57.8	49.5	41.2	33.0	53.8	7.7	53.8	53.8	53.8	45.8	37.5	29.2		
3000	77	69.1	7.3	53.8	45.2	36.6	28.0	-	-	63.8	7.9	51.5	43.0	34.4	25.8	-	-		
	72	61.8	7.1	61.8	58.9	50.3	41.7	33.1	-	56.1	7.8	56.1	56.1	47.6	39.0	30.4	-		
	67	57.4	7.1	57.4	57.4	57.4	48.8	40.2	31.6	52.8	7.8	52.8	52.8	52.8	44.3	35.8	27.2		
	62	56.6	7.1	56.6	56.6	56.4	47.8	39.2	30.6	51.6	7.7	51.6	51.6	51.5	43.0	34.4	25.8		

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

TABLE 7: BP036-072 HEATING CAPACITIES

Size (Tons)	Air Over Evaporator Coil		Capacity <sup>1</sup> & kW	Outdoor Temperature (°F @ 72% RH)							
	CFM	DB (°F)		-10	0	10	20	30	40	50	60
036 (3)	900	55	MBH	2.4	7.6	12.8	18.0	23.1	28.3	33.5	38.7
			KW	1.6	1.8	1.9	2.1	2.2	2.4	2.5	2.7
		70	MBH	-	4.6	9.8	15.0	20.1	25.3	30.5	35.7
			KW	-	2.0	2.1	2.3	2.4	2.6	2.8	2.9
		80	MBH	-	2.8	8.0	13.1	18.3	23.5	28.7	33.8
			KW	-	2.1	2.3	2.5	2.6	2.8	2.9	3.1
	1200	55	MBH	4.3	9.5	14.7	19.8	25.0	30.2	35.4	40.5
			KW	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6
		70	MBH	1.3	6.5	11.7	16.8	22.0	27.2	32.4	37.5
			KW	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8
		80	MBH	-	4.6	9.8	15.0	20.2	25.3	30.5	35.7
			KW	-	2.0	2.2	2.3	2.5	2.6	2.8	2.9
	1500	55	MBH	5.4	10.6	15.8	21.0	26.1	31.3	36.5	41.7
			KW	1.4	1.6	1.7	1.9	2.0	2.2	2.4	2.5
		70	MBH	2.4	7.6	12.8	18.0	23.1	28.3	33.5	38.7
KW			1.6	1.8	1.9	2.1	2.3	2.4	2.6	2.7	
80		MBH	0.6	5.8	11.0	16.1	21.3	26.5	31.6	36.8	
		KW	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	
048 (4)	1200	55	MBH	2.3	9.6	17.0	24.3	31.6	38.9	46.2	53.5
			KW	2.0	2.2	2.4	2.6	2.7	2.9	3.1	3.3
		70	MBH	-	5.8	13.1	20.4	27.7	35.0	42.3	49.7
			KW	-	2.5	2.7	2.9	3.1	3.3	3.5	3.6
		80	MBH	-	3.1	10.4	17.7	25.0	32.4	39.7	47.0
			KW	-	2.6	2.8	3.0	3.2	3.4	3.6	3.8
	1600	55	MBH	5.0	12.3	19.7	27.0	34.3	41.6	48.9	56.2
			KW	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2
		70	MBH	1.1	8.5	15.8	23.1	30.4	37.7	45.0	52.3
			KW	2.2	2.4	2.5	2.7	2.9	3.1	3.3	3.5
		80	MBH	-	5.8	13.1	20.4	27.7	35.1	42.4	49.7
			KW	-	2.5	2.7	2.9	3.1	3.3	3.5	3.7
	2000	55	MBH	6.4	13.7	21.0	28.3	35.6	43.0	50.3	57.6
			KW	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1
		70	MBH	2.5	9.8	17.1	24.5	31.8	39.1	46.4	53.7
KW			2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	
80		MBH	-	7.2	14.5	21.8	29.1	36.4	43.7	51.1	
		KW	-	2.4	2.6	2.7	2.9	3.1	3.3	3.5	
060 (5)	1500	55	MBH	7.8	15.6	23.4	31.2	38.9	46.7	54.5	62.3
			KW	2.9	3.0	3.2	3.3	3.4	3.6	3.7	3.9
		70	MBH	6.2	14.0	21.8	29.6	37.3	45.1	52.9	60.7
			KW	3.5	3.7	3.8	4.0	4.1	4.3	4.4	4.5
		80	MBH	4.9	12.7	20.5	28.3	36.0	43.8	51.6	59.4
			KW	4.0	4.2	4.3	4.5	4.6	4.8	4.9	5.0
	2000	55	MBH	8.0	15.8	23.6	31.4	39.1	46.9	54.7	62.5
			KW	2.5	2.7	2.8	2.9	3.1	3.2	3.4	3.5
		70	MBH	6.5	14.2	22.0	29.8	37.6	45.4	53.1	60.9
			KW	3.2	3.3	3.5	3.6	3.8	3.9	4.0	4.2
		80	MBH	5.2	12.9	20.7	28.5	36.3	44.1	51.8	59.6
			KW	3.7	3.8	4.0	4.1	4.3	4.4	4.5	4.7
	2500	55	MBH	8.9	16.7	24.5	32.2	40.0	47.8	55.6	63.3
			KW	2.3	2.5	2.6	2.7	2.9	3.0	3.2	3.3
		70	MBH	7.3	15.1	22.9	30.6	38.4	46.2	54.0	61.8
KW			3.0	3.1	3.3	3.4	3.6	3.7	3.8	4.0	
80		MBH	6.0	13.8	21.5	29.3	37.1	44.9	52.7	60.4	
		KW	3.5	3.6	3.8	3.9	4.1	4.2	4.3	4.5	

**TABLE 7: BP036-072 HEATING CAPACITIES (CONT.)**

Size (Tons)	Air Over Evaporator Coil		Capacity <sup>1</sup> & kW	Outdoor Temperature (°F @ 72% RH)							
	CFM	DB (°F)		-10	0	10	20	30	40	50	60
072 (6)	1800	55	MBH	11.3	20.8	30.3	39.8	49.2	58.7	68.2	77.7
			KW	3.4	3.7	4.0	4.2	4.5	4.8	5.0	5.3
		70	MBH	10.1	19.6	29.0	38.5	48.0	57.5	66.9	76.4
			KW	4.1	4.4	4.6	4.9	5.2	5.4	5.7	6.0
		80	MBH	7.9	17.3	26.8	36.3	45.8	55.2	64.7	74.2
			KW	4.6	4.8	5.1	5.4	5.6	5.9	6.2	6.4
	2400	55	MBH	13.2	22.6	32.1	41.6	51.1	60.5	70.0	79.5
			KW	3.0	3.3	3.6	3.8	4.1	4.4	4.6	4.9
		70	MBH	11.9	21.4	30.9	40.4	49.8	59.3	68.8	78.3
			KW	3.7	4.0	4.3	4.5	4.8	5.1	5.3	5.6
		80	MBH	9.6	19.1	28.6	38.0	47.5	57.0	66.5	75.9
			KW	4.2	4.4	4.7	5.0	5.2	5.5	5.8	6.0
	3000	55	MBH	13.8	23.2	32.7	42.2	51.7	61.1	70.6	80.1
			KW	2.9	3.1	3.4	3.7	3.9	4.2	4.5	4.7
		70	MBH	12.5	22.0	31.5	40.9	50.4	59.9	69.4	78.8
			KW	3.6	3.8	4.1	4.4	4.6	4.9	5.2	5.4
		80	MBH	10.3	19.8	29.2	38.7	48.2	57.7	67.1	76.6
			KW	4.0	4.3	4.5	4.8	5.1	5.3	5.6	5.9

1. These capacities do not include the supply air blower motor heat. For net capacity, add motor heat, MBh = 3.415 x kW.

**TABLE 8: SUPPLY AIR BLOWER PERFORMANCE (BP036 BELT DRIVE) - SIDE DUCT APPLICATION**

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>														
	0.2			0.3			0.4			0.5			0.6		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
800	-	-	-	-	-	-	696	357	0.38	743	389	0.42	786	422	0.45
900	-	-	-	656	353	0.38	706	385	0.41	753	417	0.45	797	450	0.48
1000	-	-	-	671	376	0.40	722	408	0.44	768	440	0.47	812	473	0.51
1100	634	364	0.39	690	398	0.43	741	431	0.46	787	463	0.50	831	496	0.53
1200	656	389	0.42	712	423	0.45	763	455	0.49	809	488	0.52	853	520	0.56
1300	681	418	0.45	737	452	0.49	787	485	0.52	834	517	0.55	877	550	0.59
1400	707	454	0.49	763	488	0.52	813	520	0.56	860	552	0.59	903	585	0.63
1500	735	496	0.53	791	530	0.57	841	562	0.60	887	594	0.64	931	627	0.67
1600	763	545	0.58	819	579	0.62	870	612	0.66	916	644	0.69	960	677	0.73
1700	793	602	0.65	849	636	0.68	900	669	0.72	946	701	0.75	990	734	0.79
1800	824	667	0.72	880	701	0.75	930	733	0.79	977	765	0.82	1021	798	0.86
1900	855	739	0.79	911	773	0.83	962	806	0.86	1008	838	0.90	1052	871	0.93
2000	887	819	0.88	943	853	0.92	994	886	0.95	1040	918	0.98	1084	951	1.02

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>														
	0.7			0.8			0.9			1.0			1.1		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
800	829	457	0.49	872	495	0.53	916	538	0.58	964	586	0.63	1017	642	0.69
900	839	485	0.52	882	524	0.56	927	566	0.61	975	615	0.66	1027	670	0.72
1000	854	508	0.55	897	547	0.59	942	589	0.63	990	638	0.68	1043	693	0.74
1100	874	531	0.57	916	569	0.61	961	612	0.66	1009	660	0.71	1062	715	0.77
1200	896	555	0.60	938	594	0.64	983	636	0.68	1031	685	0.73	1084	740	0.79
1300	920	585	0.63	963	623	0.67	1007	666	0.71	1055	714	0.77	1108	770	0.83
1400	946	620	0.67	989	659	0.71	1034	701	0.75	1082	750	0.80	-	-	-
1500	974	662	0.71	1017	701	0.75	1061	743	0.80	1109	792	0.85	-	-	-
1600	1003	712	0.76	1045	750	0.80	1090	793	0.85	-	-	-	-	-	-
1700	1032	769	0.82	1075	807	0.87	-	-	-	-	-	-	-	-	-
1800	1063	833	0.89	1106	872	0.94	-	-	-	-	-	-	-	-	-
1900	1094	906	0.97	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. Blower performance includes 1" filters. See STATIC RESISTANCE table for additional applications.

	Factory Installed AK74 blower sheave and A39 belt.
	AK61 blower sheave and A36 belt - Field installation required.

**TABLE 9: SUPPLY AIR BLOWER PERFORMANCE (BP036 BELT DRIVE) - BOTTOM DUCT APPLICATION**

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>														
	0.2			0.3			0.4			0.5			0.6		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
800	-	-	-	-	-	-	-	-	-	749	384	0.41	791	422	0.45
900	-	-	-	-	-	-	720	364	0.39	764	404	0.43	806	443	0.47
1000	-	-	-	690	346	0.37	739	388	0.42	783	429	0.46	824	467	0.50
1100	657	334	0.36	711	376	0.40	760	417	0.45	804	458	0.49	845	497	0.53
1200	681	369	0.40	735	410	0.44	784	452	0.49	828	493	0.53	869	532	0.57
1300	707	409	0.44	761	451	0.48	809	493	0.53	854	534	0.57	895	572	0.61
1400	735	456	0.49	789	498	0.53	837	540	0.58	882	581	0.62	923	619	0.66
1500	765	509	0.55	819	550	0.59	867	592	0.64	911	633	0.68	953	672	0.72
1600	796	567	0.61	850	609	0.65	899	651	0.70	943	692	0.74	984	730	0.78
1700	829	631	0.68	883	673	0.72	932	715	0.77	976	756	0.81	1017	794	0.85
1800	863	701	0.75	918	743	0.80	966	785	0.84	1010	826	0.89	1051	864	0.93
1900	899	776	0.83	953	818	0.88	1001	860	0.92	1045	901	0.97	1087	939	1.01
2000	936	857	0.92	990	899	0.96	1038	941	1.01	1082	981	1.05	-	-	-

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>														
	0.7			0.8			0.9			1.0			1.1		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
800	831	456	0.49	871	486	0.52	914	509	0.55	961	525	0.56	1012	532	0.57
900	846	477	0.51	886	507	0.54	929	530	0.57	976	546	0.59	1027	553	0.59
1000	864	502	0.54	905	531	0.57	947	555	0.60	994	571	0.61	1046	578	0.62
1100	885	531	0.57	926	561	0.60	969	584	0.63	1015	600	0.64	1067	607	0.65
1200	909	566	0.61	950	596	0.64	992	619	0.66	1039	635	0.68	1091	642	0.69
1300	935	607	0.65	976	636	0.68	1018	660	0.71	1065	676	0.72	-	-	-
1400	963	654	0.70	1004	683	0.73	1046	707	0.76	1093	722	0.77	-	-	-
1500	993	706	0.76	1033	736	0.79	1076	759	0.81	-	-	-	-	-	-
1600	1024	765	0.82	1065	794	0.85	1108	818	0.88	-	-	-	-	-	-
1700	1057	829	0.89	1098	859	0.92	-	-	-	-	-	-	-	-	-
1800	1091	899	0.96	-	-	-	-	-	-	-	-	-	-	-	-
1900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. Blower performance includes 1" filters. See STATIC RESISTANCE table for additional applications.

	Factory Installed AK74 blower sheave and A39 belt.
	AK61 blower sheave and A36 belt - Field installation required.



**TABLE 10: SUPPLY AIR BLOWER PERFORMANCE (BP048 BELT DRIVE) - SIDE DUCT APPLICATION**

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
	0.2			0.3			0.4			0.5			0.6			0.7		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1000	-	-	-	-	-	-	-	-	-	789	527	0.57	831	567	0.61	874	602	0.65
1100	-	-	-	-	-	-	-	-	-	811	559	0.60	854	599	0.64	896	634	0.68
1200	-	-	-	-	-	-	791	548	0.59	833	592	0.63	876	632	0.68	918	667	0.72
1300	-	-	-	772	539	0.58	813	584	0.63	855	628	0.67	898	668	0.72	940	703	0.75
1400	-	-	-	795	579	0.62	836	624	0.67	878	668	0.72	920	708	0.76	963	744	0.80
1500	779	578	0.62	819	624	0.67	860	669	0.72	902	713	0.77	944	753	0.81	987	789	0.85
1600	804	629	0.67	844	675	0.72	885	720	0.77	927	764	0.82	970	804	0.86	1013	839	0.90
1700	831	685	0.74	871	731	0.78	913	777	0.83	955	820	0.88	997	861	0.92	1040	896	0.96
1800	860	748	0.80	901	794	0.85	942	839	0.90	984	883	0.95	1026	923	0.99	1069	958	1.03
1900	891	817	0.88	931	862	0.92	973	908	0.97	1015	951	1.02	1057	992	1.06	1100	1027	1.10
2000	924	891	0.96	964	937	1.01	1005	982	1.05	1047	1026	1.10	1090	1066	1.14	1133	1102	1.18
2100	959	972	1.04	999	1018	1.09	1040	1063	1.14	1082	1107	1.19	1125	1147	1.23	1167	1182	1.27
2200	996	1059	1.14	1036	1104	1.18	1077	1150	1.23	1119	1194	1.28	1162	1234	1.32	-	-	-
2300	1034	1151	1.24	1075	1197	1.28	1116	1243	1.33	1158	1286	1.38	-	-	-	-	-	-
2400	1075	1250	1.34	1115	1296	1.39	1156	1341	1.44	-	-	-	-	-	-	-	-	-
2500	1118	1354	1.45	1158	1400	1.50	-	-	-	-	-	-	-	-	-	-	-	-

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
	0.8			0.9			1.0			1.1			1.2			1.3		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1000	917	631	0.68	959	651	0.70	1001	660	0.71	1041	658	0.71	1081	642	0.69	1119	611	0.66
1100	939	663	0.71	981	683	0.73	1023	692	0.74	1064	690	0.74	1103	674	0.72	1141	643	0.69
1200	961	696	0.75	1003	716	0.77	1045	725	0.78	1086	723	0.78	1125	707	0.76	1163	676	0.73
1300	983	732	0.79	1025	752	0.81	1067	761	0.82	1108	759	0.81	1147	743	0.80	1185	712	0.76
1400	1006	772	0.83	1048	792	0.85	1090	801	0.86	1130	799	0.86	1170	783	0.84	-	-	-
1500	1030	817	0.88	1072	837	0.90	1114	847	0.91	1154	844	0.91	1194	829	0.89	-	-	-
1600	1055	868	0.93	1098	888	0.95	1139	897	0.96	1180	895	0.96	-	-	-	-	-	-
1700	1083	924	0.99	1125	944	1.01	1166	954	1.02	-	-	-	-	-	-	-	-	-
1800	1112	987	1.06	1154	1007	1.08	-	-	-	-	-	-	-	-	-	-	-	-
1900	1142	1055	1.13	1185	1075	1.15	-	-	-	-	-	-	-	-	-	-	-	-
2000	1175	1130	1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. Blower performance includes 1" filters. See STATIC RESISTANCE table for additional applications.

- Factory Installed AK61 blower sheave and A36 belt.
- AK56 blower sheave and A36 belt - Field installation required.

**TABLE 11: SUPPLY AIR BLOWER PERFORMANCE (BP048 BELT DRIVE) - BOTTOM DUCT APPLICATION**

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
	0.2			0.3			0.4			0.5			0.6			0.7		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1000	-	-	-	-	-	-	-	-	-	-	-	-	833	564	0.61	879	605	0.65
1100	-	-	-	-	-	-	-	-	-	809	549	0.59	854	592	0.63	900	633	0.68
1200	-	-	-	-	-	-	786	538	0.58	830	581	0.62	875	623	0.67	920	664	0.71
1300	-	-	-	766	535	0.57	808	574	0.62	851	617	0.66	896	659	0.71	942	700	0.75
1400	749	541	0.58	789	576	0.62	830	616	0.66	874	658	0.71	918	701	0.75	964	742	0.80
1500	774	587	0.63	813	622	0.67	855	662	0.71	898	705	0.76	943	747	0.80	989	788	0.85
1600	801	639	0.69	840	674	0.72	881	714	0.77	925	757	0.81	970	799	0.86	1015	840	0.90
1700	830	697	0.75	869	732	0.79	911	772	0.83	954	814	0.87	999	857	0.92	1045	898	0.96
1800	862	760	0.81	901	795	0.85	943	835	0.90	986	877	0.94	1031	920	0.99	1077	960	1.03
1900	897	828	0.89	936	863	0.93	977	903	0.97	1021	945	1.01	1066	988	1.06	1111	1029	1.10
2000	934	901	0.97	973	936	1.00	1015	976	1.05	1058	1018	1.09	1103	1061	1.14	1149	1102	1.18
2100	974	979	1.05	1013	1014	1.09	1055	1054	1.13	1098	1097	1.18	1143	1139	1.22	1189	1180	1.27
2200	1017	1063	1.14	1056	1098	1.18	1098	1138	1.22	1141	1180	1.27	1186	1223	1.31	-	-	-
2300	1063	1151	1.23	1102	1186	1.27	1144	1226	1.31	1187	1268	1.36	-	-	-	-	-	-
2400	1111	1243	1.33	1151	1278	1.37	1192	1318	1.41	-	-	-	-	-	-	-	-	-
2500	1163	1340	1.44	1202	1376	1.48	-	-	-	-	-	-	-	-	-	-	-	-

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
	0.8			0.9			1.0			1.1			1.2			1.3		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1000	925	642	0.69	971	673	0.72	1017	696	0.75	1061	708	0.76	1103	708	0.76	1144	693	0.74
1100	946	670	0.72	992	701	0.75	1037	723	0.78	1082	736	0.79	1124	735	0.79	1165	721	0.77
1200	967	701	0.75	1013	732	0.79	1058	755	0.81	1102	767	0.82	1145	767	0.82	1185	752	0.81
1300	988	737	0.79	1034	768	0.82	1079	791	0.85	1123	803	0.86	1166	803	0.86	-	-	-
1400	1010	779	0.84	1056	809	0.87	1102	832	0.89	1146	844	0.91	1188	844	0.91	-	-	-
1500	1035	825	0.89	1081	856	0.92	1126	879	0.94	1170	891	0.96	-	-	-	-	-	-
1600	1062	877	0.94	1108	908	0.97	1153	931	1.00	1197	943	1.01	-	-	-	-	-	-
1700	1091	935	1.00	1137	966	1.04	1182	988	1.06	-	-	-	-	-	-	-	-	-
1800	1123	997	1.07	1169	1028	1.10	-	-	-	-	-	-	-	-	-	-	-	-
1900	1157	1066	1.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	1195	1139	1.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. Blower performance includes 1" filters. See STATIC RESISTANCE table for additional applications.

- Factory Installed AK61 blower sheave and A36 belt.
- AK56 blower sheave and A36 belt - Field installation required.

**TABLE 12: SUPPLY AIR BLOWER PERFORMANCE (BP060 BELT DRIVE) - SIDE DUCT APPLICATION**

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
	0.2			0.3			0.4			0.5			0.6			0.7		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1200	-	-	-	-	-	-	-	-	-	-	-	-	876	632	0.68	918	667	0.72
1300	-	-	-	-	-	-	-	-	-	855	628	0.67	898	668	0.72	940	703	0.75
1400	-	-	-	-	-	-	836	624	0.67	878	668	0.72	920	708	0.76	963	744	0.80
1500	-	-	-	819	624	0.67	860	669	0.72	902	713	0.77	944	753	0.81	987	789	0.85
1600	-	-	-	844	675	0.72	885	720	0.77	927	764	0.82	970	804	0.86	1013	839	0.90
1700	831	685	0.74	871	731	0.78	913	777	0.83	955	820	0.88	997	861	0.92	1040	896	0.96
1800	860	748	0.80	901	794	0.85	942	839	0.90	984	883	0.95	1026	923	0.99	1069	958	1.03
1900	891	817	0.88	931	862	0.92	973	908	0.97	1015	951	1.02	1057	992	1.06	1100	1027	1.10
2000	924	891	0.96	964	937	1.01	1005	982	1.05	1047	1026	1.10	1090	1066	1.14	1133	1102	1.18
2100	959	972	1.04	999	1018	1.09	1040	1063	1.14	1082	1107	1.19	1125	1147	1.23	1167	1182	1.27
2200	996	1059	1.14	1036	1104	1.18	1077	1150	1.23	1119	1194	1.28	1162	1234	1.32	-	-	-
2300	1034	1151	1.24	1075	1197	1.28	1116	1243	1.33	1158	1286	1.38	-	-	-	-	-	-
2400	1075	1250	1.34	1115	1296	1.39	1156	1341	1.44	-	-	-	-	-	-	-	-	-
2500	1118	1354	1.45	1158	1400	1.50	-	-	-	-	-	-	-	-	-	-	-	-

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
	0.8			0.9			1.0			1.1			1.2			1.3		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1200	961	696	0.75	1003	716	0.77	1045	725	0.78	1086	723	0.78	1125	707	0.76	1163	676	0.73
1300	983	732	0.79	1025	752	0.81	1067	761	0.82	1108	759	0.81	1147	743	0.80	1185	712	0.76
1400	1006	772	0.83	1048	792	0.85	1090	801	0.86	1130	799	0.86	1170	783	0.84	-	-	-
1500	1030	817	0.88	1072	837	0.90	1114	847	0.91	1154	844	0.91	1194	829	0.89	-	-	-
1600	1055	868	0.93	1098	888	0.95	1139	897	0.96	1180	895	0.96	-	-	-	-	-	-
1700	1083	924	0.99	1125	944	1.01	1166	954	1.02	-	-	-	-	-	-	-	-	-
1800	1112	987	1.06	1154	1007	1.08	-	-	-	-	-	-	-	-	-	-	-	-
1900	1142	1055	1.13	1185	1075	1.15	-	-	-	-	-	-	-	-	-	-	-	-
2000	1175	1130	1.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. Blower performance includes 1" filters. See STATIC RESISTANCE table for additional applications.

Factory Installed AK56 blower sheave and A36 belt.

**TABLE 13: SUPPLY AIR BLOWER PERFORMANCE (BP060 BELT DRIVE) - BOTTOM DUCT APPLICATION**

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
	0.2			0.3			0.4			0.5			0.6			0.7		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1000	-	-	-	-	-	-	-	-	-	-	-	-	862	453	0.49	901	498	0.53
1100	-	-	-	-	-	-	-	-	-	-	-	-	883	494	0.53	922	539	0.58
1200	-	-	-	-	-	-	-	-	-	866	489	0.53	904	536	0.58	943	581	0.62
1300	-	-	-	-	-	-	850	488	0.52	889	535	0.57	928	581	0.62	967	627	0.67
1400	-	-	-	836	491	0.53	875	537	0.58	913	584	0.63	952	631	0.68	991	676	0.73
1500	-	-	-	862	545	0.58	901	591	0.63	940	638	0.68	978	685	0.73	1017	730	0.78
1600	851	559	0.60	890	604	0.65	928	650	0.70	967	697	0.75	1006	744	0.80	1045	789	0.85
1700	880	624	0.67	919	668	0.72	958	714	0.77	996	761	0.82	1035	808	0.87	1074	853	0.92
1800	911	694	0.74	949	738	0.79	988	785	0.84	1027	832	0.89	1066	878	0.94	1105	923	0.99
1900	942	770	0.83	981	814	0.87	1020	860	0.92	1059	907	0.97	1097	954	1.02	1136	999	1.07
2000	976	851	0.91	1014	895	0.96	1053	941	1.01	1092	989	1.06	1130	1035	1.11	1169	1080	1.16
2100	1010	938	1.01	1049	982	1.05	1087	1028	1.10	1126	1075	1.15	1165	1122	1.20	1204	1167	1.25
2200	1046	1030	1.11	1084	1075	1.15	1123	1121	1.20	1162	1168	1.25	1200	1215	1.30	-	-	-
2300	1082	1128	1.21	1121	1172	1.26	1160	1219	1.31	1198	1266	1.36	-	-	-	-	-	-
2400	1120	1231	1.32	1159	1276	1.37	1198	1322	1.42	-	-	-	-	-	-	-	-	-
2500	1159	1340	1.44	1198	1384	1.48	-	-	-	-	-	-	-	-	-	-	-	-

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
	0.8			0.9			1.0			1.1			1.2			1.3		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1000	940	541	0.58	980	579	0.62	1019	613	0.66	1059	641	0.69	1099	662	0.71	1140	674	0.72
1100	961	582	0.62	1000	621	0.67	1040	654	0.70	1080	682	0.73	1120	703	0.75	1161	715	0.77
1200	983	624	0.67	1022	663	0.71	1062	697	0.75	1101	725	0.78	1142	745	0.80	1182	758	0.81
1300	1006	669	0.72	1045	708	0.76	1085	742	0.80	1125	770	0.83	1165	791	0.85	-	-	-
1400	1030	718	0.77	1070	757	0.81	1109	791	0.85	1149	819	0.88	1190	840	0.90	-	-	-
1500	1057	772	0.83	1096	811	0.87	1136	845	0.91	1176	873	0.94	-	-	-	-	-	-
1600	1084	831	0.89	1124	870	0.93	1163	904	0.97	1203	932	1.00	-	-	-	-	-	-
1700	1113	896	0.96	1153	935	1.00	1192	969	1.04	-	-	-	-	-	-	-	-	-
1800	1144	966	1.04	1183	1005	1.08	-	-	-	-	-	-	-	-	-	-	-	-
1900	1175	1042	1.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	1209	1123	1.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. Blower performance includes 1" filters. See STATIC RESISTANCE table for additional applications.

 Factory Installed AK56 blower sheave and A36 belt.

**TABLE 14: SUPPLY AIR BLOWER PERFORMANCE (BP072 BELT DRIVE) - SIDE DUCT APPLICATION**

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																				
	0.2			0.3			0.4			0.5			0.6			0.7			0.8		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1500	-	-	-	-	-	-	-	-	-	-	-	-	935	658	0.71	967	721	0.77	1001	786	0.84
1600	-	-	-	-	-	-	-	-	-	934	700	0.75	965	758	0.81	997	821	0.88	1031	886	0.95
1700	-	-	-	-	-	-	934	750	0.80	964	800	0.86	995	858	0.92	1028	921	0.99	1061	986	1.06
1800	-	-	-	936	810	0.87	964	849	0.91	994	899	0.96	1025	958	1.03	1058	1020	1.09	1091	1085	1.16
1900	939	885	0.95	966	910	0.98	994	949	1.02	1024	1000	1.07	1055	1058	1.13	1088	1121	1.20	1122	1185	1.27
2000	969	986	1.06	996	1011	1.08	1024	1050	1.13	1054	1100	1.18	1085	1159	1.24	1118	1222	1.31	1152	1286	1.38
2100	999	1088	1.17	1026	1113	1.19	1054	1152	1.24	1084	1202	1.29	1115	1261	1.35	1148	1324	1.42	1182	1388	1.49
2200	1028	1191	1.28	1055	1216	1.30	1084	1255	1.35	1114	1306	1.40	1145	1364	1.46	1178	1427	1.53	1211	1491	1.60
2300	1058	1296	1.39	1085	1321	1.42	1114	1360	1.46	1143	1410	1.51	1175	1468	1.57	1207	1531	1.64	-	-	-
2400	1087	1401	1.50	1114	1426	1.53	1143	1465	1.57	1173	1516	1.63	1204	1574	1.69	-	-	-	-	-	-
2500	1117	1509	1.62	1144	1533	1.65	1172	1573	1.69	-	-	-	-	-	-	-	-	-	-	-	-
2600	1146	1617	1.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																				
	0.9			1.0			1.1			1.2			1.3			1.4			1.5		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1500	1036	849	0.91	1072	908	0.97	1108	959	1.03	1146	999	1.07	1184	1026	1.10	1224	1035	1.11	1263	1024	1.10
1600	1066	949	1.02	1102	1008	1.08	1139	1059	1.14	1176	1099	1.18	1215	1126	1.21	1254	1135	1.22	-	-	-
1700	1096	1049	1.13	1132	1107	1.19	1169	1159	1.24	1206	1199	1.29	1245	1225	1.31	-	-	-	-	-	-
1800	1126	1148	1.23	1162	1207	1.30	1199	1258	1.35	1237	1298	1.39	-	-	-	-	-	-	-	-	-
1900	1156	1249	1.34	1192	1307	1.40	1229	1358	1.46	-	-	-	-	-	-	-	-	-	-	-	-
2000	1186	1350	1.45	1222	1408	1.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2100	1216	1452	1.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. Blower performance includes 1" filters. See STATIC RESISTANCE table for additional applications.

Factory Installed AK56 blower sheave and A36 belt.

**TABLE 15: SUPPLY AIR BLOWER PERFORMANCE (BP072 BELT DRIVE) - BOTTOM DUCT APPLICATION**

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																				
	0.2			0.3			0.4			0.5			0.6			0.7			0.8		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1500	-	-	-	-	-	-	-	-	-	923	639	0.69	956	702	0.75	990	766	0.82	1024	830	0.89
1600	-	-	-	-	-	-	924	684	0.73	956	742	0.80	988	805	0.86	1022	870	0.93	1057	933	1.00
1700	-	-	-	927	736	0.79	957	788	0.84	988	846	0.91	1021	909	0.97	1055	973	1.04	1089	1037	1.11
1800	930	798	0.86	959	840	0.90	989	891	0.96	1021	950	1.02	1054	1013	1.09	1087	1077	1.16	1122	1141	1.22
1900	963	902	0.97	992	944	1.01	1022	996	1.07	1053	1054	1.13	1086	1117	1.20	1120	1181	1.27	1155	1245	1.34
2000	995	1007	1.08	1024	1049	1.13	1054	1101	1.18	1086	1159	1.24	1118	1222	1.31	1152	1287	1.38	1187	1350	1.45
2100	1028	1113	1.19	1056	1155	1.24	1086	1207	1.29	1118	1265	1.36	1151	1328	1.42	1184	1393	1.49	1219	1456	1.56
2200	1060	1221	1.31	1088	1262	1.35	1119	1314	1.41	1150	1372	1.47	1183	1435	1.54	1217	1500	1.61	-	-	-
2300	1091	1329	1.43	1120	1371	1.47	1150	1422	1.53	1182	1481	1.59	1215	1544	1.66	-	-	-	-	-	-
2400	1123	1439	1.54	1152	1480	1.59	1182	1532	1.64	1214	1590	1.71	-	-	-	-	-	-	-	-	-
2500	1155	1549	1.66	1183	1591	1.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AIR FLOW CFM	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																				
	0.9			1.0			1.1			1.2			1.3			1.4			1.5		
	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP	RPM	WATTS	BHP
1500	1060	890	0.95	1096	944	1.01	1133	989	1.06	1170	1022	1.10	1208	1042	1.12	1246	1044	1.12	-	-	-
1600	1092	993	1.07	1129	1047	1.12	1165	1092	1.17	1203	1126	1.21	1240	1145	1.23	-	-	-	-	-	-
1700	1125	1097	1.18	1161	1151	1.23	1198	1196	1.28	1235	1229	1.32	-	-	-	-	-	-	-	-	-
1800	1158	1201	1.29	1194	1255	1.35	1231	1300	1.39	-	-	-	-	-	-	-	-	-	-	-	-
1900	1190	1305	1.40	1226	1359	1.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	1222	1410	1.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. Blower performance includes 1" filters. See STATIC RESISTANCE table for additional applications.

Factory Installed AK56 blower sheave and A36 belt.

**TABLE 16: SUPPLY AIR BLOWER PERFORMANCE (BP036, 048, 060 & 072 DIRECT DRIVE) - SIDE FLOW APPLICATION**

UNIT TONNAGE	MOTOR SPEED	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0	
		CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS
3 <sup>2</sup>	HI	1582	320	1538	335	1496	349	1458	363	1418	376	1381	390	1338	403	1298	417	1255	430
	MED/HI	1488	263	1440	276	1396	290	1354	303	1309	316	1263	329	1214	343	1158	358	1085	374
	MED	1339	208	1292	221	1247	234	1201	246	1152	258	1102	272	1036	288	967	303	924	313
	MED/LOW LOW	1233 1081	171 130	1184 997	183 134	1135 935	195 145	1082 863	207 158	1026 -	220 -	957 -	235 -	895 -	248 -	- -	- -	- -	- -
4 <sup>2</sup>	HI	2056	636	2017	696	1978	714	1942	734	1906	749	1864	764	1815	769	1728	743	1582	685
	MED/HI	1866	539	1832	557	1795	571	1754	585	1722	602	1679	619	1636	638	1582	653	1508	639
	MED	1680	408	1641	426	1594	438	1558	455	1517	472	1469	490	1415	505	1370	521	1337	536
	MED/LOW LOW	1582 1300	362 223	1541 1258	380 237	1495 1202	391 247	1465 -	406 -	1426 -	423 -	1377 -	440 -	1326 -	455 -	1292 -	469 -	1247 -	485 -
5 <sup>2</sup>	HI	2256	883	2258	931	2247	950	2223	964	2182	979	2125	971	2044	940	1958	898	1864	854
	MED/HI	2145	771	2127	784	2119	808	2089	826	2051	844	2014	859	1965	861	1896	843	1801	806
	MED	2020	637	1999	656	1985	675	1947	696	1910	715	1876	730	1832	740	1793	756	1725	748
	MED/LOW LOW	1757 1570	413 327	1713 1536	432 339	1677 1499	451 356	1639 -	468 -	1597 -	479 -	1559 -	497 -	1521 -	513 -	1472 -	523 -	- -	- -
6 <sup>2</sup>	HI	2256	883	2258	931	2247	950	2223	964	2182	979	2125	971	2044	940	1958	898	1864	854
	MED/HI	2145	771	2127	784	2119	808	2089	826	2051	844	2014	859	1965	861	1896	843	1801	806
	MED	2020	637	1999	656	1985	675	1947	696	1910	715	1876	730	1832	740	1793	756	-	-
	MED/LOW LOW	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

1. Includes allowances for a wet evaporator coil, 1" filters. Refer to STATIC RESISTANCES Table for resistance values.  
 2. Side Flow application (230 Volts)

**TABLE 17: SUPPLY AIR BLOWER PERFORMANCE (BP036, 048, 060 & 072 DIRECT DRIVE) - BOTTOM FLOW APPLICATION**

UNIT TONNAGE	MOTOR SPEED	AVAILABLE EXTERNAL STATIC PRESSURE - IWG <sup>1</sup>																	
		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0	
		CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS	CFM	WATTS
3 <sup>2</sup>	HI	1527	320	1485	335	1445	349	1408	363	1370	376	1334	390	1292	403	1254	417	1213	430
	MED/HI	1437	263	1391	276	1349	290	1308	303	1265	316	1221	329	1174	343	1120	358	1049	374
	MED	1293	208	1248	221	1205	234	1161	246	1114	258	1065	272	1002	288	935	303	894	313
	MED/LOW LOW	1191 1045	171 130	1144 964	183 134	1097 904	195 145	1046 -	207 -	992 -	220 -	926 -	235 -	866 -	248 -	- -	- -	- -	- -
4 <sup>2</sup>	HI	1985	636	1947	696	1909	714	1875	734	1840	749	1800	764	1752	769	1668	743	1528	685
	MED/HI	1802	539	1768	557	1733	571	1694	585	1662	602	1621	619	1580	638	1528	653	1456	639
	MED	1622	408	1585	426	1539	438	1505	455	1465	472	1419	490	1367	505	1324	521	1291	536
	MED/LOW LOW	1528 1256	362 223	1489 1216	380 237	1444 1161	391 247	1415 -	406 -	1377 -	423 -	1330 -	440 -	1281 -	455 -	1248 -	469 -	1205 -	485 -
5 <sup>2</sup>	HI	2177	883	2179	931	2169	950	2145	964	2106	979	2051	971	1973	940	1890	898	1800	854
	MED/HI	2071	771	2053	784	2045	808	2016	826	1980	844	1944	859	1897	861	1830	843	1739	806
	MED	1950	637	1929	656	1916	675	1880	696	1844	715	1811	730	1768	740	1731	756	1665	748
	MED/LOW LOW	1697 1516	413 327	1654 1484	432 339	1619 1448	451 356	1583 -	468 -	1542 -	479 -	1506 -	497 -	1469 -	513 -	- -	- -	- -	- -
6 <sup>2</sup>	HI	2177	883	2179	931	2169	950	2145	964	2106	979	2051	971	1973	940	1890	898	1800	854
	MED/HI	2071	771	2053	784	2045	808	2016	826	1980	844	1944	859	1897	861	1830	843	-	-
	MED	1950	637	1929	656	1916	675	1880	696	1844	715	1811	730	1768	740	-	-	-	-
	MED/LOW LOW	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

1. Includes allowances for a wet evaporator coil, 1" filters. Refer to STATIC RESISTANCES Table for resistance values.  
 2. Bottom Flow application (230 Volts)

**TABLE 18: BELT DRIVE BLOWER MOTOR AND DRIVE DATA**

INDOOR BLOWER SPECIFICATION														
MODEL SIZE	BLOWER RANGE (RPM)	MOTOR <sup>1</sup>		ADJUSTABLE MOTOR PULLEY				FIXED BLOWER PULLEY				BELT (NOTCHED)		
		HP	FRAME	DESIGNATION	OUTSIDE DIA. (IN.)	PITCH DIA. (IN.)	BORE (IN.)	DESIGNATION	OUTSIDE DIA. (IN.)	PITCH DIA. (IN.)	BORE (IN.)	DESIGNATION	PITCH LENGTH (IN.)	QTY.
036	600/920	1 1/2	56	1VL40	2.7-3.7	2.4-3.4	5/8	AK74	7.2	7.0	1	A39	40.3	1
048	790/1120	1 1/2	56	1VL40	2.7-3.7	2.4-3.4	5/8	AK61	5.9	5.7	1	A36	37.3	1
060	850/1220	1 1/2	56	1VL40	2.7-3.7	2.4-3.4	5/8	AK56	5.4	5.2	1	A36	37.3	1
072	900/1250	1 1/2	56	1VL44	3.1-4.1	2.8-3.8	7/8	AK56	5.4	5.2	1	A36	37.3	1

1. All motors have solid bases and are inherently protected. these motors can be selected to operate into their service factor because they are located in the moving air, upstream of any heating device.

**TABLE 19: STATIC RESISTANCES**

DESCRIPTION	RESISTANCE, IWG											
	CFM											
	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
ECONOMIZER <sup>1 3</sup>	0.07	0.08	0.09	0.11	0.13	0.15	0.17	0.20	0.23	0.26	0.30	
ELECTRIC HEATERS <sup>1</sup>	7-15KW	0.04	0.05	0.06	0.07	0.08	0.10	0.12	0.14	0.16	0.19	0.22
	20-30KW	0.06	0.07	0.08	0.09	0.11	0.13	0.15	0.17	0.20	0.23	0.26
BOTTOM DUCT CONNECTIONS <sup>1</sup>	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.14	0.16	0.19	0.22	
COOLING ONLY <sup>2</sup>	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.23	0.26	0.29	0.32	

1. Deduct these resistance values from the available external static pressure shown in SUPPLY AIR BLOWER PERFORMANCE Tables.  
2. Add these resistance values to the available static resistance values on SUPPLY AIR BLOWER PERFORMANCE Tables.  
3. 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 20: ELECTRIC HEATER CFM LIMITATIONS**

UNIT MODEL SIZE NOMINAL TONS	VOLTAGE	MINIMUM SUPPLY AIR CFM					
		HEATER SIZE NOMINAL KW					
		5	7	10	15	20	30
<b>036</b> <b>(3)</b>	208/230-1-60	1100	1100	1200	1200	1300	-
	208/230-3-60	1100	1100	1200	1200	1300	-
	460-3-60	-	1100	1200	1200	1300	-
	575-3-60	-	-	1200	1200	1300	-
<b>048</b> <b>(4)</b>	208/230-1-60	1300	1300	1300	1300	1300	-
	208/230-3-60	1300	1300	1300	1300	1300	-
	460-3-60	-	1300	1300	1300	1300	-
	575-3-60	-	-	1300	1300	1400	-
<b>060</b> <b>(5)</b>	208/230-1-60	1600	1600	1600	1600	1600	1600
	208/230-3-60	1600	1600	1600	1600	1600	1600
	460-3-60	1600	1600	1600	1600	1600	1600
	575-3-60	-	1600	1600	1600	1600	1800
<b>072</b> <b>(6)</b>	208/230-1-60	1800	1800	1800	1800	1800	1800
	208/230-3-60	1800	1800	1800	1800	1800	1800
	460-3-60	-	1800	1800	1800	1800	1800
	575-3-60	-	-	1800	1800	1800	1800



**TABLE 21: ELECTRICAL DATA - BP036-072 DIRECT DRIVE W/O POWERED CONVENIENCE OUTLET**

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTOR FLA	ID BLOWER MOTOR FLA	CONV OUTLET FLA	ELECTRIC HEATER MODEL NO.	HEATER KW	HEATER AMPS	MIN. CIRCUIT AMPACITY (AMPS)	MAX. FUSE/ BRKR <sup>1</sup> SIZE (AMPS)
		RLA EACH	LRA EACH								
036 (3)	208-1-60	11.5	68.0	2.3	8.0	0.0	None	--	--	24.7	30
							2CE04510506	4.0	19.2	48.7	50
							2CE04510706	5.6	26.9	58.3	60
							2CE04511006	8.0	38.5	72.8	80
							2CE04511506	11.9	57.2	96.2	100
							2CE04512006	15.9	76.4	120.2	125
	230-1-60	11.5	68.0	2.3	8.0	0.0	None	--	--	24.7	30
							2CE04510506	5.3	22.1	52.3	60
							2CE04510706	7.5	31.3	63.7	70
							2CE04511006	10.6	44.2	79.9	80
							2CE04511506	15.9	66.3	107.5	110
							2CE04512006	21.2	88.3	135.1	150
	208-3-60	8.3	68.0	2.3	8.0	0.0	None	--	--	20.7	25
							2CE04510525 <sup>2</sup>	4.0	11.1	34.6	40
							2CE04510725 <sup>2</sup>	5.6	15.5	40.1	45
							2CE04511025	8.0	22.2	48.4	50
							2CE04511525	11.9	33.0	62.0	70
							2CE04512025	15.9	44.1	75.8	80
	230-3-60	8.3	68.0	2.3	8.0	0.0	None	--	--	20.7	25
							2CE04510525 <sup>2</sup>	5.3	12.7	36.6	40
2CE04510725 <sup>2</sup>							7.5	18.0	43.2	45	
2CE04511025							10.6	25.5	52.5	60	
2CE04511525							15.9	38.2	68.5	70	
2CE04512025							21.2	51.0	84.4	90	
048 (4)	208-1-60	17.9	102.0	2.3	10.6	0.0	None	--	--	35.3	45
							2CE04510506	4.0	19.2	59.3	70
							2CE04510706	5.6	26.9	68.9	80
							2CE04511006	8.0	38.5	83.4	90
							2CE04511506	11.9	57.2	106.8	110
							2CE04512006	15.9	76.4	130.8	150
	230-1-60	17.9	102.0	2.3	10.6	0.0	None	--	--	35.3	45
							2CE04510506	5.3	22.1	62.9	70
							2CE04510706	7.5	31.3	74.3	80
							2CE04511006	10.6	44.2	90.5	100
							2CE04511506	15.9	66.3	118.1	125
							2CE04512006	21.2	88.3	145.7	150
	208-3-60	12.8	84.0	2.3	10.6	0.0	None	--	--	28.9	35
							2CE04510525 <sup>2</sup>	4.0	11.1	42.8	50
							2CE04510725 <sup>2</sup>	5.6	15.5	48.3	50
							2CE04511025	8.0	22.2	56.7	60
							2CE04511525	11.9	33.0	70.2	80
							2CE04512025	15.9	44.1	84.1	90
	230-3-60	12.8	84.0	2.3	10.6	0.0	None	--	--	28.9	35
							2CE04510525 <sup>2</sup>	5.3	12.7	44.8	50
2CE04510725 <sup>2</sup>							7.5	18.0	51.5	60	
2CE04511025							10.6	25.5	60.8	70	
2CE04511525							15.9	38.2	76.7	80	
2CE04512025							21.2	51.0	92.6	100	

**TABLE 21: ELECTRICAL DATA - BP036-072 DIRECT DRIVE W/O POWERED CONVENIENCE OUTLET (CONT.)**

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTOR FLA	ID BLOWER MOTOR FLA	CONV OUTLET FLA	ELECTRIC HEATER MODEL NO.	HEATER KW	HEATER AMPS	MIN. CIRCUIT AMPACITY (AMPS)	MAX. FUSE/ BRKR <sup>1</sup> SIZE (AMPS)
		RLA EACH	LRA EACH								
060 (5)	208-1-60	25.0	150.0	2.3	10.6	0.0	None	--	--	44.2	60
							2CE04510506	4.0	19.2	68.2	80
							2CE04510706	5.6	26.9	77.8	90
							2CE04511006	8.0	38.5	92.2	100
							2CE04511506	11.9	57.2	115.7	125
							2CE04512006	15.9	76.4	139.7	150
	2CE04513006	22.2	106.7	177.6	200						
	230-1-60	25.0	150.0	2.3	10.6	0.0	None	--	--	44.2	60
							2CE04510506	5.3	22.1	71.8	90
							2CE04510706	7.5	31.3	83.2	100
							2CE04511006	10.6	44.2	99.4	110
							2CE04511506	15.9	66.3	127.0	150
							2CE04512006	21.2	88.3	154.6	175
	2CE04513006	29.6	123.3	198.3	200						
	208-3-60	17.3	123.0	2.3	10.6	0.0	None	--	--	34.5	45
							2CE04510525 <sup>2</sup>	4.0	11.1	48.4	60
							2CE04510725 <sup>2</sup>	5.6	15.5	54.0	60
							2CE04511025	8.0	22.2	62.3	70
							2CE04511525	11.9	33.0	75.8	80
							2CE04512025	15.9	44.1	89.7	90
	2CE04513025	22.2	61.6	111.6	125						
	230-3-60	17.3	123.0	2.3	10.6	0.0	None	--	--	34.5	45
							2CE04510525 <sup>2</sup>	5.3	12.7	50.5	60
							2CE04510725 <sup>2</sup>	7.5	18.0	57.1	60
2CE04511025							10.6	25.5	66.4	70	
2CE04511525							15.9	38.2	82.3	90	
2CE04512025							21.2	51.0	98.3	100	
2CE04513025	29.6	71.2	123.5	125							
072 (6)	208-3-60	19.2	146.0	2.3	10.6	0.0	None	--	--	36.9	50
							2CE04510525 <sup>2</sup>	4.0	11.1	50.8	60
							2CE04510725 <sup>2</sup>	5.6	15.5	56.3	70
							2CE04511025	8.0	22.2	64.7	70
							2CE04511525	11.9	33.0	78.2	80
							2CE04512025	15.9	44.1	92.1	100
	2CE04513025	22.2	61.6	113.9	125						
	230-3-60	19.2	146.0	2.3	10.6	0.0	None	--	--	36.9	50
							2CE04510525 <sup>2</sup>	5.3	12.7	52.8	60
							2CE04510725 <sup>2</sup>	7.5	18.0	59.5	70
							2CE04511025	10.6	25.5	68.8	80
							2CE04511525	15.9	38.2	84.7	90
2CE04512025							21.2	51.0	100.6	110	
2CE04513025	29.6	71.2	125.9	150							

1. HACR Type per NEC.
2. These electric heaters do not include a fuse box. If a fuse box is required to meet a local code (i.e. Chicago), the fuse block accessories 2FB04700825 and 2FB04700846 are available for field installation.

**TABLE 22: ELECTRICAL DATA - BP036-072 BELT DRIVE W/O POWERED CONVENIENCE OUTLET**

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTOR FLA	ID BLOWER MOTOR FLA	CONV OUTLET FLA	ELECTRIC HEATER MODEL NO.	HEATER KW	HEATER AMPS	MIN. CIRCUIT AMPACITY (AMPS)	MAX. FUSE/ BRKR <sup>1</sup> SIZE (AMPS)
		RLA EACH	LRA EACH								
036 (3)	208-1-60	11.5	68.0	2.3	7.6	0.0	None	-	-	24.3	30
							2CE04510506	4.0	19.2	48.3	50
							2CE04510706	5.6	26.9	57.9	60
							2CE04511006	8.0	38.5	72.4	80
							2CE04511506	11.9	57.2	95.8	100
							2CE04512006	15.9	76.4	119.8	125
	230-1-60	11.5	68.0	2.3	7.6	0.0	None	-	-	24.3	30
							2CE04510506	5.3	22.1	51.9	60
							2CE04510706	7.5	31.3	63.3	70
							2CE04511006	10.6	44.2	79.5	80
							2CE04511506	15.9	66.3	107.1	110
							2CE04512006	21.2	88.3	134.7	150
	208-3-60	8.3	68.0	2.3	5.2	0.0	None	-	-	17.9	25
							2CE04510525 <sup>2</sup>	4.0	11.1	31.8	35
							2CE04510725 <sup>2</sup>	5.6	15.5	37.3	40
							2CE04511025	8.0	22.2	45.6	50
							2CE04511525	11.9	33.0	59.2	60
							2CE04512025	15.9	44.1	73.0	80
	230-3-60	8.3	68.0	2.3	5.2	0.0	None	-	-	17.9	25
							2CE04510525 <sup>2</sup>	5.3	12.7	33.8	35
							2CE04510725 <sup>2</sup>	7.5	18.0	40.4	45
							2CE04511025	10.6	25.5	49.7	50
							2CE04511525	15.9	38.2	65.7	70
							2CE04512025	21.2	51.0	81.6	90
460-3-60	5.1	34.0	1.3	2.6	0.0	None	-	-	10.3	15	
						2CE04510746 <sup>2</sup>	6.8	8.2	20.5	25	
						2CE04511046 <sup>2</sup>	10.1	12.1	25.5	30	
						2CE04511546 <sup>2</sup>	13.6	16.4	30.7	35	
						2CE04512046 <sup>2</sup>	19.5	23.5	39.6	40	
						None	-	-	7.0	15	
575-3-60	3.2	26.0	1.3	2.0	0.0	2CE04511058	10.6	10.2	19.8	20	
						2CE04511558	15.9	15.3	26.2	30	
						2CE04512058	21.2	20.4	32.5	35	
						None	-	-	32.3	40	
048 (4)	208-1-60	17.9	102.0	2.3	7.6	0.0	None	-	-	32.3	40
							2CE04510506	4.0	19.2	56.3	60
							2CE04510706	5.6	26.9	65.9	70
							2CE04511006	8.0	38.5	80.4	90
							2CE04511506	11.9	57.2	103.8	110
							2CE04512006	15.9	76.4	127.8	150
	230-1-60	17.9	102.0	2.3	7.6	0.0	None	-	-	32.3	40
							2CE04510506	5.3	22.1	59.9	70
							2CE04510706	7.5	31.3	71.3	80
							2CE04511006	10.6	44.2	87.5	90
							2CE04511506	15.9	66.3	115.1	125
							2CE04512006	21.2	88.3	142.7	150
	208-3-60	12.8	84.0	2.3	5.2	0.0	None	-	-	23.5	30
							2CE04510525 <sup>2</sup>	4.0	11.1	37.4	45
							2CE04510725 <sup>2</sup>	5.6	15.5	42.9	50
							2CE04511025	8.0	22.2	51.3	60
							2CE04511525	11.9	33.0	64.8	70
							2CE04512025	15.9	44.1	78.7	80
	230-3-60	12.8	84.0	2.3	5.2	0.0	None	-	-	23.5	30
							2CE04510525 <sup>2</sup>	5.3	12.7	39.4	45
							2CE04510725 <sup>2</sup>	7.5	18.0	46.1	50
							2CE04511025	10.6	25.5	55.4	60
							2CE04511525	15.9	38.2	71.3	80
							2CE04512025	21.2	51.0	87.2	90
460-3-60	5.8	42.0	1.3	2.6	0.0	None	-	-	11.1	15	
						2CE04510746 <sup>2</sup>	6.8	8.2	21.4	25	
						2CE04511046 <sup>2</sup>	10.1	12.1	26.3	30	
						2CE04511546 <sup>2</sup>	13.6	16.4	31.6	35	
						2CE04512046 <sup>2</sup>	19.5	23.5	40.5	45	
						None	-	-	9.4	15	
575-3-60	5.1	34.0	1.3	2.0	0.0	2CE04511058	10.6	10.2	22.2	25	
						2CE04511558	15.9	15.3	28.5	30	
						2CE04512058	21.2	20.4	34.9	35	
						None	-	-	34.9	35	

**TABLE 22: ELECTRICAL DATA - BP036-072 BELT DRIVE W/O POWERED CONVENIENCE OUTLET (CONT.)**

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTOR FLA	ID BLOWER MOTOR FLA	CONV OUTLET FLA	ELECTRIC HEATER MODEL NO.	HEATER KW	HEATER AMPS	MIN. CIRCUIT AMPACITY (AMPS)	MAX. FUSE/ BRKR <sup>1</sup> SIZE (AMPS)
		RLA EACH	LRA EACH								
060 (5)	208-1-60	25.0	150.0	2.3	7.6	0.0	None	-	-	41.2	45
							2CE04510506	4.0	19.2	65.2	80
							2CE04510706	5.6	26.9	74.8	90
							2CE04511006	8.0	38.5	89.2	100
							2CE04511506	11.9	57.2	112.7	125
							2CE04512006	15.9	76.4	136.7	150
	2CE04513006	22.2	106.7	174.6	175						
	230-1-60	25.0	150.0	2.3	7.6	0.0	None	-	-	41.2	45
							2CE04510506	5.3	22.1	68.8	80
							2CE04510706	7.5	31.3	80.2	90
							2CE04511006	10.6	44.2	96.4	110
							2CE04511506	15.9	66.3	124.0	125
							2CE04512006	21.2	88.3	151.6	175
	2CE04513006	29.6	123.3	195.3	200						
	208-3-60	17.3	123.0	2.3	5.2	0.0	None	-	-	29.1	35
							2CE04510525 <sup>2</sup>	4.0	11.1	43.0	50
							2CE04510725 <sup>2</sup>	5.6	15.5	48.6	60
							2CE04511025	8.0	22.2	56.9	60
							2CE04511525	11.9	33.0	70.4	80
							2CE04512025	15.9	44.1	84.3	90
	2CE04513025	22.2	61.6	106.2	110						
	230-3-60	17.3	123.0	2.3	5.2	0.0	None	-	-	29.1	35
							2CE04510525 <sup>2</sup>	5.3	12.7	45.1	50
							2CE04510725 <sup>2</sup>	7.5	18.0	51.7	60
							2CE04511025	10.6	25.5	61.0	70
							2CE04511525	15.9	38.2	76.9	80
							2CE04512025	21.2	51.0	92.9	100
	2CE04513025	29.6	71.2	118.1	125						
	460-3-60	8.4	70.0	1.3	2.6	0.0	None	-	-	14.4	20
							2CE04510746 <sup>2</sup>	6.8	8.2	24.6	30
							2CE04511046 <sup>2</sup>	10.1	12.1	29.6	30
							2CE04511546 <sup>2</sup>	13.6	16.4	34.8	35
							2CE04512046 <sup>2</sup>	19.5	23.5	43.7	45
							2CE04513046 <sup>2</sup>	28.8	34.6	57.7	60
	575-3-60	7.0	53.0	1.3	2.0	0.0	None	-	-	11.8	15
							2CE04511058	10.6	10.2	24.5	25
2CE04511558							15.9	15.3	30.9	35	
2CE04512058							21.2	20.4	37.3	40	
2CE04513058							30.4	29.3	48.4	50	
072 (6)	208-3-60	19.2	146.0	2.3	5.2	0.0	None	-	-	31.5	40
							2CE04510525 <sup>2</sup>	4.0	11.1	45.4	60
							2CE04510725 <sup>2</sup>	5.6	15.5	50.9	60
							2CE04511025	8.0	22.2	59.3	70
							2CE04511525	11.9	33.0	72.8	80
							2CE04512025	15.9	44.1	86.7	90
	2CE04513025	22.2	61.6	108.5	110						
	230-3-60	19.2	146.0	2.3	5.2	0.0	None	-	-	31.5	40
							2CE04510525 <sup>2</sup>	5.3	12.7	47.4	60
							2CE04510725 <sup>2</sup>	7.5	18.0	54.1	60
							2CE04511025	10.6	25.5	63.4	70
							2CE04511525	15.9	38.2	79.3	80
							2CE04512025	21.2	51.0	95.2	100
	2CE04513025	29.6	71.2	120.5	125						
	460-3-60	8.3	73.0	1.3	2.6	0.0	None	-	-	14.3	20
							2CE04510746 <sup>2</sup>	6.8	8.2	24.5	30
							2CE04511046 <sup>2</sup>	10.1	12.1	29.5	30
							2CE04511546 <sup>2</sup>	13.6	16.4	34.7	35
							2CE04512046 <sup>2</sup>	19.5	23.5	43.6	45
							2CE04513046 <sup>2</sup>	28.8	34.6	57.6	60
	575-3-60	7.1	60.0	1.0	2.0	0.0	None	-	-	11.9	15
							2CE04511058	10.6	10.2	24.7	25
							2CE04511558	15.9	15.3	31.0	35
							2CE04512058	21.2	20.4	37.4	40
							2CE04513058	30.4	29.3	48.5	50

1. HACR Type per NEC.  
 2. These electric heaters do not include a fuse box. If a fuse box is required to meet a local code (i.e. Chicago), the fuse block accessories 2FB04700825 and 2FB04700846 are available for field installation.

**TABLE 23: ELECTRICAL DATA - BP036-072 DIRECT DRIVE W/POWERED CONVENIENCE OUTLET**

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTOR FLA	ID BLOWER MOTOR FLA	CONV OUTLET FLA	ELECTRIC HEATER MODEL NO.	HEATER KW	HEATER AMPS	MIN. CIRCUIT AMPACITY (AMPS)	MAX. FUSE/ BRKR <sup>1</sup> SIZE (AMPS)
		RLA EACH	LRA EACH								
036 (3)	208-1-60	11.5	68.0	2.3	8.0	10.0	None	--	--	34.7	45
							2CE04510506	4.0	19.2	58.7	60
							2CE04510706	5.6	26.9	68.3	70
							2CE04511006	8.0	38.5	82.8	90
							2CE04511506	11.9	57.2	106.2	110
							2CE04512006	15.9	76.4	130.2	150
	230-1-60	11.5	68.0	2.3	8.0	10.0	None	--	--	34.7	45
							2CE04510506	5.3	22.1	62.3	70
							2CE04510706	7.5	31.3	73.7	80
							2CE04511006	10.6	44.2	89.9	90
							2CE04511506	15.9	66.3	117.5	125
							2CE04512006	21.2	88.3	145.1	150
	208-3-60	8.3	68.0	2.3	8.0	10.0	None	--	--	31.1	40
							2CE04510525 <sup>2</sup>	4.0	11.1	45.0	50
							2CE04510725 <sup>2</sup>	5.6	15.5	50.5	60
							2CE04511025	8.0	22.2	58.9	60
							2CE04511525	11.9	33.0	72.4	80
							2CE04512025	15.9	44.1	86.3	90
	230-3-60	8.3	68.0	2.3	8.0	10.0	None	--	--	31.1	40
							2CE04510525 <sup>2</sup>	5.3	12.7	47.0	50
							2CE04510725 <sup>2</sup>	7.5	18.0	53.7	60
							2CE04511025	10.6	25.5	63.0	70
							2CE04511525	15.9	38.2	78.9	80
							2CE04512025	21.2	51.0	94.8	100
048 (4)	208-1-60	17.9	102.0	2.3	10.6	10.0	None	--	--	45.3	60
							2CE04510506	4.0	19.2	69.3	80
							2CE04510706	5.6	26.9	78.9	90
							2CE04511006	8.0	38.5	93.4	100
							2CE04511506	11.9	57.2	116.8	125
							2CE04512006	15.9	76.4	140.8	150
	230-1-60	17.9	102.0	2.3	10.6	10.0	None	--	--	45.3	60
							2CE04510506	5.3	22.1	72.9	80
							2CE04510706	7.5	31.3	84.3	90
							2CE04511006	10.6	44.2	100.5	110
							2CE04511506	15.9	66.3	128.1	150
							2CE04512006	21.2	88.3	155.7	175
	208-3-60	12.8	84.0	2.3	10.6	10.0	None	--	--	38.9	50
							2CE04510525 <sup>2</sup>	4.0	11.1	52.8	60
							2CE04510725 <sup>2</sup>	5.6	15.5	58.3	60
							2CE04511025	8.0	22.2	66.7	70
							2CE04511525	11.9	33.0	80.2	90
							2CE04512025	15.9	44.1	94.1	100
	230-3-60	12.8	84.0	2.3	10.6	10.0	None	--	--	38.9	50
							2CE04510525 <sup>2</sup>	5.3	12.7	54.8	60
							2CE04510725 <sup>2</sup>	7.5	18.0	61.5	70
							2CE04511025	10.6	25.5	70.8	80
							2CE04511525	15.9	38.2	86.7	90
							2CE04512025	21.2	51.0	102.6	110

**TABLE 23: ELECTRICAL DATA - BP036-072 DIRECT DRIVE W/POWERED CONVENIENCE OUTLET (CONT.)**

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTOR FLA	ID BLOWER MOTOR FLA	CONV OUTLET FLA	ELECTRIC HEATER MODEL NO.	HEATER KW	HEATER AMPS	MIN. CIRCUIT AMPACITY (AMPS)	MAX. FUSE/ BRKR <sup>1</sup> SIZE (AMPS)
		RLA EACH	LRA EACH								
060 (5)	208-1-60	25.0	150.0	2.3	10.6	10.0	None	--	--	54.2	70
							2CE04510506	4.0	19.2	78.2	90
							2CE04510706	5.6	26.9	87.8	100
							2CE04511006	8.0	38.5	102.2	110
							2CE04511506	11.9	57.2	125.7	150
							2CE04512006	15.9	76.4	149.7	150
	2CE04513006	22.2	106.7	187.6	200						
	230-1-60	25.0	150.0	2.3	10.6	10.0	None	--	--	54.2	70
							2CE04510506	5.3	22.1	81.8	100
							2CE04510706	7.5	31.3	93.2	110
							2CE04511006	10.6	44.2	109.4	110
							2CE04511506	15.9	66.3	137.0	150
							2CE04512006	21.2	88.3	164.6	175
	2CE04513006	29.6	123.3	208.3	225						
	208-3-60	17.3	123.0	2.3	10.6	10.0	None	--	--	44.5	60
							2CE04510525 <sup>2</sup>	4.0	11.1	58.4	70
							2CE04510725 <sup>2</sup>	5.6	15.5	64.0	70
							2CE04511025	8.0	22.2	72.3	80
							2CE04511525	11.9	33.0	85.8	90
							2CE04512025	15.9	44.1	99.7	100
	2CE04513025	22.2	61.6	121.6	125						
	230-3-60	17.3	123.0	2.3	10.6	10.0	None	--	--	44.5	60
							2CE04510525 <sup>2</sup>	5.3	12.7	60.5	70
							2CE04510725 <sup>2</sup>	7.5	18.0	67.1	70
2CE04511025							10.6	25.5	76.4	80	
2CE04511525							15.9	38.2	92.3	100	
2CE04512025							21.2	51.0	108.3	110	
2CE04513025	29.6	71.2	133.5	150							
072 (6)	208-3-60	19.2	146.0	2.3	10.6	10.0	None	--	--	46.9	60
							2CE04510525 <sup>2</sup>	4.0	11.1	60.8	70
							2CE04510725 <sup>2</sup>	5.6	15.5	66.3	80
							2CE04511025	8.0	22.2	74.7	80
							2CE04511525	11.9	33.0	88.2	90
							2CE04512025	15.9	44.1	102.1	110
	2CE04513025	22.2	61.6	123.9	125						
	230-3-60	19.2	146.0	2.3	10.6	10.0	None	--	--	46.9	60
							2CE04510525 <sup>2</sup>	5.3	12.7	62.8	70
							2CE04510725 <sup>2</sup>	7.5	18.0	69.5	80
							2CE04511025	10.6	25.5	78.8	90
							2CE04511525	15.9	38.2	94.7	100
2CE04512025							21.2	51.0	110.6	125	
2CE04513025	29.6	71.2	135.9	150							

1. HACR Type per NEC.
2. These electric heaters do not include a fuse box. If a fuse box is required to meet a local code (i.e. Chicago), the fuse block accessories 2FB04700825 and 2FB04700846 are available for field installation.

**TABLE 24: ELECTRICAL DATA - BP036-072 BELT DRIVE W/POWERED CONVENIENCE OUTLET**

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTOR FLA	ID BLOWER MOTOR FLA	CONV OUTLET FLA	ELECTRIC HEATER MODEL NO.	HEATER KW	HEATER AMPS	MIN. CIRCUIT AMPACITY (AMPS)	MAX. FUSE/ BRKR <sup>1</sup> SIZE (AMPS)
		RLA EACH	LRA EACH								
<b>036 (3)</b>	208-1-60	11.5	68.0	2.3	7.6	10.0	None	--	--	34.3	45
							2CE04510506	4.0	19.2	58.3	60
							2CE04510706	5.6	26.9	67.9	70
							2CE04511006	8.0	38.5	82.4	90
							2CE04511506	11.9	57.2	105.8	110
							2CE04512006	15.9	76.4	129.8	150
	230-1-60	11.5	68.0	2.3	7.6	10.0	None	--	--	34.3	45
							2CE04510506	5.3	22.1	61.9	70
							2CE04510706	7.5	31.3	73.3	80
							2CE04511006	10.6	44.2	89.5	90
							2CE04511506	15.9	66.3	117.1	125
							2CE04512006	21.2	88.3	144.7	150
	208-3-60	8.3	68.0	2.3	5.2	10.0	None	--	--	28.3	35
							2CE04510525 <sup>2</sup>	4.0	11.1	42.2	45
							2CE04510725 <sup>2</sup>	5.6	15.5	47.7	50
							2CE04511025	8.0	22.2	56.1	60
							2CE04511525	11.9	33.0	69.6	70
							2CE04512025	15.9	44.1	83.5	90
	230-3-60	8.3	68.0	2.3	5.2	10.0	None	--	--	28.3	35
							2CE04510525 <sup>2</sup>	5.3	12.7	44.2	50
							2CE04510725 <sup>2</sup>	7.5	18.0	50.9	60
							2CE04511025	10.6	25.5	60.2	70
							2CE04511525	15.9	38.2	76.1	80
							2CE04512025	21.2	51.0	92.0	100
460-3-60	5.1	34.0	1.3	2.6	5.0	None	--	--	15.3	20	
						2CE04510746 <sup>2</sup>	6.8	8.2	25.5	30	
						2CE04511046 <sup>2</sup>	10.1	12.1	30.5	35	
						2CE04511546 <sup>2</sup>	13.6	16.4	35.7	40	
575-3-60	3.2	26.0	1.3	2.0	4.0	None	--	--	11.2	15	
						2CE04511058	10.6	10.2	24.0	25	
						2CE04511558	15.9	15.3	30.4	35	
						2CE04512058	21.2	20.4	36.7	40	
<b>048 (4)</b>	208-1-60	17.9	102.0	2.3	7.6	10.0	None	--	--	42.3	60
							2CE04510506	4.0	19.2	66.3	70
							2CE04510706	5.6	26.9	75.9	80
							2CE04511006	8.0	38.5	90.4	100
							2CE04511506	11.9	57.2	113.8	125
							2CE04512006	15.9	76.4	137.8	150
	230-1-60	17.9	102.0	2.3	7.6	10.0	None	--	--	42.3	60
							2CE04510506	5.3	22.1	69.9	80
							2CE04510706	7.5	31.3	81.3	90
							2CE04511006	10.6	44.2	97.5	100
							2CE04511506	15.9	66.3	125.1	150
							2CE04512006	21.2	88.3	152.7	175
	208-3-60	12.8	84.0	2.3	5.2	10.0	None	--	--	33.5	45
							2CE04510525 <sup>2</sup>	4.0	11.1	47.4	50
							2CE04510725 <sup>2</sup>	5.6	15.5	52.9	60
							2CE04511025	8.0	22.2	61.3	70
							2CE04511525	11.9	33.0	74.8	80
							2CE04512025	15.9	44.1	88.7	90
	230-3-60	12.8	84.0	2.3	5.2	10.0	None	--	--	33.5	45
							2CE04510525 <sup>2</sup>	5.3	12.7	49.4	50
							2CE04510725 <sup>2</sup>	7.5	18.0	56.1	60
							2CE04511025	10.6	25.5	65.4	70
							2CE04511525	15.9	38.2	81.3	90
							2CE04512025	21.2	51.0	97.2	100
460-3-60	5.8	42.0	1.3	2.6	5.0	None	--	--	16.1	20	
						2CE04510746 <sup>2</sup>	6.8	8.2	26.4	30	
						2CE04511046 <sup>2</sup>	10.1	12.1	31.3	35	
						2CE04511546 <sup>2</sup>	13.6	16.4	36.6	40	
575-3-60	5.1	34.0	1.3	2.0	4.0	None	--	--	13.4	15	
						2CE04511058	10.6	10.2	26.2	30	
						2CE04511558	15.9	15.3	32.5	35	
						2CE04512058	21.2	20.4	38.9	40	

**TABLE 24: ELECTRICAL DATA - BP036-072 BELT DRIVE W/POWERED CONVENIENCE OUTLET (CONT.)**

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTOR FLA	ID BLOWER MOTOR FLA	CONV OUTLET FLA	ELECTRIC HEATER MODEL NO.	HEATER KW	HEATER AMPS	MIN. CIRCUIT AMPACITY (AMPS)	MAX. FUSE/ BRKR <sup>1</sup> SIZE (AMPS)	
		RLA EACH	LRA EACH									
060 (5)	208-1-60	25.0	150.0	2.3	7.6	10.0	None	--	--	51.2	70	
							2CE04510506	4.0	19.2	75.2	90	
							2CE04510706	5.6	26.9	84.8	100	
							2CE04511006	8.0	38.5	99.2	110	
							2CE04511506	11.9	57.2	122.7	125	
							2CE04512006	15.9	76.4	146.7	150	
	2CE04513006	22.2	106.7	184.6	200							
	230-1-60	25.0	150.0	2.3	7.6	10.0	None	--	--	51.2	70	
							2CE04510506	5.3	22.1	78.8	90	
							2CE04510706	7.5	31.3	90.2	100	
							2CE04511006	10.6	44.2	106.4	110	
							2CE04511506	15.9	66.3	134.0	150	
							2CE04512006	21.2	88.3	161.6	175	
	2CE04513006	29.6	123.3	205.3	225							
	208-3-60	17.3	123.0	2.3	5.2	10.0	None	--	--	39.1	50	
							2CE04510525 <sup>2</sup>	4.0	11.1	53.0	60	
							2CE04510725 <sup>2</sup>	5.6	15.5	58.6	70	
							2CE04511025	8.0	22.2	66.9	70	
							2CE04511525	11.9	33.0	80.4	90	
							2CE04512025	15.9	44.1	94.3	100	
	2CE04513025	22.2	61.6	116.2	125							
	230-3-60	17.3	123.0	2.3	5.2	10.0	None	--	--	39.1	50	
							2CE04510525 <sup>2</sup>	5.3	12.7	55.1	60	
							2CE04510725 <sup>2</sup>	7.5	18.0	61.7	70	
							2CE04511025	10.6	25.5	71.0	80	
							2CE04511525	15.9	38.2	86.9	90	
							2CE04512025	21.2	51.0	102.9	110	
	2CE04513025	29.6	71.2	128.1	150							
	460-3-60	8.4	70.0	1.3	2.6	5.0	None	--	--	19.4	25	
							2CE04510746 <sup>2</sup>	6.8	8.2	29.6	35	
							2CE04511046 <sup>2</sup>	10.1	12.1	34.6	35	
							2CE04511546 <sup>2</sup>	13.6	16.4	39.8	40	
							2CE04512046 <sup>2</sup>	19.5	23.5	48.7	50	
							2CE04513046 <sup>2</sup>	28.8	34.6	62.7	70	
	575-3-60	7.0	53.0	1.3	2.0	4.0	None	--	--	15.8	20	
							2CE04511058	10.6	10.2	28.5	30	
							2CE04511558	15.9	15.3	34.9	35	
							2CE04512058	21.2	20.4	41.3	45	
							2CE04513058	30.4	29.3	52.4	60	
	072 (6)	208-3-60	19.2	146.0	2.3	5.2	10.0	None	--	--	41.5	60
								2CE04510525 <sup>2</sup>	4.0	11.1	55.4	70
								2CE04510725 <sup>2</sup>	5.6	15.5	60.9	70
								2CE04511025	8.0	22.2	69.3	80
								2CE04511525	11.9	33.0	82.8	90
								2CE04512025	15.9	44.1	96.7	100
		2CE04513025	22.2	61.6	118.5	125						
		230-3-60	19.2	146.0	2.3	5.2	10.0	None	--	--	41.5	50
2CE04510525 <sup>2</sup>								5.3	12.7	57.4	70	
2CE04510725 <sup>2</sup>								7.5	18.0	64.1	70	
2CE04511025								10.6	25.5	73.4	80	
2CE04511525								15.9	38.2	89.3	90	
2CE04512025								21.2	51.0	105.2	110	
2CE04513025		29.6	71.2	130.5	150							
460-3-60		8.3	73.0	1.3	2.6	5.0	None	--	--	19.3	25	
							2CE04510746 <sup>2</sup>	6.8	8.2	29.5	35	
							2CE04511046 <sup>2</sup>	10.1	12.1	34.5	35	
							2CE04511546 <sup>2</sup>	13.6	16.4	39.7	40	
							2CE04512046 <sup>2</sup>	19.5	23.5	48.6	50	
							2CE04513046 <sup>2</sup>	28.8	34.6	62.6	70	
575-3-60		7.1	60.0	1.0	2.0	4.0	None	--	--	15.9	20	
							2CE04511058	10.6	10.2	28.7	30	
							2CE04511558	15.9	15.3	35.0	40	
							2CE04512058	21.2	20.4	41.4	45	
	2CE04513058						30.4	29.3	52.5	60		

1. HACR Type per NEC.  
 2. These electric heaters do not include a fuse box. If a fuse box is required to meet a local code (i.e. Chicago), the fuse block accessories 2FB04700825 and 2FB04700846 are available for field installation.



**TABLE 25: PHYSICAL DATA**

MODELS		BP			
		036	048	060	072
EVAPORATOR BLOWER	Centrifugal Blower (Belt Drive) (Dia. x Wd. in.)	12 x 10	12 x 10	12 x 10	12 x 11
	Centrifugal Blower (Direct Drive) (Dia. x Wd. in.)	12 x 10	12 x 10	12 x 10	12 x 10
	Fan Motor HP (Direct Drive)	3/4	1	1	1
	Fan Motor HP (Belt Drive)	1 1/2	1 1/2	1 1/2	1 1/2
EVAPORATOR COIL	Rows Deep	3	4	4	4
	Fins Per Inch	13	13	13	13
	Face Area (Sq. Ft.)	5.1	5.1	5.1	5.1
CONDENSER FANS	Propeller Dia. (in.)	24	24	24	24
	Fan Motor Hp	1/2	1/2	1/2	1/2
	Nom. CFM	4200	4200	4200	4200
CONDENSER COILS	Rows Deep	2	2	2	2
	Fins Per Inch	18	18	18	18
	Face Area (Sq. Ft.)	17.1	17.1	17.1	17.1
COMPRESSOR	Quantity	1	1	1	1
	Type	Reciprocal	Reciprocal	Scroll	Scroll
AIR FILTERS	Quantity Per Unit (15" X 20" X 1" or 2")	2	2	2	2
	Quantity Per Unit (14" X 25" X 1" or 2")	1	1	1	1
	Total Face Area (sq. ft.)	6.3	6.3	6.3	6.3
CHARGE	Refrigerant 22 (lbs./oz.)	11/12	12/8	13/4	12/0

**TABLE 26: ELECTRIC HEAT CORRECTION FACTORS**

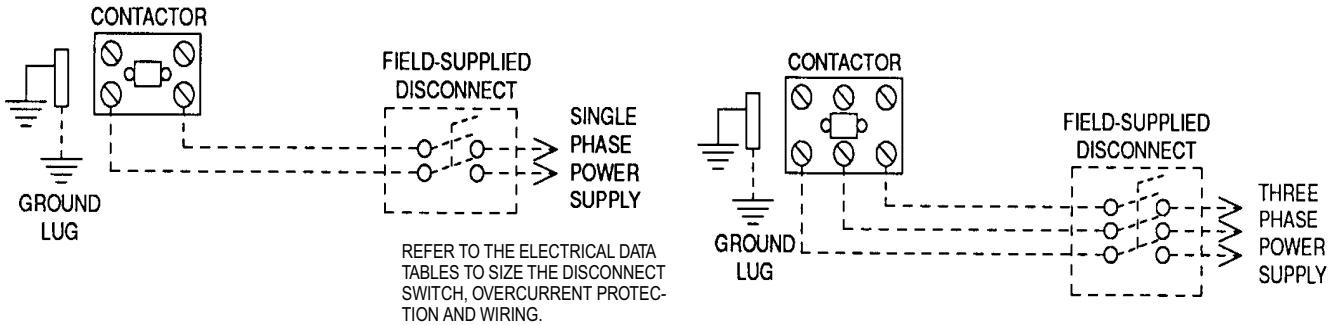
NOMINAL VOLTAGE	VOLTAGE	KW CAP. MULTI-PLIER
208	208	0.75
240	230	0.92
480	460	0.92
600	575	0.92

**TABLE 27: VOLTAGE LIMITATIONS<sup>1</sup>**

POWER SUPPLY	VOLTAGE	
	MIN.	MAX.
208/230-1-60	187	253
208/230-3-60	187	253
460-3-60	414	506
575-3-60	518	506

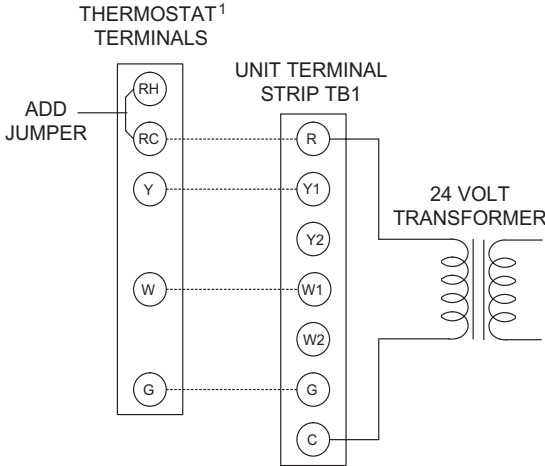
1. Utilization Range "A" in accordance with ARI Standard 110.

**TYPICAL POWER WIRING**



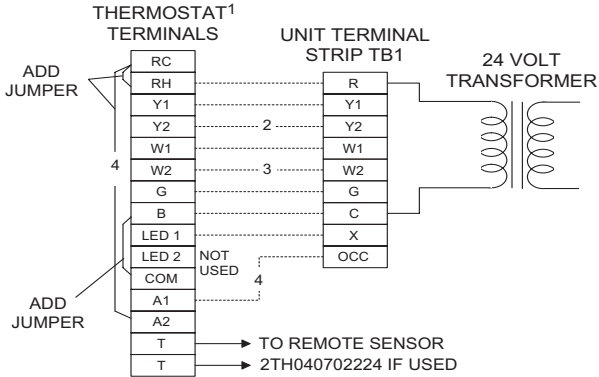
**TYPICAL CONTROL WIRING**

COOLING / HEATING (24 VOLT THERMOSTAT)



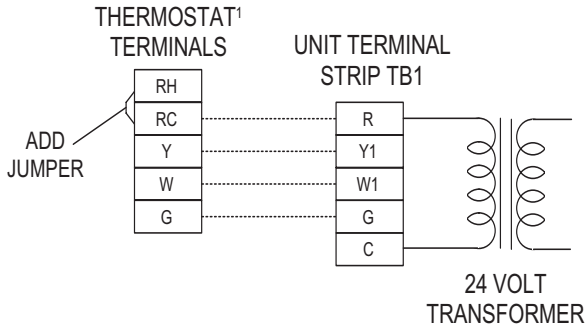
<sup>1</sup>24 VOLT THERMOSTAT 2ET07701024. TO CONTROL THE ECONOMIZER ON THE SECOND STAGE COOLING OR TO HAVE AN ELECTRIC HEAT ACCESSORY WITH TWO STAGES OF HEAT, USE THERMOSTAT 2TH0471024.

COOLING / HEATING (ELECTRONIC THERMOSTAT) MULTI STAGE



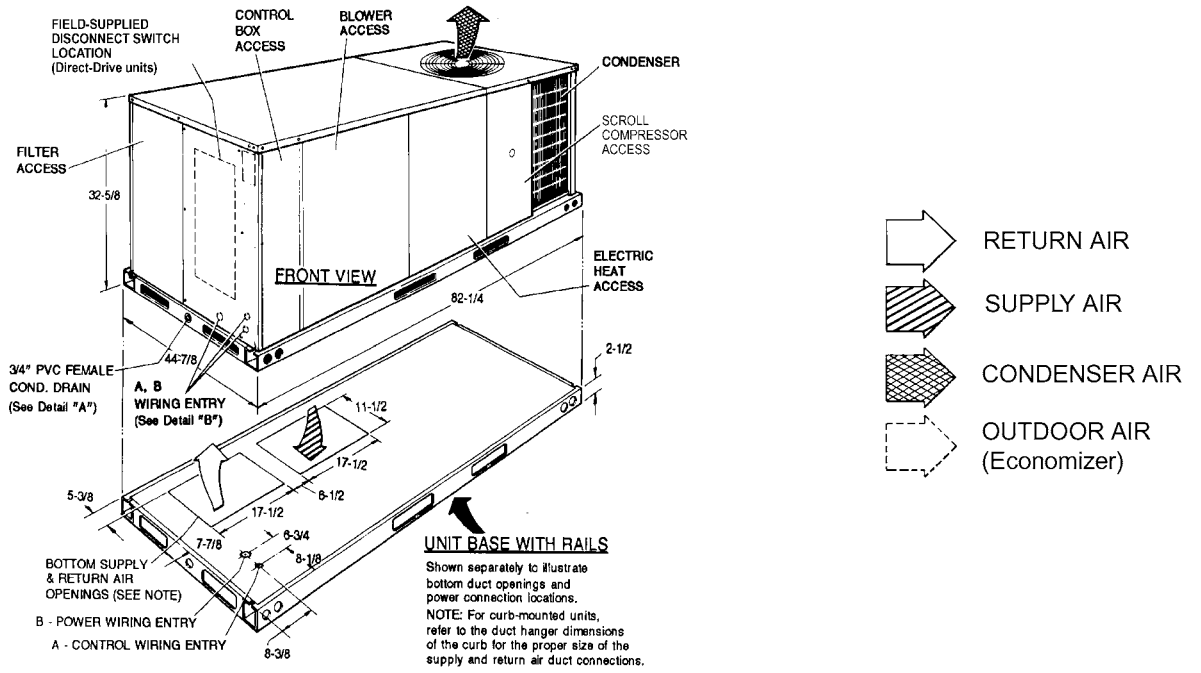
<sup>1</sup> ELECTRONIC PROGRAMMABLE THERMOSTAT 2ET04700224 (INCLUDES SUBBASE).  
<sup>2</sup> SECOND STAGE COOLING IS NOT REQUIRED ON UNITS LESS ECONOMIZER.  
<sup>3</sup> SECOND STAGE HEATING IS ONLY REQUIRED ON UNITS WITH A TWO STAGE ELECTRIC HEATER OR 2 STAGE GAS HEAT.  
<sup>4</sup> REMOVE JUMPER J2 FROM TERMINALS 4 AND 9 ON JUMPER PLUG CONNECTOR P6 ON UNITS WITH ECONOMIZER. TERMINALS A1 AND A2 PROVIDE A RELAY OUT-PUT TO CLOSE THE OUTDOOR ECONOMIZER DAMPERS WHEN THE THERMOSTAT SWITCHES TO THE SET-BACK POSITION.

COOLING / HEATING (ELECTRONIC THERMOSTAT) SINGLE STAGE

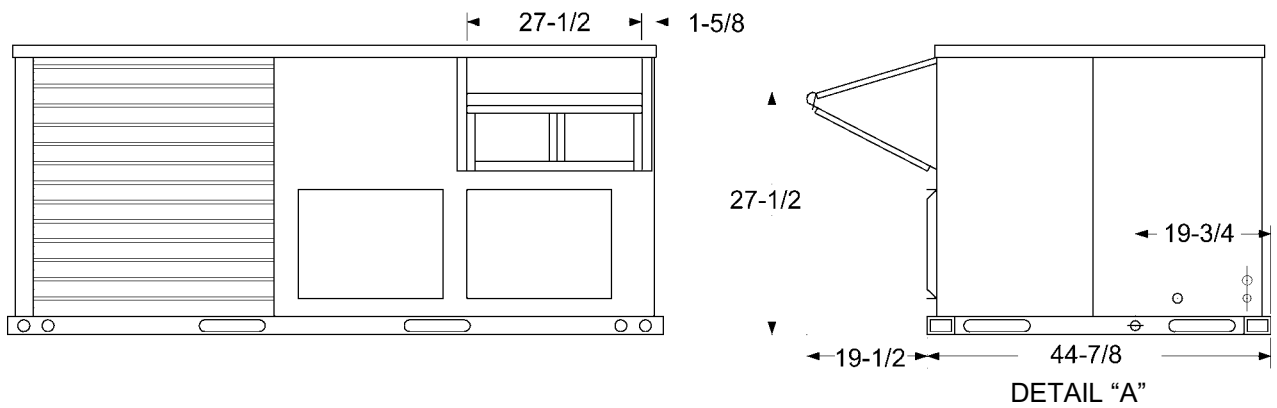


<sup>1</sup>ELECTRONIC PROGRAMMABLE THERMOSTAT 2ET07701024 (INCLUDES SUBBASE). TO CONTROL THE ECONOMIZER ON SECOND STAGE COOLING, USE THERMOSTAT 2TH04700224.

**FIGURE 2 - TYPICAL FIELD POWER & CONTROL WIRING**



**FIGURE 3 - UNIT DIMENSIONS - FRONT VIEW**



**FIGURE 4 - UNIT WITH ECONOMIZER RAINHOOD**

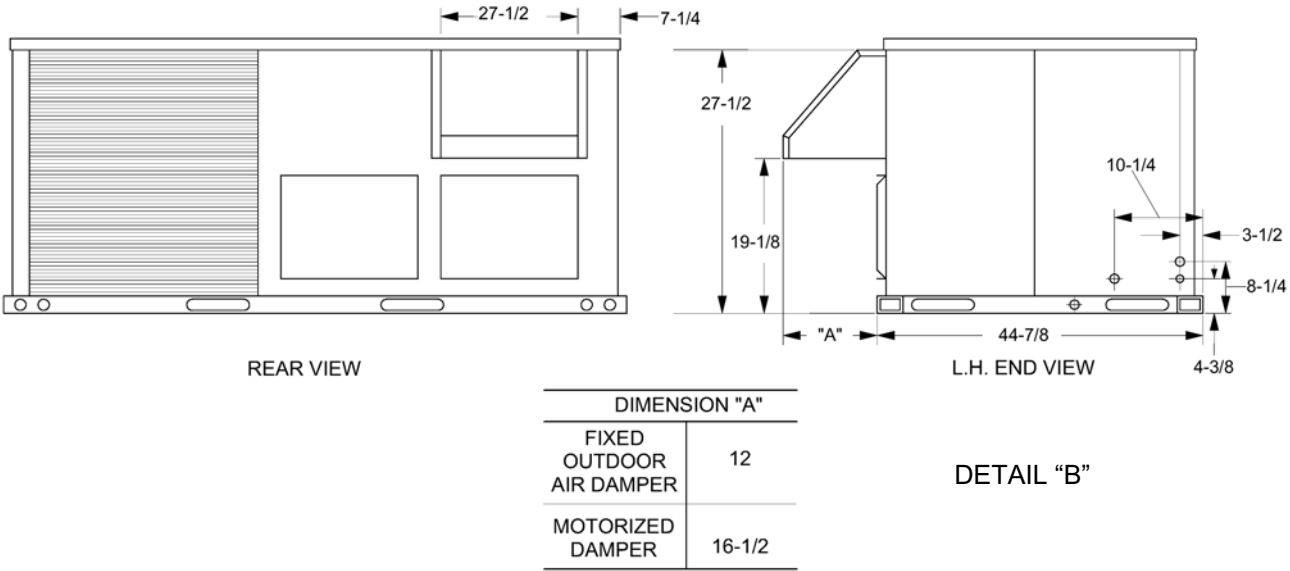
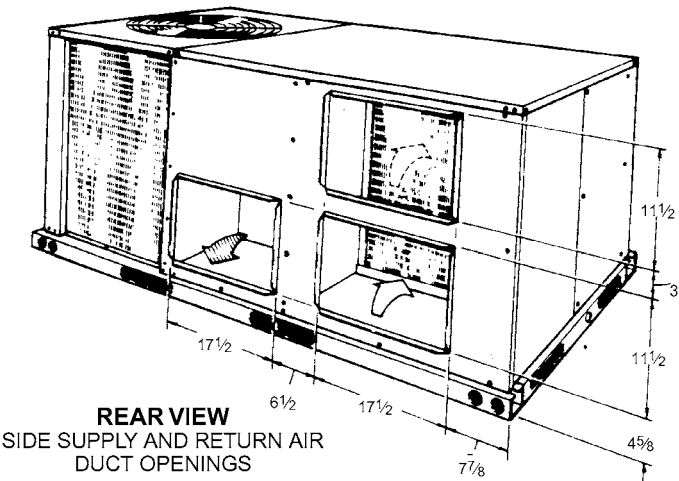


FIGURE 5 - UNIT WITH FIXED OUTDOOR AIR/MOTORIZED DAMPER RAINHOOD



**DUCT COVERS** - Units are shipped with all air duct openings covered.

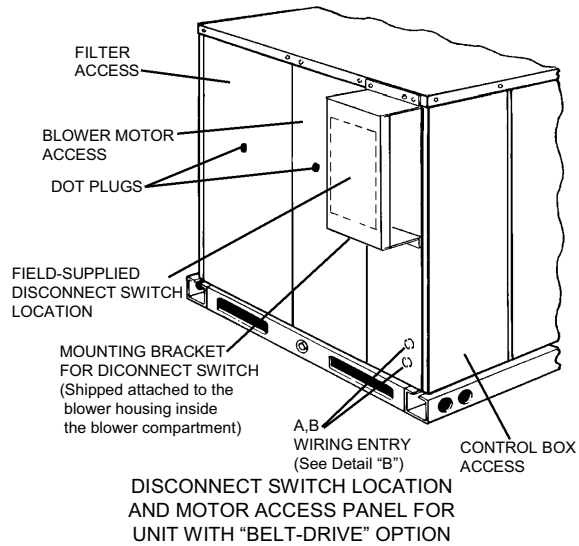
For side duct applications;

1. Remove and discard the supply and return air duct covers.
2. Connect ductwork to duct flanges on the rear of the unit.

For bottom duct applications;

1. Remove the side supply air duct cover to gain access to the bottom supply air knockout panel.
2. Remove and discard the bottom knockout panel.
3. Replace the side duct cover.
4. With filter section access panel removed from the unit, remove and discard the bottom return air knockout panel.
5. Replace the filter access panel.

FIGURE 6 - UNIT DIMENSIONS (REAR VIEW)



**FIGURE 7 - DISCONNECT/BLOWER ACCESS LOCATION**

**TABLE 28: UTILITIES ENTRY**

HOLE	OPENING SIZE (DIA.)	USED FOR	
A	7/8" KO <sup>1</sup>	Control Wiring <sup>2</sup>	Side
			Bottom
B	2" KO <sup>1</sup>	Power Wiring	Side
			Bottom
C	1-5/8" KO	Gas Piping (Front)	
D	1-1/2" KO	Gas Piping (Bottom)	

1. Opening in the bottom to the unit can be located by the side in the insulation.
2. Do not remove the 2" knockout ring.

**TABLE 29: MINIMUM CLEARANCES**

LOCATION	CLEARANCE
Front	24" (Cooling/Electric Heat)
	32" (Gas Heat)
Rear	12" (Less Economizer)
	36" (With Economizer or Fixed Air/Motorized Damper)
Left Side (Filter Access)	24" (Less Economizer) 36" (With Economizer)
Right Side (Cond. Coil)	24"
Below Unit <sup>1</sup>	0"
Above Unit <sup>2</sup>	72" (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.

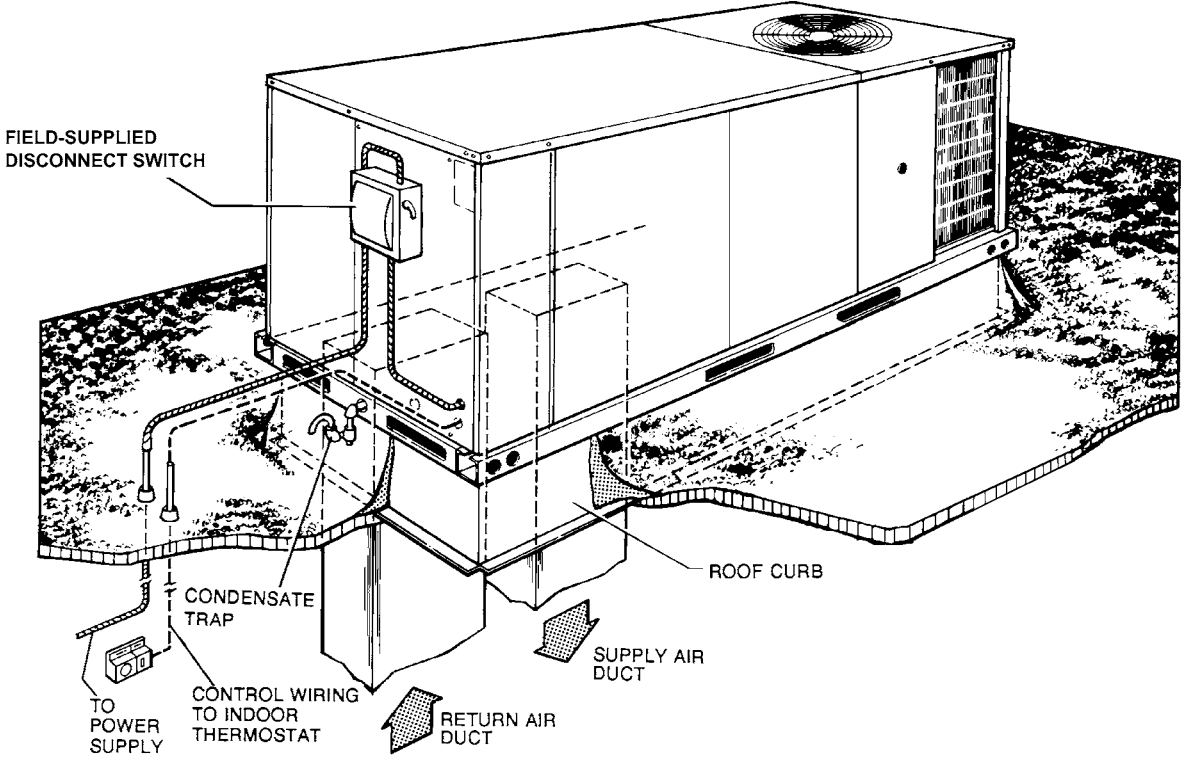
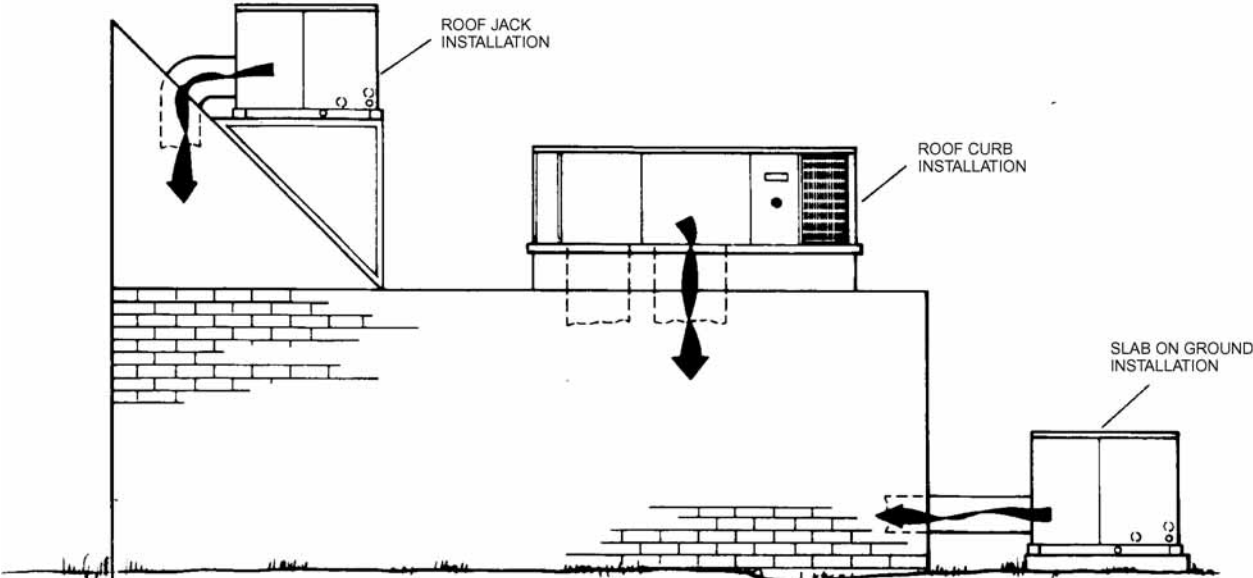
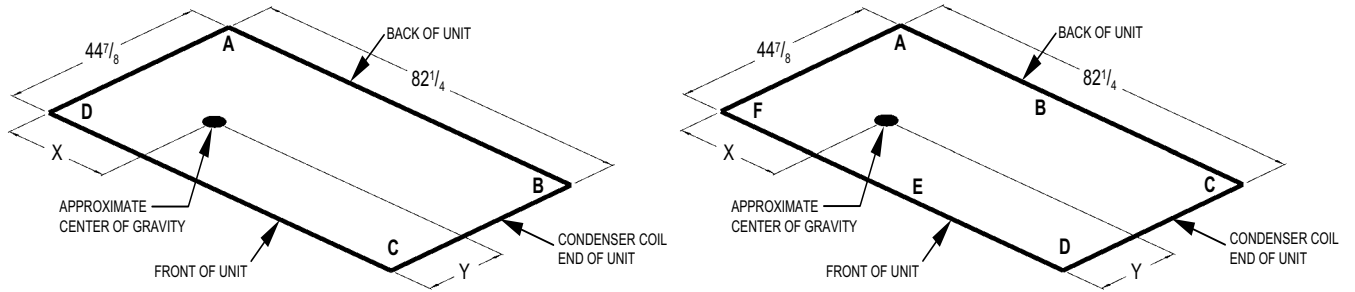


FIGURE 8 - TYPICAL APPLICATIONS

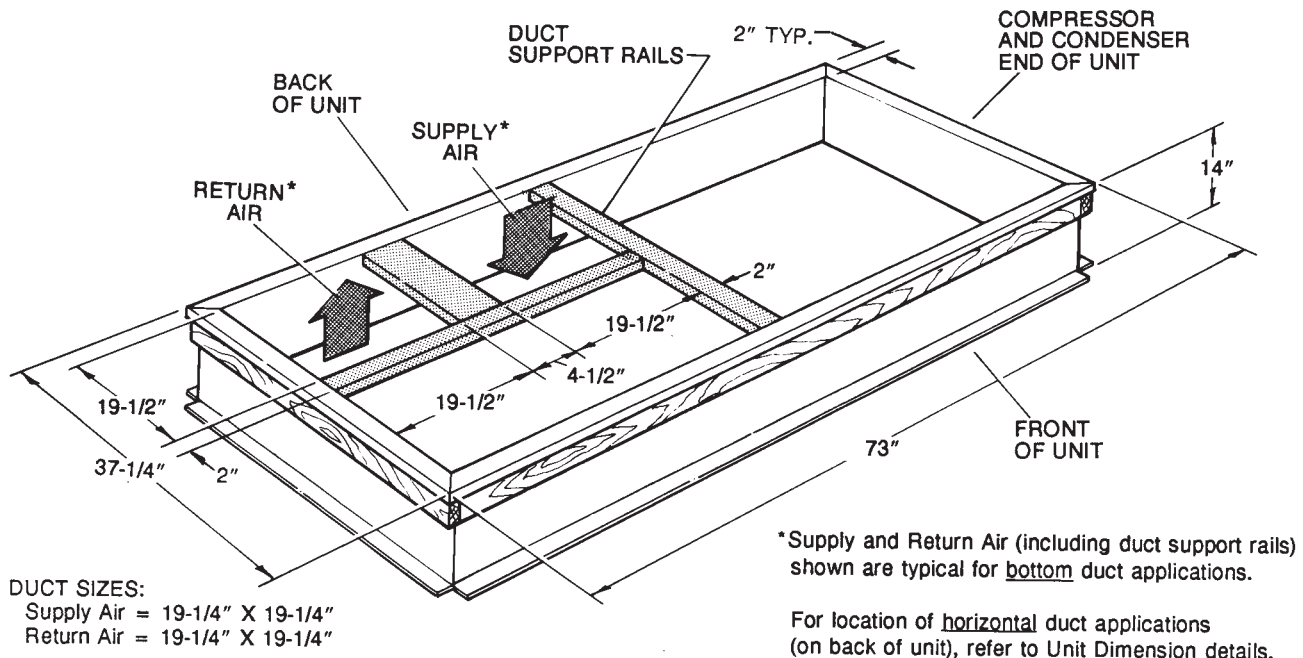


**FIGURE 9 - FOUR AND SIX POINT LOADING**

Size (Tons)	Model	Weight (lbs.)		Center of Gravity		4 Point Load Location (lbs.)				6 Point Load Location (lbs.)					
		Shipping	Operating	X	Y	A	B	C	D	A	B	C	D	E	F
036 (3)	BP	580	575	39	20	135	121	151	168	91	85	80	99	106	114
048 (4)	BP	590	585	39	20	137	124	154	171	93	87	81	101	108	116
060 (5)	BP	595	590	39	20	138	125	155	172	94	87	82	102	109	117
072 (6)	BP	615	610	39	20	143	129	160	178	97	90	84	105	112	121

**TABLE 30: OPERATING WEIGHTS (LBS.)**

MODEL SIZE		3 TON	4 TON	5 TON	6 TON
<b>BASIC UNIT</b>	BP	575	585	590	610
<b>OPTIONS</b>	Economizer	50			
	Motorized Damper	26			
	Electric Heater	5 - 7 kW			
		10 - 15 kW			
20 - 30 kW					
<b>ACCY.</b>	Roof Curb	92			
	Barometric Relief / Fixed Air Damper	10			



**FIGURE 10 - ROOF CURB DIMENSIONS**

## GUIDE SPECIFICATIONS

### GENERAL

Units shall be manufactured by York International Unitary Products Group in an ISO 9001 certified facility.

York's Sunline 2000™ units are convertible single package heat pumps. Although the units are primarily designed for curb mounting on a roof, they can also be slab-mounted at ground level or set on steel beams above a finished roof. Models are available with a wide variety of factory-mounted options and field-installed accessories to make them suitable for almost every application. All units are self-contained and assembled on full perimeter base rails with holes in the four corners for overhead rigging. Every unit is completely piped, wired, charged and tested at the factory to simplify the field installation and to provide years of dependable operation. All models (including those with an economizer) are suitable for either bottom or horizontal duct connections. Models with power exhaust are suitable for bottom duct connections only. For bottom duct, remove the sheet metal panels from the supply and return air openings through the base of the unit. For horizontal duct, remove the supply and return air panels on the rear of the unit.

All non-Scroll compressors include crankcase heaters and all compressors have internal pressure relief. Every refrigerant circuit includes a liquid line filter-drier, a discharge line high pressure switch and a suction line with a freeze-stat and low pressure/loss of charge switch. The unit control circuit includes a 75 VA transformer, a 24-volt circuit breaker and a relay board with a compressor lockout circuit, a terminal strip

for thermostat wiring, plus an additional set of pin connectors to simplify the interface of additional field controls. All units have long lasting powder paint cabinets with 1000 hour salt spray test approval under ASTM B117 procedures. All models are CSA listed. All models include a 1-year limited warranty on the complete unit. Compressors and electric heater elements carry a 5-year warranty.

### DESCRIPTION

Units shall be factory-assembled, single packaged heat pumps designed for outdoor mounted installation.

The 3, 4 and 5 ton units shall have a minimum SEER rating of 13.0 and a minimum HSPF rating of 7.70. The 6 ton units shall have a minimum EER rating of 10.2. They shall have built-in field convertible duct connections for down discharge supply/return or horizontal discharge supply/return, and be available with factory installed options or field installed accessories. 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 the cooling performance shall be rated in accordance with DOE and ARI test procedures. Units shall be CSA listed, classified to ANSI Z21.47, UL 1995/CSA No. 236 standards.

### 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. Indoor blower section shall be insulated with a minimum 1/2" thick insulation, coated on the air-



side. Aluminum foil faced insulation shall be used in the furnace compartment and be fastened with ridged fasteners to prevent insulation from entering the air stream. Cabinet panels shall be "large" size, easily removable for servicing and maintenance. Full perimeter base rails shall be provided to assure reliable transit of equipment, overhead rigging and proper sealing on roof curb applications. Disposable 1" filters shall be furnished and be accessible through a removable access door, sealed airtight. Units filter track shall be designed to accommodate either 1" or 2" filters. Fan performance measuring ports shall be provided on the outside of the cabinet to allow accurate air measurements of evaporator fan performance without removing panels or creating air bypass of the coils. Condensate pan shall be internally sloped and conform to ASHRAE 62-89 self-draining standards. Condensate connection shall be a minimum of 3/4" I.D. female and be a ridged mount connection.

#### **INDOOR (EVAPORATOR) FAN ASSEMBLY**

The indoor fan shall be a factory installed direct drive or belt drive assembly that includes an adjustable pitch motor pulley. Job site selected (B.H.P.) brake horsepower shall not exceed the motors nameplate horsepower rating, plus the service factor. Units shall be designed not to operate above service factor. 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.

#### **OUTDOOR (CONDENSER) FAN ASSEMBLY**

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

#### **REFRIGERANT COMPONENTS**

Compressor:

- a. Shall be internally protected with internal high-pressure relief and over temperature protection.
- b. Shall have internal spring 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. Special Phenolic coating shall be available as a factory option.
- b. Evaporator and Condenser coils shall be of the direct expansion, draw-thru, design.

Refrigerant Circuit and Refrigerant Safety Components shall include:

- a. Independent fixed-orifice or thermally operated expansion devices.
- b. Filter drier/strainer to eliminate any moisture or foreign matter.
- c. Accessible service gage connections on both suction and liquid lines to charge, evacuate, and measure refrigerant pressure during any necessary servicing or troubleshooting without losing charge.

#### **UNIT CONTROLS**

- a. Unit shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-volt transformer side.
- b. Unit shall incorporate a lockout circuit which provides reset capability at the space thermostat or base unit, should any of the following standard safety devices trip and shut off compressor.
- c. Loss-of-charge/Low-pressure switch.
- d. High-pressure switch.
- e. Freeze-protection thermostat, evaporator coil.
- f. If any of the above safety devices trip, a LED (light-emitting diode) indicator shall flash a diagnostic code that indicates which safety switch has tripped.
- g. Unit shall incorporate "AUTO RESET" compressor over temperature, over current protection.
- h. Unit shall operate with conventional thermostat designs and have a low voltage terminal strip for easy hook-up.
- i. Unit control board shall have on-board diagnostics and fault code display.
- j. Standard controls shall include anti-short cycle and low voltage protection, and permit cooling operation down to 0°F.
- k. Control board shall monitor each refrigerant safety switch independently.
- l. Control board shall retain last 5 fault codes in non volatile memory, which will not be lost in the event of a power loss.

#### **ELECTRIC HEATING SECTION**

An electric heating section, with nickel chromium elements, shall be provided in a range of 5 thru 30 KW, offering two stages of capacity - 16 KW and above on 208/230 volt heaters and 20 KW and above on 460 and 575 volt heaters. The heating section shall have a primary limit control(s) and automatic reset to prevent the heating element system from operating at an excessive temperature. The heating section assembly shall slide out of the unit for easy maintenance and service. Units with Electric Heating shall be wired for a single point power supply with branch circuit fusing (where required).

## UNIT OPERATING CHARACTERISTICS

- a. 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 0°F outdoor temperature. Unit shall be provided with fan time delay to prevent cold air delivery before heat exchanger warms up (Gas heat only).

## 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.

## STANDARD LIMITED WARRANTIES

- Compressor 5 Years
- Electric Heat Element 5 Years
- Other Parts 1 Year

**OPTIONAL OUTDOOR AIR** (Shall be made available by either/or):

- **ELECTRONIC ENTHALPY AUTOMATIC ECONOMIZER**- Outdoor and return air dampers that are interlocked and positioned by a fully-modulating, spring return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall not exceed 2% when dampers are fully closed and operating against a pressure differential of 0.5 IWG. A unit-mounted potentiometer shall be provided to adjust the outdoor and return air damper assembly to take in CFM of outdoor air to meet the minimum ventilation requirement of the conditioned space during normal operation. During economizer operation, a mixed-air temperature control shall modulate the outdoor and return air damper assembly to prevent the supply air temperature from dropping below 55°F. Changeover from compressor to economizer operation shall be provided by an integral electronic enthalpy control that feeds input into the basic module. The outdoor intake opening shall be covered with a rain hood that matches the exterior of the unit. Water eliminator/filters shall be provided. Simultaneous economizer/compressor operation is also possible. Dampers shall fully close on power loss.
- **MOTORIZED OUTDOOR AIR DAMPERS** - Outdoor air dampers are positioned by a 2-position, spring-return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall not exceed 2% when dampers are fully closed and operating against a pressure differential of 0.5 IWG. A unit-mounted potentiometer shall be provided to adjust the outdoor damper assembly to take in the design CFM of outdoor air to meet the ventilation requirements of the conditioned space during normal operation. Whenever the indoor fan

motor is energized, the dampers open up to one of two pre-selected positions - regardless of the outdoor air enthalpy. Dampers return to the fully closed position when the indoor fan motor is de-energized. Dampers shall fully close on power loss.

## OTHER PRE-ENGINEERED ACCESSORIES AVAILABLE

- **ROOF CURB** - 14" and 8" high, full perimeter curb with wood nailer (shipped knocked-down).
- **BAROMETRIC RELIEF DAMPER** - Contains a rain hood, air inlet screen, exhaust damper and mounting hardware. Used to relieve internal air pressure through the unit.
- **ELECTRIC HEATERS**
- **ECONOMIZER/MOTORIZED DAMPER RAIN HOOD** - Contains all hood panels and the hardware for assembling.
- **MANUAL OUTDOOR AIR DAMPER**
- **COIL GUARD KIT** - Guard for cooling coil.
- **HAIL GUARD**

## OTHER FACTORY INSTALLED OPTIONS

- **POWER EXHAUST OPTION** - To work in conjunction with economizers.
- **TECHNICOAT PHENOLIC COATED CONDENSER AND EVAPORATOR COIL**
- **ELECTRONIC SINGLE ENTHALPY ECONOMIZER**
- **DIRTY FILTER SWITCH**
- **PHASE MONITOR**
- **COIL GUARD**
- **POWERED GFI CONVENIENCE OUTLET**
- **NON-POWERED GFI CONVENIENCE OUTLET**
- **BAS CONTROLS (Simplicity® INTELLI-Comfort™, CPC, JOHNSON, HONEYWELL, NOVAR)**
- **BAS READY ECONOMIZER (2-10 V.D.C. ACTUATOR WITHOUT A CONTROLLER)**
- **HINGED FILTER DOOR ACCESS AND TOOLESS ACCESS PANELS**
- **STAINLESS STEEL DRAIN PAN**
- **BOTTOM DRAIN CONNECTION**
- **2" PLEATED FILTERS**
- **DISCONNECT SWITCH**
- **SUPPLY AIR SMOKE DETECTOR**
- **RETURN AIR SMOKE DETECTOR**



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