

**180CNV
EVOLUTION® EXTREME
VARIABLE SPEED AIR CONDITIONER
WITH PURON® REFRIGERANT
(2 - 5 Ton)**



Product Data



Bryant's 180C Evolution® Extreme AC is a variable speed cooling product providing up to 20.5 SEER cooling efficiency. Lower speed operation, when needed in cooling, for enhanced comfort and dehumidification.

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. Refer to the combination ratings in the AHRI for system combinations that meet Energy Star® guidelines.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

INDUSTRY LEADING FEATURES / BENEFITS

Energy Efficiency

- Up to 20.5 SEER/15.5 EER
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 58 dBA

Comfort

- Variable speed scroll compressor with capacity range from 40-100%
- Air cooled Inverter variable speed drive
 - System requires Evolution® Connex™ wall control (SYSTXBBITC01-A, SYSTXBBITC01-B or newer)
- Energy Tracking capability with the Evolution® Connex™ wall control
 - Wall Control w/software version 13 or later (Energy Tracking has the ability to monitor and estimate the energy consumption of your Evolution® system.)

Reliability

- Non-ozone depleting Puron® refrigerant
- Front-seating service valves
- High pressure switch
- Suction pressure transducer
- TXV for cooling
- Filter drier (field installed)
- Internal crankcase heater standard

Flexibility and installation:

- 2 control wires to outdoor unit
- Minimum and maximum airflow adjustments

Durability

DuraGuard™ Plus protection package:

- Solid, Durable sheet metal construction
- Steel louver coil guard
- Baked-on, complete outer coverage, powder paint

Applications

- Long-line - up to 250 feet (76.2 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)

MODEL NUMBER NOMENCLATURE

| | | | | | | | | | | | | |
|------------------------|-----------------------------|---------------------|-------------------------|--------------------------------------|----------------------------------|--|---|-----------------------|-----------------------|-----------------------|-------------------------------|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 14 |
| N | N | N | A | A/N | N | N | N | N | A/N | A/N | N | A |
| 1 | 8 | 0 | C | N | V | 0 | 3 | 6 | 0 | 0 | 0 | A |
| Product Family 1=AC | Tier 8= Evolution Series | SEER 0 = 20 SEER | Major Series C=Puron | Voltage N= 208-230-1 or 208/230-1 | Variations V = Variable Speed | Cooling Capacity 1,000 Btuh (nominal) | | Open 0=Not Defined | Open 0=Not Defined | Open 0=Not Defined | Series A = Original Series | |



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.



ISO 9001
QMI-SAI Global



This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow all manufacturing refrigerant charging and air flow instructions. **Failure to confirm proper charge and air flow may reduce energy efficiency and shorten equipment life.**



STANDARD FEATURES

| FEATURES | Unit Size – Voltage, Series | | | |
|---|-----------------------------|------|------|------|
| | 24-A | 36-A | 48-A | 60-A |
| Puron Refrigerant | X | X | X | X |
| Louvered Coil Guard | X | X | X | X |
| Field Installed Filter Drier | X | X | X | X |
| Front Seating Service Valves | X | X | X | X |
| Temperature Protection | X | X | X | X |
| Long Line capability | X | X | X | X |
| Suction Pressure Transducer | X | X | X | X |
| High Pressure Switch | X | X | X | X |
| Internal Crankcase Heater | X | X | X | X |
| Low ambient cooling down to 0°F capability with Evolution® Connex™ wall control | X | X | X | X |
| Utility Interface Connections | X | X | X | X |
| Enhanced Diagnostics with Evolution® Connex™ wall control | X | X | X | X |
| Energy Tracking Capability with the Evolution® Connex™ wall control (requires software version 13 or later) | X | X | X | X |
| Deluxe Sound Blanket | X | X | X | X |
| Outdoor Air Temperature Sensor | X | X | X | X |

X = Standard

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable total equivalent length for air conditioners can vary depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the outdoor unit.

Maximum Line Lengths for Air Conditioner Applications

| | MAXIMUM ACTUAL LENGTH ft (m) | MAXIMUM EQUIVALENT LENGTH† ft (m) | MAXIMUM VERTICAL SEPARATION ft (m) |
|-----------------------------------|---|--------------------------------------|---------------------------------------|
| Units on equal level | 200 (61) | 250 (76.2) | N/A |
| Outdoor unit ABOVE indoor unit | 200 (61) | 250 (76.2) | 200 (61) |
| Outdoor unit BELOW indoor unit | See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit' | | |

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

Maximum Total Equivalent Length† - Outdoor Unit BELOW Indoor Unit

| Size | Liquid Line Diameter w/ TXV | AC with Puron® Refrigerant – Maximum Total Equivalent Length† Vertical Separation ft (m) Outdoor unit BELOW indoor unit; | | | | | | | |
|------|-----------------------------------|---|----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|--|
| | | 0–20 (0 – 6.1) | 21–30 (6.4 – 9.1) | 31–40 (9.4 – 12.2) | 41–50 (12.5 – 15.2) | 51–60 (15.5 – 18.3) | 61–70 (18.6 – 21.3) | 71–80 (21.6 – 24.4) | |
| 24 | 3/8 | 250* | 250* | 250* | 250* | 250* | 250* | 250* | |
| 36 | 3/8 | 250* | 250* | 250* | 250* | 250* | 250* | 250* | |
| 48 | 3/8 | 250* | 250* | 250* | 250* | 230 | 160 | -- | |
| 60 | 3/8 | 250* | 225* | 190 | 150* | 110 | -- | -- | |

* Maximum actual length not to exceed 200 ft (61 m)

† Total equivalent length accounts for losses due to elbows or fitting.

-- = outside acceptable range

LONG LINE APPLICATIONS

An application is considered Long Line when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. Defining a system as long line depends on the liquid line diameter, actual length of the tubing, and vertical separation between the indoor and outdoor units.

For air conditioner systems, the chart below shows when an application is considered Long Line. Beyond these lengths, long line accessories are required:

AC with Puron Referant Long Line Description ft. (m) Beyond these lengths, long line accessories are required.

| Liquid Line Size | Units On Same Level | Outdoor Below Indoor | Outdoor Above Indoor |
|------------------|---------------------|--------------------------------------|----------------------|
| 3/8 | 80 (24.4) | 20 (6.1) vertical or 80 (24.4) total | 80 (24.4) |

Note: See Long Line Guideline for details

COOLING CAPACITY LOSS TABLE

| Nominal Size (Btuh) | Line OD (in.) | 180CNV Cooling Capacity Loss (%) | | | | | | | | | | |
|---------------------------|------------------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| | | Total Equivalent Line Length (ft) | | | | | | | | | | |
| | | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 175 | 200 | 225 | 250 |
| 24000 | 5/8 | 0.5 | 1.2 | 1.8 | 1.9 | 2.4 | 3.0 | 3.7 | 4.3 | 4.9 | 5.5 | 6.2 |
| | 3/4 | 0.1 | 0.4 | 0.6 | 0.7 | 0.8 | 1.1 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 |
| | 7/8 | 0.0 | 0.1 | 0.3 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.1 |
| 36000 | 5/8 | 1.1 | 2.4 | 3.7 | 4.0 | 5.0 | 6.3 | 7.7 | 9.0 | 10.3 | 11.6 | 12.9 |
| | 3/4 | 0.3 | 0.8 | 1.3 | 1.4 | 1.8 | 2.3 | 2.8 | 3.2 | 3.7 | 4.2 | 4.7 |
| | 7/8 | 0.0 | 0.3 | 0.5 | 0.6 | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 |
| 48000 | 3/4 | 0.7 | 1.6 | 2.4 | 2.6 | 3.2 | 4.1 | 4.9 | 5.7 | 6.5 | 7.4 | 8.2 |
| | 7/8 | 0.3 | 0.7 | 1.1 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4.1 |
| | 1 1/8 | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| 60000 | 3/4 | 1.0 | 2.3 | 3.5 | 3.8 | 4.8 | 6.0 | 7.3 | 8.5 | 9.8 | 11.0 | 12.3 |
| | 7/8 | 0.4 | 1.0 | 1.7 | 1.8 | 2.3 | 2.9 | 3.5 | 4.2 | 4.8 | 5.4 | 6.0 |
| | 1 1/8 | 0.0 | 0.1 | 0.3 | 0.4 | 0.5 | 0.7 | 0.8 | 1.0 | 1.2 | 1.4 | 1.5 |

Rating Line Size in **Bold**

MIN/MAX AIRFLOW TABLES

The indoor airflow delivered by this system varies significantly based on outdoor temperature, indoor unit combination, and system demand. The airflows on these tables are for duct design considerations. Duct systems capable of these ranges will ensure

the system will deliver full capacity at all outdoor temperatures. Minimum and maximum airflows can be adjusted from these numbers in the Evolution® Connex™ wall control air conditioner Setup screen.

| Cooling – Comfort Mode | | | Minimum Cooling (Dehum or Zoning) |
|------------------------|--------------|--------------|--------------------------------------|
| Size | Max Capacity | Min Capacity | |
| 24 | 726 | 651 | 398 |
| 36 | 1168 | 651 | 398 |
| 48 | 1394 | 1186 | 693 |
| 60 | 1650 | 1186 | 693 |

| Cooling – Efficiency Mode | | |
|---------------------------|--------------|--------------|
| Size | Max Capacity | Min Capacity |
| 24 | 949 | 830 |
| 36 | 1334 | 830 |
| 48 | 1593 | 1355 |
| 60 | 1885 | 1355 |

PHYSICAL DATA

| UNIT SIZE SERIES | 24–A | 36–A | 48–A | 60–A |
|----------------------------|--|-------------|-------------|-------------|
| Operating Weight lb (kg) | 315 (143) | 315 (143) | 324 (147) | 324 (147) |
| Shipping Weight lb (kg) | 351 (159) | 351 (159) | 362 (164) | 362 (164) |
| Compressor Type | Variable Speed Scroll | | | |
| REFRIGERANT | Puron® (R-410A) | | | |
| Control | TXV (Puron® Hard Shutoff) | | | |
| Charge lb (kg) | 12.7 (5.76) | 12.7 (5.76) | 14.0 (6.35) | 14.0 (6.35) |
| COND FAN | Forward Swept Propeller Type, Direct Drive | | | |
| Air Discharge | Vertical | | | |
| Air Qty (CFM) | 2700 | 4269 | 4350 | 5000 |
| Motor HP | 1/3 | 1/3 | 1/3 | 1/3 |
| Motor RPM | 500–900 | 500–900 | 500–900 | 500–900 |
| COND COIL | | | | |
| Face Area (Sq ft) | 30.25 | 30.25 | 30.25 | 30.25 |
| Fins per In. | 20 | 20 | 20 | 20 |
| Rows | 2 | 2 | 2 | 2 |
| Circuits | 8 | 8 | 8 | 8 |
| VALVE CONNECT. (In. ID) | | | | |
| Vapor | 7/8 | 7/8 | 7/8 | 7/8 |
| Liquid | 3/8 | | | |
| REFRIGERANT TUBES (In. OD) | | | | |
| Rated Vapor* | 7/8 | 7/8 | 1–1/8 | 1–1/8 |
| Max Liquid Line | 3/8 | | | |

* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

Note: See unit Installation Instruction for proper installation.

ACCESSORIES

| KIT NUMBER | KIT NAME | 24-A | 36-A | 48-A | 60-A |
|---------------|---|------|------|------|------|
| KHAEM0101EMI | Electro-Magnetic Interference (Emi) Kit | X | X | X | X |
| KHASS0606MPK* | Snow Stand | X | X | X | X |
| KSASF0201AAA | Support Feet | X | X | X | X |
| KSATX0301PUR | TXV | X | X | | |
| KSATX0401PUR | TXV | | | X | X |
| STANDARD | Internal Crankcase Heater | S | S | S | S |

x = Accessory S = Standard * Available from RCD

CONTROLS

| | |
|-------------------------------|---|
| SYSTXBBITC01-A & B | Evolution® Connex™ wall control (Wi-Fi) |
| SYSTXBB4ZC01 | 4-Zone Damper Control Module (Wall-mounted control for a four-zone system.) |
| SYSTXBBSMS01 | Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.) |
| SYSTXBBRRS01 | Remote Room Sensor (Monitors temperature in an individual zone.) |
| SYSTXBBNIM01 | Evolution Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non-zoning applications.) |

ACCESSORY USAGE GUIDELINE

| ACCESSORY | REQUIRED FOR LOW-AMBIENT COOLING APPLICATIONS (Below 55°F/12.8°C) | REQUIRED FOR LONG LINE APPLICATIONS* (Over 80 ft/24.38 m) | REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles/3.22 km) | Installations with Radio Frequency Interference Concerns in the Range |
|--|---|---|--|---|
| Crankcase Heater | Standard | Standard | Standard | N/A |
| Electro-Magnetic Interference (EMI) Kit | No | No | No | Yes |
| Evaporator Freeze Protection | Standard with Evolution Control | No | No | N/A |
| Low-Ambient Control | Standard with Evolution Control | No | No | N/A |
| Puron Refrigerant Balance Port Hard-ShutOff TXV | Yes† | Yes† | Yes† | N/A |
| Winter Start Control | Standard with Evolution Control | No | No | N/A |

* For tubing set lengths between 80 and 200 ft. (24.38 and 60.96 m) horizontal or 20 ft. (6.10 m) vertical differential (total equivalent length), refer to the Long Line Guideline—Air Conditioners and Heat Pumps using Puron® Refrigerant.

† Required on all indoor units.

Accessory Description and Usage (Listed Alphabetically)

1. Compressor Start Assist

The inverter drive gently starts the variable speed compressor at all times. No other start device is compatible with this unit.

2. Crankcase Heater

Compressor motor winding resistance heater which is internal to compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage:

Used in low ambient cooling applications.

Used in long line applications.

3. Electro-Magnetic Interference (EMI) Kit

Usage Guideline:

May be required to address radio frequency interference for equipment, such as HAM radios, operating between 6 and 30 MHz.

4. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

5. Thermostatic Expansion Valve (TXV) Bi-Flow

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Usage Guideline:

Accessory required to meet AHRI rating and system reliability, where indoor not equipped.

Required in all Air conditioner applications designed with Puron refrigerant.

6. Winter Start Control

This control is designed to alleviate nuisance opening of the low-pressure switch by bypassing it for the first 3 minutes of operation.

ELECTRICAL DATA

| UNIT SIZE-VOLTAGE, SERIES | V/PH | OPER VOLTS* | | COMPR | | FAN | MCA | MAX FUSE** or CKT BRK AMPS |
|---------------------------|-----------|-------------|-----|-------|------|-----|------|----------------------------|
| | | MAX | MIN | LRA | RLA | FLA | | |
| 24-A | 208-230-1 | 253 | 197 | 24 | 15.1 | 3.2 | 22.1 | 30 |
| 36-A | | | | 24 | 15.1 | 3.2 | 22.1 | 30 |
| 48-A | | | | 42 | 25.4 | 3.2 | 35 | 50 |
| 60-A | | | | 42 | 25.4 | 3.2 | 35 | 50 |

* Permissible limits of the voltage range at which the unit will operate satisfactorily

† If wire is applied at ambient greater than 30°C, consult table 310-16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 336-26. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

‡ Length shown is as measured 1 way along wire path between unit and service panel for voltage drop not to exceed 2%.

** Time-Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps

RLA - Rated Load Amps

NOTE: Control circuit is 24-V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

SOUND POWER LEVEL (dBA)

| Unit Size - Voltage, Series | Typical Octave Band Spectrum (without tone adjustment) | Min Speed Cooling | Max Speed Cooling |
|-----------------------------|--|-------------------|-------------------|
| 24-A | Freq (Hz) | 1800 RPM | 3200 RPM |
| | 125 | 60 | 61 |
| | 250 | 58 | 60 |
| | 500 | 56 | 58 |
| | 1000 | 52 | 58 |
| | 2000 | 48 | 51 |
| | 4000 | 44 | 47 |
| | 8000 | 51 | 55 |
| | Sound Rating (dBA) | 58 | 62 |
| 36-A | Freq (Hz) | 1800 RPM | 4500 RPM |
| | 125 | 60 | 63 |
| | 250 | 58 | 62 |
| | 500 | 56 | 65 |
| | 1000 | 52 | 61 |
| | 2000 | 48 | 59 |
| | 4000 | 44 | 56 |
| | 8000 | 51 | 55 |
| | Sound Rating (dBA) | 58 | 67 |
| 48-A | Freq (Hz) | 1800 RPM | 3450 RPM |
| | 125 | 64 | 68 |
| | 250 | 59 | 67 |
| | 500 | 57 | 65 |
| | 1000 | 57 | 63 |
| | 2000 | 52 | 59 |
| | 4000 | 51 | 52 |
| | 8000 | 55 | 58 |
| | Sound Rating (dBA) | 62 | 68 |
| 60-A | Freq (Hz) | 1800 RPM | 4250 RPM |
| | 125 | 64 | 70 |
| | 250 | 59 | 71 |
| | 500 | 57 | 68 |
| | 1000 | 57 | 67 |
| | 2000 | 52 | 62 |
| | 4000 | 51 | 57 |
| | 8000 | 55 | 57 |
| | Sound Rating (dBA) | 62 | 71 |

NOTE: Tested in compliance with AHRI 270-2008 but not listed with AHRI.

* 024 & 036 tested at 44°F Outdoor Air Temperature. 048 & 060 tested at 40°F

**Testable RPM limited by outdoor temp. Max unit RPM is 6500 for the 4 ton and 7000 for the 3 and 5 ton.

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

| UNIT SIZE-VOLTAGE, SERIES | REQUIRED SUBCOOLING °F (°C) - See UI |
|---------------------------|---|
| 24-A | Subcooling recommendation displayed on wall control after the required stabilization period in Charging Mode must be followed |
| 36-A | |
| 48-A | |
| 60-A | |

DIMENSIONS

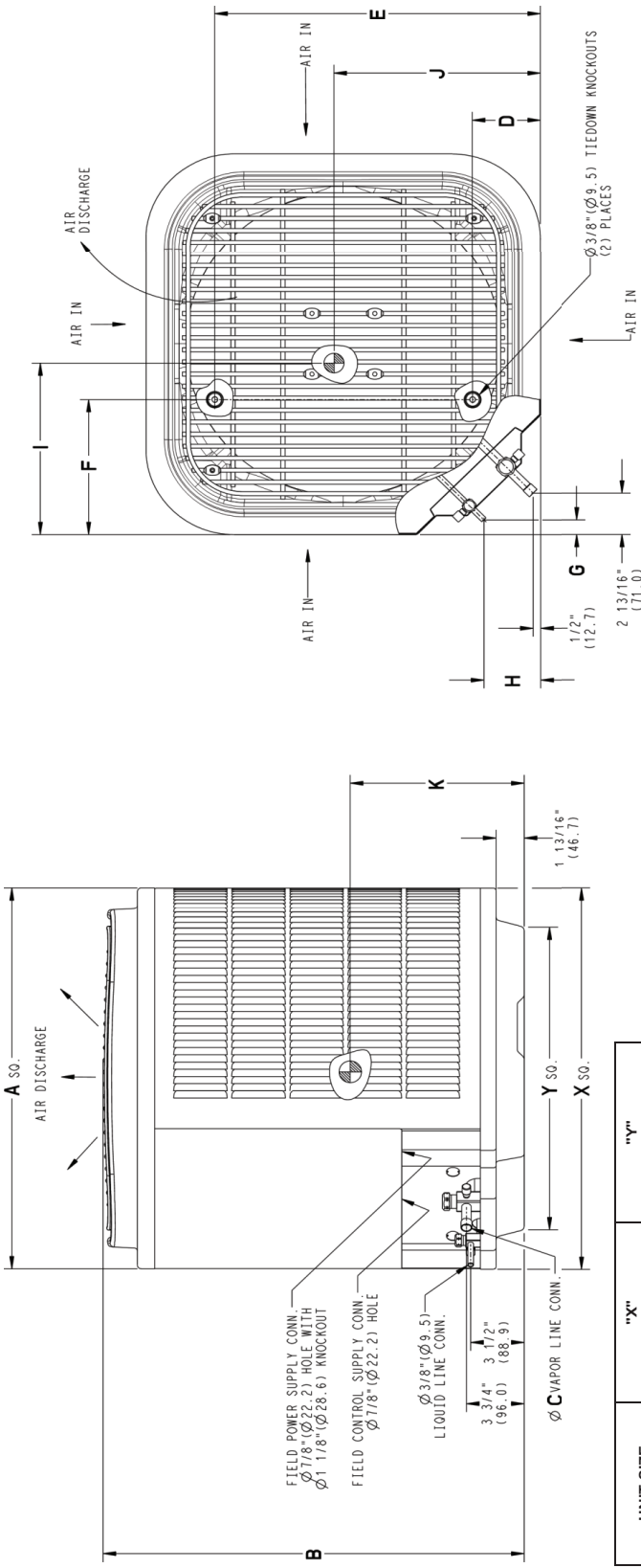
| UNIT | SERIES | ELECTRICAL CHARACTERISTICS | | A | | B | | C | | D | | E | | G | | H | | J | | K | | OPERATING | | SHIPPING | | SHIPPING LENGTH / WIDTH (Sq.) | | SHIPPING HEIGHT | | | | | |
|------------------|--------|----------------------------|----|------|----|-------|----------|--------|-----|------|--------|-------|---------|-------|-------|-------|------|------|------|--------|-------|-----------|-------|----------|-------|-------------------------------|-------|-----------------|-------|---------|-------|---------|--------|
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | Lbs | Kgs | Lbs | Kgs | INCH | MM | INCH | MM | | | | |
| 180CNV02400DEAAA | A | Y | N | N | 35 | 889.0 | 43 13/16 | 1122.6 | 7/8 | 22.2 | 6 9/16 | 166.1 | 28 7/16 | 722.8 | 9 1/8 | 231.3 | 5/16 | 7.9 | 76.2 | 16 1/4 | 412.8 | 16 1/4 | 412.8 | 21 1/4 | 539.8 | 324 | 147.0 | 367 | 166.5 | 137 1/8 | 943.1 | 50 3/16 | 1274.9 |
| 180CNV03600DEAAA | A | Y | N | N | 35 | 889.0 | 43 13/16 | 1122.6 | 7/8 | 22.2 | 6 9/16 | 166.1 | 28 7/16 | 722.8 | 9 1/8 | 231.3 | 5/16 | 7.9 | 76.2 | 16 1/4 | 412.8 | 16 1/4 | 412.8 | 21 1/4 | 539.8 | 324 | 147.0 | 367 | 166.5 | 137 1/8 | 943.1 | 50 3/16 | 1274.9 |
| 180CNV04600DEAAA | A | Y | N | N | 35 | 889.0 | 43 13/16 | 1122.6 | 7/8 | 22.2 | 6 9/16 | 166.1 | 28 7/16 | 722.8 | 9 1/8 | 231.3 | 5/16 | 7.9 | 76.2 | 16 1/4 | 412.8 | 16 1/4 | 412.8 | 21 1/4 | 539.8 | 324 | 147.0 | 367 | 166.5 | 137 1/8 | 943.1 | 50 3/16 | 1274.9 |
| 180CNV06000DEAAA | A | Y | N | N | 35 | 889.0 | 43 13/16 | 1122.6 | 7/8 | 22.2 | 6 9/16 | 166.1 | 28 7/16 | 722.8 | 9 1/8 | 231.3 | 5/16 | 7.9 | 76.2 | 16 1/4 | 412.8 | 16 1/4 | 412.8 | 21 1/4 | 539.8 | 324 | 147.0 | 367 | 166.5 | 137 1/8 | 943.1 | 50 3/16 | 1274.9 |

NOTES:

- ALLOW 24" (609.6) CLEARANCE TO SERVICE SIDE OF UNIT, 48" (1219.2) ABOVE UNIT, 6" (152.4) ON ONE SIDE, 12" (304.8) ON REMAINING SIDE, AND 24" (609.6) BETWEEN UNITS FOR PROPER AIRFLOW.
- CENTER OF GRAVITY
- SERIES DESIGNATION IS THE 14TH POSITION OF THE UNIT MODEL NUMBER.

Y=YES
N=NO

| | |
|--------------|--------------|
| 208-230-1-60 | 575-3-60 |
| 208-230-3-60 | 460-3-60 |
| 208-230-3-60 | 208-230-3-60 |

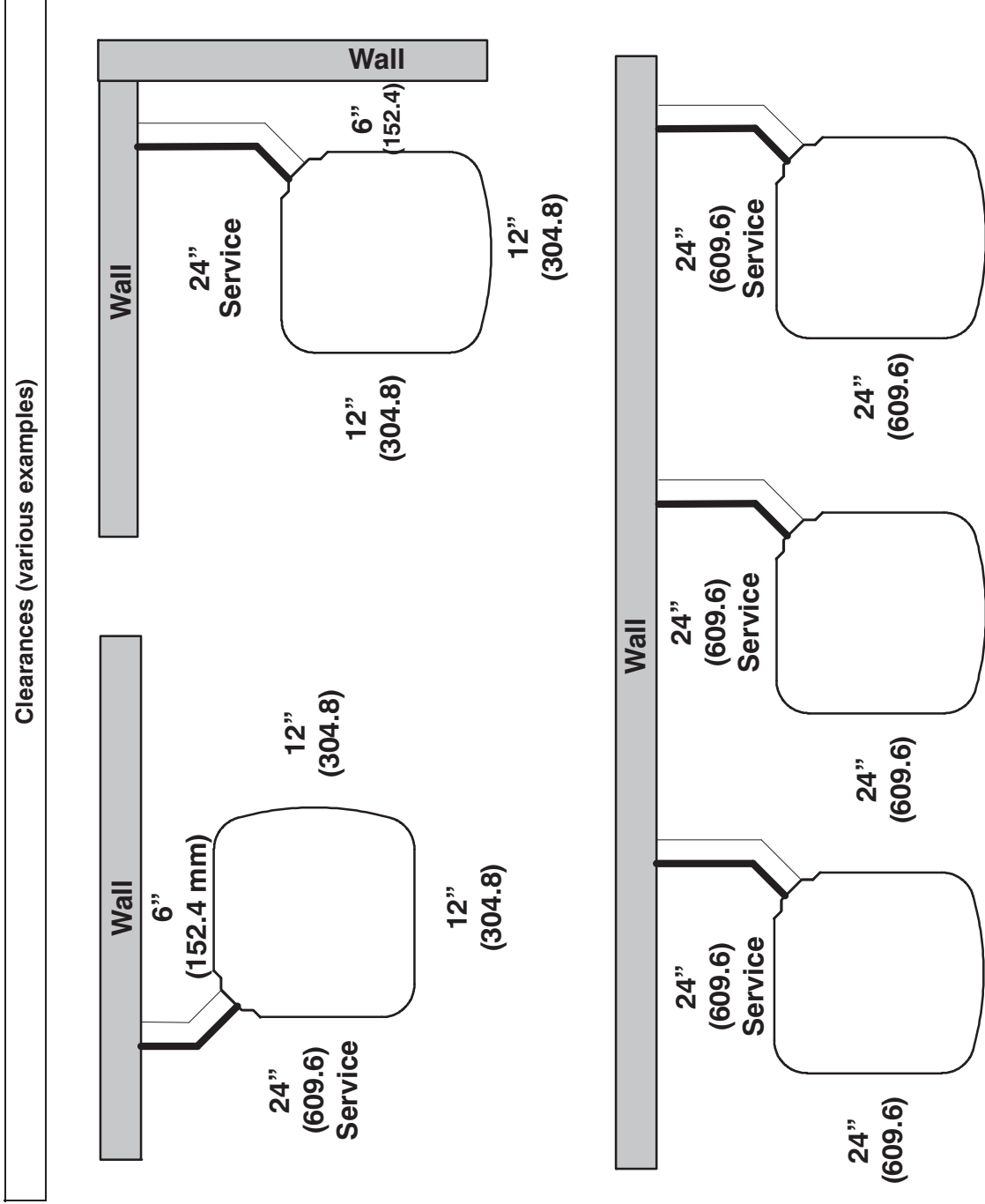


NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

| UNIT SIZE | "X" | | "Y" | |
|-------------|--|--|--|--|
| | MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS | MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS | MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS | MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS |
| - | 23 1/8 | 587.3 | 17 7/8 | 454.6 |
| - | 25 3/4 | 654.0 | 20 7/16 | 518.5 |
| - | 31 3/16 | 792.5 | 22 15/16 | 583.2 |
| 24,36,48,60 | 35 | 889.0 | 26 3/4 | 679.7 |

CLEARANCES



Note: Numbers in () = mm

IMPORTANT: When installing multiple units in an alcove, roof well, or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

TESTED AHRI TESTED COMBINATION RATINGS*

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory www.ahridirectory.org
 Additional ratings and system combinations can be accessed via the Bryant database at: http://cactaxcredits.info/bryant-ratings/hp_ratings_sreh.php
 Equipment performance calculator can be accessed at: <http://rpmobbry.wrightsoft.com/>

| Model Number | Coil Model Number | Furnace Model Number | Cig. Cap. High | Cig. Cap. Low | EER | SEER | ID CFM | |
|----------------|-------------------|----------------------|----------------|---------------|------|------|--------|------|
| | | | | | | | High | Low |
| 180CNV024****A | CAP**3617AL | 315(A,J)AV036070 | 24,000 | 16,100 | 14.5 | 18.0 | 900 | 650 |
| 180CNV036****A | CAP**3617AL | 315(A,J)AV036070 | 33,000 | 16,100 | 12.5 | 18.0 | 1200 | 875 |
| 180CNV048****A | CAP**6124AL | 315(A,J)AV060110 | 47,500 | 30,400 | 13.0 | 18.0 | 1500 | 1100 |
| 180CNV060****A | CAP**6124AL | 315(A,J)AV060110 | 55,500 | 30,400 | 13.0 | 18.0 | 1500 | 1100 |

* Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included. Ratings are based on:

Cooling Standard: 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.

EER — Energy Efficiency Ratio

SEER — Seasonal Energy Efficiency Ratio

UI — User Interface

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

180CNV024/CAP**3617AL+315(A-J)AV036070 Comfort + Dehumidify Mode
Condenser Entering Air Temperature °F (°C)

| EDB °F (°C) | EVAP. AIR EWB °F (°C) | 125 (51.7) | | | 115 (46.1) | | | 105 (40.5) | | | 95 (35) | | |
|-----------------------|-----------------------------|------------|-----------------|-------|------------|-----------------|-------|------------|-----------------|-------|------------|-----------------|-------|
| | | ID SCFM | Capacity MBtuht | | ID SCFM | Capacity MBtuht | | ID SCFM | Capacity MBtuht | | ID SCFM | Capacity MBtuht | |
| | | | Total | Sens† | | Total | Sens† | | Total | Sens† | | Total | Sens† |
| 75 (23.9) | 72 (22.2) | 520 | 22.52 | 9.09 | 510 | 23.63 | 9.52 | 500 | 24.37 | 9.80 | 490 | 25.00 | 10.15 |
| | 67 (19.4) | | 20.21 | 11.61 | | 21.22 | 12.04 | | 21.92 | 12.28 | | 22.57 | 12.52 |
| | 63 (17.2) | | 18.48 | 13.64 | | 19.54 | 14.04 | | 20.15 | 14.22 | | 20.78 | 14.43 |
| | 57 (13.9) | | 16.80 | 15.94 | | 17.33 | 16.93 | | 17.95 | 17.13 | | 19.68 | 13.39 |
| 80 (26.7) | 72 (22.2) | 520 | 22.47 | 11.94 | 510 | 23.57 | 12.14 | 500 | 24.33 | 12.37 | 490 | 25.03 | 12.60 |
| | 67 (19.4) | | 20.15 | 14.27 | | 21.17 | 14.57 | | 21.88 | 14.81 | | 22.53 | 15.00 |
| | 63 (17.2) | | 18.48 | 16.23 | | 19.48 | 16.57 | | 20.15 | 16.74 | | 20.78 | 16.90 |
| | 57 (13.9) | | 17.58 | 17.58 | | 18.27 | 18.27 | | 18.72 | 18.72 | | 19.12 | 19.12 |
| MAXIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 510 | 21.82 | 8.81 | 480 | 22.04 | 8.88 | 420 | 20.74 | 8.35 | 395 | 19.55 | 7.87 |
| | 67 (19.4) | | 19.62 | 11.30 | | 19.78 | 11.21 | | 18.64 | 10.39 | | 17.59 | 9.80 |
| | 63 (17.2) | | 17.91 | 13.20 | | 18.15 | 13.02 | | 17.12 | 12.00 | | 16.11 | 11.40 |
| | 57 (13.9) | | 16.00 | 16.00 | | 16.09 | 15.73 | | 15.21 | 14.40 | | 14.39 | 13.59 |
| 80 (26.7) | 72 (22.2) | 510 | 21.78 | 11.39 | 480 | 21.99 | 11.30 | 420 | 20.70 | 10.47 | 395 | 19.51 | 9.87 |
| | 67 (19.4) | | 19.51 | 13.81 | | 19.74 | 13.61 | | 18.62 | 12.50 | | 17.55 | 11.78 |
| | 63 (17.2) | | 20.71 | 10.41 | | 18.11 | 13.80 | | 17.11 | 14.09 | | 16.17 | 13.29 |
| | 57 (13.9) | | 17.07 | 17.07 | | 16.97 | 16.97 | | 15.80 | 15.80 | | 14.93 | 14.93 |
| MINIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 505 | 21.35 | 8.62 | 445 | 20.59 | 8.30 | 360 | 17.52 | 7.06 | 300 | 14.19 | 5.72 |
| | 67 (19.4) | | 19.11 | 11.08 | | 18.48 | 10.43 | | 15.74 | 8.79 | | 12.74 | 7.17 |
| | 63 (17.2) | | 17.52 | 12.93 | | 16.95 | 12.12 | | 14.44 | 10.15 | | 11.70 | 8.30 |
| | 57 (13.9) | | 15.64 | 15.64 | | 15.05 | 14.61 | | 12.81 | 12.19 | | 10.38 | 10.01 |
| 80 (26.7) | 72 (22.2) | 505 | 21.32 | 11.15 | 445 | 20.56 | 10.52 | 360 | 17.52 | 8.81 | 300 | 14.16 | 7.22 |
| | 67 (19.4) | | 19.09 | 13.53 | | 18.45 | 12.65 | | 15.70 | 10.58 | | 12.71 | 8.66 |
| | 63 (17.2) | | 17.54 | 15.41 | | 16.95 | 14.30 | | 14.44 | 11.93 | | 11.69 | 9.79 |
| | 57 (13.9) | | 16.70 | 16.70 | | 15.79 | 15.79 | | 13.34 | 13.34 | | 10.87 | 10.87 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE (CONT.)

180CNV024/CAP**3617AL+315(A-J)AV036070 Comfort + Dehumidify Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP AIR EWB ° F (° C) | 85 (29.4) | | | | 75 (23.9) | | | | 65 (18.3) | | | |
|-----------------------|------------------------------|------------|-----------------|-------|--------------------|------------|-----------------|-------|--------------------|------------|-----------------|-------|--------------------|
| | | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** |
| | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | |
| 75 (23.9) | 72 (22.2) | 510 | 26.37 | 10.61 | 1.33 | 530 | 27.63 | 11.10 | 1.10 | 540 | 28.76 | 11.57 | 0.87 |
| | 67 (19.4) | | 23.77 | 13.21 | 1.38 | | 24.95 | 13.76 | 1.15 | | 25.96 | 14.35 | 0.92 |
| | 63 (17.2) | | 21.97 | 15.17 | 1.42 | | 23.04 | 15.85 | 1.18 | | 24.04 | 16.45 | 0.96 |
| | 57 (13.9) | | 19.60 | 18.16 | 1.48 | | 20.60 | 18.98 | 1.24 | | 21.50 | 19.61 | 1.01 |
| | 72 (22.2) | | 26.34 | 13.23 | 1.33 | | 27.60 | 13.83 | 1.09 | | 28.72 | 14.36 | 0.87 |
| 80 (26.7) | 67 (19.4) | 510 | 23.76 | 15.74 | 1.38 | 530 | 24.92 | 16.44 | 1.14 | 540 | 25.96 | 17.01 | 0.92 |
| | 63 (17.2) | | 21.96 | 17.74 | 1.42 | | 23.04 | 18.53 | 1.18 | | 24.03 | 19.15 | 0.96 |
| | 57 (13.9) | | 20.16 | 20.16 | 1.46 | | 21.14 | 21.14 | 1.22 | | 21.96 | 21.96 | 1.00 |
| MEDIAN DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 415 | 20.66 | 8.32 | 1.02 | 435 | 21.73 | 8.75 | 0.83 | 450 | 22.70 | 9.14 | 0.65 |
| | 67 (19.4) | | 18.61 | 10.36 | 1.07 | | 19.60 | 10.89 | 0.87 | | 20.49 | 11.36 | 0.70 |
| | 63 (17.2) | | 17.14 | 11.96 | 1.11 | | 18.06 | 12.57 | 0.91 | | 18.91 | 13.11 | 0.73 |
| | 57 (13.9) | | 15.29 | 14.36 | 1.16 | | 16.14 | 15.11 | 0.96 | | 16.92 | 15.74 | 0.78 |
| | 72 (22.2) | | 20.65 | 10.37 | 1.02 | | 21.69 | 10.94 | 0.83 | | 22.66 | 11.41 | 0.65 |
| 80 (26.7) | 67 (19.4) | 415 | 18.58 | 12.43 | 1.07 | 435 | 19.56 | 13.06 | 0.87 | 450 | 20.45 | 13.61 | 0.70 |
| | 63 (17.2) | | 17.13 | 14.02 | 1.11 | | 18.06 | 14.74 | 0.91 | | 18.91 | 15.35 | 0.73 |
| | 57 (13.9) | | 15.81 | 15.81 | 1.14 | | 16.67 | 16.67 | 0.94 | | 17.42 | 17.42 | 0.77 |
| MINIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 320 | 15.08 | 6.08 | 0.81 | 340 | 15.94 | 6.42 | 0.65 | 355 | 16.71 | 6.74 | 0.50 |
| | 67 (19.4) | | 13.57 | 7.63 | 0.85 | | 14.36 | 8.08 | 0.69 | | 15.07 | 8.47 | 0.55 |
| | 63 (17.2) | | 12.47 | 8.86 | 0.88 | | 13.21 | 9.39 | 0.72 | | 13.88 | 9.84 | 0.58 |
| | 57 (13.9) | | 11.10 | 10.69 | 0.93 | | 11.79 | 11.35 | 0.76 | | 13.10 | 10.65 | 0.60 |
| | 72 (22.2) | | 15.05 | 7.68 | 0.81 | | 15.90 | 8.12 | 0.65 | | 16.68 | 8.51 | 0.50 |
| 80 (26.7) | 67 (19.4) | 320 | 13.54 | 9.22 | 0.85 | 340 | 14.32 | 9.77 | 0.69 | 355 | 15.04 | 10.23 | 0.55 |
| | 63 (17.2) | | 12.46 | 10.44 | 0.88 | | 13.21 | 11.08 | 0.72 | | 13.88 | 11.60 | 0.58 |
| | 57 (13.9) | | 11.61 | 11.61 | 0.91 | | 12.32 | 12.32 | 0.75 | | 12.94 | 12.94 | 0.60 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE (CONT.)

| 180CNV036/CAP**3617AL+315(A-J)/AV036070 Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C) | | | | | | | | | | | | | | | | | |
|---|-----------------------------|---------|-----------------------------------|-----------------------|---------|-----------------------------------|-----------------------|---------|-----------------------------------|-----------------------|---------|-----------------------------------|-----------------------|-----|-------|-------|------|
| EDB °F (°C) | EVAP. AIR EWB °F (°C) | 125 | | | 115 | | | 105 | | | 95 | | | | | | |
| | | ID SCFM | Capacity MBtuht Total Sens† | Total Sys. KW** | ID SCFM | Capacity MBtuht Total Sens† | Total Sys. KW** | ID SCFM | Capacity MBtuht Total Sens† | Total Sys. KW** | ID SCFM | Capacity MBtuht Total Sens† | Total Sys. KW** | | | | |
| MAXIMUM DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 685 | 29.28 | 11.77 | 3.82 | 705 | 31.29 | 12.55 | 3.29 | 730 | 33.23 | 13.32 | 2.82 | 750 | 34.98 | 14.00 | 2.43 |
| | 67 (19.4) | | 26.25 | 15.09 | 3.88 | | 28.00 | 15.91 | 3.35 | | 29.90 | 16.88 | 2.87 | | 31.53 | 17.67 | 2.48 |
| | 63 (17.2) | | 24.06 | 17.67 | 3.92 | | 25.82 | 18.86 | 3.40 | | 27.52 | 19.66 | 2.91 | | 29.22 | 20.67 | 2.51 |
| | 57 (13.9) | | 21.49 | 21.49 | 3.97 | | 23.06 | 22.80 | 3.45 | | 24.64 | 23.84 | 2.97 | | 26.06 | 24.89 | 2.57 |
| 80 (26.7) | 72 (22.2) | 685 | 29.24 | 15.24 | 3.82 | 705 | 31.25 | 16.10 | 3.29 | 730 | 33.18 | 17.00 | 2.82 | 750 | 34.95 | 17.79 | 2.43 |
| | 67 (19.4) | | 26.20 | 18.49 | 3.88 | | 28.07 | 19.49 | 3.36 | | 29.86 | 20.47 | 2.87 | | 31.48 | 21.38 | 2.48 |
| | 63 (17.2) | | 24.11 | 21.07 | 3.92 | | 25.86 | 22.17 | 3.39 | | 27.54 | 23.28 | 2.91 | | 29.09 | 24.26 | 2.51 |
| | 57 (13.9) | | 22.90 | 22.90 | 3.96 | | 24.36 | 24.36 | 3.42 | | 25.88 | 25.88 | 2.94 | | 27.21 | 27.21 | 2.55 |
| MEDIAN DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 595 | 25.69 | 10.35 | 3.37 | 580 | 26.45 | 10.63 | 2.77 | 535 | 25.79 | 10.36 | 2.12 | 480 | 24.68 | 9.92 | 1.62 |
| | 67 (19.4) | | 23.07 | 13.28 | 3.44 | | 23.76 | 13.49 | 2.82 | | 23.20 | 13.01 | 2.18 | | 22.22 | 12.31 | 1.67 |
| | 63 (17.2) | | 21.13 | 15.57 | 3.48 | | 21.82 | 15.72 | 2.87 | | 21.33 | 15.09 | 2.22 | | 20.46 | 14.18 | 1.71 |
| | 57 (13.9) | | 18.88 | 18.88 | 3.53 | | 19.46 | 19.06 | 2.93 | | 19.02 | 18.21 | 2.28 | | 18.23 | 16.99 | 1.76 |
| 80 (26.7) | 72 (22.2) | 595 | 25.68 | 13.40 | 3.37 | 580 | 26.40 | 13.60 | 2.76 | 535 | 25.75 | 13.11 | 2.12 | 480 | 24.64 | 12.38 | 1.62 |
| | 67 (19.4) | | 22.99 | 16.28 | 3.49 | | 23.72 | 16.41 | 2.82 | | 23.16 | 15.72 | 2.18 | | 22.14 | 14.82 | 1.67 |
| | 63 (17.2) | | 21.16 | 18.55 | 3.48 | | 23.96 | 11.06 | 2.78 | | 21.33 | 17.79 | 2.22 | | 20.47 | 16.59 | 1.71 |
| | 57 (13.9) | | 20.07 | 20.07 | 3.50 | | 20.50 | 20.50 | 2.90 | | 19.87 | 19.87 | 2.26 | | 18.81 | 18.81 | 1.75 |
| MINIMUM DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 505 | 21.35 | 8.62 | 3.17 | 445 | 20.59 | 8.30 | 2.44 | 360 | 17.52 | 7.06 | 1.61 | 300 | 14.19 | 5.72 | 0.99 |
| | 67 (19.4) | | 19.11 | 11.08 | 3.23 | | 18.48 | 10.43 | 2.49 | | 15.74 | 8.79 | 1.66 | | 12.74 | 7.17 | 1.03 |
| | 63 (17.2) | | 17.52 | 12.93 | 3.28 | | 16.95 | 12.12 | 2.55 | | 14.44 | 10.15 | 1.70 | | 11.70 | 8.30 | 1.06 |
| | 57 (13.9) | | 15.64 | 15.64 | 3.33 | | 15.05 | 14.61 | 2.60 | | 12.81 | 12.19 | 1.75 | | 10.38 | 10.01 | 1.11 |
| 80 (26.7) | 72 (22.2) | 505 | 21.32 | 11.15 | 3.17 | 445 | 20.56 | 10.52 | 2.44 | 360 | 17.52 | 8.81 | 1.61 | 300 | 14.16 | 7.22 | 0.99 |
| | 67 (19.4) | | 19.09 | 13.53 | 3.23 | | 18.45 | 12.85 | 2.50 | | 15.70 | 10.58 | 1.66 | | 12.71 | 8.66 | 1.03 |
| | 63 (17.2) | | 17.54 | 15.41 | 3.28 | | 16.95 | 14.30 | 2.55 | | 14.44 | 11.93 | 1.70 | | 11.69 | 9.79 | 1.06 |
| | 57 (13.9) | | 16.70 | 16.70 | 3.31 | | 15.79 | 15.79 | 2.58 | | 13.34 | 13.34 | 1.73 | | 10.87 | 10.87 | 1.09 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE (CONT.)

180CNV036/CAP**3617AL+315(A,J)AV036070 Expanded Ratings Cooling Comfort + Dehumidify Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP. AIR EWB ° F (° C) | 85 (29.4) | | | | 75 (23.9) | | | | 65 (18.3) | | | |
|-----------------------|-------------------------------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|---------|
| | | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM |
| | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | | |
| 75 (23.9) | 72 (22.2) | 36.98 | 14.78 | 2.07 | 805 | 38.83 | 15.51 | 1.76 | 885 | 40.44 | 16.13 | 1.49 | |
| | 67 (19.4) | 33.36 | 18.72 | 2.12 | | 35.09 | 19.71 | 1.81 | | 36.58 | 20.48 | 1.53 | |
| | 63 (17.2) | 30.81 | 21.81 | 2.16 | | 32.41 | 22.96 | 1.85 | | 33.79 | 23.86 | 1.57 | |
| | 57 (13.9) | 27.66 | 26.44 | 2.21 | | 30.91 | 22.57 | 1.86 | | 30.47 | 28.95 | 1.62 | |
| | 72 (22.2) | 36.93 | 18.81 | 2.07 | | 38.80 | 19.79 | 1.76 | | 40.39 | 20.52 | 1.49 | |
| 80 (26.7) | 67 (19.4) | 33.31 | 22.67 | 2.12 | 805 | 35.02 | 23.85 | 1.81 | 885 | 36.52 | 24.77 | 1.53 | |
| | 63 (17.2) | 30.84 | 25.78 | 2.16 | | 32.45 | 27.16 | 1.85 | | 33.89 | 28.25 | 1.57 | |
| | 57 (13.9) | 28.91 | 28.91 | 2.19 | | 30.48 | 30.48 | 1.88 | | 31.83 | 31.83 | 1.60 | |
| MEDIAN DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 26.01 | 10.45 | 1.35 | 500 | 27.27 | 10.96 | 1.10 | 520 | 28.43 | 11.42 | 0.88 | |
| | 67 (19.4) | 23.44 | 12.95 | 1.40 | | 24.61 | 13.57 | 1.15 | | 25.67 | 14.11 | 0.93 | |
| | 63 (17.2) | 21.62 | 14.92 | 1.43 | | 22.72 | 15.62 | 1.19 | | 23.73 | 16.23 | 0.97 | |
| | 57 (13.9) | 19.30 | 17.86 | 1.49 | | 20.31 | 18.69 | 1.24 | | 21.23 | 19.40 | 1.02 | |
| | 72 (22.2) | 25.96 | 13.02 | 1.34 | | 27.23 | 13.63 | 1.10 | | 28.38 | 14.17 | 0.88 | |
| 80 (26.7) | 67 (19.4) | 23.41 | 15.48 | 1.40 | 500 | 24.57 | 16.20 | 1.15 | 520 | 25.64 | 16.82 | 0.93 | |
| | 63 (17.2) | 21.62 | 17.45 | 1.43 | | 22.72 | 18.25 | 1.19 | | 23.72 | 18.94 | 0.97 | |
| | 57 (13.9) | 19.84 | 19.84 | 1.48 | | 20.83 | 20.83 | 1.23 | | 21.70 | 21.70 | 1.01 | |
| MINIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 15.08 | 6.08 | 0.81 | 320 | 15.94 | 6.42 | 0.65 | 355 | 16.71 | 6.74 | 0.50 | |
| | 67 (19.4) | 13.57 | 7.63 | 0.85 | | 14.36 | 8.08 | 0.69 | | 15.07 | 8.47 | 0.55 | |
| | 63 (17.2) | 12.47 | 8.86 | 0.88 | | 13.21 | 9.39 | 0.72 | | 13.88 | 9.84 | 0.58 | |
| | 57 (13.9) | 11.10 | 10.69 | 0.93 | | 11.79 | 11.35 | 0.76 | | 13.10 | 10.65 | 0.60 | |
| | 72 (22.2) | 15.05 | 7.68 | 0.81 | | 15.90 | 8.12 | 0.65 | | 16.68 | 8.51 | 0.50 | |
| 80 (26.7) | 67 (19.4) | 13.54 | 9.22 | 0.85 | 320 | 14.32 | 9.77 | 0.69 | 355 | 15.04 | 10.23 | 0.55 | |
| | 63 (17.2) | 12.46 | 10.44 | 0.88 | | 13.21 | 11.08 | 0.72 | | 13.88 | 11.60 | 0.58 | |
| | 57 (13.9) | 11.61 | 11.61 | 0.91 | | 12.32 | 12.32 | 0.75 | | 12.94 | 12.94 | 0.60 | |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE (CONT.)

180CNV048/CAP**6124AL+315(A,J)AV060110 Expanded Ratings Cooling Comfort with Dehumidify Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP. AIR EWB ° F (° C) | 125 | | | 115 | | | 105 | | | 95 | | | |
|-----------------------|-------------------------------|---------|-----------------|-------|---------|--------------------|-------|---------|-----------------|--------------------|---------|-----------------|-------|--------------------|
| | | ID SCFM | Capacity MBtu/h | | ID SCFM | Capacity MBtu/h | | ID SCFM | Capacity MBtu/h | | ID SCFM | Capacity MBtu/h | | |
| | | | Total | Sens† | | Total Sys. KW** | Total | | Sens† | Total Sys. KW** | | Total | Sens† | Total Sys. KW** |
| MAXIMUM DEMAND | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 790 | 41.50 | 16.59 | 4.64 | 44.64 | 17.83 | 4.15 | 47.72 | 19.05 | 3.69 | 50.57 | 20.18 | 3.30 |
| | 67 (19.4) | | 37.50 | 20.69 | 4.64 | 40.29 | 22.34 | 4.14 | 43.17 | 23.74 | 3.68 | 45.76 | 25.03 | 3.28 |
| | 63 (17.2) | | 34.54 | 23.89 | 4.63 | 37.22 | 25.64 | 4.14 | 39.83 | 27.42 | 3.67 | 42.31 | 28.94 | 3.27 |
| | 57 (13.9) | | 30.62 | 28.62 | 4.63 | 33.07 | 30.69 | 4.13 | 35.47 | 32.87 | 3.67 | 39.45 | 28.03 | 3.27 |
| | 72 (22.2) | | 41.43 | 20.75 | 4.64 | 44.55 | 22.25 | 4.15 | 47.62 | 23.78 | 3.69 | 50.28 | 25.44 | 3.30 |
| 80 (26.7) | 67 (19.4) | 790 | 37.41 | 24.81 | 4.64 | 40.25 | 26.65 | 4.14 | 43.02 | 28.48 | 3.68 | 45.66 | 30.08 | 3.28 |
| | 63 (17.2) | | 34.47 | 28.05 | 4.64 | 37.07 | 30.12 | 4.14 | 39.73 | 32.08 | 3.67 | 42.18 | 33.98 | 3.27 |
| | 57 (13.9) | | 31.54 | 31.54 | 4.64 | 33.86 | 33.86 | 4.13 | 36.31 | 36.30 | 3.67 | 38.49 | 38.49 | 3.27 |
| MEDIAN DEMAND | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 775 | 40.90 | 16.35 | 4.46 | 42.20 | 16.87 | 3.80 | 40.83 | 16.32 | 3.03 | 39.44 | 15.77 | 2.40 |
| | 67 (19.4) | | 36.95 | 20.39 | 4.46 | 38.16 | 21.00 | 3.80 | 36.91 | 20.38 | 3.03 | 35.55 | 19.86 | 2.39 |
| | 63 (17.2) | | 33.95 | 23.71 | 4.46 | 35.13 | 24.31 | 3.80 | 34.02 | 23.59 | 3.03 | 32.87 | 22.82 | 2.39 |
| | 57 (13.9) | | 30.18 | 28.23 | 4.45 | 32.88 | 24.36 | 3.79 | 30.33 | 28.34 | 3.03 | 29.29 | 27.45 | 2.39 |
| | 72 (22.2) | | 40.83 | 20.45 | 4.46 | 42.13 | 21.08 | 3.80 | 40.72 | 20.43 | 3.03 | 39.33 | 19.71 | 2.39 |
| 80 (26.7) | 67 (19.4) | 775 | 36.88 | 24.45 | 4.46 | 38.05 | 25.18 | 3.80 | 36.80 | 24.49 | 3.03 | 35.56 | 23.67 | 2.39 |
| | 63 (17.2) | | 33.98 | 27.61 | 4.46 | 36.96 | 18.84 | 3.78 | 33.96 | 27.68 | 3.03 | 32.84 | 26.70 | 2.39 |
| | 57 (13.9) | | 31.07 | 31.07 | 4.47 | 32.05 | 32.05 | 3.80 | 31.12 | 31.12 | 3.03 | 30.09 | 30.09 | 2.39 |
| MINIMUM DEMAND | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 760 | 40.67 | 16.26 | 4.60 | 40.09 | 16.03 | 3.72 | 33.63 | 13.46 | 2.54 | 27.58 | 11.05 | 1.68 |
| | 67 (19.4) | | 36.68 | 20.26 | 4.60 | 36.20 | 19.99 | 3.72 | 30.38 | 16.82 | 2.54 | 24.93 | 13.88 | 1.68 |
| | 63 (17.2) | | 33.92 | 23.29 | 4.61 | 33.35 | 23.10 | 3.72 | 28.00 | 19.46 | 2.55 | 22.95 | 16.14 | 1.69 |
| | 57 (13.9) | | 29.98 | 28.07 | 4.60 | 29.64 | 27.73 | 3.73 | 24.86 | 23.37 | 2.55 | 20.39 | 19.42 | 1.69 |
| | 72 (22.2) | | 40.46 | 20.29 | 4.60 | 39.99 | 20.05 | 3.72 | 33.53 | 16.86 | 2.54 | 27.49 | 13.91 | 1.68 |
| 80 (26.7) | 67 (19.4) | 760 | 36.65 | 24.33 | 4.60 | 36.12 | 23.99 | 3.72 | 30.32 | 20.21 | 2.54 | 24.84 | 16.72 | 1.68 |
| | 63 (17.2) | | 33.75 | 27.45 | 4.60 | 33.28 | 27.08 | 3.72 | 27.93 | 22.83 | 2.55 | 22.88 | 19.00 | 1.69 |
| | 57 (13.9) | | 30.84 | 30.84 | 4.60 | 30.44 | 30.44 | 3.73 | 25.61 | 25.61 | 2.55 | 21.11 | 21.11 | 1.69 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE (CONT.)

180CNV048/CAP**6124AL+315(A,J)AV060110 Expanded Ratings Cooling Comfort with Dehumidify Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP. AIR EWB ° F (° C) | 85 (29.4) | | | 75 (23.9) | | | 65 (18.3) | | |
|-----------------------|-------------------------------|-----------|-----------------|-------|-----------|-----------------|-------|-----------|-----------------|-------|
| | | ID SCFM | Capacity MBtuht | | ID SCFM | Capacity MBtuht | | ID SCFM | Capacity MBtuht | |
| | | | Total | Sens† | | Total | Sens† | | Total | Sens† |
| 75 (23.9) | 72 (22.2) | 970 | 52.97 | 21.14 | 985 | 54.98 | 21.95 | 995 | 56.94 | 22.76 |
| | 67 (19.4) | | 47.91 | 26.21 | | 49.81 | 27.13 | | 51.58 | 27.97 |
| | 63 (17.2) | | 44.18 | 30.49 | | 46.09 | 31.23 | | 47.81 | 32.10 |
| | 57 (13.9) | | 39.51 | 36.09 | | 41.16 | 37.22 | | 42.71 | 38.21 |
| 80 (26.7) | 72 (22.2) | 970 | 52.83 | 26.22 | 985 | 54.87 | 27.13 | 995 | 56.84 | 27.99 |
| | 67 (19.4) | | 47.80 | 31.25 | | 49.90 | 32.05 | | 51.50 | 33.17 |
| | 63 (17.2) | | 44.21 | 35.22 | | 46.02 | 36.32 | | 47.65 | 37.40 |
| | 57 (13.9) | | 40.15 | 40.15 | | 41.63 | 41.63 | | 43.11 | 42.93 |
| MEDIAN DEMAND | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 790 | 41.57 | 16.61 | 790 | 43.06 | 17.22 | 805 | 44.72 | 17.89 |
| | 67 (19.4) | | 37.56 | 20.74 | | 38.99 | 21.38 | | 40.52 | 22.14 |
| | 63 (17.2) | | 34.67 | 24.00 | | 35.94 | 24.82 | | 37.47 | 25.48 |
| | 57 (13.9) | | 30.91 | 28.84 | | 33.70 | 23.32 | | 33.45 | 30.43 |
| 80 (26.7) | 72 (22.2) | 790 | 41.45 | 20.78 | 790 | 42.98 | 21.40 | 805 | 44.69 | 22.17 |
| | 67 (19.4) | | 37.45 | 24.95 | | 38.95 | 25.56 | | 40.45 | 26.36 |
| | 63 (17.2) | | 34.56 | 28.20 | | 35.90 | 28.87 | | 37.45 | 29.63 |
| | 57 (13.9) | | 31.71 | 31.70 | | 32.71 | 32.71 | | 33.89 | 33.89 |
| MINIMUM DEMAND | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 555 | 29.04 | 11.63 | 580 | 30.47 | 12.20 | 600 | 31.85 | 12.75 |
| | 67 (19.4) | | 26.24 | 14.57 | | 27.57 | 15.28 | | 28.81 | 15.94 |
| | 63 (17.2) | | 24.20 | 16.87 | | 25.42 | 17.72 | | 26.56 | 18.46 |
| | 57 (13.9) | | 21.54 | 20.34 | | 22.67 | 21.33 | | 23.71 | 22.20 |
| 80 (26.7) | 72 (22.2) | 555 | 28.95 | 14.60 | 580 | 30.43 | 15.32 | 600 | 31.76 | 15.96 |
| | 67 (19.4) | | 26.17 | 17.51 | | 27.57 | 18.23 | | 28.80 | 19.05 |
| | 63 (17.2) | | 24.14 | 19.83 | | 25.37 | 20.78 | | 26.52 | 21.63 |
| | 57 (13.9) | | 22.21 | 22.21 | | 23.33 | 23.33 | | 24.35 | 24.35 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE (CONT.)

180CNV060/CAP**6124AL+315(A,J)AV060110 Expanded Ratings Cooling Comfort + Dehumidify Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP. AIR EWB ° F (° C) | 125 | | | | 115 | | | | 105 | | | | 95 | | | |
|-----------------------|-------------------------------|---------|------------------|-------|--------------------|---------|------------------|-------|--------------------|---------|------------------|-------|--------------------|---------|------------------|-------|--------------------|
| | | ID SCFM | Capacity MBtu/ht | | Total Sys. KW** | ID SCFM | Capacity MBtu/ht | | Total Sys. KW** | ID SCFM | Capacity MBtu/ht | | Total Sys. KW** | ID SCFM | Capacity MBtu/ht | | Total Sys. KW** |
| | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | |
| MAXIMUM DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 945 | 48.54 | 19.36 | 5.48 | 1020 | 52.28 | 20.84 | 4.94 | 1095 | 55.87 | 22.22 | 4.47 | 1165 | 59.24 | 23.55 | 4.04 |
| | 67 (19.4) | | 43.80 | 24.19 | 5.46 | | 47.35 | 25.95 | 4.92 | | 50.51 | 27.88 | 4.44 | | 53.63 | 29.60 | 4.00 |
| | 63 (17.2) | | 40.39 | 28.00 | 5.44 | | 43.64 | 30.26 | 4.90 | | 46.65 | 32.32 | 4.42 | | 49.56 | 34.33 | 3.98 |
| | 57 (13.9) | | 35.89 | 33.64 | 5.42 | | 38.88 | 36.36 | 4.88 | | 41.61 | 38.90 | 4.40 | | 44.26 | 41.36 | 3.96 |
| 80 (26.7) | 72 (22.2) | 945 | 48.47 | 24.29 | 5.48 | 1020 | 52.18 | 26.15 | 4.94 | 1095 | 55.72 | 27.91 | 4.47 | 1165 | 59.13 | 29.62 | 4.03 |
| | 67 (19.4) | | 43.70 | 29.07 | 5.46 | | 47.17 | 31.39 | 4.92 | | 50.41 | 33.54 | 4.44 | | 53.50 | 35.60 | 4.00 |
| | 63 (17.2) | | 40.33 | 32.88 | 5.44 | | 43.58 | 35.48 | 4.90 | | 46.59 | 37.94 | 4.42 | | 49.49 | 40.31 | 3.98 |
| | 57 (13.9) | | 36.93 | 36.93 | 5.43 | | 39.95 | 39.95 | 4.88 | | 42.81 | 42.81 | 4.41 | | 45.52 | 45.52 | 3.97 |
| MEDIAN DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 850 | 44.71 | 17.86 | 4.88 | 870 | 46.24 | 18.46 | 4.21 | 850 | 45.39 | 18.13 | 3.41 | 835 | 44.05 | 17.60 | 2.74 |
| | 67 (19.4) | | 40.36 | 22.34 | 4.87 | | 41.80 | 23.05 | 4.20 | | 41.04 | 22.58 | 3.40 | | 39.83 | 21.97 | 2.73 |
| | 63 (17.2) | | 37.29 | 25.70 | 4.87 | | 38.52 | 26.60 | 4.19 | | 37.87 | 26.08 | 3.39 | | 36.77 | 25.42 | 2.72 |
| | 57 (13.9) | | 33.05 | 30.92 | 4.86 | | 34.24 | 31.85 | 4.19 | | 33.72 | 31.30 | 3.39 | | 32.77 | 30.56 | 2.72 |
| 80 (26.7) | 72 (22.2) | 850 | 44.55 | 22.32 | 4.88 | 870 | 46.13 | 23.06 | 4.21 | 850 | 45.29 | 22.62 | 3.41 | 835 | 43.94 | 22.01 | 2.74 |
| | 67 (19.4) | | 40.32 | 26.75 | 4.87 | | 41.71 | 27.59 | 4.20 | | 40.95 | 27.04 | 3.40 | | 39.74 | 26.36 | 2.73 |
| | 63 (17.2) | | 36.97 | 30.12 | 4.86 | | 38.48 | 31.14 | 4.19 | | 37.80 | 30.53 | 3.39 | | 36.69 | 29.78 | 2.72 |
| | 57 (13.9) | | 33.96 | 33.96 | 4.86 | | 35.15 | 35.15 | 4.19 | | 34.50 | 34.50 | 3.39 | | 33.61 | 33.61 | 2.72 |
| MINIMUM DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 760 | 40.67 | 16.26 | 4.60 | 750 | 40.09 | 16.03 | 3.72 | 635 | 33.63 | 13.46 | 2.54 | 535 | 27.58 | 11.05 | 1.68 |
| | 67 (19.4) | | 36.68 | 20.26 | 4.60 | | 36.20 | 19.99 | 3.72 | | 30.38 | 16.82 | 2.54 | | 24.93 | 13.88 | 1.68 |
| | 63 (17.2) | | 33.92 | 23.29 | 4.61 | | 33.35 | 23.10 | 3.72 | | 28.00 | 19.46 | 2.55 | | 22.95 | 16.14 | 1.69 |
| | 57 (13.9) | | 29.98 | 28.07 | 4.60 | | 29.64 | 27.73 | 3.73 | | 24.86 | 23.37 | 2.55 | | 20.39 | 19.42 | 1.69 |
| 80 (26.7) | 72 (22.2) | 760 | 40.46 | 20.29 | 4.60 | 750 | 38.99 | 20.05 | 3.72 | 635 | 33.53 | 16.86 | 2.54 | 535 | 27.49 | 13.91 | 1.68 |
| | 67 (19.4) | | 36.65 | 24.33 | 4.60 | | 36.12 | 23.99 | 3.72 | | 30.32 | 20.21 | 2.54 | | 24.84 | 16.72 | 1.68 |
| | 63 (17.2) | | 33.75 | 27.45 | 4.60 | | 33.28 | 27.08 | 3.72 | | 27.93 | 22.83 | 2.55 | | 22.88 | 19.00 | 1.69 |
| | 57 (13.9) | | 30.84 | 30.84 | 4.60 | | 30.44 | 30.44 | 3.73 | | 25.61 | 25.61 | 2.55 | | 21.11 | 21.11 | 1.69 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE (CONT.)

180CNV060/CAP**6124AL+315(A,J)AV060110 Expanded Ratings Cooling Comfort + Dehumidify Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP AIR EWB ° F (° C) | 85 | | | | 75 | | | | 65 | | | |
|-----------------------|------------------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|
| | | ID SCFM | Capacity MBtu/h | | Total Sys. KW** | ID SCFM | Capacity MBtu/h | | Total Sys. KW** | ID SCFM | Capacity MBtu/h | | Total Sys. KW** |
| | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | |
| MAXIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 1175 | 61.85 | 24.60 | 3.59 | 1175 | 64.03 | 25.50 | 3.23 | 1185 | 66.06 | 26.29 | 2.97 |
| | 67 (19.4) | | 55.93 | 30.67 | 3.55 | | 57.98 | 31.58 | 3.18 | | 59.93 | 32.48 | 2.91 |
| | 63 (17.2) | | 51.74 | 35.48 | 3.53 | | 53.69 | 36.43 | 3.15 | | 55.58 | 37.40 | 2.87 |
| | 57 (13.9) | | 46.25 | 42.58 | 3.50 | | 48.02 | 43.54 | 3.11 | | 49.72 | 44.59 | 2.81 |
| | 72 (22.2) | | 61.74 | 30.72 | 3.59 | | 63.93 | 31.62 | 3.22 | | 65.98 | 32.48 | 2.96 |
| 80 (26.7) | 67 (19.4) | 1175 | 55.86 | 36.73 | 3.55 | 1175 | 57.91 | 37.68 | 3.17 | 1185 | 59.86 | 38.63 | 2.90 |
| | 63 (17.2) | | 51.70 | 41.51 | 3.53 | | 53.65 | 42.46 | 3.14 | | 55.53 | 43.49 | 2.86 |
| | 57 (13.9) | | 47.24 | 47.24 | 3.50 | | 48.69 | 48.69 | 3.11 | | 50.13 | 50.13 | 2.82 |
| MEDIAN DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 855 | 46.17 | 18.45 | 2.42 | 870 | 48.07 | 19.21 | 2.13 | 895 | 50.03 | 20.00 | 1.88 |
| | 67 (19.4) | | 41.81 | 22.84 | 2.41 | | 43.51 | 23.78 | 2.12 | | 45.30 | 24.71 | 1.86 |
| | 63 (17.2) | | 38.58 | 26.47 | 2.41 | | 40.26 | 27.32 | 2.11 | | 41.91 | 28.44 | 1.84 |
| | 57 (13.9) | | 34.40 | 31.72 | 2.40 | | 35.89 | 32.74 | 2.10 | | 37.43 | 33.95 | 1.83 |
| | 72 (22.2) | | 46.06 | 22.97 | 2.42 | | 47.96 | 23.81 | 2.13 | | 49.92 | 24.73 | 1.88 |
| 80 (26.7) | 67 (19.4) | 855 | 41.67 | 27.42 | 2.41 | 870 | 43.42 | 28.35 | 2.12 | 895 | 45.21 | 29.41 | 1.86 |
| | 63 (17.2) | | 38.51 | 30.94 | 2.41 | | 40.03 | 32.14 | 2.11 | | 41.85 | 33.10 | 1.84 |
| | 57 (13.9) | | 35.10 | 35.10 | 2.40 | | 36.43 | 36.43 | 2.10 | | 37.87 | 37.87 | 1.83 |
| MINIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 555 | 29.04 | 11.63 | 1.47 | 580 | 30.47 | 12.20 | 1.28 | 600 | 31.85 | 12.75 | 1.10 |
| | 67 (19.4) | | 26.24 | 14.57 | 1.47 | | 27.57 | 15.28 | 1.27 | | 28.81 | 15.94 | 1.10 |
| | 63 (17.2) | | 24.20 | 16.87 | 1.47 | | 25.42 | 17.72 | 1.27 | | 26.56 | 18.46 | 1.10 |
| | 57 (13.9) | | 21.54 | 20.34 | 1.47 | | 22.67 | 21.33 | 1.28 | | 23.71 | 22.20 | 1.10 |
| | 72 (22.2) | | 28.95 | 14.60 | 1.47 | | 30.43 | 15.32 | 1.27 | | 31.76 | 15.96 | 1.10 |
| 80 (26.7) | 67 (19.4) | 555 | 26.17 | 17.51 | 1.47 | 580 | 27.57 | 18.23 | 1.27 | 600 | 28.80 | 19.05 | 1.10 |
| | 63 (17.2) | | 24.14 | 19.83 | 1.47 | | 25.37 | 20.78 | 1.27 | | 26.52 | 21.63 | 1.10 |
| | 57 (13.9) | | 22.21 | 22.21 | 1.47 | | 23.33 | 23.33 | 1.28 | | 24.35 | 24.35 | 1.10 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE

180CNV024/CAP**3617AL+315(A,J)AV036070 Cooling EFFICIENCY Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP. AIR EWB ° F (° C) | 125 | | | | 115 | | | | 105 | | | | 95 | | | |
|-----------------------|-------------------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|
| | | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** |
| | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | |
| MAXIMUM DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | | 23.70 | 9.48 | 2.90 | | 25.23 | 10.39 | 2.43 | | 26.41 | 10.88 | 2.00 | | 27.54 | 11.34 | 1.67 |
| | 67 (19.4) | 700 | 21.17 | 13.11 | 2.96 | | 22.65 | 14.15 | 2.49 | 840 | 23.76 | 14.97 | 2.05 | 900 | 24.81 | 15.72 | 1.72 |
| | 63 (17.2) | | 19.43 | 15.76 | 3.01 | | 20.87 | 17.18 | 2.53 | | 16.82 | 15.96 | 1.55 | | 22.91 | 19.09 | 1.76 |
| | 57 (13.9) | | 18.17 | 18.17 | 3.04 | | 19.63 | 19.63 | 2.56 | | 20.74 | 20.74 | 2.12 | | 21.76 | 20.76 | 1.78 |
| 80 (26.7) | 72 (22.2) | 700 | 23.50 | 13.20 | 2.90 | | 25.17 | 14.26 | 2.43 | 840 | 26.35 | 15.06 | 2.00 | 900 | 27.48 | 15.80 | 1.67 |
| | 67 (19.4) | | 21.19 | 16.50 | 2.95 | | 22.66 | 18.02 | 2.49 | | 23.77 | 19.13 | 2.05 | | 24.80 | 20.15 | 1.72 |
| | 63 (17.2) | | 20.36 | 15.36 | 2.89 | | 21.10 | 20.91 | 2.53 | | 22.77 | 20.69 | 2.07 | | 23.76 | 21.80 | 1.74 |
| | 57 (13.9) | | 19.52 | 19.52 | 3.01 | | 21.03 | 21.03 | 2.53 | | 22.18 | 22.18 | 2.09 | | 23.27 | 23.26 | 1.75 |
| MEDIAN DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | | 22.82 | 9.41 | 2.91 | | 23.64 | 9.75 | 2.34 | | 22.67 | 9.37 | 1.72 | | 21.38 | 8.87 | 1.25 |
| | 67 (19.4) | 695 | 20.56 | 12.78 | 2.97 | | 21.25 | 13.31 | 2.40 | 710 | 20.42 | 12.76 | 1.78 | 680 | 19.33 | 12.16 | 1.30 |
| | 63 (17.2) | | 18.86 | 15.40 | 3.01 | | 19.54 | 16.15 | 2.44 | | 18.80 | 15.49 | 1.82 | | 17.82 | 14.78 | 1.33 |
| | 57 (13.9) | | 17.67 | 17.67 | 3.04 | | 18.43 | 18.43 | 2.47 | | 17.72 | 17.72 | 1.84 | | 16.84 | 16.84 | 1.36 |
| 80 (26.7) | 72 (22.2) | 695 | 22.86 | 12.82 | 2.90 | | 23.59 | 13.43 | 2.34 | 710 | 22.63 | 12.88 | 1.72 | 680 | 21.42 | 12.21 | 1.25 |
| | 67 (19.4) | | 20.51 | 16.17 | 2.97 | | 21.21 | 16.98 | 2.40 | | 20.39 | 16.27 | 1.78 | | 19.32 | 15.50 | 1.29 |
| | 63 (17.2) | | 19.04 | 18.69 | 3.01 | | 19.79 | 19.65 | 2.43 | | 19.02 | 18.85 | 1.81 | | 18.05 | 17.97 | 1.32 |
| | 57 (13.9) | | 18.93 | 18.93 | 3.01 | | 19.72 | 19.72 | 2.43 | | 18.95 | 18.95 | 1.81 | | 18.00 | 18.00 | 1.33 |
| MINIMUM DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | | 22.30 | 9.22 | 3.18 | | 22.06 | 9.12 | 2.45 | | 19.16 | 7.93 | 1.60 | | 15.45 | 6.41 | 0.98 |
| | 67 (19.4) | 690 | 20.11 | 12.54 | 3.25 | | 19.94 | 12.52 | 2.51 | 595 | 17.23 | 10.80 | 1.65 | 480 | 13.88 | 8.73 | 1.02 |
| | 63 (17.2) | | 18.45 | 15.14 | 3.30 | | 18.33 | 15.20 | 2.56 | | 15.85 | 13.07 | 1.69 | | 12.77 | 10.59 | 1.05 |
| | 57 (13.9) | | 17.24 | 17.24 | 3.32 | | 17.29 | 17.29 | 2.59 | | 14.92 | 14.92 | 1.72 | | 12.04 | 12.04 | 1.07 |
| 80 (26.7) | 72 (22.2) | 690 | 22.41 | 12.59 | 3.17 | | 22.17 | 12.57 | 2.44 | 700 | 19.11 | 10.89 | 1.60 | 480 | 15.39 | 8.79 | 0.98 |
| | 67 (19.4) | | 20.10 | 15.90 | 3.24 | | 19.92 | 15.92 | 2.51 | | 17.21 | 13.71 | 1.65 | | 13.86 | 11.11 | 1.02 |
| | 63 (17.2) | | 19.80 | 14.96 | 3.25 | | 19.44 | 15.72 | 2.52 | | 16.02 | 15.89 | 1.68 | | 12.91 | 12.88 | 1.05 |
| | 57 (13.9) | | 18.54 | 18.54 | 3.29 | | 18.50 | 18.50 | 2.55 | | 15.94 | 15.94 | 1.71 | | 12.88 | 12.88 | 1.05 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE (CONT.)

| 180CNV024/CAP**3617AL+315(A,J)AV036070 Cooling EFFICIENCY Mode Condenser Entering Air Temperature ° F (° C) | | | | | | | | | | | | | | |
|--|------------------------------|-----------|--------------------------|-------|-----------|--------------------------|-------|-----------|--------------------------|-------|--------------------|---------|--------------------------|--------------------|
| EDB ° F (° C) | EVAP AIR EWB ° F (° C) | 85 (29.4) | | | 75 (23.9) | | | 65 (18.3) | | | Total Sys. KW** | ID SCFM | Capacity MBtu/h Total | Total Sys. KW** |
| | | ID SCFM | Capacity MBtu/h Total | Sens† | ID SCFM | Capacity MBtu/h Total | Sens† | ID SCFM | Capacity MBtu/h Total | Sens† | | | | |
| 75 (23.9) | 72 (22.2) | 28.81 | 11.77 | 1.39 | 30.27 | 12.36 | 1.17 | 31.64 | 12.90 | 0.98 | 1000 | 31.64 | 12.90 | 0.98 |
| | 67 (19.4) | 25.99 | 16.05 | 1.44 | 27.29 | 16.91 | 1.22 | 28.52 | 17.70 | 1.03 | | | | |
| | 63 (17.2) | 23.94 | 19.41 | 1.48 | 25.23 | 20.54 | 1.26 | 26.41 | 21.54 | 1.07 | | | | |
| | 57 (13.9) | 22.54 | 22.54 | 1.51 | 23.79 | 23.79 | 1.28 | 24.95 | 24.95 | 1.09 | | | | |
| 80 (26.7) | 72 (22.2) | 28.75 | 16.12 | 1.39 | 30.16 | 16.97 | 1.17 | 31.50 | 17.76 | 0.98 | 1000 | 31.50 | 17.76 | 0.98 |
| | 67 (19.4) | 25.97 | 20.36 | 1.44 | 27.31 | 21.53 | 1.22 | 28.56 | 22.56 | 1.03 | | | | |
| | 63 (17.2) | 26.13 | 17.86 | 1.43 | 27.63 | 18.28 | 1.21 | 28.97 | 18.81 | 1.02 | | | | |
| | 57 (13.9) | 24.04 | 24.03 | 1.47 | 25.37 | 25.37 | 1.25 | 26.61 | 26.61 | 1.06 | | | | |
| MEDIAN DEMAND | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 22.72 | 9.43 | 1.05 | 23.75 | 9.79 | 0.85 | 24.84 | 10.23 | 0.69 | 785 | 24.84 | 10.23 | 0.69 |
| | 67 (19.4) | 20.48 | 13.07 | 1.10 | 21.43 | 13.44 | 0.90 | 22.42 | 14.04 | 0.73 | | | | |
| | 63 (17.2) | 18.91 | 15.93 | 1.13 | 19.78 | 16.31 | 0.93 | 20.72 | 17.04 | 0.76 | | | | |
| | 57 (13.9) | 18.01 | 18.01 | 1.15 | 18.71 | 18.71 | 0.96 | 19.59 | 19.59 | 0.79 | | | | |
| 80 (26.7) | 72 (22.2) | 22.67 | 13.12 | 1.05 | 23.69 | 13.49 | 0.85 | 24.78 | 14.08 | 0.69 | 785 | 24.78 | 14.08 | 0.69 |
| | 67 (19.4) | 20.48 | 16.72 | 1.09 | 21.41 | 17.10 | 0.90 | 22.41 | 17.85 | 0.73 | | | | |
| | 63 (17.2) | 19.27 | 19.27 | 1.12 | 20.25 | 19.36 | 0.92 | 21.03 | 20.65 | 0.76 | | | | |
| | 57 (13.9) | 19.24 | 19.24 | 1.12 | 19.96 | 19.96 | 0.93 | 20.89 | 20.89 | 0.76 | | | | |
| MINIMUM DEMAND | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 16.53 | 6.93 | 0.81 | 17.55 | 7.44 | 0.66 | 18.27 | 7.71 | 0.52 | 640 | 18.27 | 7.71 | 0.52 |
| | 67 (19.4) | 14.88 | 9.65 | 0.85 | 15.77 | 10.75 | 0.70 | 16.60 | 11.15 | 0.57 | | | | |
| | 63 (17.2) | 13.73 | 11.81 | 0.88 | 14.65 | 13.08 | 0.73 | 15.39 | 13.77 | 0.60 | | | | |
| | 57 (13.9) | 13.14 | 13.14 | 0.90 | 14.21 | 14.21 | 0.74 | 14.94 | 14.94 | 0.61 | | | | |
| 80 (26.7) | 72 (22.2) | 16.48 | 9.70 | 0.80 | 17.50 | 10.65 | 0.66 | 18.34 | 11.19 | 0.53 | 640 | 18.34 | 11.19 | 0.53 |
| | 67 (19.4) | 14.88 | 12.40 | 0.85 | 15.85 | 13.75 | 0.70 | 16.63 | 14.48 | 0.57 | | | | |
| | 63 (17.2) | 14.09 | 14.09 | 0.87 | 15.23 | 15.23 | 0.71 | 16.02 | 16.02 | 0.58 | | | | |
| | 57 (13.9) | 14.06 | 14.06 | 0.87 | 15.21 | 15.21 | 0.71 | 15.99 | 15.99 | 0.58 | | | | |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE (CONT.)

180CNV036/CAP**3617AL+315(A,J)AV036070 Cooling EFFICIENCY Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP. AIR EWB ° F (° C) | 125 | | | | 115 | | | | 105 | | | | 95 | | | |
|-----------------------|-------------------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|
| | | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** |
| | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | |
| MAXIMUM DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 830 | 30.35 | 12.51 | 3.85 | 955 | 32.91 | 13.58 | 3.37 | 1080 | 35.16 | 14.53 | 2.97 | 1200 | 37.12 | 15.40 | 2.71 |
| | 67 (19.4) | | 27.22 | 16.91 | 3.91 | | 29.56 | 18.52 | 3.43 | | 31.63 | 19.76 | 3.03 | | 33.38 | 20.98 | 2.75 |
| | 63 (17.2) | | 24.97 | 20.38 | 3.96 | | 27.16 | 22.45 | 3.47 | | 29.03 | 23.91 | 3.06 | | 30.75 | 25.51 | 2.79 |
| | 57 (13.9) | | 23.02 | 23.02 | 4.00 | | 25.26 | 25.26 | 3.51 | | 27.28 | 27.28 | 3.10 | | 29.00 | 29.00 | 2.82 |
| 80 (26.7) | 72 (22.2) | 830 | 30.32 | 17.00 | 3.85 | 955 | 32.87 | 18.71 | 3.37 | 1080 | 35.11 | 19.98 | 2.97 | 1200 | 37.05 | 21.12 | 2.70 |
| | 67 (19.4) | | 27.16 | 21.41 | 3.91 | | 29.53 | 23.64 | 3.42 | | 31.61 | 25.23 | 3.02 | | 33.37 | 26.77 | 2.75 |
| | 63 (17.2) | | 25.11 | 24.65 | 3.95 | | 27.39 | 27.21 | 3.46 | | 32.78 | 32.48 | 3.00 | | 34.01 | 33.85 | 2.74 |
| | 57 (13.9) | | 24.55 | 24.55 | 3.97 | | 27.01 | 27.01 | 3.48 | | 29.14 | 29.14 | 3.07 | | 31.00 | 31.00 | 2.78 |
| MEDIAN DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 760 | 26.73 | 10.90 | 3.39 | 835 | 27.98 | 11.42 | 2.81 | 875 | 27.79 | 11.39 | 2.18 | 880 | 27.15 | 11.17 | 1.68 |
| | 67 (19.4) | | 23.99 | 14.60 | 3.46 | | 25.14 | 15.47 | 2.87 | | 25.01 | 15.65 | 2.23 | | 24.61 | 15.55 | 1.74 |
| | 63 (17.2) | | 21.97 | 17.53 | 3.51 | | 23.12 | 18.66 | 2.91 | | 23.03 | 19.02 | 2.28 | | 22.58 | 18.87 | 1.77 |
| | 57 (13.9) | | 20.41 | 20.41 | 3.54 | | 21.62 | 21.62 | 2.95 | | 21.76 | 21.76 | 2.31 | | 21.42 | 21.42 | 1.80 |
| 80 (26.7) | 72 (22.2) | 760 | 26.70 | 14.71 | 3.39 | 835 | 27.80 | 15.54 | 2.80 | 875 | 27.74 | 15.72 | 2.17 | 880 | 27.10 | 15.52 | 1.68 |
| | 67 (19.4) | | 23.93 | 18.32 | 3.45 | | 25.10 | 19.71 | 2.88 | | 24.99 | 19.96 | 2.23 | | 24.44 | 19.78 | 1.73 |
| | 63 (17.2) | | 22.17 | 21.22 | 3.50 | | 23.35 | 22.69 | 2.90 | | 24.17 | 20.74 | 2.25 | | 24.09 | 19.28 | 1.74 |
| | 57 (13.9) | | 21.84 | 21.84 | 3.50 | | 23.12 | 23.12 | 2.91 | | 23.27 | 23.27 | 2.27 | | 22.94 | 22.94 | 1.76 |
| MINIMUM DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 690 | 22.30 | 9.22 | 3.18 | 700 | 22.06 | 9.12 | 2.45 | 595 | 19.16 | 7.93 | 1.60 | 480 | 15.45 | 6.41 | 0.98 |
| | 67 (19.4) | | 20.11 | 12.54 | 3.25 | | 19.94 | 12.52 | 2.51 | | 17.23 | 10.80 | 1.65 | | 13.88 | 8.73 | 1.02 |
| | 63 (17.2) | | 18.45 | 15.14 | 3.30 | | 18.33 | 15.20 | 2.56 | | 15.85 | 13.07 | 1.69 | | 12.77 | 10.59 | 1.05 |
| | 57 (13.9) | | 17.24 | 17.24 | 3.32 | | 17.28 | 17.28 | 2.59 | | 14.92 | 14.92 | 1.72 | | 12.04 | 12.04 | 1.07 |
| 80 (26.7) | 72 (22.2) | 690 | 22.41 | 12.59 | 3.17 | 700 | 22.17 | 12.56 | 2.44 | 595 | 19.11 | 10.89 | 1.60 | 480 | 15.39 | 8.79 | 0.98 |
| | 67 (19.4) | | 20.10 | 15.90 | 3.24 | | 19.92 | 15.92 | 2.51 | | 17.21 | 13.71 | 1.65 | | 13.86 | 11.11 | 1.02 |
| | 63 (17.2) | | 19.80 | 14.96 | 3.25 | | 19.43 | 15.72 | 2.52 | | 16.02 | 15.89 | 1.68 | | 12.91 | 12.88 | 1.05 |
| | 57 (13.9) | | 18.54 | 18.54 | 3.29 | | 18.49 | 18.49 | 2.55 | | 15.94 | 15.94 | 1.71 | | 12.87 | 12.87 | 1.05 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE (CONT.)

| 180CNV036/CAP**3617AL+315(A,J)AV036070 Cooling EFFICIENCY Mode Condenser Entering Air Temperature ° F (° C) | | | | | | | | | | | | | | |
|--|------------------------------|-----------|--------------------------|-------|--------------------|---------|--------------------------|-----------|--------------------|---------|--------------------|---------|--------------------------|-------|
| EDB ° F (° C) | EVAP AIR EWB ° F (° C) | 85 (29.4) | | | 75 (23.9) | | | 65 (18.3) | | | Total Sys. KW** | ID SCFM | Capacity MBtu/h Total | Sens† |
| | | ID SCFM | Capacity MBtu/h Total | Sens† | Total Sys. KW** | ID SCFM | Capacity MBtu/h Total | Sens† | Total Sys. KW** | ID SCFM | | | | |
| MAXIMUM DEMAND | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | | 38.62 | 16.02 | 2.18 | | 40.79 | 16.82 | 1.96 | | | 42.58 | 17.53 | 1.87 |
| | 67 (19.4) | | 34.81 | 22.20 | 2.23 | | 36.80 | 23.08 | 2.01 | | 1405 | 38.38 | 24.03 | 1.92 |
| | 63 (17.2) | 1050 | 32.10 | 27.05 | 2.26 | | 33.98 | 28.02 | 2.04 | | | 35.42 | 29.14 | 1.95 |
| | 57 (13.9) | | 30.48 | 30.48 | 2.29 | | 31.71 | 31.71 | 2.08 | | | 33.44 | 33.44 | 1.98 |
| 80 (26.7) | 72 (22.2) | | 38.53 | 22.30 | 2.18 | | 40.66 | 23.16 | 1.96 | | | 42.41 | 24.09 | 1.87 |
| | 67 (19.4) | 1050 | 34.78 | 28.39 | 2.22 | | 36.76 | 29.35 | 2.01 | | 1405 | 38.37 | 30.57 | 1.92 |
| | 63 (17.2) | | 34.93 | 34.93 | 2.22 | | 37.07 | 35.43 | 2.00 | | | 38.67 | 37.97 | 1.91 |
| | 57 (13.9) | | 31.42 | 31.42 | 2.27 | | 33.75 | 33.75 | 2.05 | | | 35.66 | 35.66 | 1.95 |
| MEDIAN DEMAND | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | | 28.45 | 11.62 | 1.40 | | 29.86 | 12.18 | 1.18 | | | 31.23 | 12.72 | 0.99 |
| | 67 (19.4) | | 25.62 | 15.87 | 1.46 | | 26.96 | 16.69 | 1.23 | | 985 | 28.20 | 17.49 | 1.04 |
| | 63 (17.2) | 870 | 23.66 | 19.25 | 1.49 | | 24.87 | 20.27 | 1.27 | | | 26.04 | 21.29 | 1.08 |
| | 57 (13.9) | | 22.35 | 22.35 | 1.52 | | 23.46 | 23.46 | 1.29 | | | 24.61 | 24.61 | 1.10 |
| 80 (26.7) | 72 (22.2) | | 28.40 | 15.97 | 1.40 | | 29.80 | 16.75 | 1.18 | | | 31.16 | 17.55 | 0.99 |
| | 67 (19.4) | 870 | 25.63 | 20.15 | 1.45 | | 26.93 | 21.22 | 1.23 | | 985 | 28.29 | 22.47 | 1.04 |
| | 63 (17.2) | | 23.95 | 23.36 | 1.48 | | 25.20 | 24.61 | 1.26 | | | 26.60 | 25.78 | 1.07 |
| | 57 (13.9) | | 23.76 | 23.76 | 1.49 | | 25.05 | 25.05 | 1.26 | | | 26.35 | 26.35 | 1.07 |
| MINIMUM DEMAND | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | | 16.52 | 6.93 | 0.81 | | 17.55 | 7.44 | 0.66 | | | 18.27 | 7.71 | 0.52 |
| | 67 (19.4) | | 14.88 | 9.64 | 0.85 | | 15.77 | 10.74 | 0.70 | | 640 | 16.60 | 11.15 | 0.57 |
| | 63 (17.2) | 560 | 13.73 | 11.81 | 0.88 | | 14.64 | 13.08 | 0.73 | | | 15.39 | 13.77 | 0.60 |
| | 57 (13.9) | | 13.14 | 13.14 | 0.90 | | 14.21 | 14.21 | 0.74 | | | 14.94 | 14.94 | 0.61 |
| 80 (26.7) | 72 (22.2) | | 16.47 | 9.70 | 0.80 | | 17.50 | 10.65 | 0.66 | | | 18.34 | 11.19 | 0.53 |
| | 67 (19.4) | 560 | 14.88 | 12.40 | 0.85 | | 15.85 | 13.75 | 0.70 | | 640 | 16.63 | 14.48 | 0.57 |
| | 63 (17.2) | | 14.09 | 14.09 | 0.87 | | 15.23 | 15.23 | 0.71 | | | 16.02 | 16.02 | 0.58 |
| | 57 (13.9) | | 14.06 | 14.06 | 0.87 | | 15.21 | 15.21 | 0.71 | | | 15.99 | 15.99 | 0.58 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE (CONT.)

180CNV048/CAP**6124AL+315(A,J)AV060110 Cooling EFFICIENCY Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP. AIR EWB ° F (° C) | 125 | | | | 115 | | | | 105 | | | | 95 | | | |
|-----------------------|-------------------------------|-------------|-----------------|-------|--------------------|-------------|-----------------|-------|--------------------|-------------|-----------------|-------|--------------------|-------------|-----------------|-------|--------------------|
| | | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** | ID SCFM | Capacity MBtuht | | Total Sys. KW** |
| | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | |
| 75 (23.9) | 72 (22.2) | 1250 | 44.80 | 18.05 | 4.82 | 1335 | 48.29 | 19.48 | 4.31 | 1425 | 51.30 | 20.55 | 3.94 | 1500 | 54.20 | 21.61 | 3.60 |
| | 67 (19.4) | | 40.50 | 24.61 | 4.81 | | 43.71 | 26.49 | 4.30 | | 46.44 | 28.04 | 3.92 | | 49.06 | 29.49 | 3.58 |
| | 63 (17.2) | | 37.39 | 29.82 | 4.81 | | 40.35 | 31.97 | 4.30 | | 42.87 | 33.87 | 3.91 | | 45.31 | 35.64 | 3.57 |
| | 57 (13.9) | | 34.65 | 34.65 | 4.80 | | 37.39 | 37.39 | 4.29 | | 39.77 | 39.77 | 3.90 | | 42.00 | 42.00 | 3.56 |
| 80 (26.7) | 72 (22.2) | 1250 | 44.42 | 24.80 | 4.81 | 1335 | 48.10 | 26.47 | 4.31 | 1425 | 51.10 | 28.02 | 3.94 | 1500 | 53.99 | 29.49 | 3.60 |
| | 67 (19.4) | | 40.39 | 31.08 | 4.81 | | 43.58 | 33.40 | 4.30 | | 46.33 | 35.44 | 3.92 | | 48.94 | 37.27 | 3.58 |
| | 63 (17.2) | | 37.47 | 36.12 | 4.81 | | 40.31 | 38.70 | 4.30 | | 43.05 | 41.16 | 3.91 | | 45.51 | 43.28 | 3.57 |
| | 57 (13.9) | | 36.92 | 36.92 | 4.81 | | 39.80 | 39.80 | 4.30 | | 42.33 | 42.33 | 3.91 | | 44.69 | 44.69 | 3.57 |
| MEDIAN DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 1230 | 43.75 | 17.64 | 4.62 | 1265 | 45.55 | 18.36 | 3.97 | 1240 | 43.91 | 17.72 | 3.21 | 1200 | 42.45 | 17.16 | 2.55 |
| | 67 (19.4) | | 39.95 | 24.25 | 4.63 | | 41.34 | 24.75 | 3.96 | | 39.81 | 24.30 | 3.20 | | 38.40 | 23.53 | 2.54 |
| | 63 (17.2) | | 36.84 | 29.35 | 4.63 | | 38.08 | 30.30 | 3.96 | | 40.64 | 19.45 | 3.19 | | 35.52 | 28.50 | 2.54 |
| | 57 (13.9) | | 34.16 | 34.16 | 4.62 | | 35.30 | 35.30 | 3.96 | | 34.18 | 34.18 | 3.20 | | 33.07 | 33.07 | 2.54 |
| 80 (26.7) | 72 (22.2) | 1230 | 43.94 | 24.26 | 4.63 | 1265 | 45.35 | 25.01 | 3.97 | 1240 | 43.71 | 24.25 | 3.21 | 1200 | 42.25 | 23.48 | 2.55 |
| | 67 (19.4) | | 39.81 | 30.69 | 4.63 | | 41.11 | 31.60 | 3.96 | | 39.56 | 30.88 | 3.20 | | 38.23 | 29.91 | 2.55 |
| | 63 (17.2) | | 36.92 | 35.75 | 4.63 | | 38.18 | 36.75 | 3.96 | | 36.85 | 35.75 | 3.20 | | 35.62 | 34.59 | 2.54 |
| | 57 (13.9) | | 36.40 | 36.40 | 4.63 | | 37.60 | 37.60 | 3.96 | | 36.40 | 36.40 | 3.20 | | 35.21 | 35.21 | 2.54 |
| MINIMUM DEMAND | | | | | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 1205 | 43.93 | 17.73 | 4.76 | 1190 | 43.26 | 17.46 | 3.88 | 1005 | 36.36 | 14.77 | 2.64 | 845 | 29.84 | 12.07 | 1.75 |
| | 67 (19.4) | | 39.71 | 24.18 | 4.76 | | 39.15 | 23.86 | 3.88 | | 32.87 | 20.13 | 2.64 | | 26.98 | 16.71 | 1.75 |
| | 63 (17.2) | | 36.68 | 29.26 | 4.76 | | 36.13 | 28.85 | 3.88 | | 30.35 | 24.47 | 2.64 | | 24.90 | 20.29 | 1.75 |
| | 57 (13.9) | | 34.01 | 34.01 | 4.76 | | 33.53 | 33.53 | 3.88 | | 28.25 | 28.25 | 2.65 | | 23.28 | 23.28 | 1.75 |
| 80 (26.7) | 72 (22.2) | 1205 | 43.76 | 24.18 | 4.76 | 1190 | 43.08 | 23.83 | 3.88 | 1005 | 36.17 | 20.19 | 2.64 | 845 | 29.65 | 16.69 | 1.75 |
| | 67 (19.4) | | 38.20 | 30.00 | 4.74 | | 39.03 | 30.18 | 3.88 | | 32.80 | 25.52 | 2.64 | | 26.86 | 21.20 | 1.75 |
| | 63 (17.2) | | 36.74 | 35.53 | 4.76 | | 36.20 | 35.04 | 3.88 | | 30.44 | 29.65 | 2.64 | | 24.95 | 24.68 | 1.75 |
| | 57 (13.9) | | 36.25 | 36.24 | 4.76 | | 35.72 | 35.72 | 3.88 | | 30.09 | 30.09 | 2.64 | | 24.79 | 24.79 | 1.75 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE (CONT.)

180CNV048/CAP**6124AL+315(A,J)AV060110 Cooling EFFICIENCY Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP. AIR EWB ° F (° C) | 85 | | | | 75 | | | | 65 | | | |
|-----------------------|-------------------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|---------|-----------------|-------|--------------------|
| | | ID SCFM | Capacity MBtu/h | | Total Sys. KW** | ID SCFM | Capacity MBtu/h | | Total Sys. KW** | ID SCFM | Capacity MBtu/h | | Total Sys. KW** |
| | | | Total | Sens† | | | Total | Sens† | | | Total | Sens† | |
| MAXIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 1500 | 56.79 | 22.56 | 3.23 | 1540 | 59.15 | 23.42 | 2.94 | 1575 | 61.40 | 24.30 | 2.67 |
| | 67 (19.4) | | 51.40 | 30.44 | 3.21 | | 53.58 | 31.55 | 2.91 | | 55.72 | 32.64 | 2.64 |
| | 63 (17.2) | | 47.47 | 36.60 | 3.20 | | 49.52 | 37.89 | 2.88 | | 51.56 | 39.15 | 2.60 |
| | 57 (13.9) | | 43.67 | 43.67 | 3.19 | | 45.47 | 45.47 | 2.87 | | 47.24 | 47.24 | 2.59 |
| 80 (26.7) | 72 (22.2) | 1500 | 56.61 | 30.43 | 3.23 | 1540 | 58.95 | 31.49 | 2.94 | 1575 | 61.20 | 32.57 | 2.67 |
| | 67 (19.4) | | 51.29 | 38.19 | 3.21 | | 53.43 | 39.51 | 2.90 | | 55.76 | 40.86 | 2.63 |
| | 63 (17.2) | | 47.61 | 44.27 | 3.20 | | 49.67 | 45.75 | 2.89 | | 51.72 | 47.21 | 2.61 |
| | 57 (13.9) | | 46.39 | 46.39 | 3.20 | | 48.24 | 48.24 | 2.88 | | 50.10 | 50.10 | 2.60 |
| MEDIAN DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 1170 | 44.41 | 17.87 | 2.24 | 1260 | 46.64 | 18.75 | 2.03 | 1280 | 48.45 | 19.39 | 1.83 |
| | 67 (19.4) | | 40.23 | 24.06 | 2.23 | | 42.22 | 25.41 | 2.01 | | 43.90 | 26.13 | 1.82 |
| | 63 (17.2) | | 37.12 | 28.91 | 2.23 | | 39.01 | 30.62 | 2.01 | | 40.56 | 31.48 | 1.81 |
| | 57 (13.9) | | 34.17 | 34.17 | 2.22 | | 36.09 | 36.09 | 2.01 | | 37.36 | 37.36 | 1.80 |
| 80 (26.7) | 72 (22.2) | 1170 | 44.24 | 24.04 | 2.24 | 1260 | 46.42 | 25.23 | 2.04 | 1280 | 48.33 | 25.82 | 1.83 |
| | 67 (19.4) | | 40.09 | 30.18 | 2.23 | | 42.13 | 32.00 | 2.02 | | 43.72 | 32.82 | 1.82 |
| | 63 (17.2) | | 37.21 | 34.93 | 2.23 | | 39.15 | 37.15 | 2.01 | | 40.66 | 38.07 | 1.81 |
| | 57 (13.9) | | 36.32 | 36.32 | 2.23 | | 38.36 | 38.36 | 2.01 | | 39.71 | 39.71 | 1.81 |
| MINIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 870 | 31.39 | 12.79 | 1.53 | 875 | 32.81 | 13.31 | 1.34 | 895 | 34.20 | 13.84 | 1.18 |
| | 67 (19.4) | | 28.42 | 17.43 | 1.54 | | 29.70 | 18.00 | 1.34 | | 30.98 | 18.65 | 1.17 |
| | 63 (17.2) | | 26.24 | 21.14 | 1.53 | | 27.41 | 21.70 | 1.34 | | 28.60 | 22.45 | 1.17 |
| | 57 (13.9) | | 24.42 | 24.42 | 1.54 | | 25.35 | 25.35 | 1.34 | | 26.37 | 26.37 | 1.17 |
| 80 (26.7) | 72 (22.2) | 870 | 31.24 | 17.43 | 1.54 | 875 | 32.66 | 17.99 | 1.34 | 895 | 34.06 | 18.63 | 1.18 |
| | 67 (19.4) | | 28.30 | 22.09 | 1.53 | | 29.59 | 22.66 | 1.34 | | 30.86 | 23.41 | 1.17 |
| | 63 (17.2) | | 26.78 | 24.33 | 1.53 | | 28.43 | 23.77 | 1.34 | | 29.79 | 24.02 | 1.17 |
| | 57 (13.9) | | 25.99 | 25.99 | 1.53 | | 26.96 | 26.96 | 1.34 | | 28.03 | 28.03 | 1.17 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE (CONT.)

180CNV060/CAP**6124AL+315(A-J)/AV060110 Expanded Ratings Cooling Efficiency Mode
Condenser Entering Air Temperature ° F (° C)

| EDB ° F (° C) | EVAP. AIR EWB ° F (° C) | 125 | | | 115 | | | 105 | | | 95 | | |
|-----------------------|-------------------------------|--------------------|--------------------|-------|--------------------|--------------------|-------|--------------------|--------------------|-------|--------------------|--------------------|-------|
| | | ID SCFM | Capacity MBtuht | | ID SCFM | Capacity MBtuht | | ID SCFM | Capacity MBtuht | | ID SCFM | Capacity MBtuht | |
| | | | Total | Sens† | | Total | Sens† | | Total | Sens† | | Total | Sens† |
| | | Total Sys. KW** | Total Sys. KW** | | Total Sys. KW** | Total Sys. KW** | | Total Sys. KW** | Total Sys. KW** | | Total Sys. KW** | Total Sys. KW** | |
| MAXIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 50.55 | 20.14 | 5.59 | 54.52 | 21.67 | 5.09 | 58.22 | 23.07 | 4.64 | 61.68 | 24.37 | 4.26 |
| | 67 (19.4) | 45.83 | 26.41 | 5.57 | 49.35 | 28.44 | 5.06 | 52.67 | 30.34 | 4.61 | 55.81 | 32.16 | 4.22 |
| | 63 (17.2) | 42.22 | 31.27 | 5.56 | 45.53 | 33.70 | 5.04 | 48.60 | 36.01 | 4.59 | 51.49 | 38.23 | 4.20 |
| | 57 (13.9) | 37.97 | 37.81 | 5.53 | 41.03 | 40.86 | 5.02 | 43.88 | 43.88 | 4.57 | 46.61 | 46.61 | 4.18 |
| 80 (26.7) | 72 (22.2) | 50.19 | 26.29 | 5.59 | 54.14 | 28.35 | 5.09 | 57.83 | 30.26 | 4.64 | 61.32 | 32.10 | 4.26 |
| | 67 (19.4) | 45.66 | 32.55 | 5.57 | 49.23 | 35.11 | 5.06 | 52.52 | 37.55 | 4.61 | 55.67 | 39.84 | 4.22 |
| | 63 (17.2) | 42.19 | 37.38 | 5.55 | 45.52 | 40.34 | 5.04 | 48.62 | 43.16 | 4.59 | 51.55 | 45.87 | 4.20 |
| | 57 (13.9) | 40.23 | 40.23 | 5.54 | 43.45 | 43.45 | 5.03 | 46.49 | 46.49 | 4.58 | 49.40 | 49.40 | 4.19 |
| MEDIAN DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 47.61 | 19.05 | 5.04 | 49.56 | 19.83 | 4.42 | 48.89 | 19.62 | 3.62 | 47.39 | 19.08 | 2.93 |
| | 67 (19.4) | 43.00 | 25.53 | 5.03 | 44.83 | 26.86 | 4.40 | 44.25 | 26.77 | 3.61 | 42.91 | 26.07 | 2.92 |
| | 63 (17.2) | 39.72 | 30.65 | 5.02 | 41.31 | 32.32 | 4.40 | 40.83 | 32.40 | 3.60 | 39.62 | 31.59 | 2.91 |
| | 57 (13.9) | 36.42 | 36.42 | 5.02 | 38.06 | 38.06 | 4.39 | 37.89 | 37.89 | 3.60 | 36.83 | 36.83 | 2.90 |
| 80 (26.7) | 72 (22.2) | 47.42 | 25.54 | 5.04 | 49.24 | 27.01 | 4.42 | 48.69 | 26.74 | 3.62 | 47.21 | 26.04 | 2.93 |
| | 67 (19.4) | 42.94 | 31.99 | 5.03 | 44.72 | 33.81 | 4.40 | 44.12 | 33.80 | 3.61 | 42.78 | 33.00 | 2.91 |
| | 63 (17.2) | 39.75 | 36.97 | 5.02 | 41.46 | 39.20 | 4.40 | 41.00 | 39.28 | 3.60 | 39.78 | 38.32 | 2.91 |
| | 57 (13.9) | 38.68 | 38.68 | 5.03 | 40.60 | 40.60 | 4.40 | 40.32 | 40.32 | 3.60 | 39.19 | 39.19 | 2.91 |
| MINIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | 43.93 | 17.73 | 4.76 | 43.26 | 17.46 | 3.88 | 36.36 | 14.77 | 2.64 | 29.84 | 12.07 | 1.75 |
| | 67 (19.4) | 39.71 | 24.18 | 4.76 | 39.15 | 23.86 | 3.88 | 32.87 | 20.13 | 2.64 | 26.98 | 16.71 | 1.75 |
| | 63 (17.2) | 36.68 | 29.26 | 4.76 | 36.13 | 28.85 | 3.88 | 30.35 | 24.47 | 2.64 | 24.90 | 20.29 | 1.75 |
| | 57 (13.9) | 34.01 | 34.01 | 4.76 | 33.53 | 33.53 | 3.88 | 28.25 | 28.25 | 2.65 | 23.28 | 23.28 | 1.75 |
| 80 (26.7) | 72 (22.2) | 43.76 | 24.18 | 4.76 | 43.08 | 23.83 | 3.88 | 36.17 | 20.19 | 2.64 | 29.65 | 16.69 | 1.75 |
| | 67 (19.4) | 38.20 | 30.00 | 4.74 | 39.03 | 30.18 | 3.88 | 32.80 | 25.52 | 2.64 | 26.86 | 21.20 | 1.75 |
| | 63 (17.2) | 36.74 | 35.53 | 4.76 | 36.20 | 35.04 | 3.88 | 30.44 | 29.65 | 2.64 | 24.95 | 24.68 | 1.75 |
| | 57 (13.9) | 36.25 | 36.24 | 4.76 | 35.72 | 35.72 | 3.88 | 30.09 | 30.09 | 2.64 | 24.79 | 24.79 | 1.75 |

See additional notes on page 26

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE (CONT.)

| 180CNV060/CAP**6124AL+315(A..J)AV060110 Expanded Ratings Cooling Efficiency Mode Condenser Entering Air Temperature ° F (° C) | | | | | | | | | | | | | |
|--|------------------------------|-----------|--------------------------|--------------------|-----------|--------------------------|--------------------|-----------|--------------------------|--------------------|-------|-------|------|
| EDB ° F (° C) | EVAP AIR EWB ° F (° C) | 85 (29.4) | | | 75 (23.9) | | | 65 (18.3) | | | | | |
| | | ID SCFM | Capacity MBtuht Total | Total Sys. KW** | ID SCFM | Capacity MBtuht Total | Total Sys. KW** | ID SCFM | Capacity MBtuht Total | Total Sys. KW** | | | |
| MAXIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | | 64.31 | 25.37 | 3.82 | | 67.74 | 26.64 | 3.60 | | 70.82 | 26.76 | 3.57 |
| | 67 (19.4) | 1500 | 58.23 | 33.16 | 3.78 | 1675 | 61.37 | 35.35 | 3.54 | 1880 | 64.01 | 37.30 | 3.50 |
| | 63 (17.2) | | 53.80 | 39.28 | 3.75 | | 56.69 | 42.14 | 3.50 | | 59.21 | 44.95 | 3.46 |
| | 57 (13.9) | | 48.73 | 47.70 | 3.72 | | 51.56 | 51.56 | 3.47 | | 54.41 | 54.41 | 3.41 |
| | 72 (22.2) | | 64.07 | 33.21 | 3.83 | 1675 | 67.51 | 35.32 | 3.59 | | 70.29 | 37.20 | 3.56 |
| 80 (26.7) | 67 (19.4) | 1500 | 58.16 | 40.88 | 3.78 | | 61.22 | 43.90 | 3.54 | 1880 | 63.84 | 46.86 | 3.50 |
| | 63 (17.2) | | 53.87 | 46.94 | 3.75 | | 56.82 | 50.67 | 3.51 | | 59.40 | 54.40 | 3.46 |
| | 57 (13.9) | | 51.22 | 51.22 | 3.73 | | 54.60 | 54.60 | 3.49 | | 57.69 | 57.69 | 3.44 |
| MEDIAN DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | | 49.53 | 19.83 | 2.61 | | 51.83 | 20.72 | 2.35 | | 53.98 | 21.54 | 2.12 |
| | 67 (19.4) | 1300 | 44.84 | 26.73 | 2.59 | 1365 | 46.98 | 27.91 | 2.33 | 1420 | 48.96 | 29.10 | 2.10 |
| | 63 (17.2) | | 41.41 | 32.09 | 2.59 | | 43.40 | 33.62 | 2.32 | | 45.27 | 34.99 | 2.09 |
| | 57 (13.9) | | 38.10 | 38.10 | 2.58 | | 39.96 | 39.96 | 2.31 | | 41.69 | 41.69 | 2.07 |
| | 72 (22.2) | | 49.36 | 26.69 | 2.61 | 1365 | 51.63 | 27.92 | 2.35 | | 53.77 | 29.03 | 2.12 |
| 80 (26.7) | 67 (19.4) | 1300 | 44.72 | 33.50 | 2.59 | | 46.84 | 35.08 | 2.33 | 1420 | 48.84 | 36.50 | 2.10 |
| | 63 (17.2) | | 41.50 | 38.81 | 2.59 | | 43.51 | 40.67 | 2.32 | | 45.40 | 42.32 | 2.09 |
| | 57 (13.9) | | 40.49 | 40.49 | 2.59 | | 42.46 | 42.46 | 2.32 | | 44.27 | 44.27 | 2.08 |
| MINIMUM DEMAND | | | | | | | | | | | | | |
| 75 (23.9) | 72 (22.2) | | 31.99 | 12.79 | 1.53 | | 32.81 | 13.31 | 1.34 | | 34.20 | 13.84 | 1.18 |
| | 67 (19.4) | 870 | 28.42 | 17.43 | 1.54 | 875 | 29.70 | 18.00 | 1.34 | 895 | 30.98 | 18.65 | 1.17 |
| | 63 (17.2) | | 26.24 | 21.14 | 1.53 | | 27.41 | 21.70 | 1.34 | | 28.60 | 22.45 | 1.17 |
| | 57 (13.9) | | 24.42 | 24.42 | 1.54 | | 25.35 | 25.35 | 1.34 | | 26.37 | 26.37 | 1.17 |
| | 72 (22.2) | | 31.24 | 17.43 | 1.54 | 875 | 32.66 | 17.99 | 1.34 | | 34.06 | 18.63 | 1.18 |
| 80 (26.7) | 67 (19.4) | 870 | 28.30 | 22.09 | 1.53 | | 29.59 | 22.66 | 1.34 | 895 | 30.86 | 23.41 | 1.17 |
| | 63 (17.2) | | 26.78 | 24.33 | 1.53 | | 28.43 | 23.77 | 1.34 | | 29.79 | 24.02 | 1.17 |
| | 57 (13.9) | | 25.99 | 25.99 | 1.53 | | 26.96 | 26.96 | 1.34 | | 28.03 | 28.03 | 1.17 |

NOTES:

- * Tested combination.
- † Total and sensible capacities are net capacities. Blower motor heat has been subtracted.
- ‡ Sensible capacities are shown for both 80°F (27°C) and 75°F (23.4°C) entering air at the indoor coil. For sensible capacities at other than these, deduct 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below reference temperature, or add 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree above reference temperature.
- # Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
- ** System kw is total of indoor and outdoor unit kilowatts.

NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
EWB — Entering Wet Bulb

GUIDE SPECIFICATIONS

GENERAL

System Description

Outdoor-mounted, air-cooled, split-system air conditioner unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, forward-swept blade propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 240.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils are pressure tested and the outdoor units are leak tested.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

- Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

PRODUCTS

Equipment

- Factory-assembled, single-piece, air-cooled air conditioner. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron® (R-410A) refrigerant, and special features required prior to field start-up.

Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.

Fans

- Condenser fan will be direct-drive propeller type, forward swept blade, discharging air upward.

AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER

180CNV

2 TO 5 NOMINAL TONS

- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated.
- Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.
- Compressor will be covered with a sound absorbing blanket.

Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes which are then cleaned, dehydrated, and sealed.

Refrigeration Components

- Refrigeration circuit components will include liquid-line front-seating shutoff valve with sweat connections, vapor-line front-seating shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, POE compressor oil, accumulator.
- Unit will be equipped with high-pressure switch, suction pressure transducer, and filter drier for Puron® refrigerant.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F (°C). The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F (°C) wet bulb and _____ °F (°C) dry bulb, and air entering the unit at _____ °F (°C).
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.
- Evolution® wall control with appropriate software version is required for full featured operation.

SYSTEM DESIGN SUMMARY

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. This product is qualified for low ambient cooling operation (below 55°F / 12.8°C) with an Evolution wall control **ONLY**.
3. The maximum outdoor operating ambient in cooling mode is 125.6°F (51.67°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or elevation differences between indoor and outdoor units greater than 20 ft (6.1 m), consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
6. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
7. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
8. Do not apply capillary tube indoor coils to these units.
9. Factory-supplied filter drier must be installed.