



PA3A
13 SEER SPLIT-SYSTEM
AIR CONDITIONER
WITH R-410A REFRIGERANT
1-1/2 - 5 TONS (018-060)

Product Data

FEATURES AND BENEFITS

REFRIGERATION CIRCUIT

- Copeland compressors on all models
- Filter-Drier supplied with every unit for field installation
- Copper tube / aluminum fin coil

EASY TO INSTALL AND SERVICE

- Easy Access service valves on all models
- External high and low refrigerant service ports
- Only two screws to access control panel
- Factory charged with R-410A refrigerant

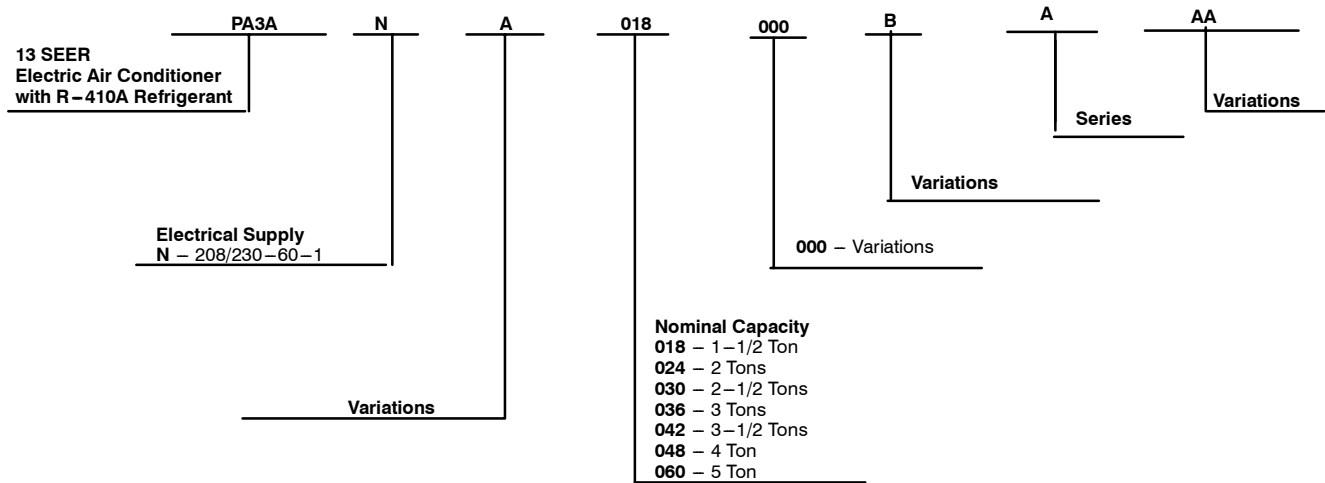
BUILT TO LAST

- Baked-on powder coat finish over galvanized steel
- Post-painted (black) coil fins
- Coated cabinet screws
- Coated inlet grille with 2" spacing standard, alternate models available with 3/8" grille spacing for extra protection

WARRANTY:

- 5 year limited compressor, coil, and parts warranties

PRODUCT NUMBER NOMENCLATURE



PHYSICAL DATA

| UNIT SIZE SERIES | 018 | 024 | 030 | 036 | 042 | 048 | 060 |
|------------------------------|------------------------------|-------------|-------------|--------------|-------------|-------------|-------------|
| Operating Weight lb (kg) | 117 (53.1) | 122 (55.3) | 127 (57.6) | 151 (68.5) | 180 (81.7) | 197 (89.4) | 206 (93.4) |
| Shipping Weight lb (kg) | 138 (62.6) | 143 (64.7) | 148 (67.1) | 174 (78.9) | 208 (94.3) | 225 (102.1) | 240 (108.9) |
| Compressor Type | Scroll | | | | | | |
| REFRIGERANT | R-410A | | | | | | |
| Control | TXV (Hard Shutoff) | | | | | | |
| Charge lb (kg) | 4.25 (1.93) | 4.35 (1.97) | 4.00 (1.81) | 5.325 (2.38) | 6.20 (2.81) | 7.95 (3.61) | 8.35 (3.79) |
| COND FAN | Propeller Type, Direct Drive | | | | | | |
| Air Discharge | Vertical | | | | | | |
| Air Qty (CFM) | 1885 | 2200 | 2950 | 3170 | 3365 | 4050 | |
| Motor HP | 1/12 | 1/10 | 1/4 | 1/5 | 1/4 | 1/5 | |
| Motor RPM | 1100 | | | | | | 825 |
| COND COIL | | | | | | | |
| Face Area (Sq ft) | 9.85 | | 14.77 | 17.25 | 21.56 | 22.65 | |
| Fins per In. | 20 | | 25 | | | | |
| Rows | 1 | | | | | | |
| Circuits | 3 | 4 | 5 | 7 | | | |
| VALVE CONNECT. (In. ID) | | | | | | | |
| Vapor | 5/8 | | 3/4 | | 7/8 | | |
| Liquid | 3/8 | | | | | | |
| REFRIGERANT TUBES* (In. OD) | | | | | | | |
| Vapor (0-50 Ft Tube Length) | 5/8 | | 3/4 | | 7/8 | | 1-1/8 |
| Liquid (0-50 Ft Tube Length) | 3/8 | | | | | | |

* For tubing sets between 80 and 200 ft. horizontal or 20 ft. vertical differential, consult the Longline Guideline.

Note: See unit Installation Instruction for proper installation.

VAPOR LINE SIZING AND COOLING CAPACITY LOSS R-410A 1-STAGE AIR CONDITIONER APPLICATIONS

LONG LINE APPLICATION: An application is considered "Long line" when the total equivalent tubing length exceeds 80 ft (24.4 m) or when there is more than 20 ft (6.1 m) vertical separation between indoor and outdoor units. These applications require additional accessories and system modifications for reliable system operation. The maximum allowable total equivalent length is 250 ft (76.2 m). The maximum vertical separation is 200 ft (76.2 m)

when outdoor unit is above indoor unit, and 50 ft (15.2 m) when the outdoor unit is below the indoor unit. Refer to Accessory Usage Guideline below for required accessories. See Long-Line Application Guideline for required piping and system modifications. Also, refer to the table below for the acceptable vapor tube diameters based on the total length to minimize the cooling capacity loss.

| Unit Nominal Size (Btuh) | Acceptable Vapor Line Diameters (In. OD) | Cooling Capacity Loss (%) Total Equivalent Line Length (ft) | | | | | | | | | | | |
|----------------------------|--|--|----|----|--|-----|-----|-----|-----|-----|-----|-----|--|
| | | Standard Application | | | Long Line Application Requires Accessories | | | | | | | | |
| | | 25 | 50 | 80 | 80+ | 100 | 125 | 150 | 175 | 200 | 225 | 250 | |
| 18000 1 Stage R-410A AC | 1/2 | 1 | 2 | 4 | 4 | 5 | 6 | 7 | 8 | 10 | 11 | 12 | |
| | 5/8 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | |
| 24000 1 Stage R-410A AC | 5/8 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | |
| | 3/4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | |
| | 7/8 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 30000 1 Stage R-410A AC | 5/8 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | |
| | 3/4 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | |
| | 7/8 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | |
| 36000 1 Stage R-410A AC | 5/8 | 1 | 3 | 4 | 4 | 5 | 7 | 8 | 9 | 11 | 12 | 13 | |
| | 3/4 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 5 | |
| | 7/8 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | |
| 42000 1 Stage R-410A AC | 3/4 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | |
| | 7/8 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | |
| | 1 1/8 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 48000 1 Stage R-410A AC | 3/4 | 1 | 2 | 3 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | |
| | 7/8 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | |
| | 1 1/8 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 60000 1 Stage R-410A AC | 3/4 | 1 | 3 | 4 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 13 | |
| | 7/8 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | |
| | 1 1/8 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | |

Standard Length = 80 ft. (24.4 m) or less total equivalent length

Applications in this area are long line. Accessories are required as shown recommended on Long Line Application Guidelines

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit. See Long Line Application Guidelines

ACCESSORIES

| KIT NUMBER | DESCRIPTION | Size | | | | | | |
|---------------|--------------------------|------|-----|-----|-----|-----|-----|-----|
| | | 018 | 024 | 030 | 036 | 042 | 048 | 060 |
| KAFT0101AAA | FREEZE THERMOSTAT | X | X | X | X | X | X | X |
| KAATD0101TDR | TIME DELAY RELAY | X | X | X | X | X | X | X |
| KAAWS0101AAA | WINTER START | X | X | X | X | X | X | X |
| KSALA0301410 | LOW AMBIENT PSW | X | X | X | X | X | X | X |
| KSALA0601AAA† | MOTORMASTER 230V | X | X | X | X | X | X | X |
| HC32GE234 | MOTOR FAN BALL BEARING | X | | | | | | |
| HC34GE239 | MOTOR FAN BALL BEARING | | X | X | | | | |
| HC40GE226 | MOTOR FAN BALL BEARING | | | | X | | X | |
| HC38GE219 | MOTOR FAN BALL BEARING | | | | | X | | |
| HC40GE228 | MOTOR FAN BALL BEARING | | | | | | | X |
| KAHS1701AAA | HARD START (CAP / RELAY) | X | X | X | X | X | X | X |
| KSACY0101AAA | CYCLE PROTECTOR | X | X | X | X | X | X | X |
| KSASF0101AAA | SUPPORT FEET | X | X | X | X | X | X | X |
| KAACS0201PTC | START ASSIST PTC | X | X | X | X | X | X | X |
| KAACH1201AAA | CRANKCASE HTR | | | | | X | X | X |
| KAACH1401AAA | CRANKCASE HTR | X | X | X | X | | | |
| KSATX0201PUR | TXV PURON HSO | X | X | X | | | | |
| KSATX0301PUR | TXV PURON HSO | | | | X | X | | |
| KSATX0401PUR | TXV PURON HSO | | | | | | X | |
| KSATX0501PUR | TXV PURON HSO | | | | | | | X |
| KSASH0601COP | SOUND HOOD | X | X | X | X | X | X | |
| KSASH2101COP | SOUND HOOD | | | | | | | X |
| KAALP0301PUR | LOW PRESSURE SWITCH | X | X | X | X | X | X | X |
| KAHIO401PUR | HIGH PRESSURE SWITCH | X | X | X | X | X | X | X |

† Required accessories include ball bearing fan motor, compressor start assist (CAP / Relay), crankcase heater, evaporator freeze stat, hard shut-off TXV.

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ACCESSORY USAGE GUIDELINE

| ACCESSORY | REQUIRED FOR LOW AMBIENT COOLING APPLICATIONS (Below 55°F / 22.8°C) | REQUIRED FOR LONG LINE APPLICATIONS* (Over 80 Ft./24.4 m) | REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles/3.2 km) |
|--|---|---|---|
| Compressor Start Assist Capacitor and Relay | Yes | Yes | No |
| Crankcase Heater | Yes | Yes | No |
| Evaporator Freeze Thermostat | Yes | No | No |
| Liquid Line Solenoid Valve | No | See Long-Line Application Guideline | No |
| Low Ambient Kit (Pressure Switch) | Yes | No | No |
| Support Feet | Recommended | No | Recommended |

* For tubing line sets between 80 and 200 ft. (24.4 and 76.2 m) and/or 20 ft. (6.1 m) vertical differential, refer to Residential Split-System Longline Application Guideline.

† Required for Low Ambient Controller (full modulation feature) and MotorMaster® Control only.

Accessory Description and Usage (Listed Alphabetically)

1. Compressor Start Assist - Capacitor and Relay

Start capacitor and relay gives a "hard" boost to compressor motor at each start up.

Usage Guideline:

Required for reciprocating compressors in the following applications:

- Long line
- Low ambient cooling
- Hard shut off expansion valve on indoor coil
- Liquid line solenoid on indoor coil

Required for single-phase scroll compressors in the following applications:

- Long line
- Low ambient cooling

Suggested for all compressors in areas with a history of low voltage problems.

2. Compressor Start Assist — PTC Type

Solid state electrical device which gives a "soft" boost to the compressor at each start-up.

Usage Guideline:

Suggested in installations with marginal power supply.

3. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage Guideline:

- Required in low ambient cooling applications.
- Required in long line applications.

4. Cycle Protector

The cycle protector is designed to prevent compressor short cycling. This control provides an approximate 5-minute delay after power to the compressor has been interrupted for any reason, including power outage, protector control trip, thermostat jiggling, or normal cycling.

Suggested in all commercial applications.

5. 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.

6. Low Ambient Pressure Switch Kit

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits (approximately 100 psig to 225 psig). The control will maintain working head pressure at low ambient temperatures down to 0°F/0°C when properly installed.

Usage Guideline:

A Low Ambient Pressure Switch or MotorMaster® Low Ambient Controller must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

Suggested for all commercial applications.

7. Support Feet

Four stick-on plastic feet that raise the unit 4 in. above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base, minimizing corrosion.

Usage Guideline:

Suggested in the following applications:

- Coastal installations.
- Windy areas or where debris is normally circulating.
- Rooftop installations.
- For improved sound ratings.

8. Thermostatic Expansion Valve (TXV)

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.

Kit includes valve, adapter tubes, and external equalizer tube. Hard shut off types are available.

NOTE: When using a hard shut off TXV with single phase reciprocating compressors, a Compressor Start Assist Capacitor and Relay is required.

Usage Guideline:

- Required to achieve ARI ratings in certain equipment combinations. Refer to combination ratings.
- Hard shut off TXV or LLS required in air conditioner long line applications.
- Required for use on all zoning systems.

9. 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 | MIN WIRE SIZE† | MIN WIRE SIZE† | MAX LENGTH (FT)‡ | MAX LENGTH (FT)‡ | MAX FUSE** or BREAKER AMPS |
|-----------------------------|-------|-------------|-----------|-------|-----|------|------|----------------|----------------|------------------|------------------|----------------------------|
| | | MAX | MIN | LRA | RLA | FLA | | 60° C | 75° C | 60° C | 75° C | |
| | | 018 | 208–230/1 | 253 | 197 | 48.0 | | 9.0 | 0.5 | 11.7 | 14 | |
| 024 | 58.3 | 13.5 | | | | 0.75 | 17.6 | 14 | 14 | 45 | 43 | 25 |
| 030 | 64.0 | 12.8 | | | | 0.75 | 16.8 | 14 | 14 | 47 | 45 | 25 |
| 036 | 77.0 | 14.1 | | | | 1.4 | 19.0 | 12 | 12 | 66 | 63 | 30 |
| 042 | 112.0 | 17.9 | | | | 1.1 | 23.5 | 12 | 12 | 53 | 51 | 40 |
| 048 | 109.0 | 19.9 | | | | 1.4 | 26.2 | 10 | 10 | 76 | 73 | 40 |
| 060 | 134.0 | 26.4 | | | | 1.2 | 34.2 | 8 | 8 | 91 | 86 | 50 |

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

† If wire is applied at ambient greater than 30°C (86°F), consult table 310–16 of the NEC (ANSI/NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C (140°F) conditions, per the NEC (ANSI/NFPA 70) Article 336–26. If other than uncoated (no-plated), 60 or 75°C (140 or 167°F) 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 (ANSI/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.

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A-WEIGHTED SOUND POWER (dBA)

| UNIT SIZE – VOLTAGE, SERIES | STANDARD RATING (dBA) | TYPICAL OCTAVE BAND SPECTRUM (dB, without tone adjustment) | | | | | | |
|-----------------------------|-----------------------|--|------|------|------|------|------|------|
| | | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 018 | 76 | 52.0 | 61.0 | 67.0 | 70.5 | 67.5 | 63.5 | 56.5 |
| 024 | 76 | 56.5 | 64.0 | 67.5 | 69.5 | 67.0 | 65.0 | 60.5 |
| 030 | 76 | 55.0 | 63.5 | 69.0 | 72.0 | 69.0 | 64.5 | 59.5 |
| 036 | 76 | 58.5 | 64.0 | 68.0 | 69.5 | 66.0 | 62.5 | 55.0 |
| 042 | 78 | 57.5 | 65.0 | 71.0 | 73.0 | 70.5 | 67.5 | 62.5 |
| 048 | 78 | 59.5 | 67.0 | 72.5 | 73.0 | 70.0 | 67.0 | 62.5 |
| 060 | 78 | 53.5 | 61.0 | 67.5 | 74.5 | 68.5 | 62.5 | 61.0 |

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

| UNIT SIZE – SERIES | REQUIRED SUBCOOLING °F (°C) |
|--------------------|-----------------------------|
| 018 | 8 (4.4) |
| 024 | 13 (7.2) |
| 030 | 16 (8.9) |
| 036 | 16 (8.9) |
| 042 | 10 (5.6) |
| 048 | 17 (9.4) |
| 060 | 11 (6.1) |

DIMENSIONS

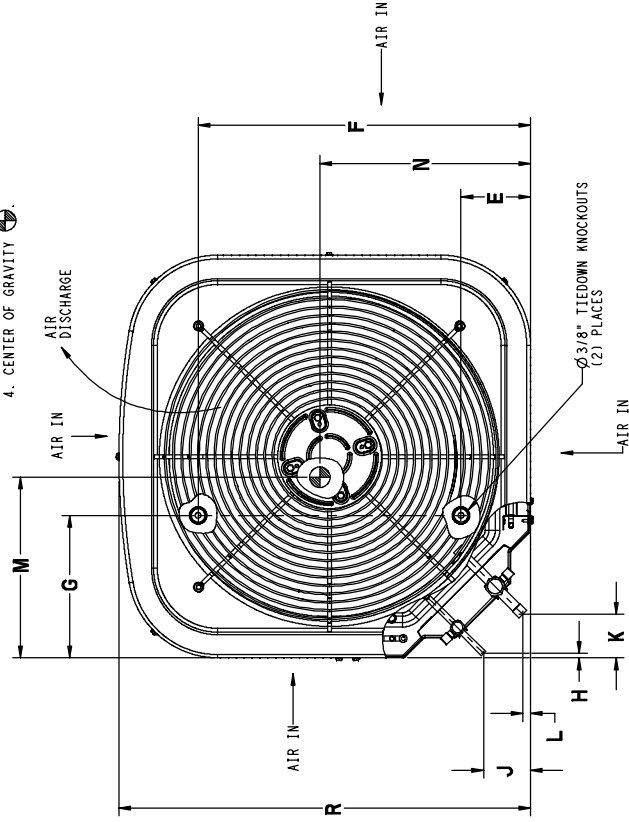
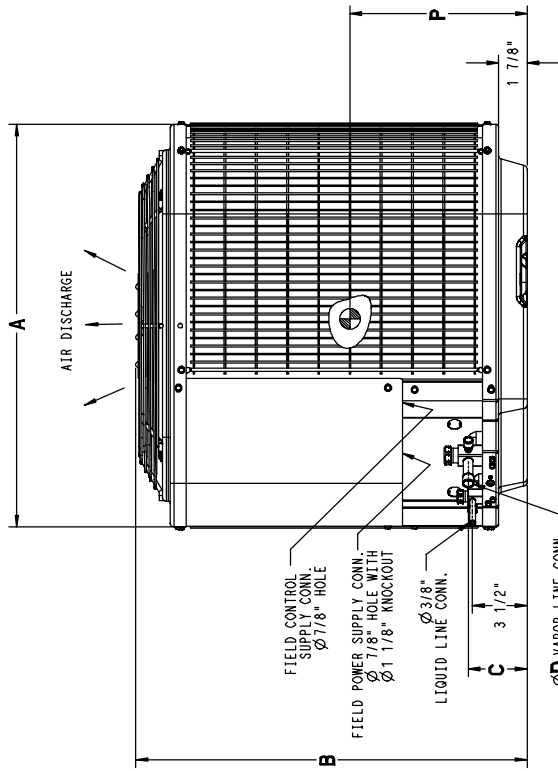
| UNIT | SERIES | ELECTRICAL CHARACTERISTICS | A | B | C | D | E | F | G | H | J | K | L | M | N | P | R | OPERATING WEIGHT | SHIPPING WEIGHT | SHIPPING DIMENSIONS (L x W x H) |
|---------|--------|----------------------------|----------|--------|------|---------|--------|-----------|--------|-------|----|----------|------|---------|---------|---------|----------|------------------|-----------------|---------------------------------|
| PA3A018 | A | X 0 0 | 25" | 3 3/4" | 5/8" | 4 7/16" | 9 1/8" | 21 1/4" | 9 1/8" | 5/16" | 3" | 2 13/16" | 1/2" | 12 1/2" | 12 3/8" | 12 3/8" | 26 5/16" | 117# | 138# | 26 7/8" X 30 1/16" X 32 9/16" |
| PA3A024 | A | X 0 0 | 25" | 3 3/4" | 5/8" | 4 7/16" | 9 1/8" | 21 1/4" | 9 1/8" | 5/16" | 3" | 2 13/16" | 1/2" | 13" | 11 7/8" | 12 3/8" | 26 5/16" | 122# | 143# | 26 7/8" X 30 1/16" X 32 9/16" |
| PA3A030 | A | X 0 0 | 25" | 3 3/4" | 3/4" | 4 7/16" | 9 1/8" | 21 1/4" | 9 1/8" | 5/16" | 3" | 2 13/16" | 1/2" | 13" | 11 7/8" | 12 3/4" | 26 5/16" | 127# | 148# | 26 7/8" X 30 1/16" X 32 9/16" |
| PA3A036 | A | X 0 0 | 35 1/4" | 3 3/4" | 3/4" | 4 7/16" | 9 1/8" | 21 1/4" | 9 1/8" | 5/16" | 3" | 2 13/16" | 1/2" | 12" | 13" | 14 3/4" | 26 5/16" | 151# | 174# | 26 7/8" X 30 1/16" X 39 3/8" |
| PA3A042 | A | X 0 0 | 31 3/16" | 3 7/8" | 7/8" | 6 9/16" | 9 1/8" | 24 11/16" | 9 1/8" | 5/16" | 3" | 2 15/16" | 5/8" | 15 3/4" | 16 1/4" | 13 3/4" | 32 5/16" | 180# | 208# | 32 3/8" X 35 1/2" X 35 15/16" |
| PA3A048 | A | X 0 0 | 31 3/16" | 3 7/8" | 7/8" | 6 9/16" | 9 1/8" | 24 11/16" | 9 1/8" | 5/16" | 3" | 2 15/16" | 5/8" | 14 1/4" | 17 1/4" | 17 1/4" | 32 5/16" | 197# | 225# | 32 3/8" X 35 1/2" X 42 3/4" |
| PA3A060 | A | X 0 0 | 35" | 3 7/8" | 7/8" | 6 9/16" | 9 1/8" | 28 7/16" | 9 1/8" | 5/16" | 3" | 2 15/16" | 5/8" | 19 1/4" | 18 1/2" | 18 3/8" | 35 9/16" | 206# | 240# | 36 1/8" X 39 5/16" X 39 3/8" |

| | | | |
|-------------|---------|--------------|----------|
| 208-230-160 | 230-160 | 208/230-3-60 | 460-3-60 |
|-------------|---------|--------------|----------|

X = YES
O = NO

NOTES:

1. ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT.
48" ABOVE UNIT - 6" ON ONE SIDE - 12" ON REMAINING SIDE,
AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING
MODE IS 55°F, MAX. 125°F.
3. SERIES DESIGNATION IS THE 10TH POSITION OF THE
UNIT MODEL NUMBER.
4. CENTER OF GRAVITY



| UNIT SIZE | MINIMUM MOUNTING PAD DIMENSIONS |
|----------------|---------------------------------|
| 18, 24, 30, 36 | 26" X 26 1/2" |
| 42, 48 | 31 1/2" X 32 1/2" |
| 60 | 35" X 36 1/2" |

RATINGS AND PERFORMANCE

| Unit Size | Indoor Model | Total Cap. BTUH | Factory Supplied Enhancement | SEER | | EER |
|-----------|---------------|-----------------|------------------------------|-----------------|-------|-------|
| | | | | Standard Rating | TDR† | |
| 018 | *CAP**1814A** | 17,500 | TXV | | 13.00 | 11.00 |
| | CAP**2414A** | 17,700 | TXV | | 13.00 | 11.00 |
| | CAP**2417A** | 17,700 | TXV | | 13.00 | 11.00 |
| | CNPF*2418A** | 17,700 | TXV | | 13.00 | 11.00 |
| | CNPH*2417A** | 17,700 | TXV | | 13.00 | 11.00 |
| | CNPV*1814A** | 17,500 | TXV | | 13.00 | 11.00 |
| | CNPV*2414A** | 17,700 | TXV | | 13.00 | 11.00 |
| | CNPV*2417A** | 17,700 | TXV | | 13.00 | 11.00 |
| | CSPH*2412A** | 17,700 | TXV | | 13.00 | 11.00 |
| | FF1ENP018 | 17,400 | TDR&TXV | 13.00 | | 11.00 |
| | FF1ENP024 | 17,600 | TDR&TXV | 13.20 | | 11.00 |
| | PF4MNA019 | 17,600 | TDR&TXV | 14.00 | | 11.70 |
| | PF4MNA025 | 17,900 | TDR&TXV | 14.00 | | 11.70 |
| | PF4MNA018 | 17,400 | TDR&TXV | 13.00 | | 11.00 |
| | PF4MNA024 | 17,500 | TDR&TXV | 13.00 | | 11.00 |
| 024 | *CAP**2414A** | 23,000 | TXV | | 13.00 | 11.00 |
| | CAP**2417A** | 22,800 | TXV | | 13.00 | 11.00 |
| | CAP**3014A** | 23,000 | TXV | | 13.00 | 11.00 |
| | CAP**3017A** | 23,000 | TXV | | 13.00 | 11.00 |
| | CNPF*2418A** | 22,800 | TXV | | 13.00 | 11.00 |
| | CNPH*2417A** | 22,800 | TXV | | 13.00 | 11.00 |
| | CNPH*3017A** | 23,000 | TXV | | 13.00 | 11.00 |
| | CNPV*2414A** | 22,800 | TXV | | 13.00 | 11.00 |
| | CNPV*2417A** | 22,800 | TXV | | 13.00 | 11.00 |
| | CNPV*3014A** | 23,000 | TXV | | 13.00 | 11.00 |
| | CNPV*3017A** | 23,000 | TXV | | 13.00 | 11.00 |
| | CSPH*2412A** | 23,000 | TXV | | 13.00 | 11.00 |
| | CSPH*3012A** | 23,000 | TXV | | 13.00 | 11.00 |
| | FF1ENP024 | 22,600 | TDR&TXV | 13.00 | | 11.00 |
| | FF1ENP030 | 22,600 | TDR&TXV | 13.00 | | 11.00 |
| PF4MNA025 | 23,000 | TDR&TXV | 14.00 | | 11.50 | |
| PF4MNA031 | 23,200 | TDR&TXV | 14.00 | | 11.50 | |
| PF4MNA024 | 22,600 | TDR&TXV | 13.00 | | 11.00 | |
| PF4MNA030 | 22,800 | TDR&TXV | 13.20 | | 11.00 | |
| 030 | *CAP**3014A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CAP**3017A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CAP**3614A** | 27,000 | TXV | | 13.00 | 11.00 |
| | CAP**3617A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CAP**3621A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CNPF*3618A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CNPH*3017A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CNPH*3617A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CNPV*3014A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CNPV*3017A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CNPV*3617A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CNPV*3621A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CSPH*3012A** | 28,000 | TXV | | 13.00 | 11.00 |
| | CSPH*3612A** | 28,000 | TXV | | 13.20 | 11.00 |
| | FF1ENP030 | 27,400 | TDR&TXV | 13.00 | | 11.00 |
| FF1ENP036 | 28,000 | TDR&TXV | 13.20 | | 11.00 | |
| PF4MNA037 | 28,200 | TDR&TXV | 14.00 | | 11.50 | |
| PF4MNA031 | 28,000 | TDR&TXV | 13.50 | | 11.20 | |
| PF4MNA030 | 27,600 | TDR&TXV | 13.00 | | 11.00 | |
| PF4MNA036 | 27,800 | TDR&TXV | 13.00 | | 11.00 | |
| 036 | *CAP**3617A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CAP**3614A** | 33,000 | TXV | | 13.00 | 11.00 |
| | CAP**3621A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CAP**4221A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CAP**4224A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CNPF*3618A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CNPH*3617A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CNPH*4221A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CNPV*3617A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CNPV*3621A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CNPV*4221A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CSPH*3612A** | 34,000 | TXV | | 13.00 | 11.00 |
| | CSPH*4212A** | 34,000 | TXV | | 13.20 | 11.20 |
| | FF1ENP036 | 33,800 | TDR&TXV | 13.00 | | 11.00 |
| | PF4MNA037 | 34,400 | TDR&TXV | 14.00 | | 11.50 |
| PF4MNA043 | 34,800 | TDR&TXV | 14.00 | | 11.50 | |
| PF4MNA036 | 33,800 | TDR&TXV | 13.00 | | 11.00 | |
| PF4MNA042 | 34,400 | TDR&TXV | 13.00 | | 11.00 | |

PA3A

RATINGS AND PERFORMANCE (CONT.)

| Unit Size | Indoor Model | Total Cap. BTUH | Factory Supplied Enhancement | SEER | | EER |
|-----------|---------------|-----------------|------------------------------|-----------------|-------|-------|
| | | | | Standard Rating | TDR† | |
| 042 | *CAP**4221A** | 41,000 | TXV | | 13.00 | 11.00 |
| | CAP**4224A** | 41,000 | TXV | | 13.00 | 11.00 |
| | CAP**4817A** | 40,500 | TXV | | 13.20 | 11.00 |
| | CAP**4821A** | 41,500 | TXV | | 13.20 | 11.00 |
| | CAP**4824A** | 41,500 | TXV | | 13.20 | 11.00 |
| | CNPF*4818A** | 41,500 | TXV | | 13.20 | 11.00 |
| | CNPH*4221A** | 41,000 | TXV | | 13.00 | 11.00 |
| | CNPH*4821A** | 41,500 | TXV | | 13.20 | 11.00 |
| | CNPV*4221A** | 41,000 | TXV | | 13.00 | 11.00 |
| | CNPV*4821A** | 41,500 | TXV | | 13.20 | 11.00 |
| | CNPV*4824A** | 41,500 | TXV | | 13.20 | 11.00 |
| | CSPH*4212A** | 41,000 | TXV | | 13.20 | 11.00 |
| | CSPH*4812A** | 41,500 | TXV | | 13.20 | 11.00 |
| | PF4MNA043 | 41,500 | TDR&TXV | 13.50 | | 11.20 |
| | PF4MNA049 | 42,500 | TDR&TXV | 14.00 | | 11.50 |
| PF4MNA042 | 41,000 | TDR&TXV | 13.00 | | 11.00 | |
| PF4MNA048 | 42,000 | TDR&TXV | 13.20 | | 11.00 | |
| 048 | *CAP**4821A** | 46,000 | TXV | | 13.00 | 11.00 |
| | CAP**4817A** | 45,000 | TXV | | 13.00 | 11.00 |
| | CAP**4824A** | 46,000 | TXV | | 13.00 | 11.00 |
| | CAP**6021A** | 46,000 | TXV | | 13.20 | 11.00 |
| | CAP**6024A** | 47,000 | TXV | | 13.20 | 11.00 |
| | CNPF*4818A** | 45,000 | TXV | | 13.00 | 11.00 |
| | CNPH*4821A** | 46,000 | TXV | | 13.00 | 11.00 |
| | CNPH*6024A** | 47,000 | TXV | | 13.20 | 11.00 |
| | CNPV*4821A** | 46,000 | TXV | | 13.00 | 11.00 |
| | CNPV*4824A** | 46,000 | TXV | | 13.00 | 11.00 |
| | CNPV*6024A** | 47,000 | TXV | | 13.20 | 11.00 |
| | CSPH*4812A** | 46,000 | TXV | | 13.00 | 11.00 |
| | CSPH*6012A** | 47,000 | TXV | | 13.20 | 11.00 |
| | PF4MNA049 | 47,000 | TDR&TXV | 13.50 | | 11.20 |
| | PF4MNA061 | 47,500 | TDR&TXV | 14.00 | | 11.50 |
| PF4MNA060 | 46,500 | TDR&TXV | 13.20 | | 11.00 | |
| PF4MNA048 | 46,000 | TDR&TXV | 13.00 | | 11.00 | |
| 060 | *CAP**6024A** | 57,500 | TXV | | 13.00 | 11.00 |
| | CAP**6021A** | 56,500 | TXV | | 13.00 | 11.00 |
| | CNPH*6024A** | 57,000 | TXV | | 13.00 | 11.00 |
| | CNPV*6024A** | 57,000 | TXV | | 13.00 | 11.00 |
| | CSPH*6012A** | 57,500 | TXV | | 13.00 | 11.00 |
| | PF4MNA061 | 58,000 | TDR&TXV | 13.20 | | 11.00 |
| PF4MNA060 | 56,500 | TDR&TXV | 13.00 | | 11.00 | |

* Tested combination

† In most cases, only 1 method should be used to achieve TDR function. Using more than 1 method in a system may cause degradation in performance. Use either the accessory Time-Delay Relay KAATD0101TDR or a furnace equipped with TDR. Most Carrier furnaces are equipped with TDR.

EER — Energy Efficiency Ratio

SEER — Seasonal Energy Efficiency Ratio

TDR — Time-Delay Relay

TXV — Thermostatic Expansion Valve

NOTES:

1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.
2. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for central air conditioners. Ratings for other combinations are determined under DOE computer simulation procedures.
3. Determine actual CFM values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.
4. Do not apply with capillary tube coils as performance and reliability are significantly affected.

DETAILED COOLING CAPACITIES#

| Evaporator Air | | CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | |
|----------------|------|--|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|
| | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.6) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** |
| CFM | EWB | PA3ANA01B Outdoor Section With CAP**1814A** Indoor Section | | | | | | | | | | | | | | | | | |
| | 72 | 20.46 | 10.25 | 1.21 | 19.55 | 9.92 | 1.36 | 18.59 | 9.57 | 1.53 | 17.62 | 9.22 | 1.71 | 16.57 | 8.86 | 1.91 | 15.40 | 8.45 | 2.13 |
| | 67 | 18.79 | 12.82 | 1.22 | 17.95 | 12.28 | 1.37 | 17.05 | 11.93 | 1.53 | 16.12 | 11.56 | 1.72 | 15.13 | 11.18 | 1.92 | 14.03 | 10.76 | 2.13 |
| | 63†† | 17.57 | 12.26 | 1.24 | 16.77 | 11.91 | 1.38 | 15.91 | 11.55 | 1.54 | 15.02 | 11.17 | 1.72 | 14.06 | 10.78 | 1.92 | 13.01 | 10.35 | 2.13 |
| | 62 | 17.27 | 14.98 | 1.22 | 16.49 | 14.63 | 1.37 | 15.68 | 14.25 | 1.54 | 14.83 | 13.85 | 1.72 | 14.00 | 14.00 | 1.92 | 13.15 | 13.15 | 2.13 |
| | 57 | 16.78 | 16.78 | 1.23 | 16.15 | 16.15 | 1.37 | 15.48 | 15.48 | 1.54 | 14.77 | 14.77 | 1.72 | 14.00 | 14.00 | 1.92 | 13.15 | 13.15 | 2.13 |
| | 72 | 20.79 | 10.74 | 1.24 | 19.83 | 10.40 | 1.39 | 18.83 | 10.05 | 1.56 | 17.83 | 9.70 | 1.74 | 16.76 | 9.34 | 1.94 | 15.55 | 8.93 | 2.16 |
| | 67 | 19.11 | 13.42 | 1.25 | 18.23 | 13.08 | 1.40 | 17.30 | 12.72 | 1.56 | 16.35 | 12.35 | 1.74 | 15.33 | 11.97 | 1.94 | 14.20 | 11.54 | 2.16 |
| | 63†† | 17.89 | 13.02 | 1.26 | 17.05 | 12.67 | 1.41 | 16.17 | 12.30 | 1.57 | 15.25 | 11.92 | 1.75 | 14.27 | 11.52 | 1.95 | 13.19 | 11.08 | 2.16 |
| | 62 | 17.86 | 16.08 | 1.25 | 16.87 | 15.70 | 1.40 | 16.06 | 16.06 | 1.56 | 15.32 | 15.32 | 1.75 | 14.51 | 14.51 | 1.94 | 13.61 | 13.61 | 2.16 |
| | 57 | 17.46 | 17.46 | 1.25 | 16.79 | 16.79 | 1.40 | 16.07 | 16.07 | 1.56 | 15.32 | 15.32 | 1.75 | 14.51 | 14.51 | 1.94 | 13.61 | 13.61 | 2.16 |
| | 72 | 21.03 | 11.21 | 1.27 | 20.02 | 10.86 | 1.42 | 18.99 | 10.51 | 1.58 | 17.97 | 10.16 | 1.77 | 16.88 | 9.79 | 1.97 | 15.65 | 9.38 | 2.18 |
| | 67 | 19.33 | 14.19 | 1.27 | 18.43 | 13.84 | 1.42 | 17.48 | 13.48 | 1.59 | 16.51 | 13.11 | 1.77 | 15.48 | 12.72 | 1.97 | 14.33 | 12.28 | 2.19 |
| | 63†† | 18.12 | 13.74 | 1.29 | 17.26 | 13.38 | 1.44 | 16.36 | 13.01 | 1.60 | 15.42 | 12.63 | 1.78 | 14.42 | 12.22 | 1.97 | 13.33 | 11.76 | 2.19 |
| | 62 | 18.01 | 17.91 | 1.28 | 17.30 | 17.30 | 1.43 | 16.54 | 16.54 | 1.59 | 15.76 | 15.76 | 1.77 | 14.92 | 14.92 | 1.97 | 13.97 | 13.97 | 2.19 |
| | 57 | 18.01 | 18.01 | 1.28 | 17.30 | 17.30 | 1.43 | 16.55 | 16.55 | 1.59 | 15.76 | 15.76 | 1.77 | 14.92 | 14.92 | 1.97 | 13.97 | 13.97 | 2.19 |

| Cooling Indoor Model | Capacity | Power |
|----------------------|----------|-------|
| *CAP**1814A** | 1.00 | 1.00 |
| CAP**2414A** | 1.01 | 1.01 |
| CAP**2417A** | 1.01 | 1.01 |
| GNPF*2418A** | 1.01 | 1.01 |
| CNPH*2417A** | 1.01 | 1.01 |
| CNPV*1814A** | 1.00 | 1.00 |
| CNPV*2414A** | 1.01 | 1.01 |
| CNPV*2417A** | 1.01 | 1.01 |
| CSPH*2412A** | 1.01 | 1.01 |
| FF1ENP018 | 0.99 | 0.99 |
| FF1ENP024 | 1.01 | 1.01 |
| PF4MINA019 | 1.01 | 0.95 |
| PF4MINA025 | 1.02 | 0.96 |
| PF4MINA018 | 0.99 | 0.99 |
| PF4MINA024 | 1.00 | 1.00 |

See notes on pg. 19



DETAILED COOLING CAPACITIES# (CONT.)

| Evaporator Air | | CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | |
|----------------|------|--|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|
| | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.6) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** |
| CFM | EWB | PA3ANA024 Outdoor Section With CAP**2414A** Indoor Section | | | | | | | | | | | | | | | | | |
| | 72 | 27.11 | 14.06 | 1.61 | 25.97 | 13.63 | 1.81 | 24.75 | 13.18 | 2.03 | 23.47 | 12.71 | 2.28 | 22.09 | 12.21 | 2.55 | 20.55 | 11.66 | 2.84 |
| | 67 | 24.89 | 17.33 | 1.61 | 23.81 | 16.89 | 1.81 | 22.66 | 16.42 | 2.03 | 21.45 | 15.93 | 2.28 | 20.15 | 15.41 | 2.55 | 18.73 | 14.85 | 2.85 |
| | 63†† | 23.01 | 16.72 | 1.61 | 21.98 | 16.26 | 1.80 | 20.89 | 15.78 | 2.01 | 19.74 | 15.29 | 2.24 | 18.52 | 14.77 | 2.50 | 17.20 | 14.21 | 2.79 |
| | 62 | 22.86 | 20.58 | 1.61 | 21.86 | 20.11 | 1.81 | 20.81 | 19.61 | 2.04 | 19.72 | 19.08 | 2.28 | 18.65 | 18.65 | 2.56 | 17.57 | 17.57 | 2.86 |
| | 57 | 22.24 | 22.24 | 1.61 | 21.43 | 21.43 | 1.82 | 20.56 | 20.56 | 2.04 | 19.64 | 19.64 | 2.28 | 18.65 | 18.65 | 2.56 | 17.57 | 17.57 | 2.86 |
| | 72 | 27.54 | 14.74 | 1.64 | 26.35 | 14.31 | 1.84 | 25.08 | 13.85 | 2.06 | 23.76 | 13.38 | 2.31 | 22.34 | 12.88 | 2.58 | 20.75 | 12.32 | 2.88 |
| | 67 | 25.31 | 18.44 | 1.64 | 24.19 | 17.99 | 1.85 | 23.00 | 17.52 | 2.07 | 21.75 | 17.03 | 2.31 | 20.42 | 16.50 | 2.59 | 18.96 | 15.93 | 2.88 |
| | 63†† | 23.42 | 17.76 | 1.64 | 22.35 | 17.30 | 1.83 | 21.22 | 16.82 | 2.04 | 20.04 | 16.32 | 2.28 | 18.78 | 15.79 | 2.54 | 17.43 | 15.22 | 2.82 |
| | 62 | 23.37 | 22.10 | 1.65 | 22.36 | 21.60 | 1.85 | 21.35 | 21.35 | 2.07 | 20.38 | 20.38 | 2.32 | 19.33 | 19.33 | 2.59 | 18.18 | 18.18 | 2.89 |
| | 57 | 23.14 | 23.14 | 1.65 | 22.28 | 22.28 | 1.85 | 21.36 | 21.36 | 2.07 | 20.38 | 20.38 | 2.32 | 19.33 | 19.33 | 2.59 | 18.18 | 18.18 | 2.89 |
| | 72 | 27.83 | 15.39 | 1.68 | 26.61 | 14.95 | 1.88 | 25.31 | 14.49 | 2.10 | 23.96 | 14.02 | 2.34 | 22.50 | 13.51 | 2.61 | 20.87 | 12.95 | 2.91 |
| | 67 | 25.61 | 19.51 | 1.68 | 24.46 | 19.05 | 1.88 | 23.25 | 18.57 | 2.10 | 21.97 | 18.08 | 2.35 | 20.61 | 17.54 | 2.62 | 19.12 | 16.96 | 2.92 |
| | 63†† | 23.72 | 18.76 | 1.68 | 22.62 | 18.30 | 1.87 | 21.47 | 17.81 | 2.08 | 20.26 | 17.30 | 2.31 | 18.98 | 16.76 | 2.57 | 17.60 | 16.16 | 2.86 |
| | 62 | 23.85 | 23.85 | 1.68 | 22.96 | 22.96 | 1.88 | 22.00 | 22.00 | 2.10 | 20.98 | 20.98 | 2.35 | 19.87 | 19.87 | 2.62 | 18.66 | 18.66 | 2.92 |
| | 57 | 23.87 | 23.87 | 1.68 | 22.97 | 22.97 | 1.88 | 22.00 | 22.00 | 2.10 | 20.98 | 20.98 | 2.35 | 19.87 | 19.87 | 2.62 | 18.66 | 18.66 | 2.92 |

| Cooling Indoor Model | Capacity | Power |
|----------------------|----------|-------|
| *CAP**2414A** | 1.00 | 1.00 |
| CAP**2417A** | 0.99 | 0.99 |
| CAP**3014A** | 1.00 | 1.00 |
| CAP**3017A** | 1.00 | 1.00 |
| CNPF*2418A** | 0.99 | 0.99 |
| CNPH*2417A** | 0.99 | 0.99 |
| CNPH*3017A** | 1.00 | 1.00 |
| CNPV*2414A** | 0.99 | 0.99 |
| CNPV*2417A** | 0.99 | 0.99 |
| CNPV*3014A** | 1.00 | 1.00 |
| CNPV*3017A** | 1.00 | 1.00 |
| CSPH*2412A** | 1.00 | 1.00 |
| CSPH*3012A** | 1.00 | 1.00 |
| FF1ENP024 | 0.98 | 0.98 |
| FF1ENP030 | 0.98 | 0.98 |
| PF4MNA025 | 1.00 | 0.96 |
| PF4MNA031 | 1.01 | 0.96 |
| PF4MNA024 | 0.98 | 0.98 |
| PF4MNA030 | 0.99 | 0.99 |

See notes on pg. 19

DETAILED COOLING CAPACITIES# (CONT.)

| Evaporator Air | | CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | |
|----------------|------|--|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|
| | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.6) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** |
| CFM | EWB | PA3ANA030 Outdoor Section With CAP**3014A** Indoor Section | | | | | | | | | | | | | | | | | |
| | 72 | 33.02 | 17.24 | 2.09 | 31.65 | 16.73 | 2.32 | 30.20 | 16.20 | 2.57 | 28.64 | 15.64 | 2.84 | 26.94 | 15.04 | 3.14 | 25.07 | 14.38 | 3.47 |
| | 67 | 30.33 | 21.40 | 2.09 | 29.02 | 20.87 | 2.31 | 27.62 | 20.31 | 2.56 | 26.14 | 19.72 | 2.84 | 24.53 | 19.09 | 3.14 | 22.82 | 18.43 | 3.47 |
| 875 | 63†† | 28.36 | 20.76 | 2.09 | 27.08 | 20.21 | 2.31 | 25.73 | 19.62 | 2.56 | 24.30 | 19.01 | 2.84 | 22.76 | 18.37 | 3.15 | 21.15 | 17.69 | 3.47 |
| | 62 | 27.91 | 25.53 | 2.09 | 26.70 | 24.96 | 2.31 | 25.43 | 24.34 | 2.56 | 24.17 | 24.17 | 2.84 | 22.93 | 22.93 | 3.14 | 21.61 | 21.61 | 3.47 |
| | 57 | 27.41 | 27.41 | 2.09 | 26.40 | 26.40 | 2.31 | 25.32 | 25.32 | 2.56 | 24.17 | 24.17 | 2.84 | 22.93 | 22.93 | 3.14 | 21.61 | 21.61 | 3.47 |
| | 72 | 33.47 | 18.07 | 2.14 | 32.06 | 17.57 | 2.36 | 30.56 | 17.03 | 2.61 | 28.97 | 16.47 | 2.89 | 27.21 | 15.86 | 3.19 | 25.29 | 15.20 | 3.52 |
| | 67 | 30.77 | 22.77 | 2.13 | 29.43 | 22.25 | 2.36 | 28.00 | 21.68 | 2.61 | 26.48 | 21.09 | 2.89 | 24.84 | 20.45 | 3.19 | 23.08 | 19.77 | 3.52 |
| 1000 | 63†† | 28.81 | 22.06 | 2.13 | 27.51 | 21.50 | 2.36 | 26.12 | 20.92 | 2.61 | 24.65 | 20.30 | 2.89 | 23.07 | 19.64 | 3.19 | 21.42 | 18.94 | 3.52 |
| | 62 | 28.53 | 27.37 | 2.13 | 27.37 | 27.37 | 2.36 | 26.25 | 26.25 | 2.61 | 25.04 | 25.04 | 2.89 | 23.73 | 23.73 | 3.19 | 22.32 | 22.32 | 3.52 |
| | 57 | 28.45 | 28.45 | 2.13 | 27.39 | 27.39 | 2.36 | 26.25 | 26.25 | 2.61 | 25.04 | 25.04 | 2.89 | 23.73 | 23.73 | 3.19 | 22.32 | 22.32 | 3.52 |
| | 72 | 33.78 | 18.86 | 2.19 | 32.34 | 18.35 | 2.41 | 30.81 | 17.82 | 2.66 | 29.18 | 17.25 | 2.94 | 27.39 | 16.64 | 3.24 | 25.42 | 15.97 | 3.57 |
| | 67 | 31.10 | 24.09 | 2.18 | 29.73 | 23.56 | 2.41 | 28.27 | 22.99 | 2.66 | 26.73 | 22.39 | 2.94 | 25.06 | 21.73 | 3.24 | 23.27 | 21.02 | 3.56 |
| 1125 | 63†† | 29.15 | 23.29 | 2.18 | 27.82 | 22.73 | 2.41 | 26.40 | 22.14 | 2.66 | 24.91 | 21.51 | 2.94 | 23.31 | 20.83 | 3.24 | 21.64 | 20.10 | 3.57 |
| | 62 | 29.28 | 29.28 | 2.18 | 28.17 | 28.17 | 2.41 | 26.99 | 26.99 | 2.66 | 25.73 | 25.73 | 2.93 | 24.36 | 24.36 | 3.24 | 22.88 | 22.88 | 3.56 |
| | 57 | 29.28 | 29.28 | 2.18 | 28.18 | 28.18 | 2.41 | 26.99 | 26.99 | 2.66 | 25.73 | 25.73 | 2.93 | 24.36 | 24.36 | 3.24 | 22.88 | 22.88 | 3.56 |

| Cooling Indoor Model | Capacity | Power |
|----------------------|----------|-------|
| *CAP**3014A** | 1.00 | 1.00 |
| CAP**3017A** | 1.00 | 1.00 |
| CAP**3614A** | 0.96 | 0.96 |
| CAP**3617A** | 1.00 | 1.00 |
| CAP**3621A** | 1.00 | 1.00 |
| CNPF*3618A** | 1.00 | 1.00 |
| CNPH*3017A** | 1.00 | 1.00 |
| CNPH*3617A** | 1.00 | 1.00 |
| CNPV*3014A** | 1.00 | 1.00 |
| CNPV*3017A** | 1.00 | 1.00 |
| CNPV*3617A** | 1.00 | 1.00 |
| CNPV*3621A** | 1.00 | 1.00 |
| CSPH*3012A** | 1.00 | 1.00 |
| CSPH*3612A** | 1.00 | 1.00 |
| FFIENP030 | 0.98 | 0.98 |
| FFIENP036 | 1.00 | 1.00 |
| PF4MNA037 | 1.01 | 0.96 |
| PF4MNA031 | 1.00 | 0.98 |
| PF4MNA030 | 0.99 | 0.99 |
| PF4MNA036 | 0.99 | 0.99 |

See notes on pg. 19



DETAILED COOLING CAPACITIES# (CONT.)

| Evaporator Air | | CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | |
|----------------|------|--|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|
| | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.6) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** |
| CFM | EWB | PA3ANA036 Outdoor Section With CAP**3617A** Indoor Section | | | | | | | | | | | | | | | | | |
| | 72 | 40.12 | 20.30 | 2.48 | 38.42 | 19.68 | 2.74 | 36.61 | 19.04 | 3.03 | 34.70 | 18.36 | 3.35 | 32.62 | 17.64 | 3.71 | 30.32 | 16.85 | 4.09 |
| | 67 | 36.62 | 25.05 | 2.47 | 35.03 | 24.41 | 2.73 | 33.34 | 23.75 | 3.02 | 31.55 | 23.05 | 3.34 | 29.62 | 22.32 | 3.70 | 27.50 | 21.51 | 4.09 |
| 1050 | 63†† | 34.09 | 24.23 | 2.47 | 32.58 | 23.59 | 2.73 | 30.98 | 22.91 | 3.01 | 29.29 | 22.21 | 3.33 | 27.48 | 21.47 | 3.68 | 25.49 | 20.65 | 4.07 |
| | 62 | 33.54 | 29.77 | 2.46 | 32.11 | 29.11 | 2.72 | 30.61 | 28.39 | 3.01 | 29.06 | 29.06 | 3.34 | 27.62 | 27.62 | 3.70 | 25.99 | 25.99 | 4.09 |
| | 57 | 32.88 | 32.88 | 2.46 | 31.70 | 31.70 | 2.72 | 30.44 | 30.44 | 3.01 | 29.09 | 29.09 | 3.34 | 27.63 | 27.63 | 3.70 | 26.00 | 26.00 | 4.09 |
| | 72 | 40.72 | 21.24 | 2.54 | 38.96 | 20.62 | 2.80 | 37.09 | 19.97 | 3.09 | 35.11 | 19.29 | 3.41 | 32.97 | 18.56 | 3.76 | 30.60 | 17.76 | 4.15 |
| | 67 | 37.19 | 26.58 | 2.53 | 35.54 | 25.94 | 2.79 | 33.80 | 25.28 | 3.08 | 31.96 | 24.58 | 3.40 | 29.98 | 23.83 | 3.76 | 27.81 | 23.01 | 4.15 |
| 1200 | 63†† | 34.65 | 25.67 | 2.53 | 33.08 | 25.02 | 2.78 | 31.43 | 24.35 | 3.07 | 29.69 | 23.63 | 3.39 | 27.83 | 22.87 | 3.74 | 25.79 | 22.04 | 4.12 |
| | 62 | 34.30 | 31.85 | 2.52 | 32.84 | 32.84 | 2.78 | 31.55 | 31.55 | 3.07 | 30.12 | 30.12 | 3.40 | 28.56 | 28.56 | 3.75 | 26.83 | 26.83 | 4.14 |
| | 57 | 34.15 | 34.15 | 2.52 | 32.89 | 32.89 | 2.78 | 31.55 | 31.55 | 3.07 | 30.12 | 30.12 | 3.40 | 28.56 | 28.56 | 3.75 | 26.83 | 26.83 | 4.14 |
| | 72 | 41.16 | 22.13 | 2.60 | 39.34 | 21.50 | 2.86 | 37.42 | 20.84 | 3.14 | 35.40 | 20.16 | 3.47 | 33.21 | 19.42 | 3.82 | 30.78 | 18.61 | 4.21 |
| | 67 | 37.62 | 28.06 | 2.59 | 35.93 | 27.42 | 2.85 | 34.15 | 26.74 | 3.14 | 32.27 | 26.03 | 3.46 | 30.25 | 25.26 | 3.81 | 28.05 | 24.41 | 4.20 |
| 1350 | 63†† | 35.07 | 27.06 | 2.58 | 33.47 | 26.41 | 2.84 | 31.78 | 25.72 | 3.13 | 30.00 | 24.99 | 3.45 | 28.10 | 24.20 | 3.80 | 26.04 | 23.33 | 4.18 |
| | 62 | 35.18 | 35.18 | 2.58 | 33.86 | 33.86 | 2.84 | 32.45 | 32.45 | 3.13 | 30.95 | 30.95 | 3.46 | 29.31 | 29.31 | 3.81 | 27.50 | 27.50 | 4.20 |
| | 57 | 35.19 | 35.19 | 2.58 | 33.86 | 33.86 | 2.84 | 32.46 | 32.46 | 3.13 | 30.95 | 30.95 | 3.46 | 29.31 | 29.31 | 3.81 | 27.50 | 27.50 | 4.20 |

| Cooling Indoor Model | Capacity | Power |
|----------------------|----------|-------|
| *CAP**3617A** | 1.00 | 1.00 |
| CAP**3614A** | 0.97 | 0.97 |
| CAP**3621A** | 1.00 | 1.00 |
| CAP**4221A** | 1.00 | 1.00 |
| CAP**4224A** | 1.00 | 1.00 |
| CNPF*3618A** | 1.00 | 1.00 |
| CNPH*4221A** | 1.00 | 1.00 |
| CNPH*4221A** | 1.00 | 1.00 |
| CNPV*3617A** | 1.00 | 1.00 |
| CNPV*3621A** | 1.00 | 1.00 |
| CNPV*4221A** | 1.00 | 1.00 |
| CSPH*3612A** | 1.00 | 1.00 |
| CSPH*4212A** | 1.00 | 0.98 |
| FF1ENP036 | 0.99 | 0.99 |
| PF4MNA037 | 1.01 | 0.97 |
| PF4MNA043 | 1.02 | 0.98 |
| PF4MNA036 | 0.99 | 0.99 |
| PF4MNA042 | 1.01 | 1.01 |

See notes on pg. 19

DETAILED COOLING CAPACITIES# (CONT.)

| Evaporator Air | | CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | |
|----------------|-----|--|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|
| CFM | EWB | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.6) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** |
| | | PA3ANA042 Outdoor Section With CAP**4221A** Indoor Section | | | | | | | | | | | | | | | | | |
| | | 72 | 48.51 | 24.39 | 3.33 | 46.40 | 23.62 | 44.17 | 22.81 | 4.08 | 41.83 | 21.97 | 4.51 | 39.30 | 21.08 | 4.99 | 36.50 | 20.10 | 5.51 |
| | | 67 | 44.49 | 30.01 | 3.31 | 42.53 | 29.22 | 40.46 | 28.40 | 4.06 | 38.30 | 27.54 | 4.50 | 35.96 | 26.63 | 4.98 | 33.41 | 25.66 | 5.51 |
| 1225 | | 63†† | 41.63 | 29.16 | 3.35 | 39.79 | 28.36 | 37.84 | 27.52 | 4.08 | 35.77 | 26.64 | 4.51 | 33.56 | 25.72 | 4.97 | 31.13 | 24.72 | 5.48 |
| | | 62 | 40.85 | 35.60 | 3.29 | 39.08 | 34.79 | 37.24 | 33.93 | 4.04 | 35.33 | 33.01 | 4.48 | 33.39 | 33.39 | 4.97 | 31.44 | 31.44 | 5.50 |
| | | 57 | 39.76 | 39.76 | 3.29 | 38.32 | 38.32 | 36.79 | 36.79 | 4.04 | 35.17 | 35.17 | 4.48 | 33.41 | 33.41 | 4.97 | 31.45 | 31.45 | 5.50 |
| | | 72 | 49.22 | 25.47 | 3.40 | 47.02 | 24.68 | 44.72 | 23.86 | 4.15 | 42.30 | 23.02 | 4.59 | 39.69 | 22.11 | 5.07 | 36.79 | 21.13 | 5.59 |
| | | 67 | 45.18 | 31.78 | 3.38 | 43.15 | 30.97 | 41.00 | 30.13 | 4.13 | 38.76 | 29.28 | 4.57 | 36.37 | 28.37 | 5.05 | 33.74 | 27.37 | 5.58 |
| 1400 | | 63†† | 42.33 | 30.82 | 3.44 | 40.41 | 30.00 | 38.38 | 29.15 | 4.17 | 36.26 | 28.28 | 4.59 | 33.98 | 27.34 | 5.06 | 31.48 | 26.32 | 5.56 |
| | | 62 | 41.71 | 38.05 | 3.37 | 39.92 | 37.18 | 38.04 | 38.04 | 4.12 | 36.38 | 36.38 | 4.56 | 34.50 | 34.50 | 5.05 | 32.41 | 32.41 | 5.58 |
| | | 57 | 41.28 | 41.28 | 3.37 | 39.74 | 39.74 | 38.11 | 38.11 | 4.12 | 36.38 | 36.38 | 4.56 | 34.50 | 34.50 | 5.05 | 32.41 | 32.41 | 5.58 |
| | | 72 | 49.76 | 26.51 | 3.48 | 47.49 | 25.71 | 45.12 | 24.89 | 4.23 | 42.63 | 24.03 | 4.67 | 39.95 | 23.12 | 5.14 | 36.99 | 22.12 | 5.66 |
| | | 67 | 45.71 | 33.49 | 3.46 | 43.61 | 32.68 | 41.42 | 31.85 | 4.21 | 39.13 | 30.98 | 4.65 | 36.68 | 30.05 | 5.13 | 33.99 | 29.01 | 5.65 |
| 1575 | | 63†† | 42.86 | 32.43 | 3.52 | 40.89 | 31.62 | 38.82 | 30.77 | 4.25 | 36.64 | 29.88 | 4.68 | 34.31 | 28.92 | 5.14 | 31.77 | 27.86 | 5.64 |
| | | 62 | 42.55 | 42.13 | 3.45 | 40.89 | 40.89 | 39.17 | 39.17 | 4.20 | 37.34 | 37.34 | 4.64 | 35.37 | 35.37 | 5.12 | 33.16 | 33.16 | 5.65 |
| | | 57 | 42.52 | 42.52 | 3.45 | 40.89 | 40.89 | 39.17 | 39.17 | 4.20 | 37.35 | 37.35 | 4.64 | 35.37 | 35.37 | 5.12 | 33.16 | 33.16 | 5.65 |

| Cooling Indoor Model | Capacity | Power |
|----------------------|----------|-------|
| *CAP**4221A** | 1.00 | 1.00 |
| CAP**4224A** | 1.00 | 1.00 |
| CAP**4817A** | 0.99 | 0.99 |
| CAP**4821A** | 1.01 | 1.01 |
| CAP**4824A** | 1.01 | 1.01 |
| CNPF*4818A** | 1.01 | 1.01 |
| CNPH*4221A** | 1.00 | 1.00 |
| CNPH*4821A** | 1.01 | 1.01 |
| CNPV*4221A** | 1.00 | 1.00 |
| CNPV*4821A** | 1.01 | 1.01 |
| CNPV*4824A** | 1.01 | 1.01 |
| CSPH*4212A** | 1.00 | 1.00 |
| CSPH*4812A** | 1.01 | 1.01 |
| PF4MNA043 | 1.01 | 0.99 |
| PF4MNA049 | 1.04 | 0.99 |
| PF4MNA042 | 1.00 | 1.00 |
| PF4MNA048 | 1.02 | 1.02 |

See notes on pg. 19



DETAILED COOLING CAPACITIES# (CONT.)

| Evaporator Air | | CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | |
|----------------|------|--|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|
| | | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.6) | | | 115 (46.1) | | | 125 (51.7) | | |
| | | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** |
| CFM | EWB | PA3ANA04B Outdoor Section With CAP**4821A** Indoor Section | | | | | | | | | | | | | | | | | |
| | 72 | 55.04 | 28.89 | 3.35 | 52.62 | 27.94 | 3.75 | 50.08 | 26.94 | 4.20 | 47.38 | 25.90 | 4.72 | 44.49 | 24.80 | 5.30 | 41.25 | 23.59 | 6.01 |
| | 67 | 49.96 | 35.01 | 3.35 | 47.63 | 34.03 | 3.75 | 45.27 | 33.02 | 4.21 | 42.77 | 31.96 | 4.73 | 40.10 | 30.85 | 5.33 | 37.08 | 29.60 | 6.08 |
| 1400 | 63†† | 46.24 | 33.83 | 3.36 | 44.14 | 32.84 | 3.75 | 41.92 | 31.82 | 4.19 | 39.56 | 30.75 | 4.69 | 37.06 | 29.63 | 5.25 | 34.28 | 28.40 | 5.96 |
| | 62 | 45.26 | 41.18 | 3.35 | 43.30 | 40.33 | 3.76 | 41.26 | 39.46 | 4.22 | 39.15 | 38.58 | 4.74 | 37.27 | 37.27 | 5.34 | 35.05 | 35.05 | 6.09 |
| | 57 | 44.65 | 44.65 | 3.35 | 42.99 | 42.99 | 3.76 | 41.23 | 41.23 | 4.22 | 39.35 | 39.35 | 4.74 | 37.33 | 37.33 | 5.34 | 35.06 | 35.06 | 6.09 |
| | 72 | 56.06 | 30.07 | 3.42 | 53.54 | 29.10 | 3.82 | 50.89 | 28.09 | 4.27 | 48.09 | 27.03 | 4.79 | 45.09 | 25.91 | 5.36 | 41.76 | 24.68 | 6.06 |
| | 67 | 50.79 | 36.87 | 3.42 | 48.45 | 35.88 | 3.82 | 46.00 | 34.85 | 4.28 | 43.40 | 33.77 | 4.80 | 40.63 | 32.63 | 5.39 | 37.50 | 31.37 | 6.14 |
| 1600 | 63†† | 47.09 | 35.56 | 3.44 | 44.89 | 34.56 | 3.82 | 42.59 | 33.52 | 4.26 | 40.14 | 32.43 | 4.76 | 37.54 | 31.29 | 5.33 | 34.64 | 30.03 | 6.03 |
| | 62 | 46.36 | 44.07 | 3.42 | 44.40 | 43.27 | 3.83 | 42.52 | 42.52 | 4.17 | 40.77 | 40.77 | 4.81 | 38.63 | 38.63 | 5.40 | 36.19 | 36.19 | 6.15 |
| | 57 | 46.41 | 46.41 | 3.42 | 44.64 | 44.64 | 3.83 | 42.77 | 42.77 | 4.28 | 40.78 | 40.78 | 4.81 | 38.63 | 38.63 | 5.40 | 36.19 | 36.19 | 6.15 |
| | 72 | 56.83 | 31.14 | 3.49 | 54.22 | 30.16 | 3.89 | 51.49 | 29.13 | 4.34 | 48.61 | 28.06 | 4.85 | 45.53 | 26.92 | 5.43 | 42.11 | 25.69 | 6.12 |
| | 67 | 51.48 | 38.59 | 3.49 | 49.06 | 37.58 | 3.89 | 46.53 | 36.53 | 4.35 | 43.86 | 35.44 | 4.87 | 41.00 | 34.28 | 5.46 | 37.80 | 33.04 | 6.20 |
| 1800 | 63†† | 47.72 | 37.16 | 3.51 | 45.46 | 36.14 | 3.90 | 43.08 | 35.08 | 4.34 | 40.56 | 33.98 | 4.83 | 37.88 | 32.81 | 5.40 | 34.96 | 31.67 | 6.11 |
| | 62 | 47.45 | 46.93 | 3.50 | 45.69 | 45.69 | 3.90 | 44.03 | 44.03 | 4.36 | 41.94 | 41.94 | 4.88 | 39.69 | 39.69 | 5.47 | 37.12 | 37.12 | 6.21 |
| | 57 | 47.87 | 47.87 | 3.49 | 46.01 | 46.01 | 3.90 | 44.04 | 44.04 | 4.36 | 41.95 | 41.95 | 4.88 | 39.69 | 39.69 | 5.47 | 37.13 | 37.13 | 6.21 |

| Cooling Indoor Model | Capacity | Power | Furnace Model |
|----------------------|----------|-------|---------------|
| *CAP**4821A** | 1.00 | 1.00 | |
| CAP**4817A** | 0.98 | 0.98 | |
| CAP**4824A** | 1.00 | 1.00 | |
| CAP**6021A** | 1.00 | 1.00 | |
| CAP**6024A** | 1.02 | 1.02 | |
| CNPF*4818A** | 0.98 | 0.98 | |
| CNPF*4821A** | 1.00 | 1.00 | |
| CNPF*6024A** | 1.02 | 1.02 | |
| CNPF*4821A** | 1.00 | 1.00 | |
| CNPF*4824A** | 1.00 | 1.00 | |
| CNPF*6024A** | 1.02 | 1.02 | |
| CSPH*4812A** | 1.00 | 1.00 | |
| CSPH*6012A** | 1.02 | 1.02 | |
| PF4MNA049 | 1.02 | 1.00 | |
| PF4MNA061 | 1.03 | 0.99 | |
| PF4MNA060 | 1.01 | 1.01 | |
| PF4MNA048 | 1.00 | 1.00 | |

See notes on pg. 19

DETAILED COOLING CAPACITIES# (CONT.)

| Evaporator Air | | CONDENSER ENTERING AIR TEMPERATURES °F (°C) | | | | | | | | | | | | | | | | | | |
|----------------|-----|--|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|-----------------|-------|-------------------|------|
| CFM | EWB | 75 (23.9) | | | 85 (29.4) | | | 95 (35) | | | 105 (40.6) | | | 115 (46.1) | | | 125 (51.7) | | | |
| | | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | Capacity MBtuht | Sens† | Total System KW** | |
| | | PA3ANA060 Outdoor Section With CAP**6024A** Indoor Section | | | | | | | | | | | | | | | | | | |
| | | 72 | 67.80 | 34.89 | 4.35 | 64.83 | 33.80 | 4.80 | 61.64 | 32.64 | 5.29 | 58.24 | 31.43 | 5.83 | 54.52 | 30.11 | 6.41 | 50.31 | 28.65 | 7.04 |
| | | 67 | 62.53 | 43.30 | 4.28 | 59.78 | 42.18 | 4.73 | 56.82 | 41.00 | 5.22 | 53.89 | 39.76 | 5.76 | 50.29 | 38.43 | 6.35 | 46.47 | 36.96 | 6.99 |
| | | 63†† | 58.72 | 42.13 | 4.23 | 56.15 | 41.01 | 4.68 | 53.37 | 39.81 | 5.17 | 50.43 | 38.56 | 5.71 | 47.26 | 37.23 | 6.31 | 43.72 | 35.76 | 6.95 |
| | | 62 | 57.74 | 51.63 | 4.22 | 55.26 | 50.49 | 4.66 | 52.60 | 49.24 | 5.16 | 49.85 | 49.43 | 5.71 | 47.17 | 47.17 | 6.31 | 44.20 | 44.20 | 6.96 |
| | | 57 | 56.44 | 56.44 | 4.20 | 54.39 | 54.39 | 4.65 | 52.16 | 52.16 | 5.15 | 49.79 | 49.79 | 5.71 | 47.18 | 47.18 | 6.31 | 44.20 | 44.20 | 6.96 |
| | | 72 | 68.70 | 36.53 | 4.46 | 65.64 | 35.43 | 4.91 | 62.33 | 34.26 | 5.40 | 58.81 | 33.03 | 5.94 | 54.97 | 31.69 | 6.52 | 50.63 | 30.21 | 7.14 |
| | | 67 | 63.42 | 45.98 | 4.39 | 60.56 | 44.86 | 4.83 | 57.50 | 43.66 | 5.33 | 54.27 | 42.41 | 5.87 | 50.76 | 41.06 | 6.46 | 46.84 | 39.55 | 7.09 |
| | | 63†† | 59.63 | 44.67 | 4.34 | 56.94 | 43.52 | 4.78 | 54.07 | 42.32 | 5.28 | 51.04 | 41.05 | 5.82 | 47.76 | 39.69 | 6.41 | 44.11 | 38.17 | 7.06 |
| | | 62 | 58.86 | 55.26 | 4.33 | 56.34 | 55.78 | 4.78 | 53.88 | 53.88 | 5.28 | 51.35 | 51.35 | 5.83 | 48.55 | 48.55 | 6.42 | 45.37 | 45.37 | 7.07 |
| | | 57 | 58.44 | 58.44 | 4.32 | 56.26 | 56.26 | 4.78 | 53.88 | 53.88 | 5.28 | 51.35 | 51.35 | 5.83 | 48.56 | 48.56 | 6.42 | 45.38 | 45.38 | 7.07 |
| | | 72 | 69.36 | 38.09 | 4.57 | 66.19 | 36.98 | 5.01 | 62.79 | 35.79 | 5.50 | 59.18 | 34.55 | 6.04 | 55.24 | 33.21 | 6.62 | 50.79 | 31.71 | 7.24 |
| | | 67 | 64.04 | 48.55 | 4.49 | 61.12 | 47.42 | 4.94 | 57.98 | 46.21 | 5.43 | 54.67 | 44.94 | 5.97 | 51.08 | 43.55 | 6.56 | 47.07 | 41.97 | 7.19 |
| | | 63†† | 60.27 | 47.08 | 4.44 | 57.52 | 45.93 | 4.89 | 54.56 | 44.70 | 5.38 | 51.46 | 43.41 | 5.92 | 48.11 | 42.01 | 6.51 | 44.39 | 40.42 | 7.16 |
| | | 62 | 60.07 | 60.07 | 4.44 | 57.75 | 57.75 | 4.89 | 55.24 | 55.24 | 5.39 | 52.57 | 52.57 | 5.94 | 49.63 | 49.63 | 6.54 | 46.28 | 46.28 | 7.18 |
| | | 57 | 60.07 | 60.07 | 4.44 | 57.75 | 57.75 | 4.89 | 55.25 | 55.25 | 5.39 | 52.58 | 52.58 | 5.94 | 49.64 | 49.64 | 6.54 | 46.28 | 46.28 | 7.18 |

| Cooling Indoor Model | Capacity | Power | Furnace Model |
|----------------------|----------|-------|---------------|
| *CAP**6024A** | 1.00 | 1.00 | |
| CAP**6021A** | 0.98 | 0.98 | |
| CNPH*6024A** | 0.99 | 0.99 | |
| CNPV*6024A** | 0.99 | 0.99 | |
| CSPH*6012A** | 1.00 | 1.00 | |
| PF4MNA061 | 1.01 | 1.01 | |
| PF4MNA060 | 0.98 | 0.98 | |

Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per ARI standard 210/240-94. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

* Tested combination.

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

‡ Sensible capacities shown are based on 80° F (27° C) entering air at the indoor coil. For sensible capacities at other than 80° F (27° C), deduct 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80° F (27° C), or add 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80° F (27° C).

When the required data falls between the published data, interpolation may be performed.

** System kw is total of indoor and outdoor unit kilowatts.

†† At TVA rating indoor condition (75° F edb/63° F ewb). All other indoor air temperatures are at 80° F edb.



SYSTEM DESIGN

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. Minimum outdoor operating air temperature without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature is 115°F (46.1°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. Maximum elevation of indoor coil above or below base of outdoor unit is: indoor coil above = 80 ft (24.38 m), indoor coil below = 200 ft (60.96).
6. For interconnecting refrigerant tube lengths greater than 80 ft (24.38 m) horizontal or 20 ft (6.10 m) vertical differential, consult Residential Split System Long-Line Application Guideline available from equipment distributor.
7. Crankcase heater required when interconnecting refrigerant tube length exceeds 80 ft (24.38 m).
8. If any refrigerant tubing is buried, provide a minimum 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.
9. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.