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**TEMPSTAR®**

Heating and Cooling Products

# RAS



## PACKAGED ROOFTOP ELECTRIC COOLING R410-A, 3 TO 25 TONS



### PERFORMANCE DATA - Single Stage Cooling

| Model Number   | Dedicated Airflow | Nominal Capacity Tons | COOLING         |      | Total Power (kW) | Unit Dimensions H x W x L Inches [mm]            | Weight lb. [kg] |
|----------------|-------------------|-----------------------|-----------------|------|------------------|--|-----------------|
|                |                   |                       | Net Cap. (Btuh) | EER  |                  |  |                 |
| RAS091*0AA0AAA | Vertical          | 7 1/2                 | 88,000          | 11.2 | 8                | 41-3/8" x 59-1/2" x 88-1/8" (1051 x 1510 x 2238) | 705 (320)       |
| RAS121*0AA0AAA | Horizontal        | 10                    | 117,000         | 11.2 | 10.6             | 49-3/8" x 59-1/2" x 88-1/8" (1253 x 1510 x 2238) | 855 (388)       |

### PERFORMANCE DATA - Dual Compressors with Two Stage Cooling

| Model Number   | Dedicated Airflow | Nominal Capacity Tons | COOLING         |      | Total Power (kW) | Unit Dimensions H x W x L Inches [mm]            | Weight lb. [kg] |
|----------------|-------------------|-----------------------|-----------------|------|------------------|--|-----------------|
|                |                   |                       | Net Cap. (Btuh) | EER  |                  |  |                 |
| RAS150*0AA0AGA | Vertical          | 12 1/2                | 140,000         | 11.0 |                  | 49-3/8" x 59-1/2" x 88-1/8" (1253 x 1510 x 2238) | 1030 (467)      |

### PERFORMANCE DATA - Two Stage Cooling

| Model Number   | Dedicated Airflow | Nominal Capacity Tons | COOLING         |      | Total Power (kW) | Unit Dimensions H x W x L Inches [mm]             | Weight lb. [kg] |
|----------------|-------------------|-----------------------|-----------------|------|------------------|---|-----------------|
|                |                   |                       | Net Cap. (Btuh) | EER  |                  |   |                 |
| RAS181*0AA0AGA | Vertical          | 15                    | 192,000         | 11.0 | 17.0             | 49-3/8" x 86-5/8" x 127-7/8" (1051 x 2200 x 3248) | 1518 (688)      |
| RAS183*0AA0AGA | Horizontal        | 15                    | 192,000         | 11.0 | 17.0             | 49-3/8" x 86-5/8" x 127-7/8" (1051 x 2200 x 3248) | 1518 (688)      |
| RAS210*0AA0AGA | Vertical          | 17.5                  | 207,000         | 11.0 | 18.8             | 49-3/8" x 86-5/8" x 127-7/8" (1051 x 2200 x 3248) | 1533 (695)      |
| RAS213*0AA0AGA | Horizontal        | 17.5                  | 207,000         | 11.0 | 18.8             | 49-3/8" x 86-5/8" x 127-7/8" (1051 x 2200 x 3248) | 1533 (695)      |
| RAS240*0AA0AGA | Vertical          | 20                    | 242,000         | 10.0 | 24.2             | 49-3/8" x 86-5/8" x 141-1/2" (1051 x 2200 x 3594) | 1683 (763)      |
| RAS243*0AA0AGA | Horizontal        | 20                    | 242,000         | 10.0 | 24.2             | 49-3/8" x 86-5/8" x 141-1/2" (1051 x 2200 x 3594) | 1683 (763)      |
| RAS300*0AA0AGA | Vertical          | 25                    | 280,000         | 10.0 | 28.0             | 57-3/8" x 86-5/8" x 141-1/2" (1417 x 2200x 3594)  | 1810 (821)      |
| RAS303*0AA0AGA | Horizontal        | 25                    | 280,000         | 10.0 | 28.0             | 57-3/8" x 86-5/8" x 141-1/2" (1417 x 2200x 3594)  | 1810 (821)      |

\*Indicates Unit voltage: H= 208/230-3-60, L= 460-3-60, S= 575-3-60

NOTE: BASE MODEL NUMBERS LISTED. SEE MODEL NOMENCLATURE LISTING FOR ADDITIONAL OPTIONS

### BUILT TO LAST, EASY TO INSTALL AND SERVICE

- Dedicated vertical or horizontal air flow duct configuration models. No field kits required.
- Full perimeter base rail with built-in rigging adapters and fork truck slots
- Fully insulated cabinet
- Two-stage cooling with independent circuits and control on all models
- Scroll compressors with internal line-break connections on all models
- All units have high and low pressure switches
- Two inch disposable fiberglass type return air filters in dedicated rack with tool-less filter access door
- Exclusive non-corrosive composite condensate pan in accordance with ASHRAE 62 Standard, sloping design and end drain
- Belt drive evaporator-fan motor and pulley combinations available to meet most applications
- Standard outdoor temperature cooling operation range up to 115°F (46°C) and down to 30°F (-1°C)
- Fixed orifice metering devices on all models to precisely control refrigerant flow
- Single point electrical connections

# CAS

## COMMERCIAL SPLIT SYSTEMS CONDENSING UNITS R-410A, 6 TO 20 TONS



| PERFORMANCE DATA - Single Circuit |                      |                   |      |                  |   |                |
|-----------------------------------|----------------------|-------------------|------|------------------|---|----------------|
| Model Number                      | COOLING              |                   |      | Total Power (KW) | Unit Dimensions H x W x L Inches [mm]         | Weight lb.(kg) |
|                                   | Nominal Capacity Ton | Net Capacity BTUH | EER  |                  |   |                |
| CAS091*AG0A00A                    | 7.5                  | 92,000            | 11.2 | 8.2              | 42-3/8 x 59-3/8 x 45-7/8 [1077 x 1508 x 1164] | 383 (174)      |
| CAS121*AG0A00A                    | 10                   | 117,000           | 11.2 | 10.3             | 50-3/8 x 59-3/8 x 45-7/8 [1279 x 1507 x 1164] | 450 (204)      |
| CAS151*AG0A00A                    | 12.5                 | 148,000           | 11   | 13.5             | 50-3/8 x 59-3/8 x 45-7/8 [1279 x 1507 x 1164] | 480 (218)      |
| CAS181*AG0A00A                    | 15                   | 180,000           | 11   | 16.4             | 50-3/8 x 86-3/8 x 45-7/8 [1279 x 2193 x 1164] | 633 (287)      |
| CAS241*AA0A00A                    | 20                   | 240,000           | 11   | 21.6             | 50-3/8 x 86-1/8 x 67-1/8 [1279 x 2187 x 1704] | 900 (408)      |

\* Indicates unit voltage: H = 208/230-3-60, L = 460-3-60  
 † Above ratings are with matching size air handling unit



### BUILT TO LAST, EASY TO INSTALL AND SERVICE

- Single stage cooling capacity control on all 072 to 241 models
- Two stage cooling capacity control on 120 to 240 models
- Round copper tube aluminum plate fin (RTPF) condenser coils on all models
- Brass suction and liquid line service valves
- Full perimeter base rail with built-in rigging adapters and fork truck slots
- Fully hermetic scroll compressors with crankcase heater
- Compressors mounted on independent vibration isolators
- All units have high and low pressure switches
- Direct drive permanently lubricated condenser fan motors
- Outdoor temperature cooling operation range up to 125°F (52°C) and down to 40°F (4°C)
- All units factory run tested
- Comfort Alert™ Diagnostic Board
  - LED Go-No-Go and fault code
  - Phase protection
  - Built in time guard anti-short cycle
  - Fault code retention logic
  - Low volt compressor contactor protector

# FAS

## PACKAGED AIR HANDLING UNITS, 6 TO 25 TONS

| PERFORMANCE DATA |              |                    |   |                 |
|------------------|--------------|--------------------|---|-----------------|
| Model Number     | Nominal Tons | Number of Circuits | Unit Dimensions H x W x L Inches [mm]             | Weight lb. [kg] |
| FAS072*AAA0A0A   | 6            | 1                  | 56-1/16" x 49" x 28-3/16" [1424 x 1244 x 714]     | 399 [181]       |
| FAS091*AAA0A0A   | 7 1/2        | 1                  | 56-1/16" x 49" x 28-3/16" [1424 x 1244 x 714]     | 404 [183]       |
| FAS120*AAA0A0A   | 10           | 2                  | 56-1/16" x 49" x 28-3/16" [1424 x 1244 x 714]     | 425 [193]       |
| FAS150*AAA0A0A   | 12 1/2       | 2                  | 56-1/16" x 89" x 28-3/16" [1424 x 2261 x 714]     | 695 [315]       |
| FAS180*BAA0A0A   | 15           | 2                  | 56-1/16" x 89" x 28-3/16" [1424 x 2261 x 714]     | 713 [323]       |
| FAS240*AAA0A0A   | 20           | 2                  | 56-1/16" x 89" x 28-3/16" [1424 x 2261 x 714]     | 730 [331]       |
| FAS300*AAA0A0A   | 25           | 2                  | 65-9/16" x 100-1/2" x 32-5/8" [1665 x 2553 x 829] | 1050 [477]      |

\* Indicates unit voltage: K = 208/230-1-60, H = 208/230-3-60, M = 208/230/460-3-60, S = 575-3-60



### BUILT TO LAST, EASY TO INSTALL AND SERVICE

- Multi-position design for horizontal or vertical installation without modification.
- Two sloped condensate pans on each unit for horizontal or vertical applications.
- Cleanable insulation treated with Environmental Protection Agency (EPA) registered antimicrobial agent improves indoor air quality.
- 2 inch filters.
- Powerfull belt-driven forward cured fans with high static option.
- Single refrigerant circuit on 072 and 091 sizes. Dual circuit can be field modified for use on single circuit condenser
- Cooling coils with mechanically bonded fins provide peak heat transfer.
- Standard factory-installed thermo-static expansion valve (TXV) with removable power element.
- Easy maintenance – removal of single panel allows access to virtually all components.
- 24-volt terminal block for control wiring connection.

# PAD3

13 SEER PACKAGE AIR CONDITIONER  
2 TO 5 TONS



| UNIT PERFORMANCE DATA |                   |      |   |                                 |  |
|-----------------------|-------------------|------|---|---------------------------------|--|
| Model Number          | COOLING           |      | Unit Dimensions<br>Heigh x Width x Depth<br>In [mm] | Operating<br>Weight<br>lbs (kg) |  |
|                       | Capacity<br>BTU/h | SEER |   |                                 |  |
| PAD324000K000C        | 23000             | 13.2 | 40 x 48 -3/16 x 32-5/8 [1016 x 1221 x 829]          | 272 (123)                       |  |
| PAD330000K000C        | 28600             | 13.5 | 40 x 48 -3/16 x 32-5/8 [1016 x 1221 x 829]          | 277 (125)                       |  |
| PAD330000H000C        | 28600             | 13.5 | 40 x 48 -3/16 x 32-5/8 [1016 x 1221 x 829]          | 277 (125)                       |  |
| PAD336000K000C        | 34400             | 13   | 40 x 48 -3/16 x 32-5/8 [1016 x 1221 x 829]          | 283 (128)                       |  |
| PAD360000H000C        | 34400             | 13   | 40 x 48 -3/16 x 32-5/8 [1016 x 1221 x 829]          | 283 (128)                       |  |
| PAD342000K000C        | 40500             | 13.2 | 40 x 48-3/16 x 44-1/8 [1016 x 1221 x 1121]          | 369 (167)                       |  |
| PAD342000H000C        | 40500             | 13.2 | 40 x 48-3/16 x 44-1/8 [1016 x 1221 x 1121]          | 369 (167)                       |  |
| PAD348000K000C        | 46500             | 13.2 | 40 x 48-3/16 x 44-1/8 [1016 x 1221 x 1121]          | 375 (170)                       |  |
| PAD348000H000C        | 46500             | 13.2 | 40 x 48-3/16 x 44-1/8 [1016 x 1221 x 1121]          | 375 (170)                       |  |
| PAD360000K000C        | 57000             | 13.4 | 40 x 48-3/16 x 44-1/8 [1016 x 1221 x 1121]          | 397 (180)                       |  |
| PAD360000H000C        | 57000             | 13.4 | 40 x 48-3/16 x 44-1/8                               | 397 (180)                       |  |

### REFRIGERATION CIRCUIT

- Environmentally sound R-410A refrigerant
- Scroll compressor standard on all models
- Copper tube/aluminum fin condenser and evaporator coils
- Dehumidification mode (airflow reduction) on all models

### EASY TO INSTALL AND SERVICE

- Install easily on a rooftop or at ground level
- Easy three-panel accessibility for maintenance and installation
- Easily converts to down discharge applications

### BUILT TO LAST

- 2" spacing wire grilles standard on all models
- Pre-painted steel cabinet
- High efficiency ECM indoor blower motor on all models
- Vertical condenser fan discharge
- Full perimeter steel base rails
- High and Low pressure switches provide added reliability for the compressor

# PAT0

10 SEER R-22 PACKAGE AIR CONDITIONER, 3 – 5 TONS  
Single & Three Phase, 208/230-1-60, 208/230-3-60



| PERFORMANCE DATA |              |                              |      |                                      |                    |
|------------------|--------------|------------------------------|------|--------------------------------------|--------------------|
| Model Number     | Volt.-Ph-Hz  | COOLING                      |      | Unit Dimensions<br>H x W x D<br>[mm] | Weight<br>lbs [kg] |
|                  |              | Nominal<br>Capacity<br>BTU/h | SEER |                                      |                    |
| PAT036K00A       | 208/230-1-60 | 34,200                       | 10.0 | 23 x 51 x 32 [584 x 1295 x 813]      | 250 [114]          |
| PAT036H00A       | 208/230-3-60 | 34,200                       | 10.0 | 23 x 51 x 32 [584 x 1295 x 813]      | 250 [114]          |
| PAT0348K00A      | 208/230-1-60 | 45,500                       | 10.0 | 30 x 51 x 32 [762 x 1295 x 813]      | 310 [114]          |
| PAT048H00A       | 208/230-3-60 | 45,000                       | 10.0 | 30 x 51 x 32 [762 x 1295 x 813]      | 310 [114]          |
| PAT060K00A       | 208/230-1-60 | 58,000                       | 10.0 | 34 x 51 x 32 [867 x 1295 x 813]      | 350 [159]          |
| PAT060H00A       | 208/230-3-60 | 58,000                       | 10.0 | 34 x 51 x 32 [867 x 1295 x 813]      | 350 [159]          |

### REFRIGERATION CIRCUIT

- High efficiency compressors standard on all models
- Copper tube/aluminum fin condenser and evaporator coils

### EASY TO INSTALL AND SERVICE

- Installs easily on a rooftop or at ground level
- Easy service access from side and rear

### BUILT TO LAST

- Cleanable, foil-faced insulation
- Direct Drive PSC Fan motors with internal overload protection
- Rust-proof base with integral sloping drain