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Light Commercial Product Line

**TEMPSTAR®**

Heating and Cooling Products



# RAS



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



### PERFORMANCE DATA - Single Stage Cooling

Model Number	COOLING				Unit Dimensions H x W x L Inches [mm]	Weight lb. [kg]
	Nominal Tons	Net Cap. (Btuh)	EER	Total Power (kW)		
RAS036*0AA0AAA	3	34,600	11.0	3.1	33 <sup>3/8</sup> x 46 <sup>3/4</sup> x 74 <sup>3/8</sup> (847 x 1187 x 1888)	438 (199)
RAS048*0AA0AAA	4	45,000	11.0	4.0	33 <sup>3/8</sup> x 46 <sup>3/4</sup> x 74 <sup>3/8</sup> (847 x 1187 x 1888)	494 (224)
RAS060*0AA0AAA	5	59,000	10.8	5.5	33 <sup>3/8</sup> x 46 <sup>3/4</sup> x 74 <sup>3/8</sup> (847 x 1187 x 1888)	524 (238)
RAS072*0AA0AAA	6	70,000	11.2	6.4	41 <sup>3/8</sup> x 46 <sup>3/4</sup> x 74 <sup>3/8</sup> (1051 x 1187 x 1888)	607 (275)
RAS091*0AA0AAA	7.5	88,000	11.2	8.0	41 <sup>3/8</sup> x 59 <sup>1/2</sup> x 88 <sup>1/8</sup> (1051 x 1510 x 2238)	705 (320)
RAS101*0AA0AAA	8.5	97,000	11.2	8.8	49 <sup>3/8</sup> x 59 <sup>1/2</sup> x 88 <sup>1/8</sup> (1253 x 1510 x 2238)	845 (384)
RAS121*0AA0AAA	10	117,000	11.2	10.6	49 <sup>3/8</sup> x 59 <sup>1/2</sup> x 88 <sup>1/8</sup> (1253 x 1510 x 2238)	855 (388)

### PERFORMANCE DATA - Dual Stage Cooling

Model Number	COOLING				Unit Dimensions H x W x L Inches [mm]	Weight lb. [kg]
	Nominal Tons	Net Cap. (Btuh)	EER	Total Power (kW)		
RAS090*0AA0AAA	7.5	83,000	11.2	7.4	41 <sup>3/8</sup> x 59 <sup>1/2</sup> x 88 <sup>1/8</sup> (1051 x 1510 x 2238)	760 (345)
RAS102*0AA0AAA	8.5	99,000	11.2	9.0	49 <sup>3/8</sup> x 59 <sup>1/2</sup> x 88 <sup>1/8</sup> (1253 x 1510 x 2238)	855 (388)
RAS120*0AA0AAA	10	114,000	11.3	10.1	49 <sup>3/8</sup> x 59 <sup>1/2</sup> x 88 <sup>1/8</sup> (1253 x 1510 x 2238)	865 (393)
RAS150*0AA0AAA	12.5	140,000	11.0	12.7	49 <sup>3/8</sup> x 59 <sup>1/2</sup> x 88 <sup>1/8</sup> (1253 x 1510 x 2238)	1075 (489)
RAS180*0AA0AAA**	15	174,000	11.0	15.8	57 <sup>3/8</sup> x 63 <sup>3/8</sup> x 115 <sup>7/8</sup> (1456 x 1609 x 2942)	1305 (593)

### PERFORMANCE DATA - Two Stage Cooling

Model Number	Dedicated Airflow	COOLING				Unit Dimensions H x W x L Inches [mm]	Weight lb. [kg]
		Nominal Capacity Tons	Net Cap. (Btuh)	EER	Total Power (kW)		
RAS210*0AA0AAA	Vertical	17.5	208,000	11.0	18.9	49 <sup>3/8</sup> x 86 <sup>5/8</sup> x 127 <sup>7/8</sup> (1253 x 2200 x 3248)	1518 (688)
RAS213*0AA0AAA	Horizontal	17.5	208,000	11.0	18.9	49 <sup>3/8</sup> x 86 <sup>5/8</sup> x 127 <sup>7/8</sup> (1253 x 2200 x 3248)	1518 (688)
RAS240*0AA0AAA	Vertical	20	242,000	10.0	24.2	49 <sup>3/8</sup> x 86 <sup>5/8</sup> x 141 <sup>1/2</sup> (1253 x 2200 x 3594)	1533 (695)
RAS243*0AA0AAA	Horizontal	20	242,000	10.0	24.2	49 <sup>3/8</sup> x 86 <sup>5/8</sup> x 141 <sup>1/2</sup> (1253 x 2200 x 3594)	1533 (695)
RAS300*0AA0AAA	Vertical	25	282,000	10.0	28.2	57 <sup>3/8</sup> x 86 <sup>5/8</sup> x 141 <sup>1/2</sup> (1417 x 2200 x 3594)	1683 (763)
RAS303*0AA0AAA	Horizontal	25	282,000	10.0	28.2	57 <sup>3/8</sup> x 86 <sup>5/8</sup> x 141 <sup>1/2</sup> (1417 x 2200 x 3594)	1683 (763)

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

\*\* Field Convertible from vertical to horizontal on all models. No special kit required on 036-150 models. Field accessory supply duct kit required for 180 size model only.

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<sup>1</sup> - Single Circuit

Model Number	COOLING				Unit Dimensions H x W x L Inches [mm]	Weight lb. [kg]
	Nominal Tons	Net Cap. (Btuh)	EER	Total Power (KW)		
CAS072*AA0A00A	6	71,000	11.5	6.2	42 <sup>3/8</sup> x 59 <sup>3/8</sup> x 45 <sup>7/8</sup> (1077 x 1508 x 1164)	389 (176)
CAS091*AA0A00A	7.5	71,000	11.2	8.2	42 <sup>3/8</sup> x 59 <sup>3/8</sup> x 45 <sup>7/8</sup> (1077 x 1508 x 1164)	391 (177)
CAS121*AA0A00A	10	117,000	11.2	10.4	50 <sup>3/8</sup> x 59 <sup>3/8</sup> x 45 <sup>7/8</sup> (1279 x 1507 x 1164)	490 (222)
CAS151*AA0A00A	12.5	148,000	11.0	13.5	50 <sup>3/8</sup> x 59 <sup>3/8</sup> x 45 <sup>7/8</sup> (1279 x 1507 x 1164)	598 (271)
CAS181*AA0A00A	15	184,000	11.2	16.4	50 <sup>3/8</sup> x 86 <sup>3/8</sup> x 45 <sup>1/8</sup> (1279 x 2193 x 1148)	731 (322)
CAS241*AA0A00A	20	240,000	11.0	21.8	50 <sup>3/8</sup> x 86 <sup>3/8</sup> x 67 <sup>1/8</sup> (1279 x 2193 x 1704)	978 (444)

### PERFORMANCE DATA<sup>1</sup> - Dual Circuit

Model Number	COOLING				Unit Dimensions H x W x L Inches [mm]	Weight lb. [kg]
	Nominal Tons	Net Cap. (Btuh)	EER	Total Power (KW)		
CAS120*DA0A00A	10	117,000	11.2	10.4	50 <sup>3/8</sup> x 59 <sup>3/8</sup> x 45 <sup>7/8</sup> (1279 x 1507 x 1164)	516 (234)
CAS150*DA0A00A	12.5	148,000	11.0	13.5	50 <sup>3/8</sup> x 59 <sup>3/8</sup> x 45 <sup>7/8</sup> (1279 x 1507 x 1164)	654 (297)
CAS180*DA0A00A	15	184,000	11.2	16.4	50 <sup>3/8</sup> x 86 <sup>3/8</sup> x 45 <sup>1/8</sup> (1279 x 2193 x 1148)	731 (322)
CAS240*DA0A00A	20	240,000	11.0	21.8	50 <sup>3/8</sup> x 86 <sup>3/8</sup> x 67 <sup>1/8</sup> (1279 x 2193 x 1704)	978 (444)

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

<sup>1</sup> 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 <sup>1/16</sup> x 49 x 28 <sup>3/16</sup> (1424 x 1244 x 714)	399 (181)
FAS091*AAA0A0A	7.5	1	56 <sup>1/16</sup> x 49 x 28 <sup>3/16</sup> (1424 x 1244 x 714)	404 (183)
FAS120*AAA0A0A	10	2	56 <sup>1/16</sup> x 49 x 28 <sup>3/16</sup> (1424 x 1244 x 714)	425 (193)
FAS150*AAA0A0A	12.5	2	56 <sup>1/16</sup> x 89 x 28 <sup>3/16</sup> (1424 x 2261 x 714)	695 (315)
FAS180*AAA0A0A	15	2	56 <sup>1/16</sup> x 89 x 28 <sup>3/16</sup> (1424 x 2261 x 714)	713 (323)
FAS240*AAA0A0A	20	2	56 <sup>1/16</sup> x 89 x 28 <sup>3/16</sup> (1424 x 2261 x 714)	730 (331)
FAS300*AAA0A0A	25	2	65 <sup>9/16</sup> x 100 <sup>1/2</sup> x 32 <sup>5/8</sup> (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, 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

- 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.
- Powerful 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

### PERFORMANCE DATA - Single Phase

Model Number	COOLING			Unit Dimensions H x W x L Inches [mm]	Weight lb. [kg]
	Net Cap. (Btuh)	SEER	EER		
PAD324000K000C	23,000	13.2	11.0	40 x 48 <sup>3/16</sup> x 32 <sup>5/8</sup> (1016 x 1224 x 829)	272 (123)
PAD324000KTP0C	23,000	13.2	11.0	40 x 48 <sup>3/16</sup> x 32 <sup>5/8</sup> (1016 x 1224 x 829)	272 (123)
PAD330000K000C	28,600	13.5	11.2	42 x 48 <sup>3/16</sup> x 32 <sup>5/8</sup> (1067 x 1224 x 829)	277 (125)
PAD330000KTP0C	28,600	13.5	11.2	42 x 48 <sup>3/16</sup> x 32 <sup>5/8</sup> (1067 x 1224 x 829)	277 (125)
PAD336000K000C	34,400	13.0	11.0	46 x 48 <sup>3/16</sup> x 32 <sup>5/8</sup> (1168 x 1224 x 829)	283 (128)
PAD336000KTP0C	34,400	13.0	11.0	46 x 48 <sup>3/16</sup> x 32 <sup>5/8</sup> (1168 x 1224 x 829)	283 (128)
PAD342000K000C	40,500	13.2	11.2	40 x 48 <sup>3/16</sup> x 44 <sup>1/8</sup> (1016 x 1224 x 1123)	369 (167)
PAD342000KTP0C	40,500	13.2	11.2	40 x 48 <sup>3/16</sup> x 44 <sup>1/8</sup> (1016 x 1224 x 1123)	369 (167)
PAD348000K000C	46,500	13.2	11.2	42 x 48 <sup>3/16</sup> x 44 <sup>1/8</sup> (1067 x 1224 x 1123)	375 (170)
PAD348000KTP0C	46,500	13.2	11.2	42 x 48 <sup>3/16</sup> x 44 <sup>1/8</sup> (1067 x 1224 x 1123)	375 (170)
PAD360000K000C	57,000	13.4	11.0	42 x 48 <sup>3/16</sup> x 44 <sup>1/8</sup> (1067 x 1224 x 1123)	397 (180)
PAD360000KTP0C	57,000	13.4	11.0	42 x 48 <sup>3/16</sup> x 44 <sup>1/8</sup> (1067 x 1224 x 1123)	397 (180)

### PERFORMANCE DATA - Three Phase

Model Number	COOLING			Unit Dimensions H x W x L Inches [mm]	Weight lb. [kg]
	Net Cap. (Btuh)	SEER	EER		
PAD330000H000C	28,600	13.5	11.2	42 x 48 <sup>3/16</sup> x 32 <sup>5/8</sup> (1067x1224x829)	277 (125)
PAD336000*000C	34,400	13.0	11.0	46 x 48 <sup>3/16</sup> x 32 <sup>5/8</sup> (1168x1224x829)	283 (128)
PAD342000*000C	40,500	13.2	11.2	40 x 48 <sup>3/16</sup> x 44 <sup>1/8</sup> (1016x1224x1123)	369 (167)
PAD348000*000C	46,500	13.2	11.2	41 x 48 <sup>3/16</sup> x 44 <sup>1/8</sup> (1041x1224x1123)	375 (170)
PAD360000*000C	57,000	13.4	11.0	41 x 48 <sup>3/16</sup> x 44 <sup>1/8</sup> (1041x1224x1123)	397 (180)

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



#### 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.

#### 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.

# PAT0

## 10 SEER PACKAGE AIR CONDITIONER R22, 3 TO 5 TONS

### PERFORMANCE DATA - Single Phase

Model Number	COOLING		Unit Dimensions H x W x L Inches [mm]	Weight lb. [kg]
	Net Cap. (Btuh)	SEER		
PAT036K00A	34,200	10.0	23 x 51 x 32 (584 x 1295 x 813)	250 (114)
PAT048K00A	45,500	10.0	30 x 51 x 32 (762 x 1295 x 813)	310 (140)
PAT060K00A	58,000	10.0	34 x 51 x 32 (867 x 1295 x 813)	350 (159)

### PERFORMANCE DATA - Three Phase

Model Number	COOLING		Unit Dimensions H x W x L Inches [mm]	Weight lbs [kg]
	Net Cap. (Btuh)	SEER		
PAT036H00A	34,200	10.0	23 x 51 x 32 (584 x 1295 x 813)	250 (114)
PAT048H00A	45,500	10.0	30 x 51 x 32 (762 x 1295 x 813)	310 (140)
PAT060H00A	58,000	10.0	34 x 51 x 32 (867 x 1295 x 813)	350 (159)

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



#### EASY TO INSTALL AND SERVICE

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

#### REFRIGERATION CIRCUIT

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

#### BUILT TO LAST

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