

**REPLACEMENT PARTS FOR R7DA SERIES**

**SINGLE PACKAGE GAS/ELECTRIC HEATING/COOLING  
HIGH OUTSIDE AIR AND DOAS ROOFTOP UNIT**



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**IMPORTANT**

- Always include complete model and serial number so that any specification change can be considered for parts replacement. It can save time and expense.
- In keeping with our policy of continuous product improvement, we reserve the right to alter any information shown here.
- Order by Part Number (PN) not by option designation.

**WE RESERVE THE RIGHT TO SUBSTITUTE FUNCTIONAL REPLACEMENTS.**

## MAIN CABINET ASSEMBLY COMPONENTS

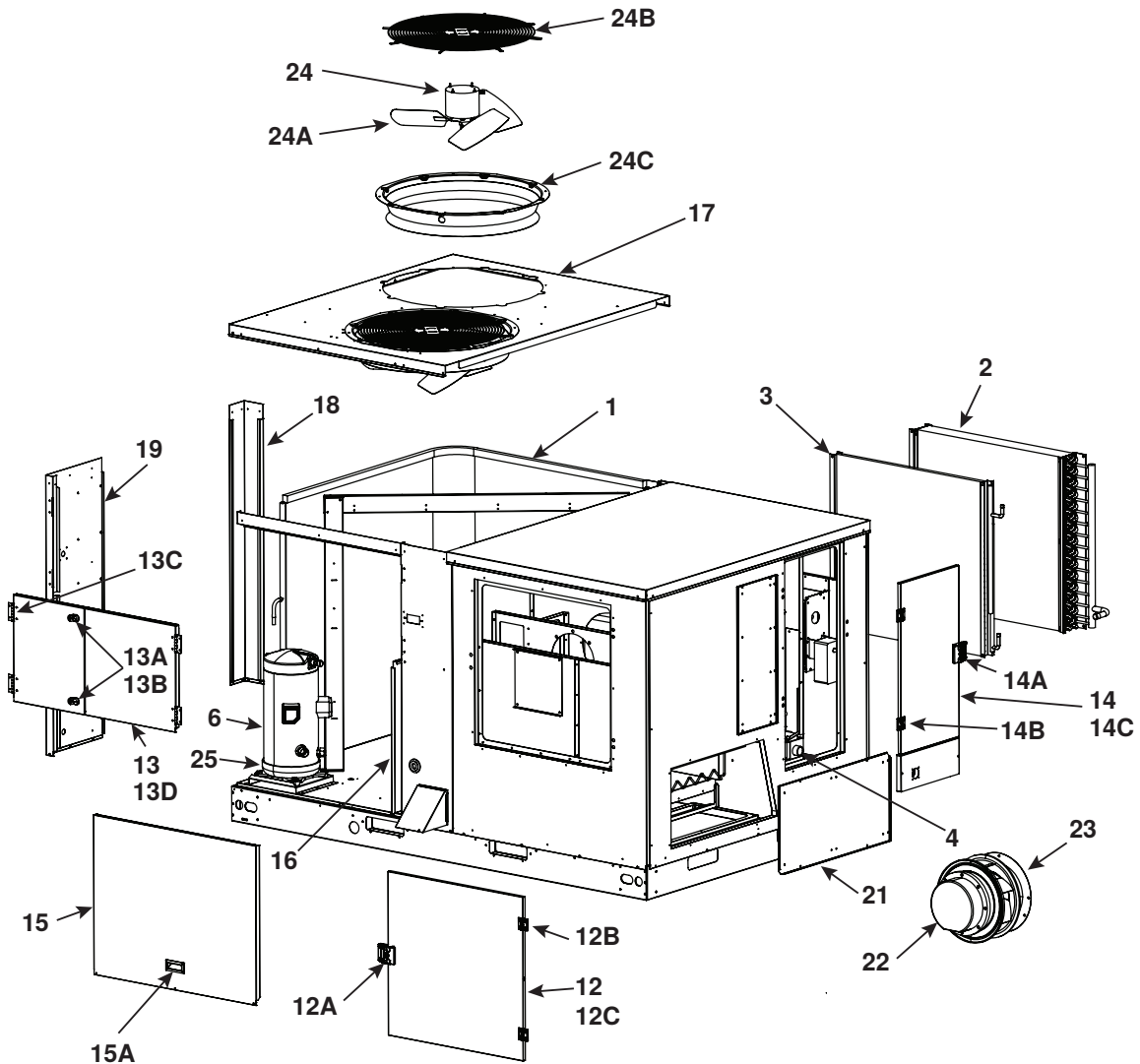


Figure 1. Main Cabinet Assembly (Refer to [Table 1](#))

| Table 1. Main Cabinet Assembly Components        |               |                                       |                |         |         |         |            |
|--------------------------------------------------|---------------|---------------------------------------|----------------|---------|---------|---------|------------|
| Item No.                                         | Component     | Description                           | Unit Size      |         |         |         |            |
|                                                  |               |                                       | 072            | 090     | 120     | 150     |            |
|                                                  |               |                                       | PN (Quantity)* |         |         |         |            |
| 1                                                | Coil, outdoor | Uncoated                              | 1010935        | 1024144 | 1024563 | 1013104 |            |
|                                                  |               | TCP-coated                            | 1011083        | 1024145 | 1024564 | 1013112 |            |
| 1A                                               | Support       | Outdoor coil, distributor (not shown) | 1012046        |         |         |         |            |
| 1B                                               |               | Outdoor coil (not shown)              | 1012047        |         |         |         |            |
| 2                                                | Coil, indoor  | Evaporator, stage 1                   | 1005280        | 262824  |         | 262825  |            |
|                                                  |               | Evaporator, stage 2                   | —              |         |         |         |            |
| 3                                                |               | Reheat                                | 268549         |         |         |         |            |
| 4                                                | Drain pan     | Evaporator (not shown)                | 1006391        |         |         |         |            |
| 5                                                | Float sensor  | Condensate, optional (not shown)      | 1024617        |         |         |         |            |
| 6                                                | Compressor    | 208/230V, 3PH                         | 1024141        | 261147  | 262807  | —       |            |
|                                                  |               | 208/230V, 3PH, option AUR2 reheat     | —              |         |         |         | 262804 (2) |
|                                                  |               | 208/230V, 3PH, circuit A, no reheat   |                |         |         |         | 262804     |
|                                                  |               | 208/230V, 3PH, circuit B, no reheat   |                |         |         |         | 235009     |
| *Quantity is one (1) unless otherwise indicated. |               |                                       |                |         |         |         |            |

\*Quantity is one (1) unless otherwise indicated.

**Table 1. Main Cabinet Assembly Components—Continued**

| Item No. | Component                    | Description                           | Unit Size      |            |         |             |
|----------|------------------------------|---------------------------------------|----------------|------------|---------|-------------|
|          |                              |                                       | 072            | 090        | 120     | 150         |
|          |                              |                                       | PN (Quantity)* |            |         |             |
| 6        | Compressor (continued)       | 460V, 3PH                             | 1024142        | 261148     | 262808  | —           |
|          |                              | 460V, 3PH, option AUR2 reheat         | —              |            |         | 262805 (2)  |
|          |                              | 460V, 3PH, circuit A, no reheat       |                |            |         | 262805      |
|          |                              | 460V, 3PH, circuit B, no reheat       |                |            |         | 235013      |
| 6A       | Grommet                      | Compressor (not shown)                | 668530         |            |         |             |
| 7        | Thermostatic expansion valve | Stage 1 (not shown)                   | 1012540        | 220556     |         | 220556      |
|          |                              | Stage 2 (not shown)                   | —              |            |         |             |
| 8        | Pressure switch              | Low refrigerant pressure (not shown)  | 1023982        |            |         |             |
| 9        |                              | High refrigerant pressure (not shown) | 1011108        |            |         |             |
| 10       | Filter-dryer                 | Not shown                             | 669780         |            | 216410  | 669780      |
| 11       | Thermistor                   | Compressor, digital (not shown)       | 266069         |            | 266068  | 266069      |
| 12       | Access door                  | Blower                                | 1005661        |            |         | 1011507     |
| 12A      | Latch                        | Blower access door, slam              | 271797         |            |         |             |
| 12B      | Hinge                        | Blower access door                    | 271796 (2)     |            |         |             |
| 12C      | Gasket                       | Blower access door                    | 1013188        |            |         |             |
| 13       | Access door                  | Control compartment, right            | 1012033        |            |         |             |
|          |                              | Control compartment, left             | 1012032        |            |         |             |
| 13A      | Latch                        | Control compartment access door       | 204469 (2)     |            |         |             |
| 13B      | Latch pull                   | Control compartment access door       | 204470 (2)     |            |         |             |
| 13C      | Hinge                        | Control compartment access door       | 210029 (4)     |            |         |             |
| 13D      | Gasket                       | Control compartment access door       | 1013189        |            |         |             |
| 14       | Access door                  | Filter                                | 1021163        |            |         | 1024454     |
| 14A      | Latch                        | Filter access door, slam              | 271797         |            |         |             |
| 14B      | Hinge                        | Filter access door                    | 271796 (2)     |            |         |             |
| 14C      | Gasket                       | Filter access door                    | 1013188        |            |         |             |
| 15       | Access door                  | Compressor compartment                | 1005754        |            |         |             |
| 15A      | Handle                       | Compressor compartment access door    | 262742         |            |         |             |
| 16       | Cover                        | Gas section                           | 1005756        |            |         |             |
| 17       | Top pan                      | Condenser                             | 1005743        |            |         |             |
| 18       | Corner post                  | Rear                                  | 1005737        |            |         | 1011494     |
| 19       |                              | Front                                 | 1005742        | 1021935    |         | 1011495     |
| 20       | Utility chase                | Not shown                             | 1005759        |            |         |             |
| 21       | Access cover                 | Heat exchanger                        | 1005674        |            |         |             |
| 22       | Blower motor                 | 208/230V, option A10E                 | 1024319        |            | 1024561 |             |
|          |                              | 208/230V, option A11E                 | —              |            |         | 1024590     |
|          |                              | 460V, option A10E                     | 1024320        |            | 1024562 |             |
|          |                              | 460V, option A11E                     | —              |            |         | 1024591     |
| 23       | Inlet ring**                 | Blower                                | 1024321        |            |         |             |
| 24       | Condenser fan motor          | 1/4-HP, 208/230V                      | 1006480 (2)    | —          |         |             |
|          |                              | 1/4-HP, 460V                          | 1006481 (2)    |            |         |             |
|          |                              | 1/3-HP, 208/230V                      | —              | 622252 (2) |         |             |
|          |                              | 1/3-HP, 460V                          |                | 622253 (2) |         |             |
| 24A      | Fan blade                    | Condenser fan                         | 667359 (2)     | 667364 (2) |         | 1024587 (2) |
| 24B      | Fan grille                   | Condenser fan                         | 669335 (2)     |            |         |             |
| 24C      | Fan shroud                   | Condenser fan                         | 295481 (2)     |            |         |             |
| 25       | Crankcase heater             | 240V/40W                              | 1011116        |            | 216402  | 216398      |
|          |                              | 480V/40W                              | 1011117        |            | 216404  | 216400      |
| 26       | Air filter                   | Pleated, 16 × 25 (not shown)          | 211128         | —          |         |             |
|          |                              | Pleated, 16 × 16 (not shown)          | —              | 211126     |         |             |
| 27       |                              | MERV 13, 16 × 25 (not shown)          | 256666         | —          |         |             |
|          |                              | MERV 13, 16 × 16 (not shown)          | —              | 256664     |         |             |

\*Quantity is one (1) unless otherwise indicated.

\*\*Not required with option A11E blower.

## CONTROL COMPARTMENT COMPONENTS

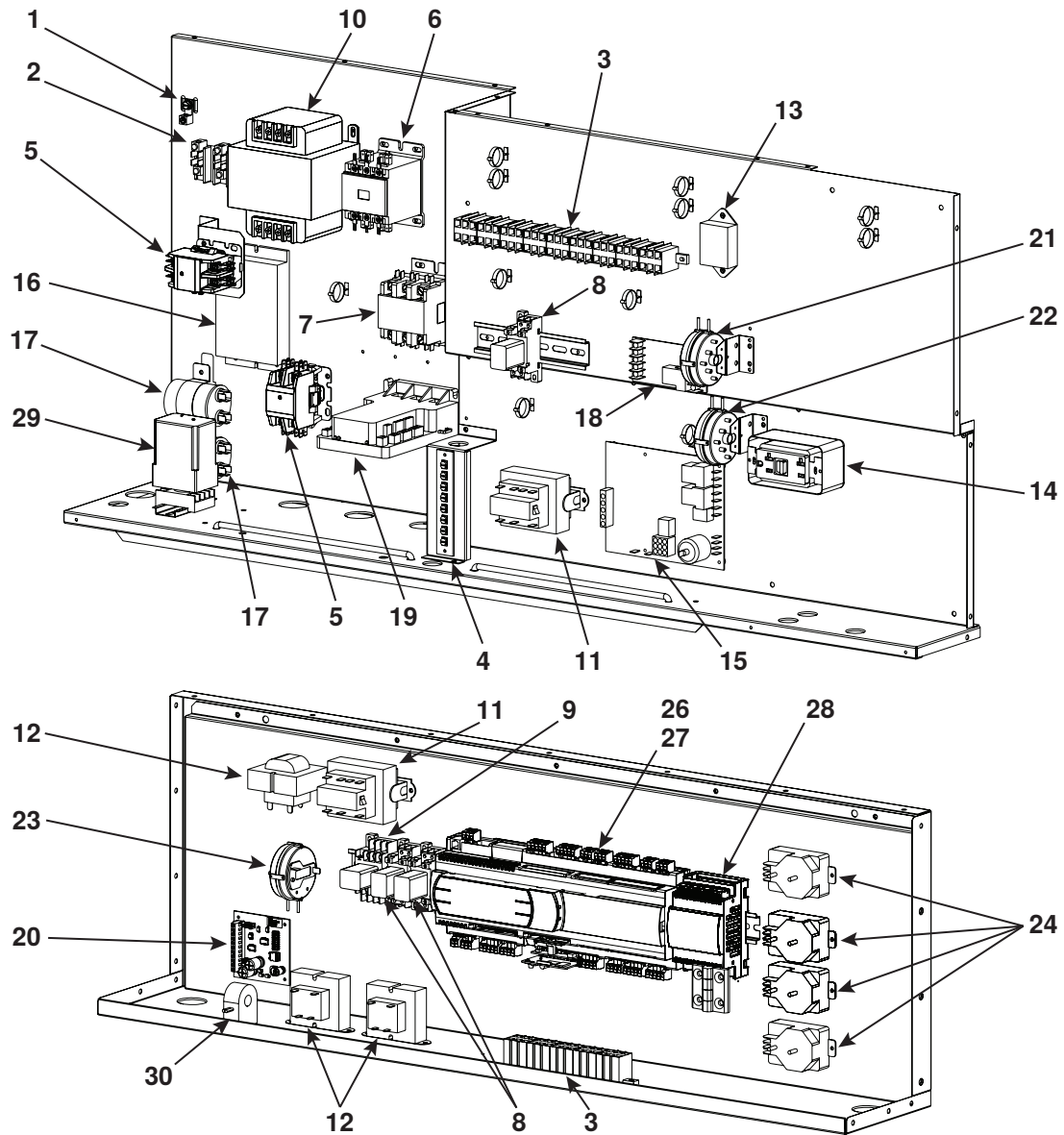


Figure 2. Main and Secondary Control Panels (Refer to [Table 2](#))

**Table 2. Control Compartment Components**

| Item No.                                         | Component                | Description                              | Unit Size      |     |        |         |
|--------------------------------------------------|--------------------------|------------------------------------------|----------------|-----|--------|---------|
|                                                  |                          |                                          | 072            | 090 | 120    | 150     |
|                                                  |                          |                                          | PN (Quantity)* |     |        |         |
| 1                                                | Lug                      | Grounding                                | 631431         |     |        |         |
| 2                                                | Terminal block           | 3-pole                                   | 632348         |     |        |         |
| 3                                                |                          | Low voltage                              | 144972         |     |        |         |
| 4                                                |                          | Thermostat                               | 632696         |     |        |         |
| 5                                                | Contactor                | Condenser fan/power exhaust, 2-pole, 25A | 624830 (2)     |     |        |         |
| 6                                                |                          | Blower motor, 3-pole, 25A                | 216386         |     |        |         |
| 7                                                |                          | Compressor, 3-pole, 30A                  | 621832         |     |        |         |
| 8                                                | Relay                    | 24V                                      | 211411 (3)     |     |        |         |
| 8A                                               | Socket                   | Relay                                    | 211415 (3)     |     |        |         |
| 9                                                | Relay                    | 24V                                      | 211799         |     |        |         |
| 9A                                               | Socket                   | Relay                                    | 211800         |     |        |         |
| 10                                               | Transformer              | 230/460V, 350VA                          | 210863         |     |        |         |
| 11                                               |                          | 24V, 208/230/460V, 90VA                  | 622247         |     |        |         |
| 12                                               |                          | 24V, 208/230V, 40VA                      | 621709         |     |        |         |
|                                                  |                          | 24V, 460V, 40VA                          | 621850 (2)     |     |        |         |
| 13                                               | Converter                | 0–10V to PWM                             | 1021970        |     |        |         |
| 14                                               | Receptacle               | GFCI                                     | 632413         |     |        |         |
| 15                                               | Control board            | Gas ignition                             | 272626         |     |        |         |
| 16                                               |                          | Low ambient pressure                     | 1005086        |     |        |         |
| 17                                               | Capacitor, condenser fan | 5μF, 440–460V                            | 01-0061        |     |        |         |
|                                                  |                          | 7.5μF, 370–208/230V                      | 01-0023        |     |        |         |
| 18                                               | Relay                    | Flame status                             | 234656         |     |        |         |
| 19                                               | Label                    | Flame status relay                       | 234859         |     |        |         |
| 19A                                              | Controller               | Modulating compressor                    | 266067         |     |        |         |
| 20                                               | Board                    | Interface                                | 1012894        |     |        |         |
| 21                                               | Pressure switch          | Combustion proving, 0.80 IN WC           | 197078         |     |        |         |
|                                                  |                          | Combustion proving, 0.65 IN WC           | 197028         | —   |        |         |
| 22                                               |                          | Combustion proving, 0.10 IN WC           | 234712         |     |        |         |
| 23                                               |                          | Supply fan proving, 0.10 IN WC           | 234712         |     |        |         |
| 24                                               | Pressure transducer      | 0–2.5 IN WC                              | 234818 (4)     |     |        |         |
| 25                                               |                          | 0–10 IN WC (not shown)                   | 1020884        |     |        |         |
| 26                                               | Controller               | Digital                                  | 271824         |     |        |         |
| 27                                               | Terminal kit             | Digital controller                       | 272630         |     |        |         |
| 28                                               | Expansion module         | Digital controller                       | 1020802        |     |        |         |
| 29                                               | Monitor                  | Phase loss                               | 176826         |     |        |         |
| 30                                               |                          | Current                                  | 1011162        |     |        |         |
| 31                                               | Stay rod                 | Control compartment door                 | 669413         |     |        |         |
| 32                                               | Sensor                   | Discharge air temperature (not shown)    | 222753         |     |        |         |
| 33                                               |                          | Return air averaging (not shown)         | 271993         |     |        |         |
| 34                                               | Solenoid valve kit       | Compressor (not shown)                   | 266071         |     | 266070 | 266071  |
| 35                                               | Valve                    | Check (not shown)                        | 259292         |     |        |         |
| 36                                               | Sensor                   | Reheat (not shown)                       | 269894         |     |        |         |
| 37                                               | Freezestat               | One-stage (not shown)                    | 1011414        |     |        | —       |
|                                                  |                          | Two-stage (not shown)                    | —              |     |        | 1011415 |
| 38                                               | Pressure switch          | Dirty filter (not shown)                 | 105507         |     |        |         |
| 39                                               | Sensor                   | Air flow temperature (not shown)         | 1020804        |     |        |         |
| 40                                               | Probe                    | Pressure (not shown)                     | 1020907        |     |        |         |
| *Quantity is one (1) unless otherwise indicated. |                          |                                          |                |     |        |         |

\*Quantity is one (1) unless otherwise indicated.

## GAS HEAT SECTION COMPONENTS

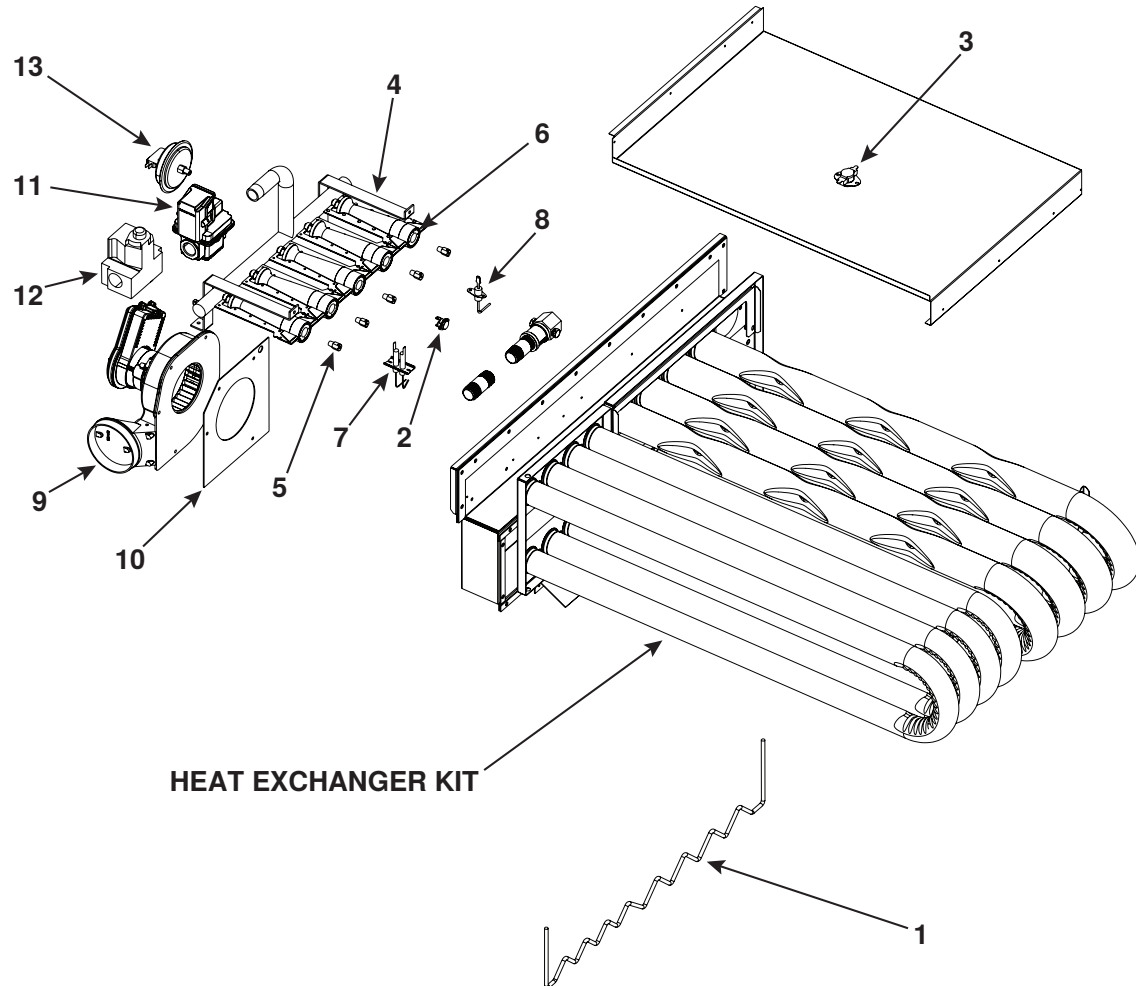


Figure 3. Gas Heat Section (Refer to [Table 3](#))

| Table 3. Gas Heat Section Components             |                             |                                       |                 |                |            |        |        |
|--------------------------------------------------|-----------------------------|---------------------------------------|-----------------|----------------|------------|--------|--------|
| Item No.                                         | Component                   | Description                           | Gas Heat Option | Unit Size      |            |        |        |
|                                                  |                             |                                       |                 | 072            | 090        | 120    | 150    |
|                                                  |                             |                                       |                 | PN (Quantity)* |            |        |        |
| —                                                | Complete heat exchanger kit | 409 SST                               | H100            | 1013199        | —          |        |        |
|                                                  |                             |                                       | H166            | 1013200        |            |        |        |
|                                                  |                             |                                       | H200, H225      | —              | 1013201    |        |        |
| 1                                                | Rod                         | Tube support                          | H100–H225       | 1020934        |            |        |        |
| 2                                                | Limit switch                | Flame rollout, manual reset, 250°F    | H100–H225       | 626610         |            |        |        |
| 3                                                |                             | 1/2-inch, automatic reset, 180°F      | H100            | 626614         |            |        | —      |
|                                                  |                             | 3/4-inch, automatic reset, 180°F      | H166–H225       | 211754         |            | —      | 211754 |
|                                                  |                             | 3/4-inch, automatic reset, 170°F      |                 | —              |            | 626502 | —      |
| 4                                                | Gas manifold                | 2-port                                | H100            | 1006237        | —          |        |        |
|                                                  |                             | 4-port                                | H166            | 1006238        |            |        |        |
|                                                  |                             | 5-port                                | H200, H225      | —              | 1006215    |        |        |
| 5                                                | Gas orifice                 | #30                                   | H100            | 273344 (2)     | —          |        |        |
|                                                  |                             | #31                                   | H166, H200      | 273345 (4–5)   |            |        |        |
|                                                  |                             | 1/8-inch                              | H225            | —              | 661118 (5) |        |        |
| 6                                                | Burner                      | Inshot                                | H100–H225       | 661117 (2–5)   |            |        |        |
| 7                                                | Ignitor                     | Spark                                 | H100–H225       | 632323         |            |        |        |
| 8                                                | Sensor                      | Flame                                 | H100–H225       | 632322         |            |        |        |
| 9                                                | Motor assembly              | Venter                                | H100–H225       | 1022016        |            |        |        |
| 10                                               | Gasket                      | Venter housing                        | H100–H225       | 254935         |            |        |        |
| 11                                               | Gas valve                   | Safety                                | H100, H166      | 624775         |            |        |        |
|                                                  |                             |                                       | H200, H225      | —              | 196981     |        |        |
| 12                                               |                             | Modulating                            | H100, H166      | 1024208        |            |        |        |
|                                                  |                             |                                       | H200, H225      | —              | 1024209    |        |        |
| 13                                               | Pressure switch             | Gas pressure, 1.70 IN WC, natural gas | H100–H225       | 211130         |            |        |        |
|                                                  |                             | Gas manifold, 5.0 IN WC, propane      | H100–H225       | 211710         |            |        |        |
| 14                                               | Cable                       | Spark ignition (not shown)            | H100–H225       | 632611         |            |        |        |
| *Quantity is one (1) unless otherwise indicated. |                             |                                       |                 |                |            |        |        |

## ELECTRIC HEAT SECTION COMPONENTS

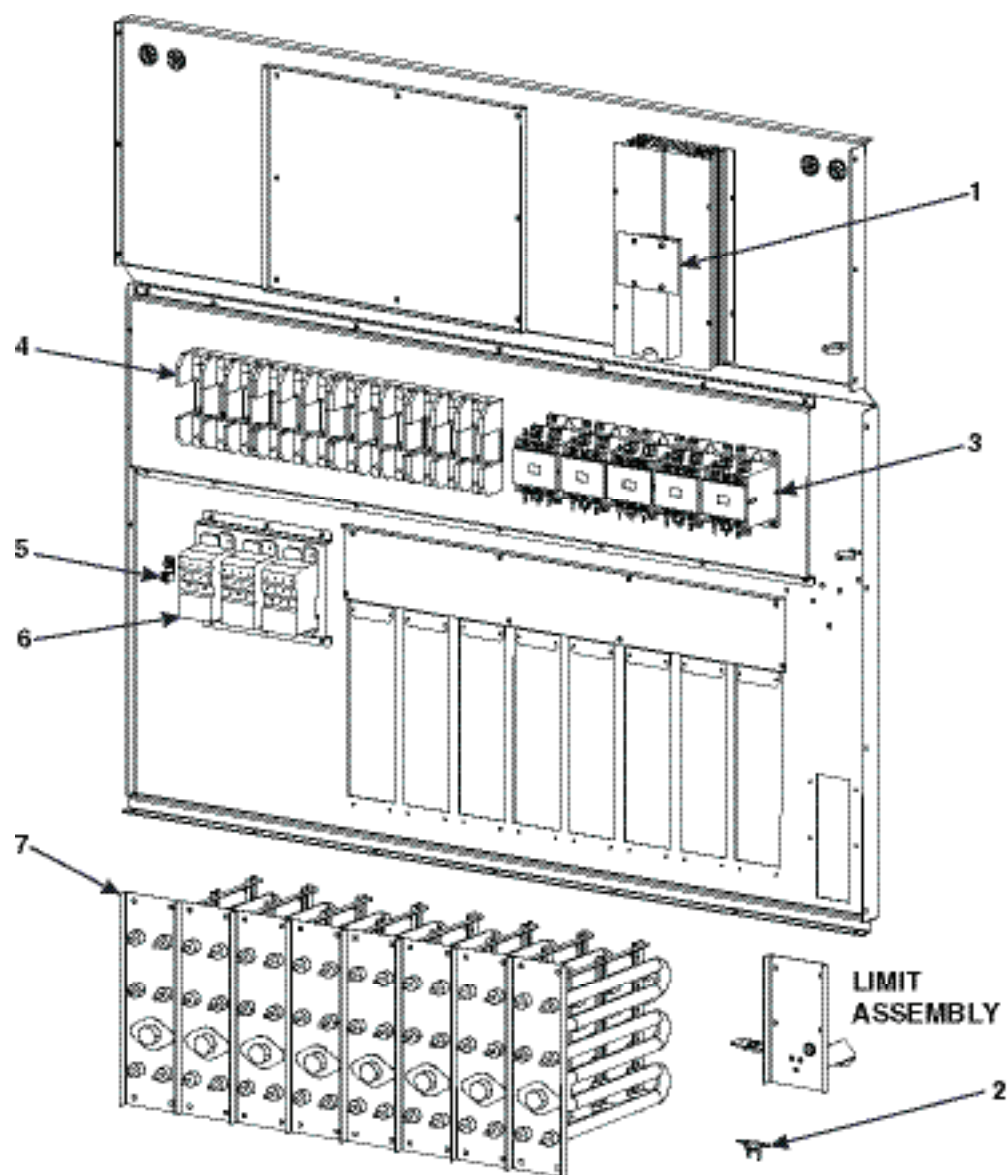


Figure 4. Electric Heat Section (Refer to [Table 4](#))

**Table 4. Electric Heat Section Components**

| Item No. | Component            | Description                                | Unit Size |         |        |         |
|----------|----------------------|--------------------------------------------|-----------|---------|--------|---------|
|          |                      |                                            | 072       | 090     | 120    | 150     |
|          |                      |                                            | PN        |         |        |         |
| 1        | SCR power controller | SCR, 208/230V/ 460V                        | 234057    |         |        |         |
| 2        | Limit switch         | Heating element, 125°F, 208/230/460V       | 1028246   |         |        |         |
|          |                      | Heating element, 135°F, 208/230/460V       | 1028247   |         |        |         |
|          |                      | Heating element, 145°F, 208/230/460V       | 1028248   |         |        |         |
| 2A       |                      | Auxiliary, 40 kW, 208/230/460V (not shown) | 201961    |         |        |         |
|          |                      | Auxiliary, 60 kW, 208/230/460V (not shown) | 201962    |         | 201961 |         |
|          |                      | Auxiliary, 80 kW, 208/230/460V (not shown) | —         |         | 096512 |         |
| 3        | Contactor            | 3-pole (Hartland Controls #HCC-3XQ04CU391) | 621888    |         |        |         |
| 4        | Fuse block           | 30A, 208/230V                              | 207618    |         |        |         |
|          |                      | 60A, 208/230V                              | 207631    |         |        |         |
|          |                      | 60A, 460V                                  | 207630    |         |        |         |
| 4A       | Fuse                 | 30A, 208/230V (not shown)                  | 207615    |         |        |         |
|          |                      | 60A, 208/230V (not shown)                  | 207617    |         |        |         |
|          |                      | 45A, 460V (not shown)                      | 207627    |         |        |         |
|          |                      | 60A, 460V (not shown)                      | 207628    |         |        |         |
| 5        | Lug                  | Solderles #XT6AMP                          | 631431    |         |        |         |
| 6        | Distribution block   | 310A                                       | 223495    |         |        |         |
| 7        | Heating element      | 10kW, 208/230V, 3PH                        | 1028252   | —       |        |         |
|          |                      | 20kW, 208/230V, 3PH                        | 1028252   |         |        | —       |
|          |                      | 30kW, 208/230V, 3PH                        | 1028254   |         |        | 1028250 |
|          |                      | 40kW, 208/230V, 3PH                        | 1028254   |         |        | 1028252 |
|          |                      | 60kW, 208/230V, 3PH                        | —         | 1028254 |        |         |
|          |                      | 80kW, 208/230V, 3PH                        | —         |         |        | 1028252 |
|          |                      | 10kW, 460V, 3PH                            | 1028253   | —       |        |         |
|          |                      | 20kW, 460V, 3PH                            | 1028253   |         |        | —       |
|          |                      | 30kW, 460V, 3PH                            | 1028255   |         |        | 1028251 |
|          |                      | 40kW, 460V, 3PH                            | 1028255   |         |        | 1028253 |
|          |                      | 60kW, 460V, 3PH                            | —         | 1028255 |        |         |
|          |                      | 80kW, 460V, 3PH                            | —         |         |        | 1028253 |

## ECONOMIZER COMPONENTS

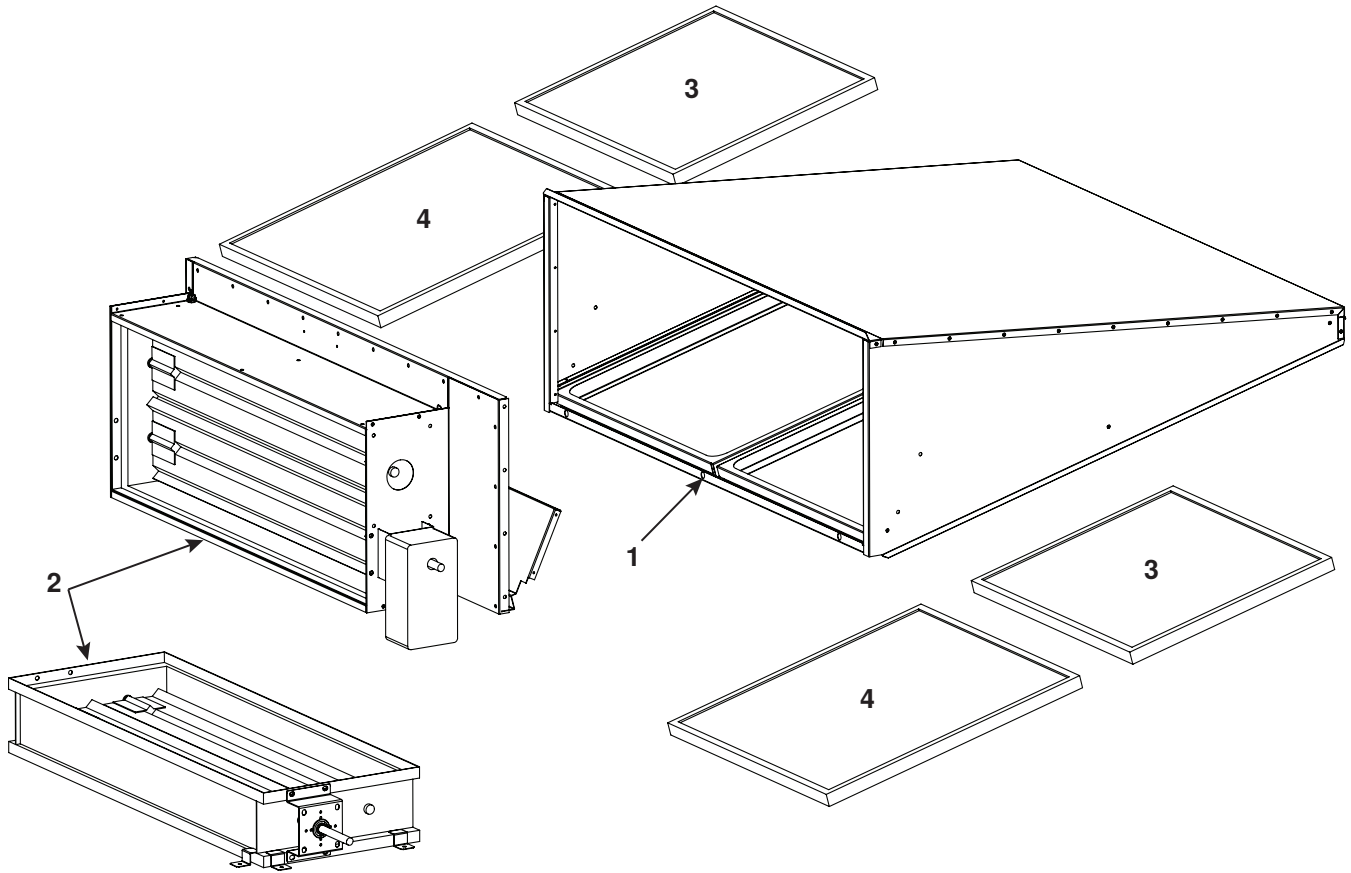


Figure 5. Economizer (Refer to [Table 5](#))

| Table 5. Economizer Components |                 |                                  |                |     |     |     |
|--------------------------------|-----------------|----------------------------------|----------------|-----|-----|-----|
| Item No.                       | Component       | Description                      | Unit Size      |     |     |     |
|                                |                 |                                  | 072            | 090 | 120 | 150 |
|                                |                 |                                  | PN (Quantity)* |     |     |     |
| 1                              | Hood kit        | Economizer intake, downflow      | 1024126        |     |     |     |
| 2                              | Damper assembly | Outdoor air (option AR8)         | 1024275        |     |     |     |
|                                |                 | Outdoor air (option AR25)        | 1024240        |     |     |     |
| 3                              | Filter          | Permanent, aluminum, 16 × 20 × 1 | 101607 (2)     |     |     |     |
| 4                              |                 | Permanent, aluminum, 20 × 20 × 1 | 101608 (2)     |     |     |     |

\*Quantity is one (1) unless otherwise indicated.

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## FIELD-INSTALLED OPTIONS

| Table 6. Field-Installed Conversion Kits |                     |                  |         |
|------------------------------------------|---------------------|------------------|---------|
| Conversion Type                          | Heat Section Option | Elevation (Feet) | PN      |
| Natural gas to propane                   | H100                | 2001–9000        | 1011435 |
|                                          |                     | 9001–10,000      | 1011436 |
|                                          | H225                | 2001–5000        | 1011435 |
|                                          |                     | 5001–10,000      | 1011436 |
|                                          | H166, H200          | 2001–10,000      | 1011436 |
| Natural gas high-altitude                | H100                | 2001–9000        | 1011437 |
|                                          |                     | 9001–10,000      | 1011438 |
|                                          | H166, H200, H225    | 2001–6000        | 1011437 |
|                                          |                     | 6001–10,000      | 1011438 |

