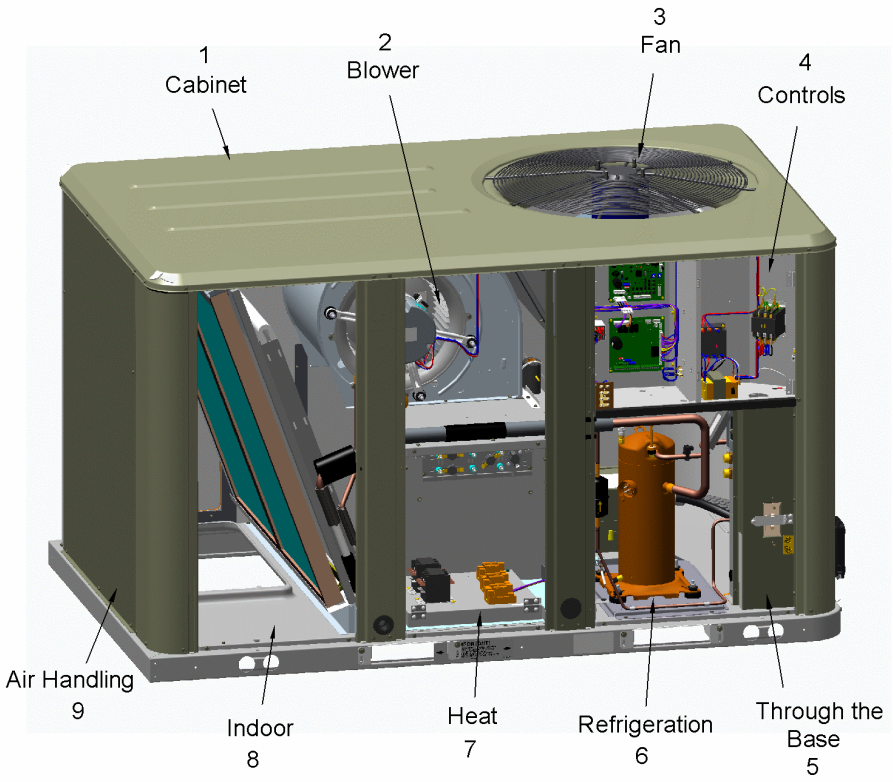
# PACKAGED COOLING / HEAT PUMP

75011213

REV A

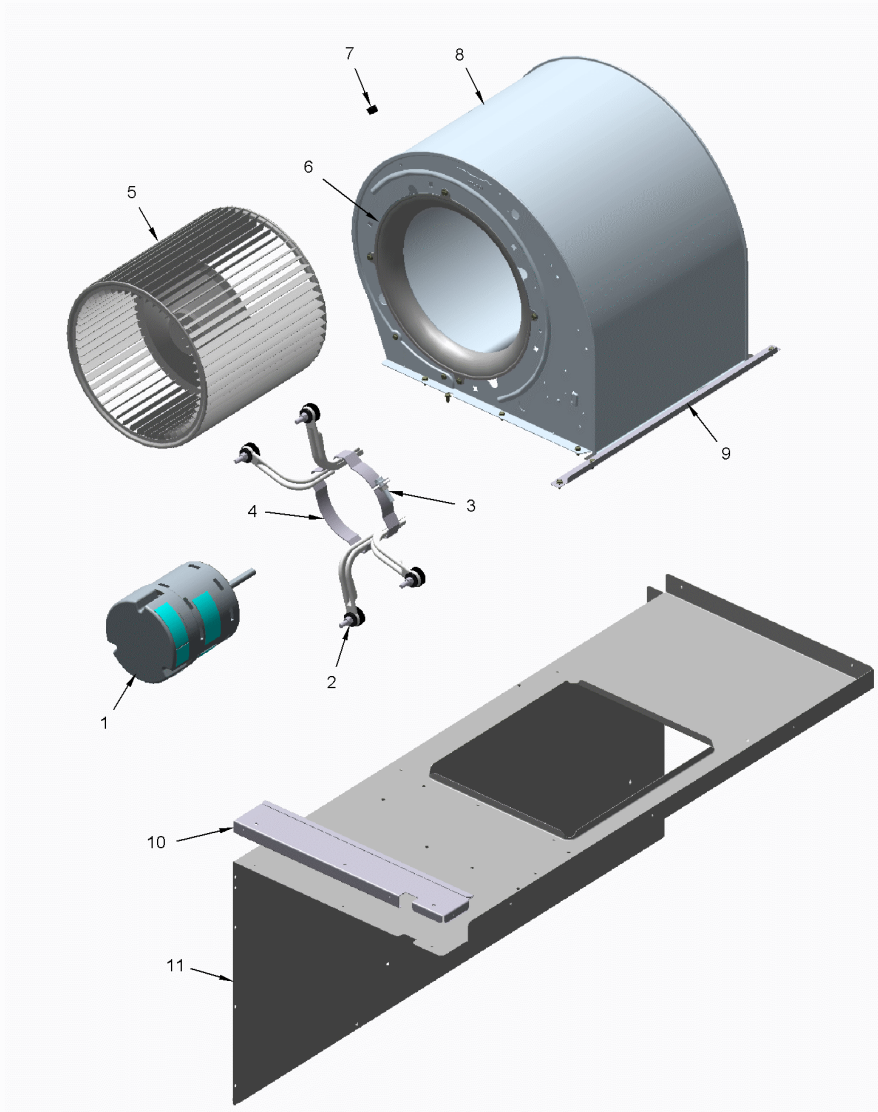
The sections that appear on this illustration are for all options.
Sections and options will appear in the Parts List if ordered with the unit.




This is a typical illustration. The unit in the field may not appear exactly as shown.

| Part No. | Reference No. | Quantity | Description |
|---|---|---|---|
| 75011208 | 2 | | BLOWER |
| 75011210 | 3 | | FAN |
| 75011227 | 4 | | CONTROL PANEL |
| 75010620 | 6 | | OUTDOOR AIR SENSOR |
| 75011206 | 6 | | REFRIGERATION - COMPRESSOR, INDOOR/OUTDOOR COILS, FILTERS |
| 75011215 | 8 | | FROSTAT |
| OPTIONS | 10 | | OPTIONAL FIELD INSTALLED ACCESSORIES |
| 75011255 | 11 | | MODEL NUMBER DESCRIPTION, DIGITS 1-17 |
| 75011256 | 11 | | MODEL NUMBER DESCRIPTION, DIGITS 18-31 |
| 75011257 | 11 | | MODEL NUMBER NOTES |

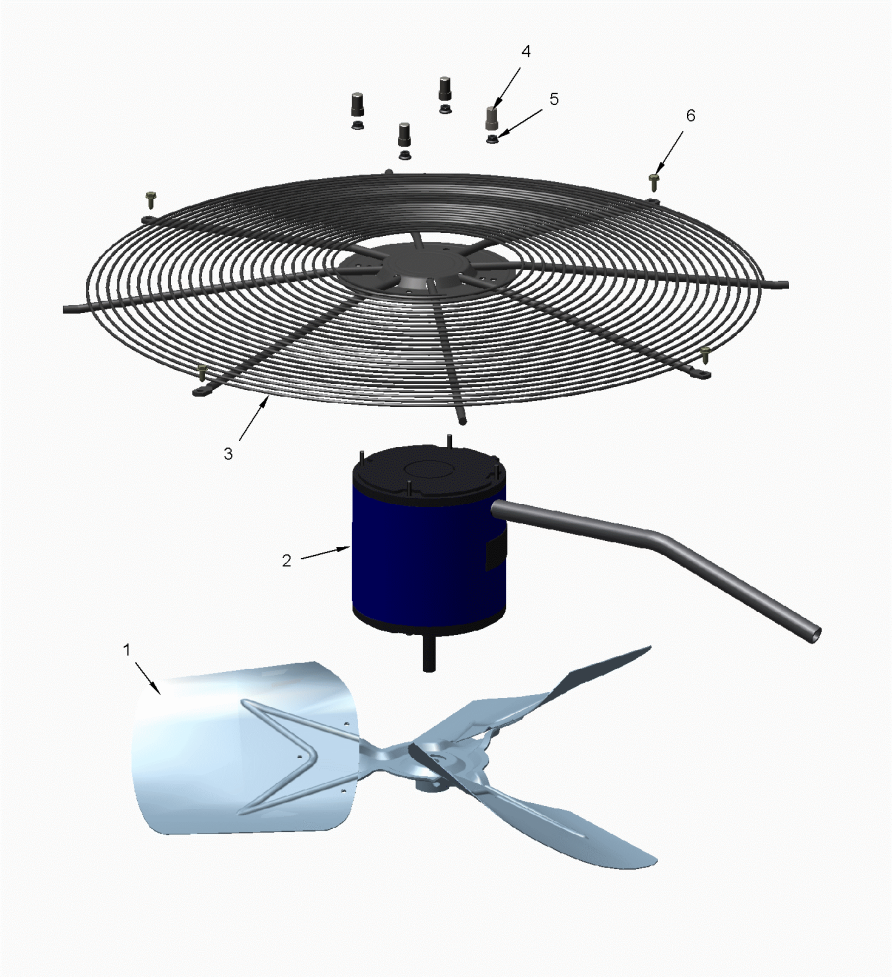
BLOWER 75011208 REV A




This is a typical illustration. The unit in the field may not appear exactly as shown.

| Part No. | Reference No. | Quantity | Description |
|---|---|---|---|
| SCR01623 | * | 17 | SCREW; SHEET METAL, 10-16 UNC X 1/2, HIGH TORQUE, INDENT HEX-WASHER HEAD |
| BRK03657 | 2 | 4 | BRACKET; MOTOR ARM, INCLUDES GROMMET. (CONTAINS A QTY OF 4 BRACKETS) |
| NUT00355 | 2 | 4 | NUT; HEX, LOCK, 5/16IN.-18 |
| NUT00446 | 3 | 1 | NUT; 0.31-18, HEX FLANGE-LOCK |
| BRK03232 | 4 | 1 | BRACKET; MOTOR MOUNTING, 17.6 LENGTH (4 LEG) |
| WHL02168 | 5 | 1 | WHEEL; FAN, 11.87 DIA X 11.93 W, .50 BORE, CCW, CONCAVE. INCLUDES 5/16-18 X 1/2 INCH SQH CUP PT SET SCREW. |
| ORF01304 | 6 | 1 | ORIFICE; INLET RING, 10.38 ID |
| BUS00485 | 7 | 1 | BUSHING; .62 MTG W/MAX .44 ID |
| HUS03676 | 8 | 1 | HOUSING; BLOWER, 11 X 11 |
| BRK04715 | 9 | 1 | BRACKET; INDOOR FAN, 22.00L X 0.90W X 0.50H |
| BRK04716 | 10 | 1 | BRACKET; FAN ACCESS PANEL, 17.13L X 3.16W X 1.0H |
| PNL33591 | 11 | 1 | PANEL; HEAT WRAPPER, 42.23L X 19.00W X 19.25H, 14.63 X 12.18 OPENING |

FAN 75011210 REV A




This is a typical illustration. The unit in the field may not appear exactly as shown.

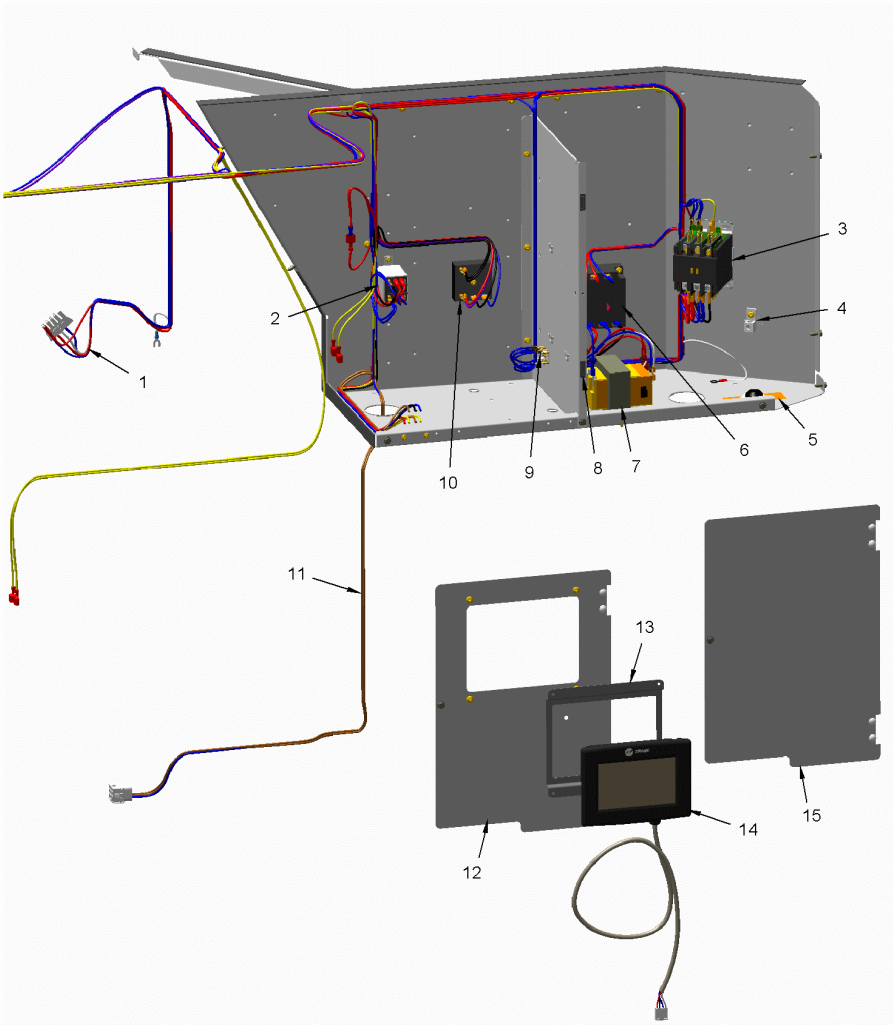
| Part No. | Reference No. | Quantity | Description |
|---|---|---|---|
| FAN05568 | 1 | 1 | PROPELLER; OD FAN - 22 INCH 3 BLADES |
| MOT17284 | 2 | 1 | MOTOR; 3 PHASE 1/3 HP 208 |
| GRL01332 | 3 | 1 | GRILLE; FAN, 26.65 MTG HOLE DIAMETER |
| IRT00017 | 4 | 4 | INSERT; BUMPER-STOP, 0.468 OD X 0.81 LG, BLACK RUBBER |
| NUT00845 | 5 | 4 | NUT; FLANGE NIBBED |
| SCR01623 | 6 | 4 | SCREW; SHEET METAL, 10-16 UNC X 1/2, HIGH TORQUE, INDENT HEX-WASHER HEAD |

# CONTROL PANEL

75011227

REV A

The parts that appear on this illustration are for all options.
Parts will appear in the Parts List if ordered with the unit.




This is a typical illustration. The unit in the field may not appear exactly as shown.

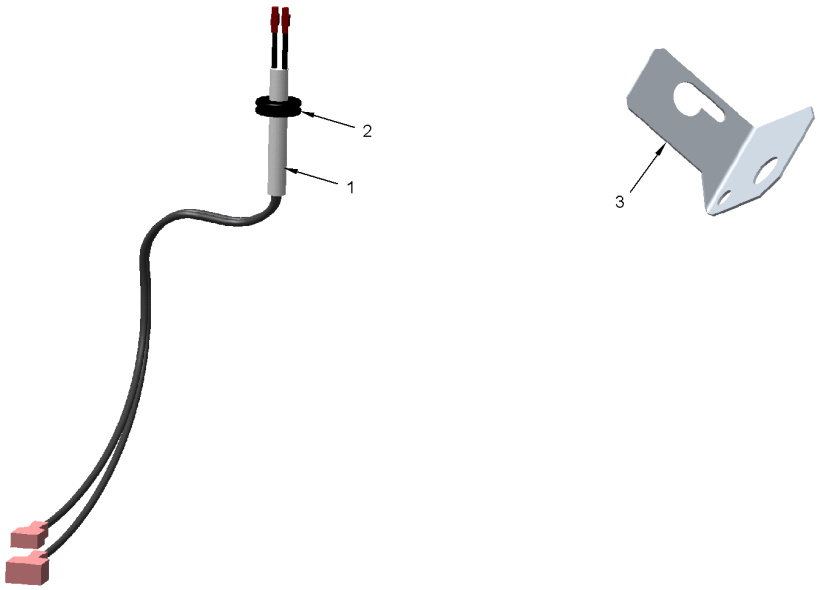
| Part No. | Reference No. | Quantity | Description |
|---|---|---|---|
| WIR03230 | * | 1 | WIRE; HARNESS, CRANKCASE HEATER, W/CTL |
| WIR08183 | 1 | 1 | WIRE; HARNESS, POWER, CONTROLS TO IDM |
| RLY03065 | 2 | 1 | RELAY; DPDT, 5 AMPS AT 120/277 VAC, 24 VAC COIL, 750 RMS, COIL CLASS F |
| CTR01826 | 3 | 1 | CONTACTOR; 3 POLE, 30 FLA, 24 VAC COIL, WITH LUGS |
| CON00077 | 4 | 1 | CONNECTOR, ELECTRIC GROUND, 14-2 AWG SOLDERLESS |
| CNT01405 | 5 | 1 | CONTROL; TEMP, OPEN 65F, CLOSE 55F, SPST |
| CNT05176 | 6 | 1 | CONTROL; MONITOR, 3-PHASE LINE, UNIVERSAL 180-632 VAC, PHASE AND LOSS REVERSAL |
| TRR00825 | 7 | 1 | TRANSFORMER; 75 VA, 208-230V PRI, 24V SEC |
| CAT00043 | 8 | 2 | CATCH; MAGNETIC SNAP-IN |
| TER01680 | 9 | 1 | TERMINAL STRIP; .25IN. FASTON |
| TMR00193 | 10 | 1 | TIMER; SOLID STATE, DELAY ON BREAK, .25 MALE QC TERMINALS, 10 AMPS IN RUSH |
| WIR08175 | 11 | 1 | WIRE; HARNESS, ELECTROMECHANICAL CONTROLS, COOL ONLY, INCLUDES TER01680 & (W14_PPM2 9 PIN PLUG, 8 IN YL WIRE) |

## OUTDOOR AIR SENSOR

75010620

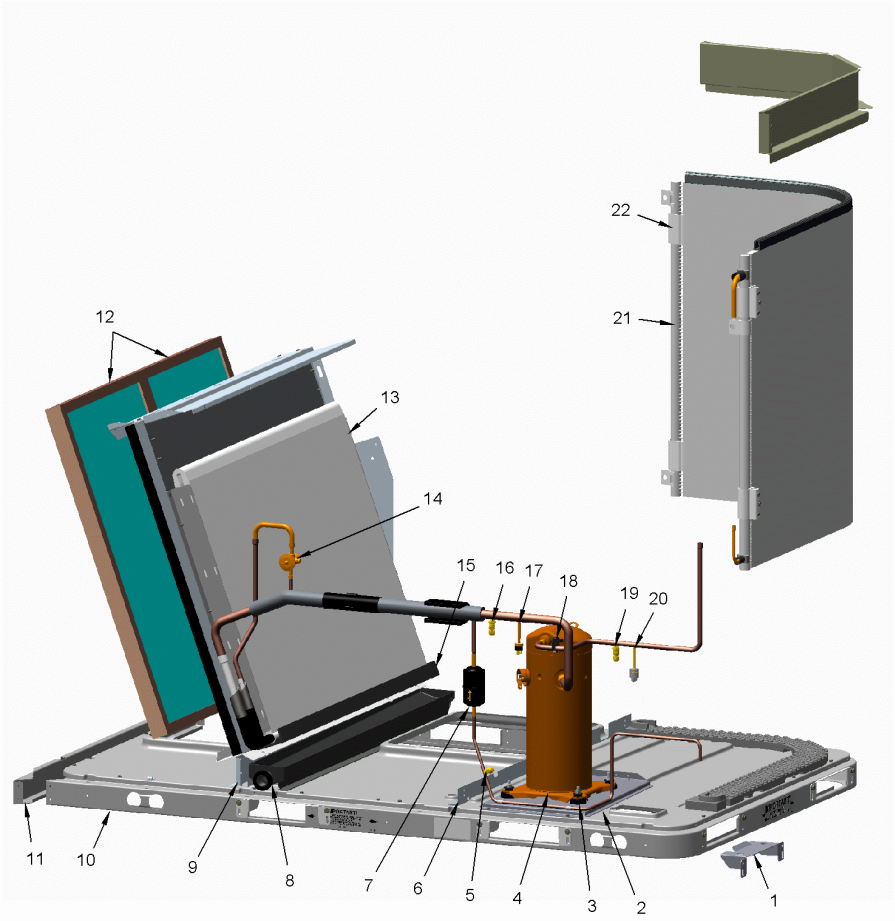
REV A

TYPICAL ILLUSTRATION



| Part No. | Reference No. | Quantity | Description |
|---|---|---|---|
| SCR01623 | * | 4 | SCREW; SHEET METAL, 10-16 UNC X 1/2, HIGH TORQUE, INDENT HEX-WASHER HEAD |
| SEN00275 | 1 | 1 | SENSOR; THERMISTOR PROBE, -40 DEG C TO 65 DEG C, 12 INCH STRIPPED LEADS |
| GRM00039 | 2 | 1 | GROMMET; RUBBER .25 ID X .05 GRV MLD |
| BRK04441 | 3 | 1 | BRACKET; OUTDOOR AIR SENSOR |

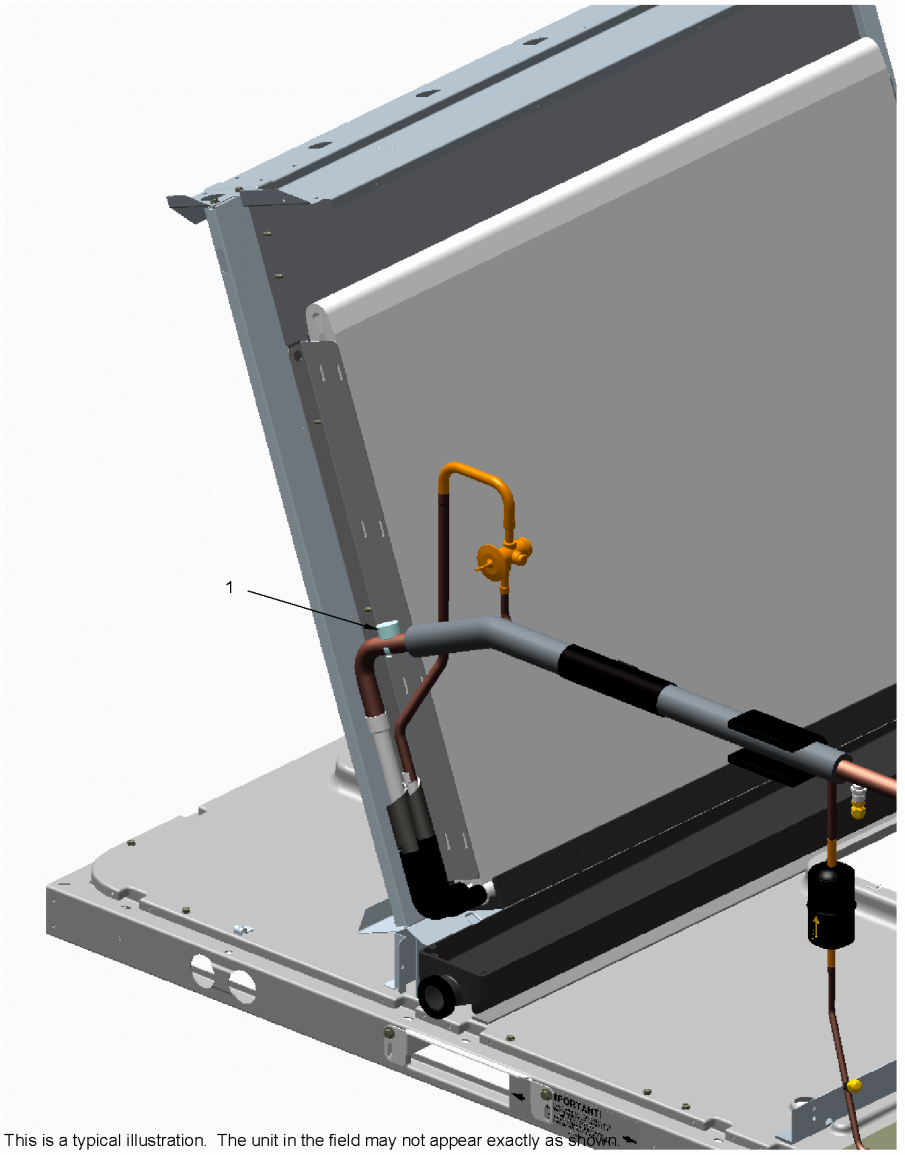
REFRIGERATION 75011206 REV A




This is a typical illustration. The unit in the field may not appear exactly as shown.

| Part No. | Reference No. | Quantity | Description |
|---|---|---|---|
| BOF02425 | * | 1 | BLOCKOFF; ID COIL TOP |
| BOF02426 | * | 1 | BLOCKOFF; ID COIL - BOTTOM |
| HTR03435 | * | 1 | HEATER; CRANKCASE, 6.5 DIA, 40W, 230V |
| TOL05032 | * | 1 | TOOL; FILTER REMOVAL |
| WIR03227 | * | 1 | WIRE; PLUG, 30 IN LENGTH, FOR 230/60/3 OR 460/60/3 OR 575/60/3 SCROLL COMPRESSOR (RD,BL,BK WIRES) |
| BRK03274 | 1 | 4 | BRACKET; BASE SUPPORT MOUNT, 10.3 LENGTH (FORKLIFT BRACKET) |
| PLT04187 | 2 | 1 | PLATE; COMPRESSOR MOUNTING, 17.0 X 11.0 |
| ISR00007 | 3 | 4 | ISOLATOR; VIBRATION |
| NUT00355 | 3 | 4 | NUT; HEX, LOCK, 5/16IN.-18 |
| COM10275 | 4 | 1 | COMPRESSOR; SCROLL; ALLIANCE; R-410A; 3.5 TON (42,000 BTU/H); 208-230/3/60; 3/4"S X 1/2"D STUB CONNECTIONS; USES OIL00094; ALLIANCE SXA042B3BPZ |
| COR00006 | 5 | 1 | CORE; VALVE PORT, .79 LENGTH, .206-36 UNS 2A THD |
| VAL01483 | 5 | 1 | VALVE; BODY, .44-20 THD X .25 ODS, STRAIGHT, BRASS, LESS CORE |
| ANG01323 | 6 | 1 | ANGLE; TOGGLE LOCK, 41.93 X 1.80 |
| DHY01511 | 7 | 1 | DRIER; FILTER, LIQUID LINE, 5/16 ODM INLET X 5/16 ODF OUTLET, 8 CU INCH |
| RAL00873 | 10 | 1 | RAIL; BASE, 69.8 X 44.2 (3 SIDES,U SHAPED) |
| RAL00874 | 11 | 1 | RAIL; END, 44.0 LENGTH |
| COL25998 | 13 | 1 | COIL; ASSEMBLY; INDOOR COIL, MC |
| VAL12334 | 14 | 1 | VALVE; EXPANSION; TR6 4T |
| PAN03947 | 15 | 1 | PAN; DRAIN, CONDENSATE REMOVAL, 39.47 L, ATTACHES TO BOTTOM OF THE ID COIL |
| CAP00072 | 16 | 1 | CAP; VALVE, SEAL, .25 FFL |
| SET00819 | 16 | 1 | SEAT; SADDLE MOUNT ASSEMBLY |
| STM00803 | 16 | 1 | STEM; SADDLE MOUNT, VALVE CORE, BRASS, .344 DIA X 1.29 SCHRAEDER TYPE FITTING (TO INCLUDE 5 PIECES) |
| SWT03623 | 17 | 1 | SWITCH; LOW PRESSURE CUTOUT, 250 OPEN, ACTUATION PRESSURE 55 +/- 5, RESET PRESSURE 35 +/- 5 |
| WIR04406 | 17 | 1 | WIRE; HARNESS, LOW PRESSURE SWITCH, 42 IN LENGTH, BLUE WIRES, CIR 1 |
| THT02805 | 18 | 1 | THERMOSTAT; WITH CLIP, .5/.625 TUBE, 38 IN, BLACK WIRES, SPST, 230F OPEN, 180F CLOSE |
| CAP00072 | 19 | 1 | CAP; VALVE, SEAL, .25 FFL |
| SET00819 | 19 | 1 | SEAT; SADDLE MOUNT ASSEMBLY |
| STM00803 | 19 | 1 | STEM; SADDLE MOUNT, VALVE CORE, BRASS, .344 DIA X 1.29 SCHRAEDER TYPE FITTING (TO INCLUDE 5 PIECES) |
| SWT03398 | 20 | 1 | SWITCH; HIGH PRESSURE, BRAZED, OPENS AT 650 PSIG, CLOSES AT 550 PSIG, 36 INCH WHITE LEADS |
| CLP01257 | 22 | 4 | CLIP; 16.0MM MC MOUNTING (QTY 4) |

FROSTAT 75011215 REV A




This is a typical illustration. The unit in the field may not appear exactly as shown.

| Part No. | Reference No. | Quantity | Description |
|---|---|---|---|
| CNT07569 | 1 | 1 | CONTROL; DEFROST, SPDT, 3 |

| Part No. | Reference No. | Quantity | Description |
|---|---|---|---|
| BAYGARD137A | * | 1 | ACCY; PRECEDENT HAIL GUARD |
| BAYHTRE306C | * | 1 | 4.5/6.0 KW SUPPLEMENTARY HTR |
| BAYHTRE312C | * | 1 | 9.0/12.0 KW SUPPLEMENTARY HTR |
| BAYHTRE318C | * | 1 | 13.0/17.4 KW SUPPLEMENTARY HTR |
| BAYLMSW001A | * | 1 | POWER EXHAUST LIMIT SWITCH |
| BAYPWRX070A | * | 1 | POWER EXHAUST, 230V, FOR 3-5 TON T/W/YSC, D/T/W/YHC, T/YZC |
| BAYTUBE105A | * | 1 | KIT; DISCHARGE AIR SENSING, ELECTRIC HEAT, F CAB |
| CRB00170 | * | 1 | CURB; ADAPTA CURB (BAYQACB009AA), TRANSITIONS BAYCURB021B, 78.125 X 43.875 |
| CRB00171 | * | 1 | CURB; ADAPTA CURB (BAYQACB010AA), TRANSITIONS BAYCURB022B, 77.625 X 46.875 |
| CRB00175 | * | 1 | CURB; ROOFCURB (BAYCURB042AB) |
| DMP02175 | * | 1 | DAMPER; 0-50% MANUAL OUTSIDE AIR DAMPER (BAYDMPR053BA) |
| DMP02839 | * | 1 | DAMPER; BAROMETRIC RELIEF (BAYBARM010AB) |
| DMP03538 | * | 1 | DAMPER; 0-50 PERCENT MOTORIZED OUTSIDE AIR DAMPER, ELECTROMECHANICAL (BAYDMPR052B) |
| ECN00237 | * | 1 | ECONOMIZER; ELECTROMECHANICAL, 0-100% DRY BULB (BAYECON086B) |
| KIT06658 | * | 1 | KIT; ENTHALPY CONTROL (BAYENTH001AB) |
| KIT09433 | * | 1 | KIT; ACCESSORY, OPTIONS BOARD (BAYABRD001CA) |
| KIT13704 | * | 1 | KIT; FAN FAILURE SWITCH (BAYDFPS004AB). (OPTIONS BOARD KIT09433-BAYABRD001CA MUST BE INSTALLED IN THE UNIT FOR THIS ACCESSORY TO OPERATE). |
| KIT15864 | * | 1 | KIT; BACNET COMMUNICATION INTERFACE, RELIATEL (BCI-R KIT FIELD INSTALLATION KIT) (BABCIR001A) |
| SEN00435 | * | 1 | SENSOR; ZONE LEVEL 4 (BAYSENS017BB) REMOTE ROOM SENSOR |
| SEN00496 | * | 1 | SENSOR; ZONE LEVEL 4 (TRANE). (BAYSENS014CA) ROOM SENSOR W/ TEMP. ADJUSTMENT WITH OVERRIDE AND CANCEL BUTTONS |
| SEN01287 | * | 1 | SENSOR; 6" THERM DUCT/IMM TEMPERATURE (BAYSTAT170A) |
| SEN01448 | * | 1 | SENSOR; ZONE, REMOTE ROOM SENSOR, 10K (BAYSENS077AA) |
| TMR00140 | * | 1 | TIMER; ANTISHORT CYCLE (BAYASCT001) |

# MODEL NUMBER NOTES

75011257

REV A

Precedent Cooling and Gas/Electric

*Example Model Number:*

**YSC063G4RHA0AG0C1C2B203DHC100F1**

1 - - - 5 - - - - 10 - - - - 15 - - - - 20 - - - - 25 - - - - 30 -

**Model Number Notes**

(1) Manual outside air damper will ship factory supplied within the unit, but must be field installed.

(2) Economizer with Barometric Relief is for downflow configured units only. Order Economizer without Barometric Relief for horizontal configuration. Barometric Relief for horizontal configured units must be ordered as a field installed accessory.

(3) Not available with Electromechanical controls.

(4) Epoxy coil and epoxy with hailguard option not available for units with microchannel Coils.

(5) Through the base electric required when ordering disconnect/circuit breaker options.

(6) Includes gas piping and shutoff (field assembly required). *Digits 18=B,C applicable to Digit 1,Y models only .*

(7) Requires use of Disconnect or Circuit Breaker.

(8) Standard metering devices are TXVs.

(9) High pressure control is standard on all units

(10) Frostat™cannot be field installed in electromechanical units. Frostat ™is standard on Y/TSC033 to 063G electromechanical units.

(11) Not available with high temperature duct sensor accessory.

(12) The return air smoke detector may not fit up or work properly on the Precedent units when used in conjunction with 3rd party accessories such as bolt on heat wheels, economizers and power exhaust. Do not order the return air smoke detectors when using this type of accessory.

(13) Return air smoke detector cannot be ordered with Novar controls.

(14) The Clogged Filter Switch, Fan Failure Switch and Discharge Air Sensing Tube are standard when ordering Novar controls.

(15) The Clogged Filter Switch, Fan Failure Switch and Discharge Air Sensing Tube are ordering Novar controls.

(16) Novar sensor utilized with 21=(4) Novar 3051 controls without zone sensor.

(17) Demand Control Ventilation Option includes wiring only. The $CO_2$ sensor is a field-installed only option.

# MODEL NUMBER DESCRIPTION

75011256

REV A

Precedent Cooling and Gas/Electric

*Example Model Number:*

**YSC063G4RHA0AG0C1C1B203DHC100F1**

1 - - - 5 - - - - 10 - - - - 15 - - - - 20 - - - - 25 - - - - 30 -

**Digit 18 – Through the Base Provisions**
- 0 = No Through-the-Base Provisions
- A = Through-the-Base Electric (5)
- B = Through-the-Base Gas Piping (6)
- C = Through-the-Base Electric and Gas Piping (6)

**Digit 19 – Disconnect/Circuit Breaker**
- 0 = No Disconnect/No Circuit Breaker
- 1 = Unit Mounted Non-Fused Disconnect (5)
- 2 = Unit Mounted Circuit Breaker (5)

**Digit 20 – Convenience Outlet**
- 0 = Convenience Outlet
- A = Unpowered Convenience Outlet
- B = Powered Convenience Outlet (7)

**Digit 21 – Communications Options** (3)
- 0 = No Communications Interface
- 1 = Trane® Communications Interface
- 2 = LonTalk® Communications Interface
- 3 = Novar 2024 Controls
- 4 = Novar 3051 Controls without Zone Sensor
- 5 = Novar 3051 Controls Interface with DCV
- 6 = BACnet® Communications Interface
- 7 = Wireless Building Automation Control Network Communications Interface

**Digit 22 – Refrigeration System Option**
- 0 = Standard Refrigeration System (8)

**Digit 23 – Refrigeration Controls**
- 0 = Without Refrigeration Controls (9)
- 1 = Frostat™ (10)
- 2 = Crankcase Heater
- 3 = Frostat™ (10) and Crankcase Heater

**Digit 24 – Smoke Detector** (11)
- 0 = No Smoke Detector
- A = Return Air Smoke Detector (12,13)
- B = Supply Air Smoke Detector
- C = Supply and Return Air Smoke Detectors (12,13)
- D = Plenum Smoke Detector

**Digit 25 – System Monitoring Controls** (14)
- 0 = No Monitoring System
- 1 = Clogged Filter Switch
- 2 = Fan Failure Switch
- 3 = Discharge Air Sensing Tube
- 4 = Clogged Filter Switch and Fan Failure Switch
- 5 = Clogged Filter Switch and Discharge Air Sensing Tube
- 6 = Fan Failure Switch and Discharge Air Sensing Tube
- 7 = Clogged Filter Switch, Fan Failure Switch and Discharge Air Sensing Tube
- 8 = Novar Return Air Sensor (NOVAR 2024) (15)
- 9 = Novar Zone Temp Sensor (NOVAR 3051) (16)
- A = Condensate Drain Pan Overflow Switch
- B = Clogged Filter Switch and Condensate Drain Pan Overflow Switch
- C = Fan Failure Switch and Condensate Drain Pan Overflow Switch
- D = Discharge Air Sensing and Condensate Drain Pan Overflow Switch
- E = Clogged Filter Switch, Fan Failure Switch, and Condensate Drain Pan Overflow Switch
- F = Clogged Filter Switch, Discharge Air Sensing, and Condensate Drain Pan Overflow Switch
- G = Fan Failure Switch, Discharge Air Sensing and Condensate Drain Pan Overflow Switch
- H = Clogged Filter Switch, Fan Failure Switch, Discharge Air Sensing,and Condensate Drain Pan Overflow Switch

**Digit 26 – System Monitoring Controls**
- 0 = No Monitoring Controls
- A = Demand Control Ventilation ($CO_2$) (17)
- B = Low Leak Economizer with FDD (Fault Detection & Diagnostics)
- C = FDD (Fault Detection & Diagnostics) with DCV (Demand Control Ventilation)

**Digits 27 – Unit Hardware Enhancements**
- 0 = No Enhancements
- 1 = Stainless Steel Drain Pan

**Digit 31 – Advanced Unit Controls**
- 0 = Standard Unit Controls
- 1 = Human Interface

# MODEL NUMBER DESCRIPTION

75011255 REV A

Precedent Cooling and Gas/Electric

*Example Model Number:*

**YSC063G4RHA0AG0C1C2B203DHC100F1**

1 - - - 5 - - - - 10 - - - - 15 - - - - 20 - - - - 25 - - - - 30 -

**Digit 1 – Unit Type**
T = DX Cooling
Y = DX Cooling, Gas Heat

**Digit 2 – Efficiency**
S = Standard Efficiency

**Digit 3 – Airflow**
C = Convertible

**Digits 4,5,6 – Nominal Gross Cooling Capacity (MBh)**
033 = 3 Ton (13 SEER)
036 = 3 Ton
043 = 4 Ton (13 SEER)
048 = 4 Ton
060 = 5 Ton
063 = 5 Ton (13 SEER)

**Digit 7 – Major Design Sequence**
G = Microchannel Type Evaporator and Condenser Coils

**Digit 8 – Voltage Selection**
3 = 208-230/60/3
4 = 460/60/3
W = 575/60/3

**Digit 9 – Unit Controls**
E = Electromechanical
R = ReliaTel™ Microprocessor

**Digit 10 – Heating Capacity**
0 = No Electric Heat
B = 6 kW (3 phase)
E = 12 kW (3 phase)
G = 18 kW (3 phase)
J = 23 W (3 phase)
L = Low Heat
M = Medium Heat
H = High Heat
X = Low Heat, Stainless Steel Heat Exchanger
Y = Medium Heat, Stainless Steel Heat Exchanger
Z = High Heat, Stainless Steel Heat Exchanger

**Digit 11 – Minor Design Sequence**
A = First Sequence

**Digits 12, 13 – Service Sequence**
** = Factory Assigned

**Digit 14 – Fresh Air Selection**
0 = No Fresh Air
A = Manual Outside Air Damper 0-50% (1)
B = Motorized Outside Air Damper 0-50%
C = Economizer, Dry Bulb 0-100% without Barometric Relief (2)
D = Economizer, Dry Bulb 0-100% with Barometric Relief (2)
E = Economizer, Reference Enthalpy 0-100% without Barometric Relief (2,3)
F = Economizer, Reference Enthalpy 0-100% with Barometric Relief (2,3)
G = Economizer, Comparative Enthalpy 0-100% without Barometric Relief (2,3)
H = Economizer, Comparative Enthalpy 0-100% with Barometric Relief (2,3)
K = Low Leak Economizer with Barometric Relief
M = Low Leak Economizer with Reference Enthalpy with Barometric Relief
P = Low Leak Economizer with Comparative Enthalpy with Barometric Relief

**Digits 15 – Supply Fan/Drive Type/Motor**
0 = Multi Speed Direct Drive Motor
1 = Oversized Motor

**Digit 16 – Hinged Service Access/Filters**
0 = Standard Panels/Standard Filters
A = Hinged Access Panels/Standard Filters
B = Standard Panels/2" MERV 8 Filters
C = Hinged Access Panels/2" MERV 8 Filters
D = Standard Panels/2" MERV 13 Filters
E = Hinged Access Panels/2" MERV 13 Filters

**Digit 17 – Condenser Coil Protection** (4)
0 = Standard Coil
1 = Standard Coil with Hail Guard
4 = CompleteCoat Condenser Coil
5 = CompleteCoat Condenser Coil with Hail Guard