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# REPLACEMENT PARTS MANUAL

# PACKAGE HEAT PUMP

Models:

**PH13242-A**

**PH13302-A**

**PH13362-A**

**PH13362-B**

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## General Notes

- Revised and/or additional pages may be issued from time to time.
- A complete and current manual consists of pages shown in the following contents section.

## Important

- Contact the installing and/or local Bard distributor for all parts requirements. Make sure you have the complete model and serial number available from the unit rating plates.

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Bard Manufacturing Company, Inc.  
Bryan, Ohio 43506

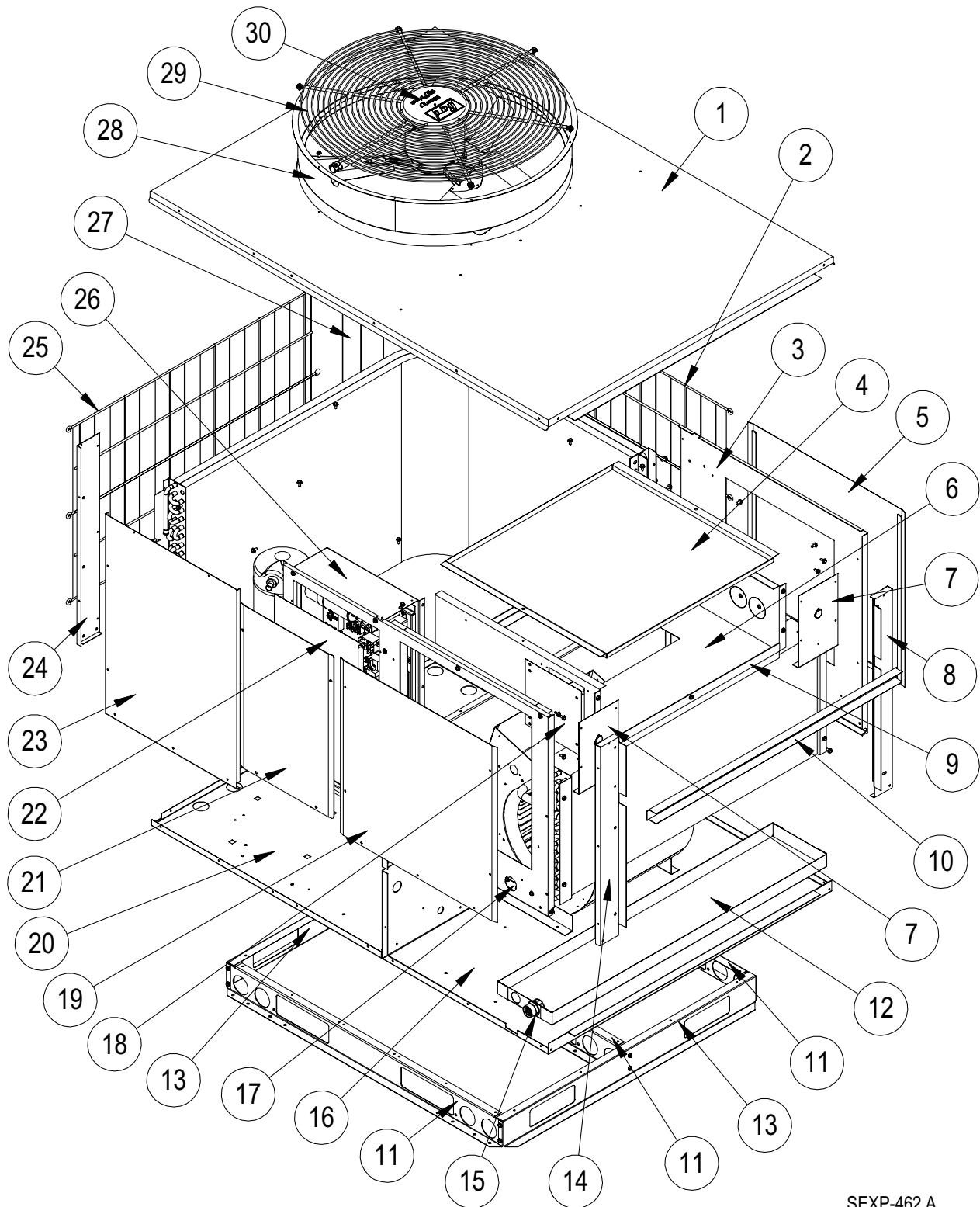
*Since 1914...Moving, ahead just as planned.*

Manual: 2110-262C  
Supersedes: 2110-262B  
File: Tab 11  
Date: 04-24-09

CLIMATE CONTROL SOLUTIONS

## CABINET COMPONENTS

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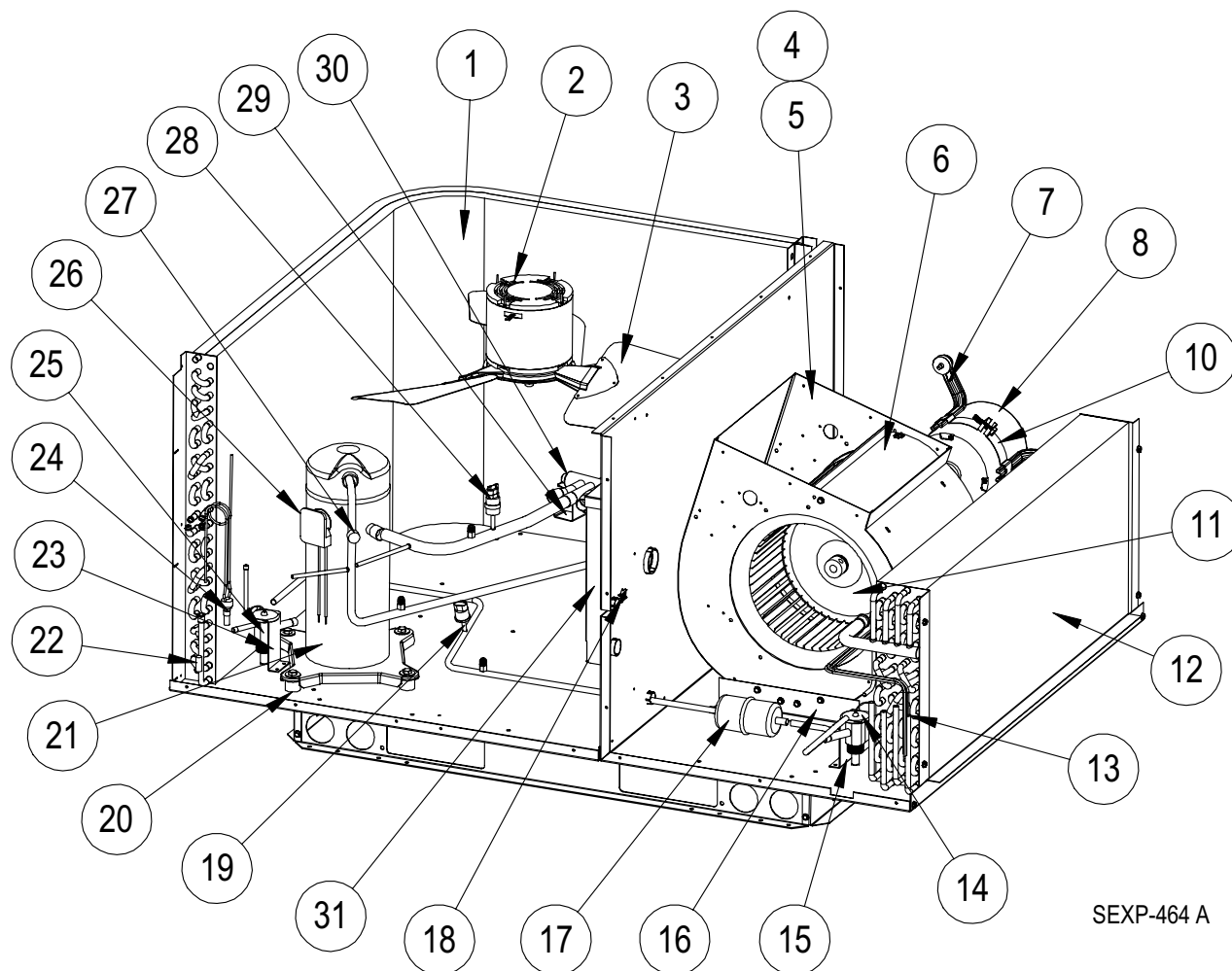
SEXP-462 A

## CABINET COMPONENTS

| Drawing No. | Part No.                             | Description                | PH13242-A | PH13302-A | PH13362-A | PH13362-B |
|-------------|--------------------------------------|----------------------------|-----------|-----------|-----------|-----------|
| 1           | 507-252-X                            | Top                        | X         | X         | X         | X         |
| 2           | 7051-052                             | Side Condenser Grille      | X         | X         | X         | X         |
| 3           | 501-468-X                            | Left Side                  | X         | X         | X         | X         |
| 4           | 134-017                              | Heat Strip Shield          | X         | X         | X         | X         |
| 5           | S553-394-X                           | Heater Access Door         | X         | X         | X         | X         |
| 6           | 521-397                              | Blower Partition           | X         | X         | X         | X         |
| 7           | 137-504                              | Blower Partition Side Fill | 2         | 2         | 2         | 2         |
| 8           | 549-101-X                            | Left Rear Corner           | X         | X         | X         | X         |
| 9           | 104-1174                             | Plenum Support Angle       | X         | X         | X         | X         |
| 10          | 165-589-X                            | Plenum Channel             | X         | X         | X         | X         |
| 11          | 103-475-X                            | Base Rail Side             | 3         | 3         | 3         | 3         |
| 12          | S123-113                             | Drain Pan with Fitting     | X         | X         | X         | X         |
| 13          | 103-476-X                            | Base Rail End              | 2         | 2         | 2         | 2         |
| 14          | 549-102-X                            | Right Rear Corner          | X         | X         | X         | X         |
| 15          | 6094-003                             | Drain Pan Fitting          | X         | X         | X         | X         |
| 16          | S127-378-X                           | Indoor Base                | X         | X         | X         | X         |
| 17          | S501-467-X                           | Right Side                 | X         | X         | X         | X         |
| 18          | 142-017                              | 0KW Cover Plate            | X         | X         | X         | X         |
| 19          | S553-402-X                           | Blower Access Door         | X         | X         | X         | X         |
| 20          | 127-377-X                            | Outdoor Base               | X         | X         | X         | X         |
| 21          | S153-395-X                           | Outer Control Panel Door   | X         | X         | X         | X         |
| 22          | S153-397                             | Inner Control Panel Door   | X         | X         | X         | X         |
| 23          | S153-396-X                           | Compressor Access Door     | X         | X         | X         | X         |
| 24          | 149-100-X                            | Right Front Corner         | X         | X         | X         | X         |
| 25          | 7051-051                             | Front Condenser Grille     | X         | X         | X         | X         |
| 26          | Control Panel Assembly - See Drawing |                            | X         | X         | X         | X         |
| 27          | 149-099-X                            | Left Front Corner          | X         | X         | X         | X         |
| 28          | S167-014-X                           | Fan Venturi                | X         | X         | X         | X         |
| 29          | 7051-018                             | Fan and Motor Mount Grille | X         | X         | X         | X         |
| 30          | 5252-009                             | Bard Nameplate             | X         | X         | X         | X         |

## FUNCTIONAL COMPONENTS

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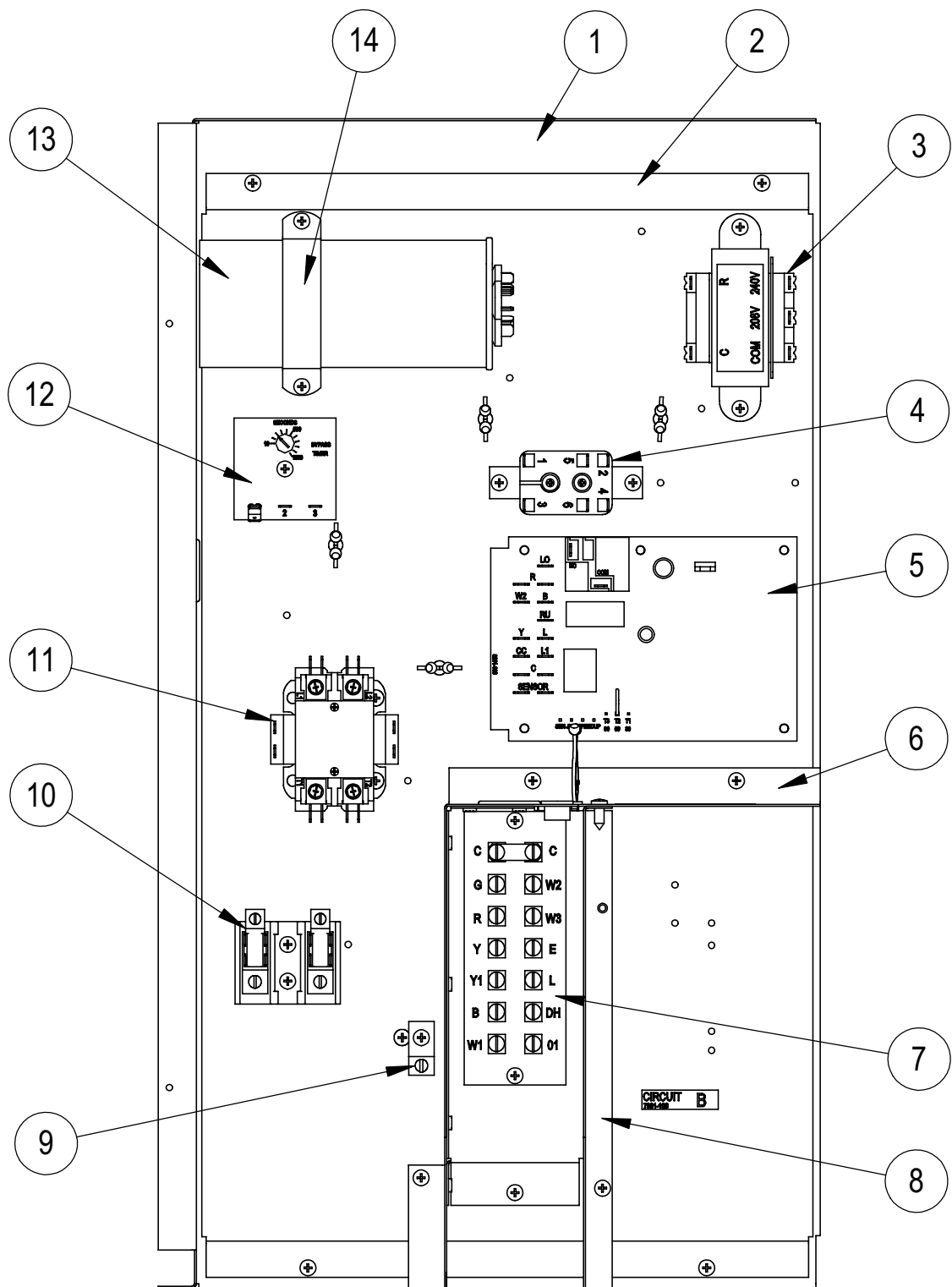
## FUNCTIONAL COMPONENTS

| Drawing No.          | Part No.                                     | Description                                                                      | PH13242-A | PH13302-A | PH13362-A | PH13362-B |
|----------------------|----------------------------------------------|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|
| 1<br>1               | 5051-132BX<br>5051-133BX                     | Condenser Coil                                                                   | X         | X         | X         | X         |
| 2                    | 8102-013                                     | Outdoor Motor                                                                    | X         | X         | X         | X         |
| 3                    | 5151-056                                     | Fan Blade                                                                        | X         | X         | X         | X         |
| 4<br>4               | 900-287-001<br>900-288-002                   | Complete Blower Assembly                                                         | X         | X         | X         | X         |
| 5                    | 151-097                                      | Blower Housing                                                                   | X         | X         | X         | X         |
| 6                    | 144-130                                      | Diffuser                                                                         | X         | X         | X         | X         |
| 7                    | 8620-034                                     | Motor Mount Kit                                                                  | X         | X         | X         | X         |
| 8<br>8               | 8105-056-0050<br>8106-045-0049               | Programmed 1/3 HP Motor<br>Programmed 1/2 HP Motor                               | X         | X         | X         | X         |
| 10                   | 8620-034                                     | Motor Mount Kit                                                                  | X         | X         | X         | X         |
| 11                   | 5152-049                                     | Blower Wheel                                                                     | X         | X         | X         | X         |
| 12<br>12             | 5060-125BX<br>5060-126BX                     | Evaporator Coil                                                                  | X         | X         | X         | X         |
| 13<br>13             | S800-0348<br>S800-0349                       | Cooling Distributor 4 Outlet                                                     | X         | X         | X         | X         |
| 14                   | 5651-177                                     | Cooling Expansion Valve                                                          | X         | X         | X         | X         |
| 15                   | 113-325                                      | Cooling TXV Mounting Bracket                                                     | X         | X         | X         | X         |
| 16                   | 104-1043                                     | Blower Leg                                                                       | 2         | 2         | 2         | 2         |
| 17                   | 5201-009                                     | Bi-Directional Filter Drier                                                      | X         | X         | X         | X         |
| 18                   | 3000-1236                                    | 6 Pin Plug for Heater Package                                                    | X         | X         | X         | X         |
| 19                   | 1804-0327                                    | High Pressure Switch                                                             | X         | X         | X         | X         |
| 20                   | 1012-217                                     | Cage Nut                                                                         | 4         | 4         | 4         | 4         |
| 21<br>21<br>21<br>21 | 8000-276<br>8000-277<br>8000-278<br>8000-283 | Compressor                                                                       | X         | X         | X         | X         |
| 22                   | 8620-095                                     | Defrost Sensor Replacement Kit                                                   | X         | X         | X         | X         |
| 23<br>23             | 112-326<br>112-325                           | Heating TXV Mounting Bracket                                                     | X         | X         | X         | X         |
| 24                   | S800-0347                                    | Heating Distributor 2 Outlet                                                     | N/A       | X         | X         | X         |
| 25                   | 5651-176                                     | Heating Expansion Valve                                                          | X         | X         | X         | X         |
| 26<br>26             | 3000-1237<br>3000-1244                       | Compressor Power Lead                                                            | X         | X         | X         | X         |
| 27                   | 8408-039                                     | Discharge Line Thermostat                                                        | X         | X         | X         | X         |
| 28                   | 1804-0338                                    | Low Pressure Switch                                                              | X         | X         | X         | X         |
| 29<br>29             | 5650-042<br>5650-046                         | 24V Solenoid Coil (Red Casing-Ranco)<br>24V Solenoid Coil (Black Casing-San Hua) | X         | X         | X         | X         |
| 30                   | 5650-038                                     | Reversing Valve w/Solenoid Coil                                                  | X         | X         | X         | X         |

N/A = Not Applicable

Reference SEXP-464A

# CONTROL PANEL — 1-PHASE



SEXP-465

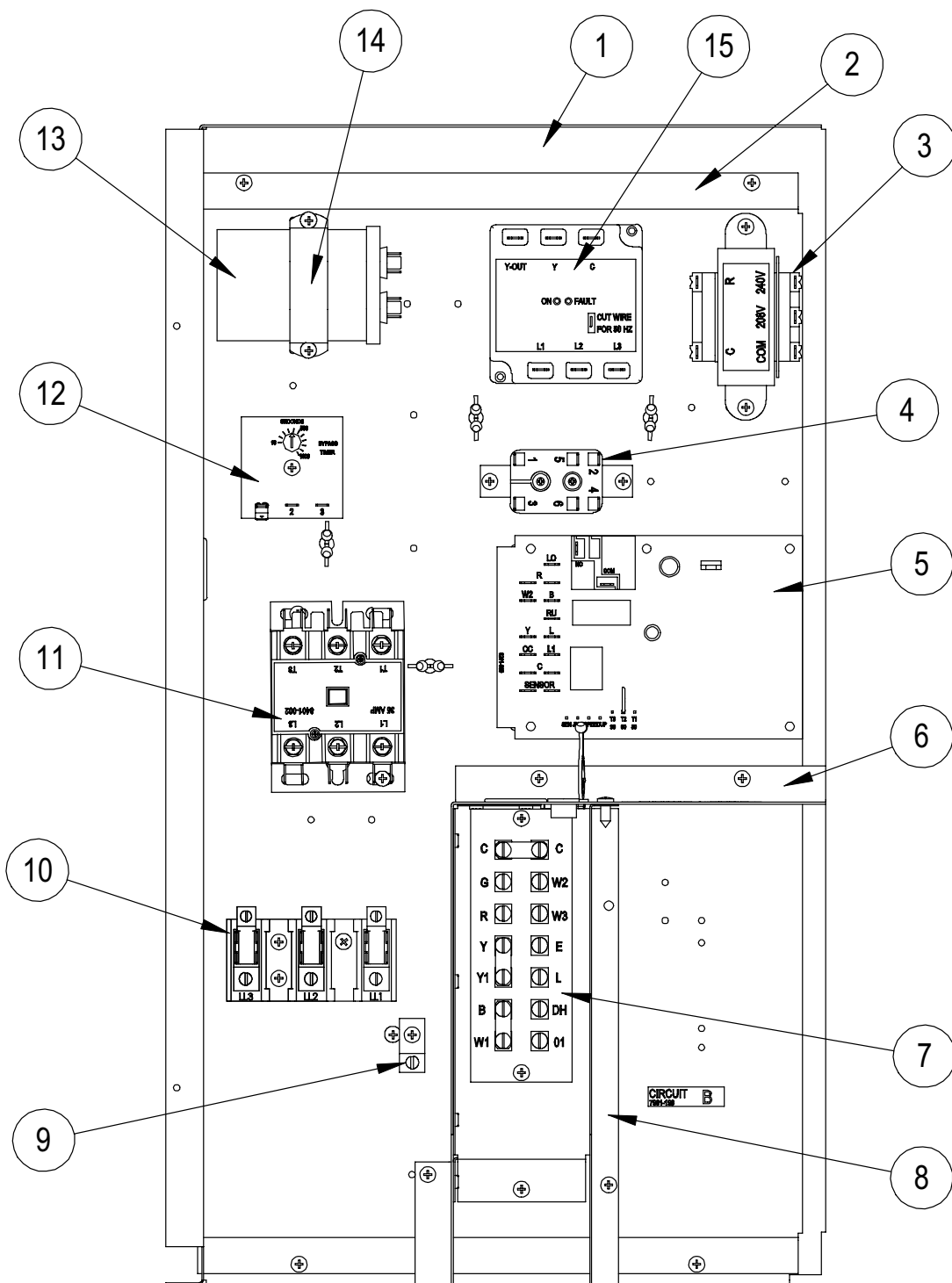
## CONTROL PANEL 1-PHASE

| Drawing No. | Part No. | Description              | PH13242-A | PH13302-A | PH13362-A |
|-------------|----------|--------------------------|-----------|-----------|-----------|
| 1           | 117-262  | Control Panel            | X         | X         | X         |
| 2           | 117-261  | Control Mounting Plate   | X         | X         | X         |
| 3           | 8407-035 | Transformer              | X         | X         | X         |
| 4           | 8201-015 | Relay                    | X         | X         | X         |
| 5           | 8201-102 | Heat Pump Control        | X         | X         | X         |
| 6           | 117-263  | Low Voltage Box Assembly | X         | X         | X         |
| 7           | 8607-019 | Terminal Strip           | X         | X         | X         |
| 8           | 135-218  | Terminal Shield          | X         | X         | X         |
| 9           | 8611-006 | Ground Terminal          | X         | X         | X         |
| 10          | 8607-013 | Terminal Block           | X         | X         | X         |
| 11          | 8401-006 | Contactor                | X         | X         | X         |
| 12          | 8201-078 | Bypass Timer             | X         | X         | X         |
| 13          | 8552-048 | Capacitor 35/5 MFD 370V  | X         |           |           |
| 13          | 8552-050 | Capacitor 40/5 MFD 370V  |           | X         |           |
| 13          | 8552-052 | Capacitor 45/5 MFD 370V  |           |           | X         |
| 14          | 8550-007 | Capacitor Bracket        | X         |           |           |
| 14          | 8550-008 |                          |           | X         | X         |
| NS          | 4110A111 | Wiring Diagram           | X         |           | X         |
| NS          | 4110A110 | Wiring Diagram           |           | X         |           |
| NS          | 4110A109 | Ladder Diagram           | X         |           | X         |
| NS          | 4110A107 | Ladder Diagram           |           | X         |           |

NS = Not Shown

Reference SEXP-465

# CONTROL PANEL — 3-PHASE



SEXP-467 A

## CONTROL PANEL 3-PHASE

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|             |          |                          | PH13362-B |
|-------------|----------|--------------------------|-----------|
| Drawing No. | Part No. | Description              |           |
| 1           | 117-262  | Control Panel            | X         |
| 2           | 117-261  | Control Mounting Plate   | X         |
| 3           | 8407-035 | Transformer              | X         |
| 4           | 8201-015 | Relay                    | X         |
| 5           | 8201-102 | Heat Pump Control        | X         |
| 6           | 117-263  | Low Voltage Box Assembly | X         |
| 7           | 8607-019 | Terminal Strip           | X         |
| 8           | 135-218  | Terminal Shield          | X         |
| 9           | 8611-006 | Ground Terminal          | X         |
| 10          | 8607-014 | Terminal Block           | X         |
| 11          | 8401-002 | Contactor                | X         |
| 12          | 8201-078 | Bypass Timer             | X         |
| 13          | 8552-002 | Capacitor 5 MFD 370V     | X         |
| 14          | 8550-003 | Capacitor Bracket        | X         |
| 15          | 8201-085 | Phase Monitor            | X         |
| NS          | 4110A209 | Wiring Diagram           | X         |
| NS          | 4110A207 | Ladder Diagram           | X         |

NS = Not Shown

*Reference SEXP-467A*