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# REPLACEMENT PARTS MANUAL

## PACKAGE HEAT PUMPS

Models:

|                  |                  |
|------------------|------------------|
| <b>PH1242</b>    | <b>PH12481</b>   |
| <b>PH12481-B</b> | <b>PH11422</b>   |
| <b>PH10481</b>   | <b>PH10481-B</b> |
| <b>PH10481-C</b> | <b>PH1060</b>    |
| <b>PH1060-B</b>  | <b>PH1060-C</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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CLIMATE CONTROL SOLUTIONS

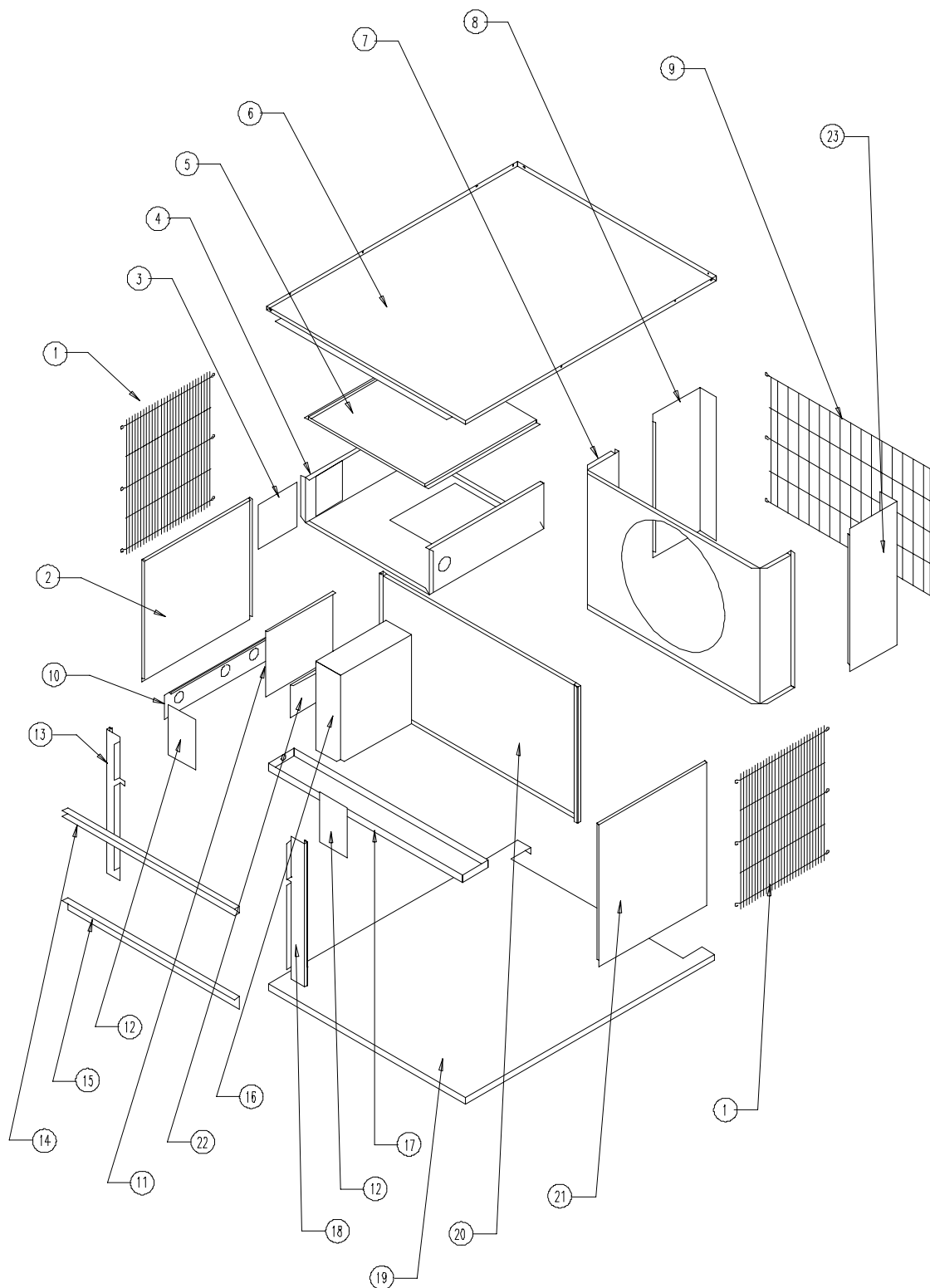
BARD MANUFACTURING COMPANY  
Bryan, Ohio 43506  
*Since 1914...Moving ahead, just as planned.*

Manual: 2110-261B  
Supersedes: 2110-261A  
File: Tab 11  
Date: 01-03-03

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# CABINETS COMPONENTS

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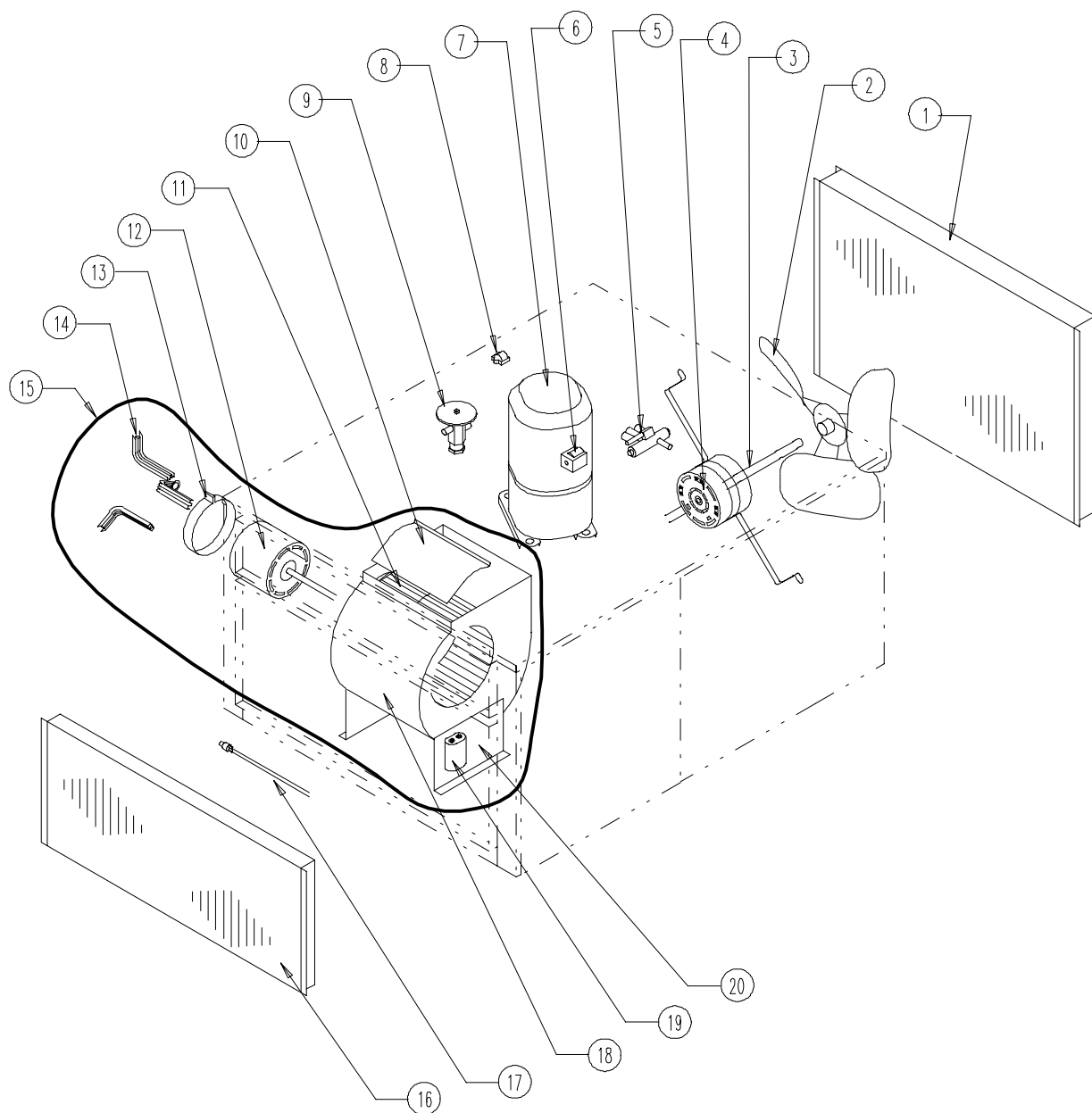
SEXP-204

## CABINET COMPONENTS

| Drawing<br>No. | Part No.                  | Description                                 | U<br>S<br>A<br>G<br>E |
|----------------|---------------------------|---------------------------------------------|-----------------------|
|                |                           |                                             | E                     |
| 1              | 7051-007                  | Inlet Grille                                | 2                     |
| 2              | 501-272-X                 | Left Side                                   | X                     |
| 3              | 142-045                   | Cover Plate – 0 KW                          | X                     |
| 4              | 520-240                   | Blower Partition                            | X                     |
| 5              | 134-134                   | Heat Strip Shield                           | X                     |
| 6              | 507-146-X                 | Top                                         | X                     |
| 7              | 125-027-X                 | Fan Shroud                                  | X                     |
| 8              | 149-079-X                 | Left Rear Corner                            | X                     |
| 9              | 7051-005                  | Condenser Grille                            | X                     |
| 10             | 557-026-X                 | Entrance Panel                              | X                     |
| 11             | 133-035-X                 | Control Panel Cover                         | X                     |
| 12             | 136-246                   | Blower Fill Plates                          | 2                     |
| 13             | 549-077-X                 | Left Front Cover                            | X                     |
| 14             | 165-502-X                 | Plenum Channel                              | X                     |
| 15             | 105-525-X                 | Plenum Angle                                | X                     |
| 16             | Control Panel<br>Assembly | See Control Panel Drawing<br>and Parts List |                       |
| 17             | 123-084-X                 | Drain Pan                                   | X                     |
| 18             | 549-076-X                 | Right Front Cover                           | X                     |
| 19             | 527-221-X                 | Base                                        | X                     |
| 20             | 521-239-X                 | Compressor Partition                        | X                     |
| 21             | 501-271-X                 | Right side                                  | X                     |
| 22             | 142-044                   | Entrance Cover                              | X                     |
| 23             | 149-078-X                 | Right Rear Corner                           | X                     |

## FUNCTIONAL COMPONENTS

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**This drawing to be used as reference for Pages 4 and 5**

## FUNCTIONAL COMPONENTS

| Drawing No. | Part No.  | Description              | PH10481 | PH10481-B | PH10481-C | PH1060                                                                                | PH1060-B | PH1060-C | PH11422 |
|-------------|-----------|--------------------------|---------|-----------|-----------|---------------------------------------------------------------------------------------|----------|----------|---------|
| 1           | 5051-075  | Condenser Coil           | X       | X         | X         |                                                                                       |          |          | X       |
| 1           | 5051-077  | Condenser Coil           |         |           |           | X                                                                                     | X        | X        |         |
| 2           | 5151-027  | Fan Blade                | X       | X         | X         | X                                                                                     | X        | X        | X       |
| 3           | 8200-004  | Motor Mount              | X       | X         | X         | X                                                                                     | X        | X        | X       |
| 4           | 8105-039  | Motor                    | X       | X         |           | X                                                                                     | X        |          | X       |
| 4           | 8105-030  | Motor                    |         |           | X         |                                                                                       |          | X        |         |
| 5           | 5650-024  | Reversing Valve          | X       | X         | X         |                                                                                       |          |          |         |
| 5           | 5650-025  | Reversing Valve          |         |           |           | X                                                                                     | X        | X        | X       |
| 6           | 5650-022  | Solenoid Coil            | X       | X         | X         | X                                                                                     | X        | X        | X       |
| 7           | 8000-218  | Compressor               | X       |           |           |                                                                                       |          |          |         |
| 7           | 8000-219  | Compressor               |         | X         |           |                                                                                       |          |          |         |
| 7           | 8000-220  | Compressor               |         |           | X         |                                                                                       |          |          |         |
| 7           | 8000-153  | Compressor               |         |           |           | X                                                                                     |          |          |         |
| 7           | 8000-154  | Compressor               |         |           |           |                                                                                       | X        |          |         |
| 7           | 8000-155  | Compressor               |         |           |           |                                                                                       |          | X        |         |
| 7           | 8000-176  | Compressor               |         |           |           |                                                                                       |          |          | X       |
| 8           | 8620-095  | Defrost Sensor           | X       | X         | X         | X                                                                                     | X        | X        | X       |
| 9           | 5651-102  | Expansion Valve          | X       | X         | X         |                                                                                       |          |          | X       |
| 9           | 5651-103  | Expansion Valve          |         |           |           | X                                                                                     | X        | X        |         |
| 10          | 144-130   | Diffuser                 | X       | X         | X         | X                                                                                     | X        | X        | X       |
| 11          | 5152-049  | Blower Wheel             | X       | X         | X         | X                                                                                     | X        | X        |         |
| 11          | 5152-071  | Blower Wheel             |         |           |           |                                                                                       |          |          | X       |
| 12          | 8106-031  | Motor                    | X       | X         |           | X                                                                                     | X        |          | X       |
| 12          | 8106-032  | Motor                    |         |           | X         |                                                                                       |          | X        |         |
| 13          | 8620-034  | Motor Mount Kit          | X       | X         | X         | X                                                                                     | X        | X        | X       |
| 14          | 8620-034  | Motor Mount Kit          | X       | X         | X         | X                                                                                     | X        | X        | X       |
| 15          | 900-190   | Complete Blower Assembly | X       | X         |           | X                                                                                     | X        |          |         |
| 15          | 900-191   | Complete Blower Assembly |         |           |           |                                                                                       |          |          | X       |
| 15          | 900-192   | Complete Blower Assembly |         |           | X         |                                                                                       |          | X        |         |
| 16          | 5060-070  | Evaporator Coil          | X       | X         | X         |                                                                                       |          |          | X       |
| 16          | 5060-082  | Evaporator Coil          |         |           |           | X                                                                                     | X        | X        |         |
| 17          | 5625-037  | Cooling Distributor      | X       | X         | X         |                                                                                       |          |          |         |
| 17          | 5625-018  | Cooling Distributor      |         |           |           | X                                                                                     | X        | X        |         |
| 17          | 5625-028  | Cooling Distributor      |         |           |           |                                                                                       |          |          | X       |
| 18          | 151-097   | Blower Housing           | X       | X         | X         | X                                                                                     | X        | X        | X       |
| 19          | 8552-005  | Capacitor 5 - 370        | X       | X         | X         | X                                                                                     | X        | X        | X       |
| 20          | 104-795   | Blower Angles            | X       | X         | X         | X                                                                                     | X        | X        | X       |
| NS          | 1804-0106 | High Pressure Switch     | X       | X         | X         | X                                                                                     | X        | X        | X       |
| NS          | 5625-013  | Heating Distributor      | X       | X         | X         |  | X        | X        | X       |

NS = Not Shown

Refer to drawing on Page 3

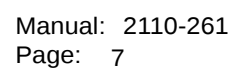
## FUNCTIONAL COMPONENTS

| Drawing No. | Part No.      | Description              | PH1242 | PH12481 | PH12481-B |
|-------------|---------------|--------------------------|--------|---------|-----------|
| 1           | 5051-109      | Condenser Coil           | X      | X       | X         |
| 2           | 5151-027      | Fan Blade                | X      | X       | X         |
| 3           | 8200-004      | Motor Mount              | X      | X       | X         |
| 4           | 8105-039      | Motor                    | X      | X       | X         |
| 5           | 5650-025      | Reversing Valve          | X      | X       | X         |
| 6           | 5650-022      | Solenoid Coil            | X      | X       | X         |
| 7           | 8000-218      | Compressor               |        | X       |           |
| 7           | 8000-219      | Compressor               |        |         | X         |
| 7           | 8000-176      | Compressor               | X      |         |           |
| 8           | 8620-095      | Defrost Sensor           | X      | X       | X         |
| 9           | 5651-102      | Expansion Valve          | X      | X       | X         |
| 10          | 144-130       | Diffuser                 | X      | X       | X         |
| 11          | 5152-049      | Blower Wheel             | X      | X       | X         |
| 12          | 8107-009-0019 | Motor                    |        | X       | X         |
| 12          | 8106-035-0018 | Motor                    | X      |         |           |
| 13          | 8200-034      | Motor Mount Kit          | X      | X       | X         |
| 14          | 8620-034      | Motor Mount Kit          | X      | X       | X         |
| 15          | 900-245-001   | Complete Blower Assembly |        | X       | X         |
| 15          | 900-244-001   | Complete Blower Assembly | X      |         |           |
| 16          | 5060-070      | Evaporator Coil          | X      |         |           |
| 16          | 5060-082      | Evaporator Coil          |        | X       | X         |
| 17          | 5625-028      | Cooling Distributor      | X      |         |           |
| 17          | 5625-029      | Cooling Distributor      |        | X       | X         |
| 18          | 151-097       | Blower Housing           | X      | X       | X         |
| 20          | 104-795       | Blower Angles            | X      | X       | X         |
| NS          | 1804-0106     | High Pressure Switch     | X      | X       | X         |
| NS          | 5625-013      | Heating Distributor      | X      | X       | X         |

NS = Not Shown

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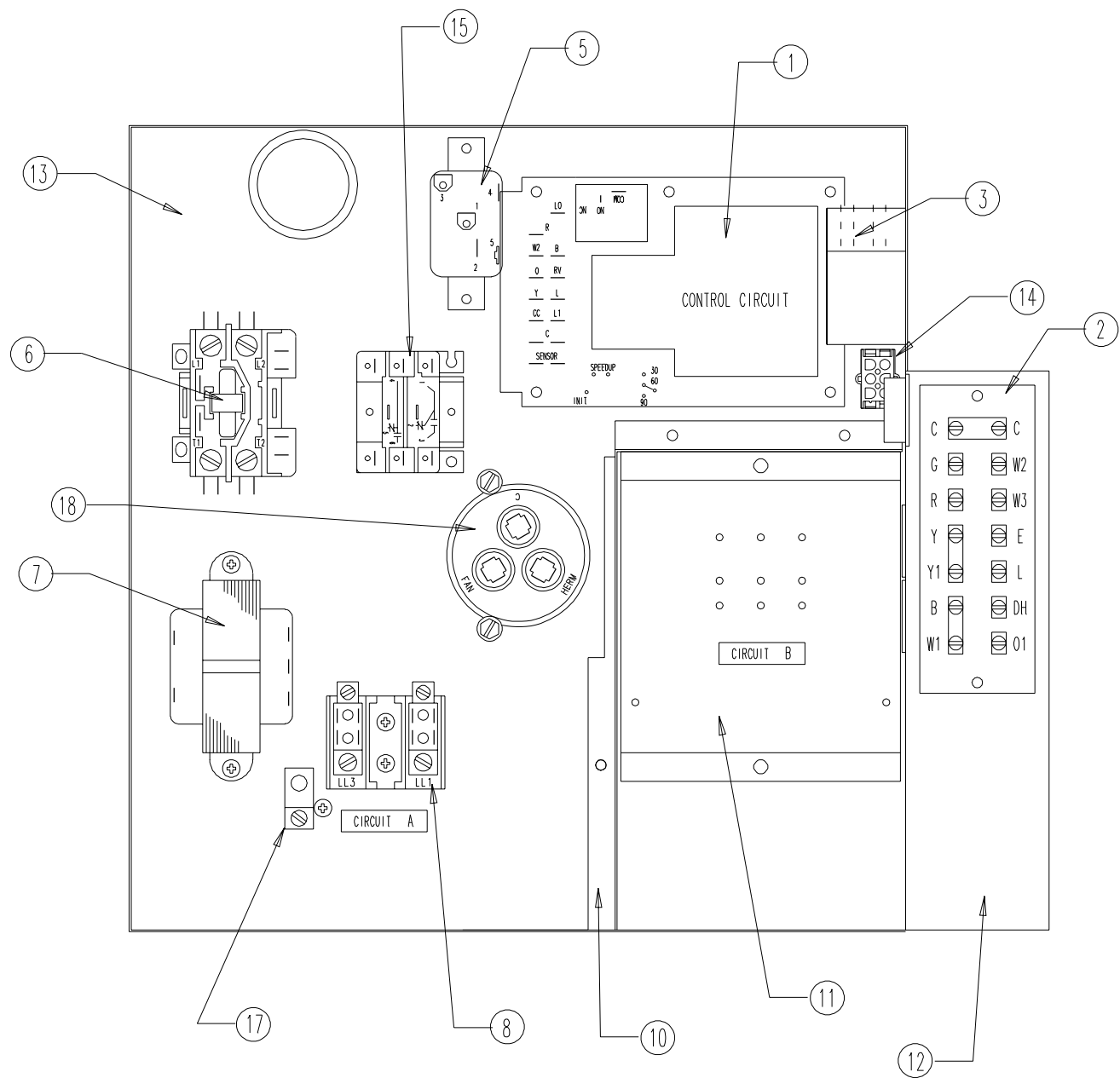
SEXP-202

## CONTROL PANEL

| Drawing No. | Part No.  | Description                | PH10481 | PH10481-B | PH10481-C | PH1060 | PH1060-B | PH1060-C | PH11422 |
|-------------|-----------|----------------------------|---------|-----------|-----------|--------|----------|----------|---------|
| 1           | 8607-025  | Terminal Strip             | X       | X         | X         | X      | X        | X        | X       |
| 2           | 3000-1000 | Wire Assembly              | X       | X         | X         | X      | X        | X        | X       |
| 3           | 8201-056  | Solid State Blower Control | X       | X         |           | X      | X        |          | X       |
| 3           | 8201-032  | Blower Relay               |         |           | X         |        |          | X        |         |
| 4           | 8201-069  | Heat Pump Control          | X       | X         | X         | X      | X        | X        | X       |
| 5           | 8201-013  | Changeover Relay           | X       | X         | X         | X      | X        | X        | X       |
| 6           | 516-147   | Control Panel              | X       | X         | X         | X      | X        | X        | X       |
| 7           | 8401-016  | Contactor                  | X       |           |           | X      |          |          |         |
| 7           | 8401-002  | Contactor                  |         | X         | X         |        | X        | X        |         |
| 7           | 8401-007  | Contactor                  |         |           |           |        |          |          | X       |
| 8           | 8407-035  | Transformer                | X       | X         |           | X      | X        |          | X       |
| 8           | 8407-042  | Transformer                |         |           | X         |        |          | X        |         |
| 9           | 8611-006  | Ground Terminal            | X       | X         | X         | X      | X        | X        | X       |
| 10          | 8607-013  | Terminal Block             | X       |           |           | X      |          |          | X       |
| 10          | 8607-014  | Terminal Block             |         | X         | X         |        | X        | X        |         |
| 11          | 8607-015  | Phenolic Insulator         |         |           | X         |        |          | X        |         |
| 12          | 8552-005  | Capacitor 10-370           |         | X         | X         |        | X        | X        |         |
| 13          | 8552-059  | Capacitor 60-10-370        | X       |           |           |        |          |          |         |
| 13          | 8552-058  | Capacitor 80/10-370        |         |           |           | X      |          |          |         |
| 13          | 8552-056  | Capacitor 55/10-440        |         |           |           |        |          |          | X       |
| 14          | 116-149   | Control Panel Partition    | X       | X         | X         | X      | X        | X        | X       |
| 15          | 116-150   | Terminal Block Support     | X       | X         | X         | X      | X        | X        | X       |
| 16          | 116-148   | Low Voltage Box            | X       | X         | X         | X      | X        | X        | X       |
| NS          | 4066-114  | Wiring Diagram             | X       |           |           | X      |          |          |         |
| NS          | 4066-211  | Wiring Diagram             |         | X         |           |        | X        |          |         |
| NS          | 4066-311  | Wiring Diagram             |         |           | X         |        |          | X        |         |
| NS          | 4066-116  | Wiring Diagram             |         |           |           |        |          |          | X       |

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# CONTROL PANEL



SEXP-303

## CONTROL PANEL

| Drawing No. | Part No.  | Description             | PH1242 | PH12481 | PH12481-B |
|-------------|-----------|-------------------------|--------|---------|-----------|
| 1           | 8201-069  | Heat Pump Control       | X      | X       | X         |
| 2           | 8607-025  | Terminal Strip          | X      | X       | X         |
| 3           | 8201-074  | Blower Control          | X      | X       | X         |
| 5           | 8201-013  | Changeover Relay        | X      | X       | X         |
| 6           | 8401-016  | Contactor               |        | X       |           |
| 6           | 8401-002  | Contactor               |        |         | X         |
| 6           | 8401-007  | Contactor               | X      |         |           |
| 7           | 8407-035  | Transformer             | X      | X       | X         |
| 8           | 8607-013  | Terminal Block          | X      | X       |           |
| 8           | 8607-014  | Terminal Block          |        |         | X         |
| 10          | 116-149   | Control Panel Partition | X      | X       | X         |
| 11          | 116-150   | Terminal Block Support  | X      | X       | X         |
| 12          | 116-148   | Low Voltage Box         | X      | X       | X         |
| 13          | 516-147   | Control Panel           | X      | X       | X         |
| 17          | 8611-006  | Ground Terminal         |        | X       | X         |
| 18          | 8552-005  | Capacitor 10-370        |        |         | X         |
| 18          | 8552-059  | Capacitor 60/10-370     | X      |         |           |
| 18          | 8552-056  | Capacitor 55/10-440     |        | X       |           |
| NS          | 3000-1100 | Wire Assembly           | X      | X       | X         |
| NS          | 3000-1106 | Wire Assembly           | X      | X       | X         |
| NS          | 3000-1108 | Wire Assembly           | X      | X       | X         |
| NS          | 4098-125  | Wiring Diagram          | X      | X       |           |
| NS          | 4098-212  | Wiring Diagram          |        |         | X         |

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