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# REPLACEMENT PARTS MANUAL

# WALL MOUNTED PACKAGE HEAT PUMPS

Model: **SH611D**

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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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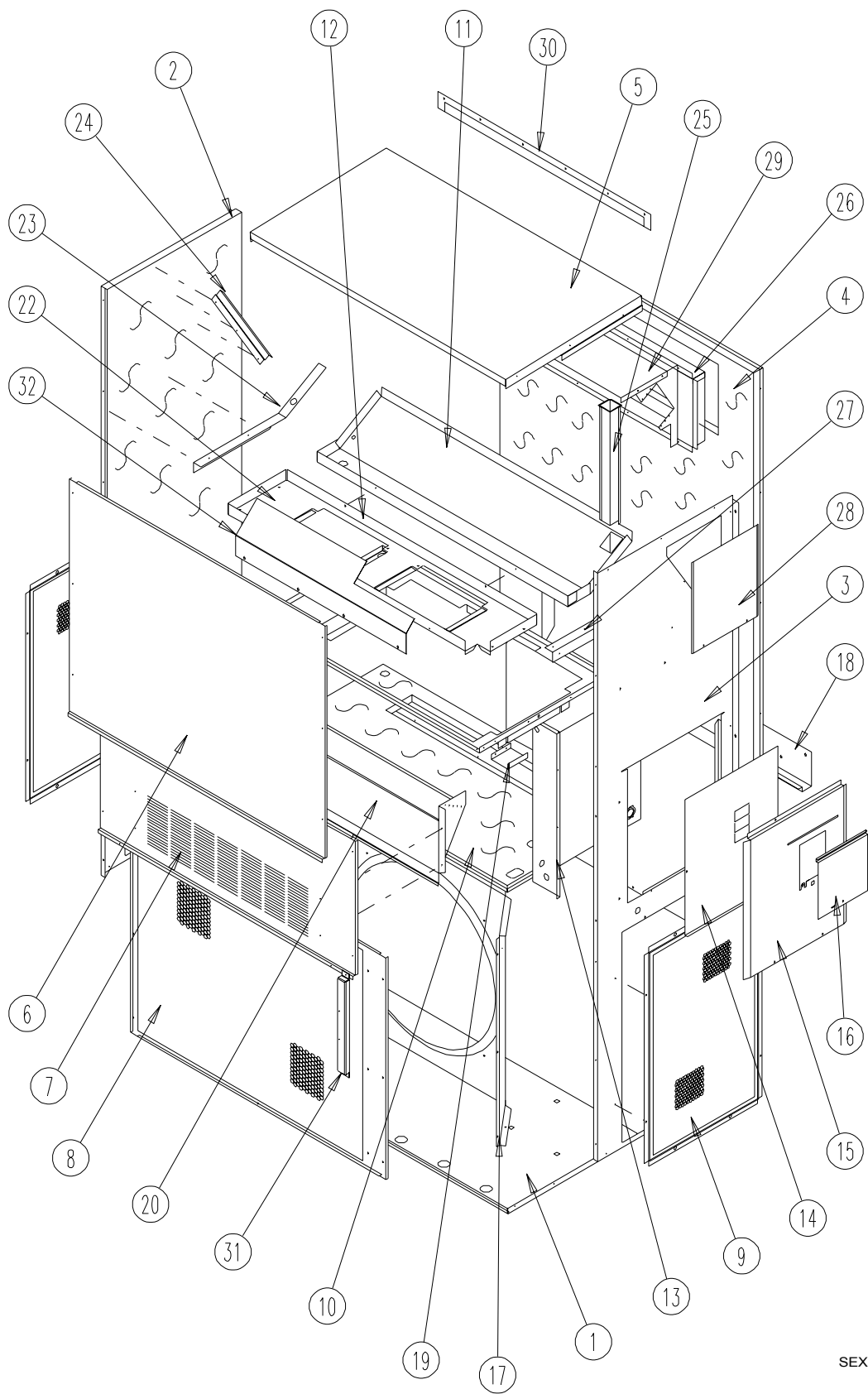


BARD MANUFACTURING COMPANY  
Bryan, Ohio 43506

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

Manual: 2110-542D  
Supersedes: 2110-542C  
File: Tab 17  
Date: 09-09-04

# CABINET COMPONENTS



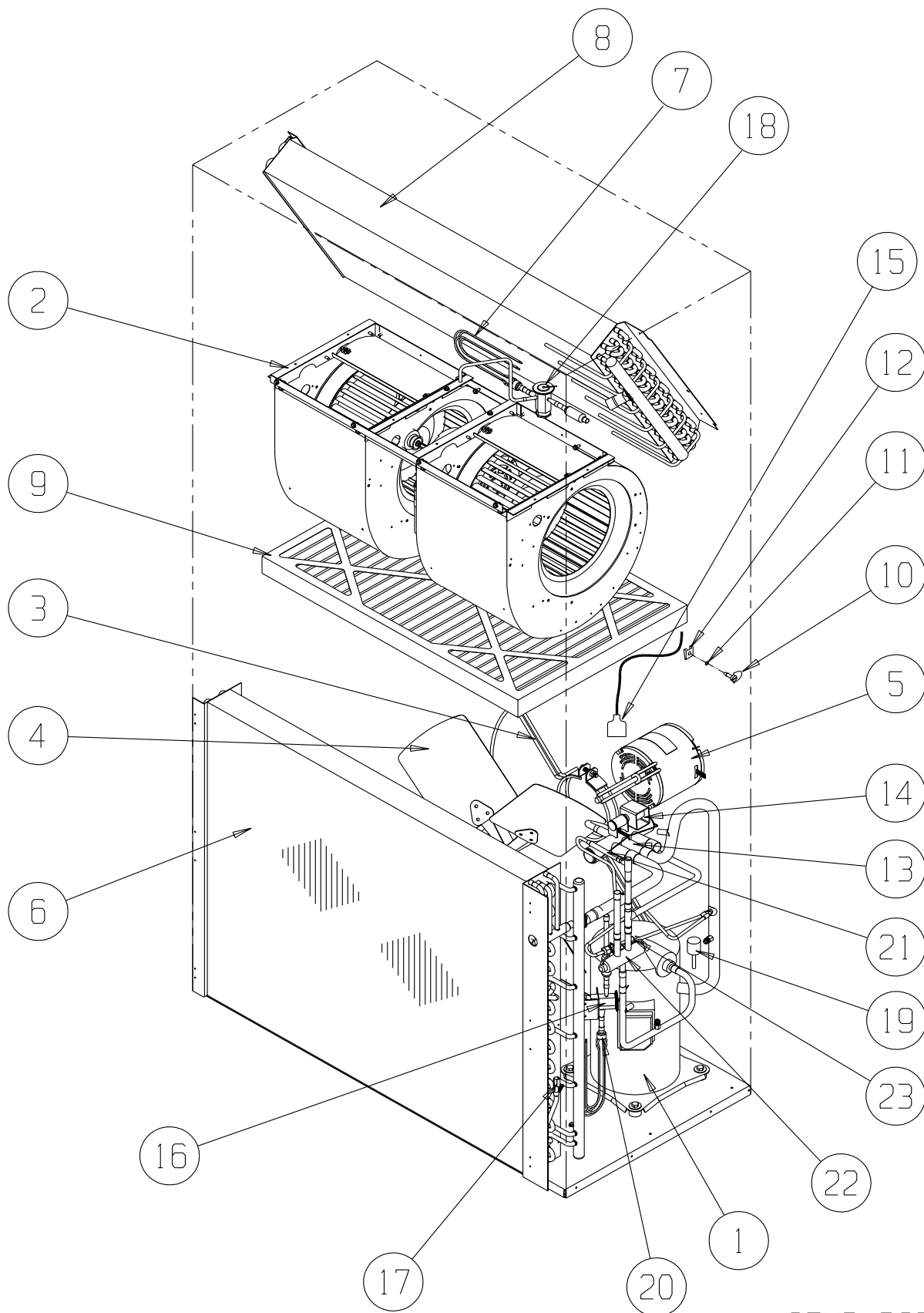
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## CABINET COMPONENTS

| Dwg<br>No. | Part No.                                                                                 | Description                                          | SH611DA, DB | SH611DC |
|------------|------------------------------------------------------------------------------------------|------------------------------------------------------|-------------|---------|
| 1          | S127X214                                                                                 | Lower Base                                           | X           | X       |
| 2          | S500-316-* ①                                                                             | Left Side                                            | X           | X       |
| 3          | S500-315-* ①                                                                             | Right Side                                           | X           | X       |
| 4          | S509-1  | Back                                                 | X           | X       |
| 5          | S506-1 ①                                                                                 | Top                                                  | X           | X       |
| 6          | S514-077-* ①                                                                             | Upper Front                                          | X           | X       |
| 7          | S552-224-* ①                                                                             | Service Door                                         | X           | X       |
| 8          | 118-052-* ①                                                                              | Condenser Grille                                     | X           | X       |
| 9          | 118-058-* ①                                                                              | Side Grille                                          | 2           | 2       |
| 10         | S521X258                                                                                 | Condenser Partition                                  | X           | X       |
| 11         | 123-102                                                                                  | Drain Pan                                            | X           | X       |
| 12         | 121X216                                                                                  | Blower Partition                                     | X           | X       |
| 13         | Control Panel<br>Assembly                                                                | See Control Panel Assembly<br>Drawing and Parts List | X           | X       |
| 14         | S133-114                                                                                 | Control Panel Cover (Inner)                          | X           |         |
| 14         | S133-115                                                                                 | Control Panel Cover (Inner)                          |             | X       |
| 15         | S533-113-* ①                                                                             | Control Panel Cover (Outer)                          | X           | X       |
| 16         | S153-218-* ①                                                                             | Disconnect Access Door                               | X           | X       |
| 17         | 125-029                                                                                  | Fan Shroud                                           | X           | X       |
| 18         | 113-140                                                                                  | Bottom Mounting Bracket                              | X           | X       |
| 19         | 137-209                                                                                  | Fill                                                 | X           | X       |
| 20         | BFAD-5                                                                                   | Fresh Air Damper Assembly                            | X           | X       |
| 22         | 131X099                                                                                  | Filter Tray                                          | X           | X       |
| 23         | 105X877                                                                                  | Left Side Support                                    | X           | X       |
| 24         | 147-046-* ①                                                                              | Left Evaporator Support                              | X           | X       |
| 25         | 135-128                                                                                  | Raceway                                              | 2           | 2       |
| 26         | 111X034                                                                                  | Outlet Airframe Assembly                             | X           | X       |
| 27         | 105X878                                                                                  | Right Side Support                                   | X           | X       |
| 28         | 143-042-* ①                                                                              | Right Side Cover Plate (Outer)                       | X           | X       |
| 29         | 135-129                                                                                  | Heat Shield                                          | X           | X       |
| 30         | 113-150-* ①                                                                              | Top Rain Flashing                                    | X           | X       |

① Exterior cabinet parts are manufactured with various paint color options. To insure that you receive the proper paint color, you must include the complete model and serial number of the unit for which cabinet parts are being ordered.

## FUNCTIONAL COMPONENTS



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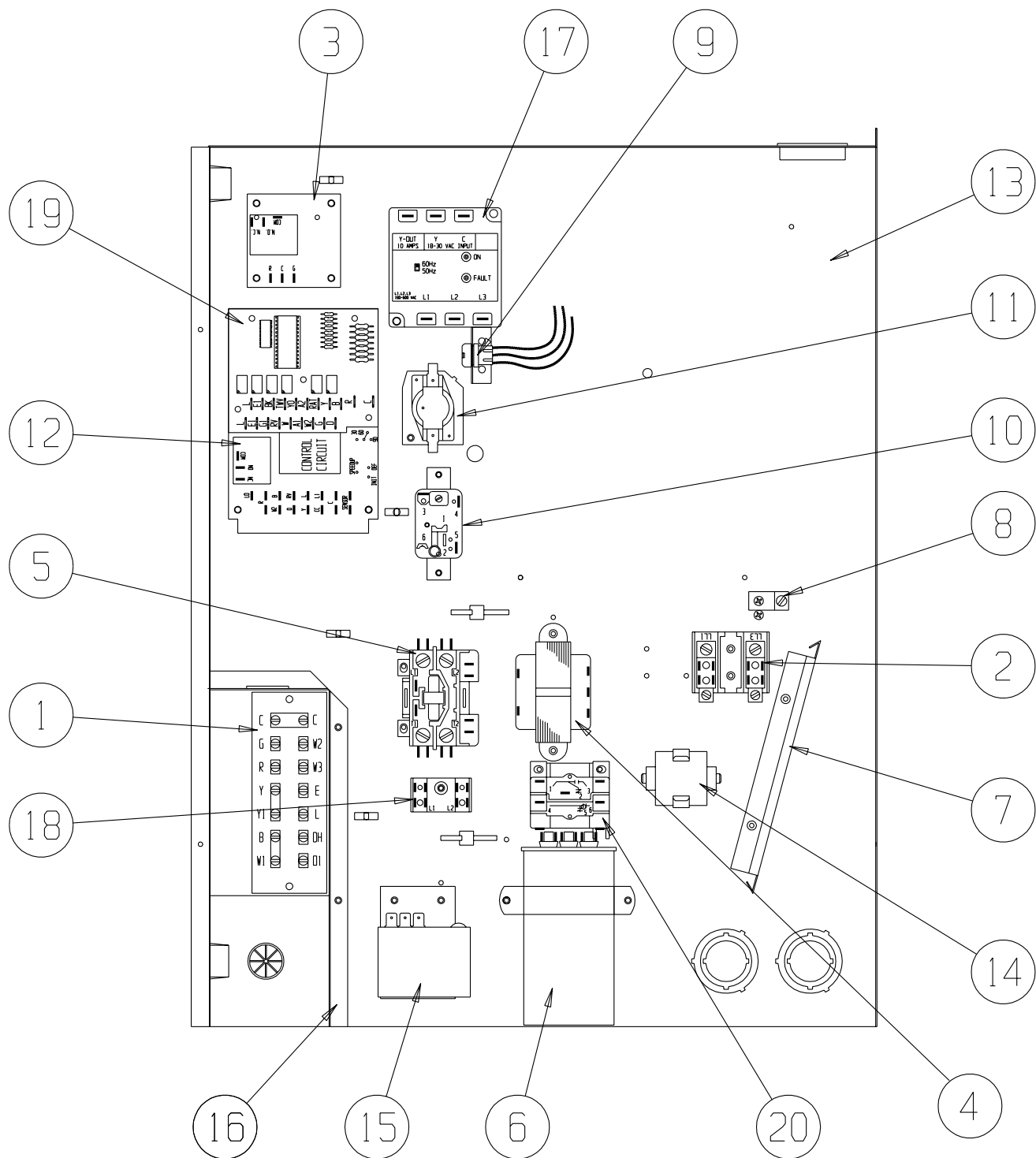
## FUNCTIONAL COMPONENTS

| Dwg<br>No. | Part No.  | Description                                 | SH611DA | SH611DB | SH611DC |
|------------|-----------|---------------------------------------------|---------|---------|---------|
| 1          | 8000-153  | Compressor                                  | X       |         |         |
| 1          | 8000-154  | Compressor                                  |         | X       |         |
| 1          | 8000-155  | Compressor                                  |         |         | X       |
| 2          | S900-242  | Blower Assembly                             | X       | X       |         |
| 2          | S900-243  | Blower Assembly                             |         |         | X       |
| 3          | 8200-004  | Fan Motor Mount                             | X       | X       | X       |
| 4          | 5151-027  | Fan Blade                                   | X       | X       | X       |
| 5          | 8105-039  | Condenser Motor                             | X       | X       |         |
| 5          | 8105-030  | Condenser Motor                             |         |         | X       |
| 6          | 5051-124  | Condenser Coil                              | X       | X       | X       |
| 7          | 800-0264  | Cooling Distributor Assembly                | X       | X       | X       |
| 8          | 917-0049  | Evaporator Coil Assembly                    | X       | X       | X       |
| 9          | 7004-016  | Air Filter 1" Throw-away                    | X       | X       | X       |
| 9          | 7003-030  | Air Filter 1" Washable                      | X       | X       | X       |
| 9          | 7004-027  | Air Filter 2" Pleated                       | X       | X       | X       |
| 10         | 1171-022  | 1/4 Turn Fastener                           | X       | X       | X       |
| 11         | 1171-024  | 1/4 Turn Retainer                           | X       | X       | X       |
| 12         | 1171-023  | 1/4 Receptacle                              | X       | X       | X       |
| 13         | 5650-041  | Reversing Valve                             | X       | X       | X       |
| 14         | 5650-042  | Rev. Valve Solenoid, Red Casing (Ranco)     | X       | X       | X       |
| 14         | 5650-043  | Rev. Valve Solenoid, Black Casing (Wilspec) |         |         |         |
| 15         | 5650-037  | Molded Plug 36" Lead                        | 2       | 2       | 2       |
| 16         | 5651-163  | Heating Expansion Valve                     | X       | X       | X       |
| 17         | 8408-027  | Defrost Sensor                              | X       | X       | X       |
| 18         | 5651-103  | Cooling Expansion Valve                     | X       | X       | X       |
| 19         | 1804-0106 | High Pressure Switch (Flare) ①              | X       | X       | X       |
| 20         | 800-0291  | Heating Distributor Assembly                | X       | X       | X       |
| 21         | 800-0326  | Drain Back Assembly                         | X       | X       | X       |
| 22         | 5650-036  | Three-Way Valve                             | X       | X       | X       |
| 23         | 5650-043  | Solenoid Coil                               | X       | X       | X       |
| NS         | 1804-0107 | Low Pressure Switch (Flare) ①               | X       | X       | X       |
| NS         | CMH-7     | Low Ambient Switch (Flare) ①                | X       | X       | X       |

NS – Not Shown

① – Optional

# CONTROL PANEL



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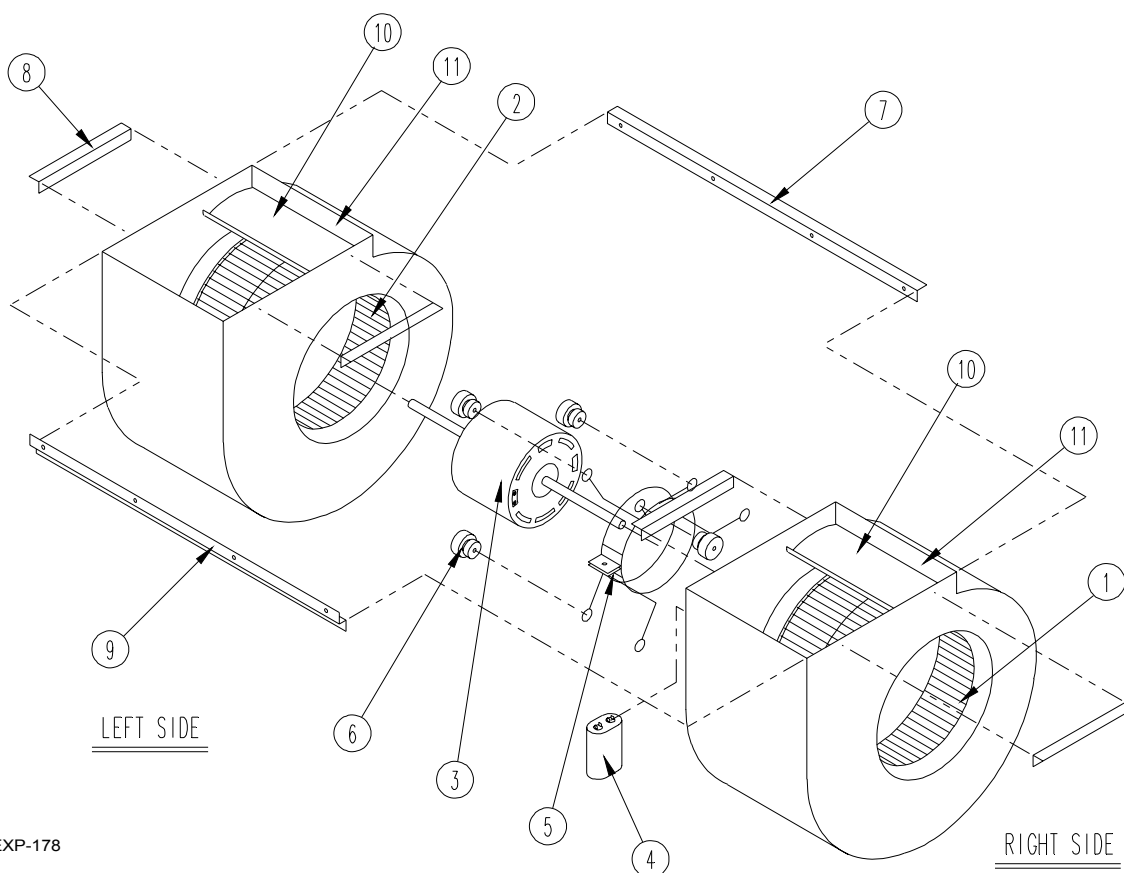
## CONTROL PANEL

| Dwg No. | Part No.  | Description                     | SH611DA | SH611DB | SH611DC |
|---------|-----------|---------------------------------|---------|---------|---------|
| 1       | 8607-019  | Low Voltage Terminal Strip      | X       | X       | X       |
| 2       | 8607-013  | Terminal Block 2 Pole           | X       |         |         |
| 2       | 8607-014  | Terminal Block 3 Pole           |         | X       | X       |
| 2       | 8607-015  | Phelon Insulator                |         |         | X       |
| 3       | 8201-056  | Blower Control                  | X       | X       |         |
| 3       | 8201-032  | Blower Relay                    |         |         | X       |
| 4       | 8407-048  | Transformer                     | X       | X       |         |
| 4       | 8407-050  | Transformer                     |         |         | X       |
| 5       | 8401-027  | Compressor Contactor            |         | X       |         |
| 5       | 8401-002  | Compressor Contactor            |         |         | X       |
| 5       | 8401-032  | Compressor Contactor            | X       |         |         |
| 6       | 8552-005  | Outdoor Motor Capacitor         |         | X       | X       |
| 6       | 8552-058  | Compressor Capacitor            | X       |         |         |
| 7       | 135-130   | Wire Shield                     | X       | X       | X       |
| 8       | 8611-006  | Ground Terminal                 | X       | X       | X       |
| 9       | 3000-1167 | 6 Pin Connector                 | X       | X       | X       |
| 10      | 8201-009  | Low Ambient Bypass Relay        | X       | X       | X       |
| 11      | 8201-065  | Low Pressure Bypass (TDR) ①     | X       | X       | X       |
| 12      | 8201-093  | Heat Pump Control Board         | X       | X       | X       |
| 13      | 117X229   | Control Panel                   | X       | X       | X       |
| 15      | 8408-037  | Return Air Thermostat           | X       | X       | X       |
| 16      | 117X139   | Low Voltage Box                 | X       | X       | X       |
| 17      | 8201-085  | Phase Monitor                   |         | X       | X       |
| 18      | 8607-017  | Terminal Block ①                | X       | X       | X       |
| 19      | 8201-092  | Dehumidification Logic Board    | X       | X       | X       |
| 20      | 8201-032  | Outdoor Fan Relay               |         |         | X       |
| NS      | 4096-127  | Wiring Diagram                  | X       |         |         |
| NS      | 4096-230  | Wiring Diagram                  |         | X       |         |
| NS      | 4096-329  | Wiring Diagram                  |         |         | X       |
| NS      | 8615-041  | Circuit Breaker 60A 2 Pole (0Z) | X       |         |         |
| NS      | 8615-044  | Circuit Breaker 45A 3 Pole (0Z) |         | X       |         |
| NS      | 8615-067  | Toggle Disconnect               |         |         | X       |

NS – Not Shown

① – Optional

# BLOWER ASSEMBLY



SEXP-178

| Dwg. No. | Part No. | Description            | 900-242 | 900-243 |
|----------|----------|------------------------|---------|---------|
| 1        | 5152-011 | 10 Inch Wheel (CW)     | X       | X       |
| 2        | 5152-012 | 10 Inch Wheel (CCW)    | X       | X       |
| 3        | 8104-012 | Blower Motor (230/208) | X       |         |
| 3        | 8104-014 | Blower Motor (460)     |         | X       |
| 4        | 8552-005 | Capacitor              | X       | X       |
| 5        | 8200-040 | Motor Mount            | X       | X       |
| 6        | 5451-001 | Grommets               | 6       | 6       |
| 7        | 105-881  | Back Brace             | X       | X       |
| 8        | 105-880  | Side Angle             | 4       | 4       |
| 9        | 103-389  | Front Brace            | X       | X       |
| 10       | 151-101  | Housing                | 2       | 2       |
| 11       | 144-166  | Diffuser               | 2       | 2       |