
REPLACEMENT PARTS MANUAL

WALL MOUNTED PACKAGE HEAT PUMPS

Model: **SH612D**

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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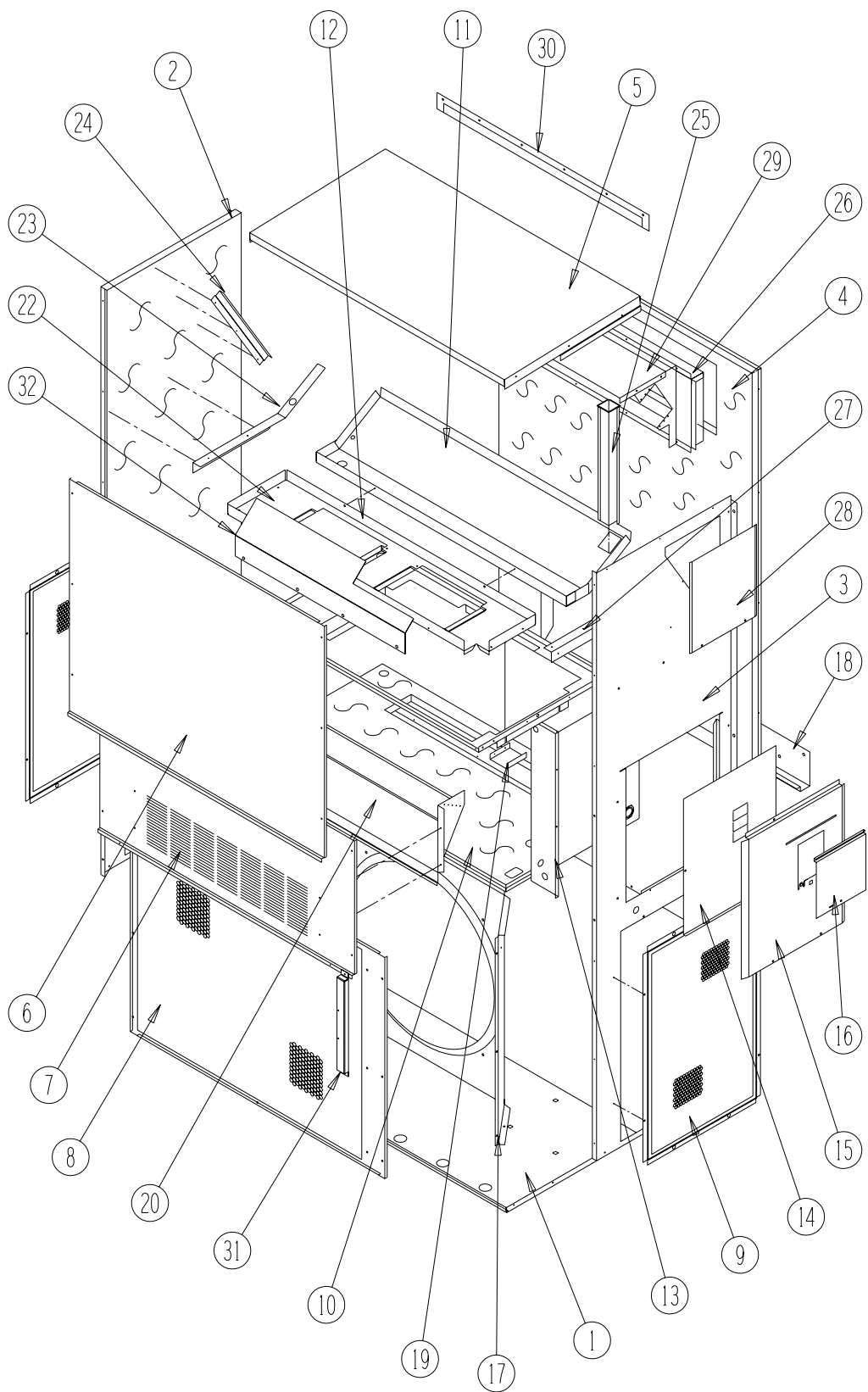
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Bard Manufacturing Company, Inc.
Bryan, Ohio 43506
Since 1914...Moving ahead, just as planned.

Manual: 2110-562
Supersedes: **NEW**
File: Tab 17
Date: 12-19-07

CABINET COMPONENTS



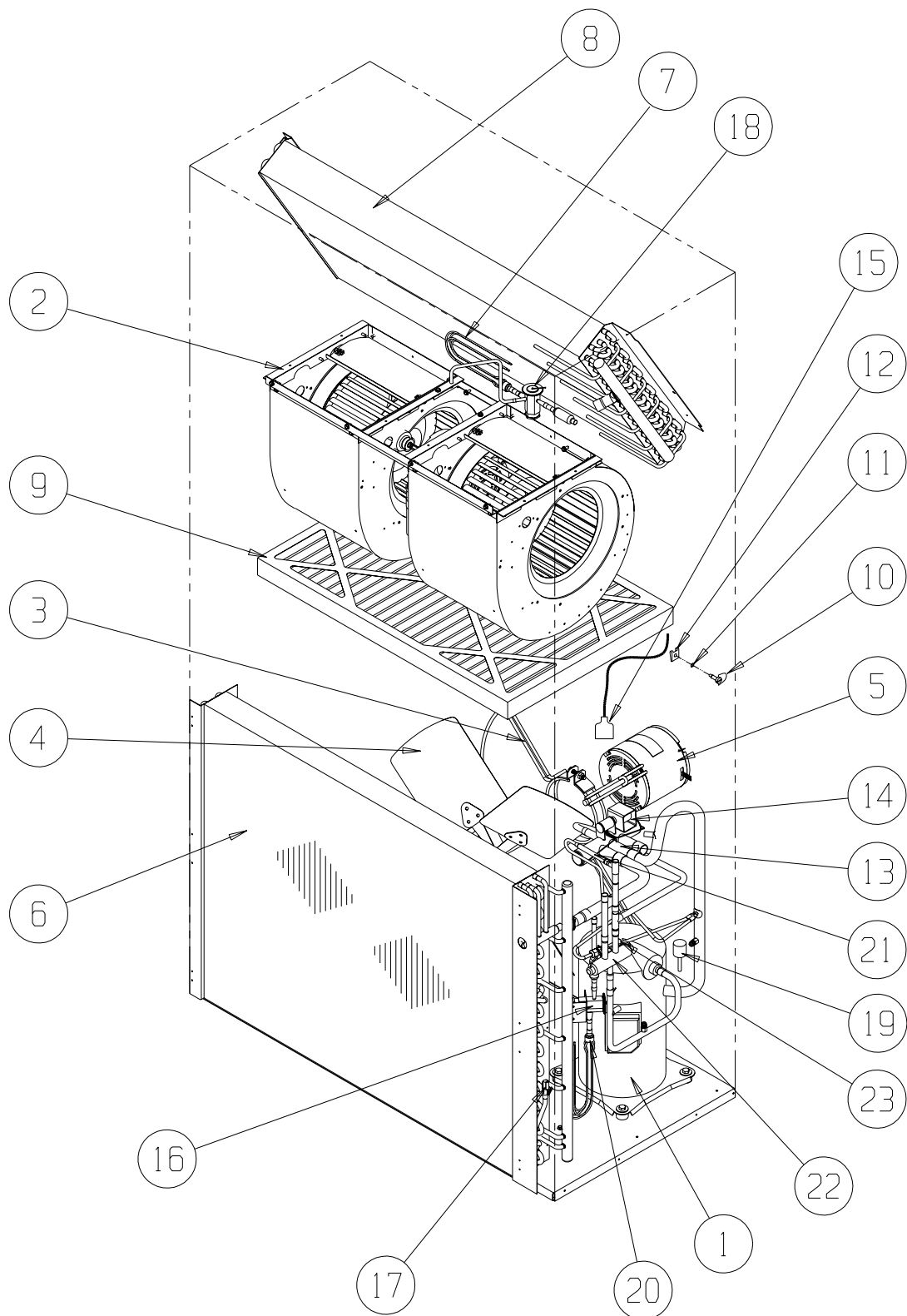
SEXP-305

CABINET COMPONENTS

Dwg. No.	Part Number	Description	SH612DA, DB	SH612DC
1	S127X214	Lower Base	X	X
2	S500-316-* ①	Left Side	X	X
3	S500-315-* ①	Right Side	X	X
4	S508-129	Back	X	X
5	S506-142-* 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	S123-102	Drain Pan	X	X
12	121X216	Blower Partition	X	X
13	Control Panel Assembly	See Control Panel Assembly Drawing and Parts List	X	X
14	S132-114	Control Panel Cover (Inner)	X	
14	S132-171	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	Left Evaporator Support	X	X
25	135-128	Raceway	X	X
26	S111X034	Outlet Air Frame Assembly	X	X
27	105X878	Right Side Support	X	X
28	S143-042-* ①	Right Side Cover Plate (Outer)	X	X
29	135-129	Heat Shield	X	X
30	113-150-* ①	Top Rain Flashing	X	X
31	536-258	Not Used in this Unit		
32	135-175	Not Used in this Unit		

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



SEXP-397 B

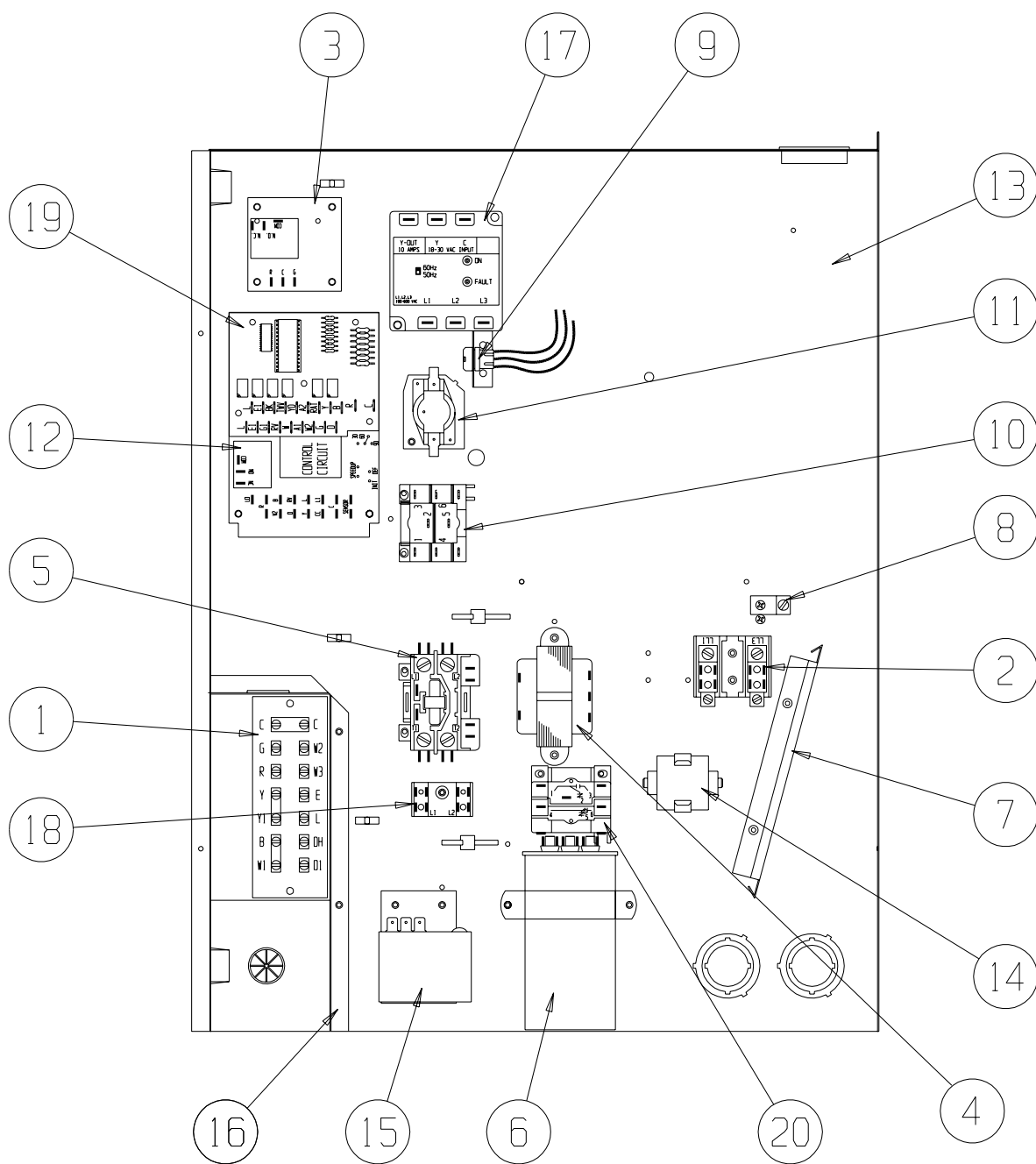
FUNCTIONAL COMPONENTS

Dwg. No.	Part Number	Description	SH612DA	SH612DB	SH612DC
1	8000-150	Compressor	X		
1	8000-162	Compressor		X	
1	8000-248	Compressor			X
2	S900-283	Blower Assembly	X	X	
2	S900-284	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	5051-124BX	Condenser Coil	X	X	X
7	800-0264	Cooling Distributor Assembly	X	X	X
8	917-0108BX	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 with 24V Solenoid Coil	X	X	X
14	5650-042	Rev. Valve Solenoid, Red Casing (Ranco)	X	X	X
14	5650-043	Rev. Valve Solenoid, Black Casing (Wilspec)	X	X	X
14	5650-046	Rev. Valve Solenoid, Black Casing (San Hua)	X	X	X
15	5650-037	Molded Plug 36" Lead	2	2	2
16	5651-163	Heating Expansion Valve	X	X	X
17	8620-095	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	800-0355	Heating Distributor Assembly	X	X	X
21	800-0326	Drain Back Assembly	X	X	X
22	5650-045	Three-Way Valve with 24V Solenoid Coil	X	X	X
23	5650-042	Rev. Valve Solenoid, Red Casing (Ranco)	X	X	X
23	5650-043	Rev. Valve Solenoid, Black Casing (Wilspec)	X	X	X
23	5650-046	Rev. Valve Solenoid, Black Casing (San Hua)	X	X	X
NS	1804-0107	Low Pressure Switch (Flare) ①	X	X	X
NS	5651-146	Check Valve	X	X	X
NS	CMA-6	Low Ambient Switch (Flare) ①	X	X	X

NS – Not Shown

① – Optional

CONTROL PANEL



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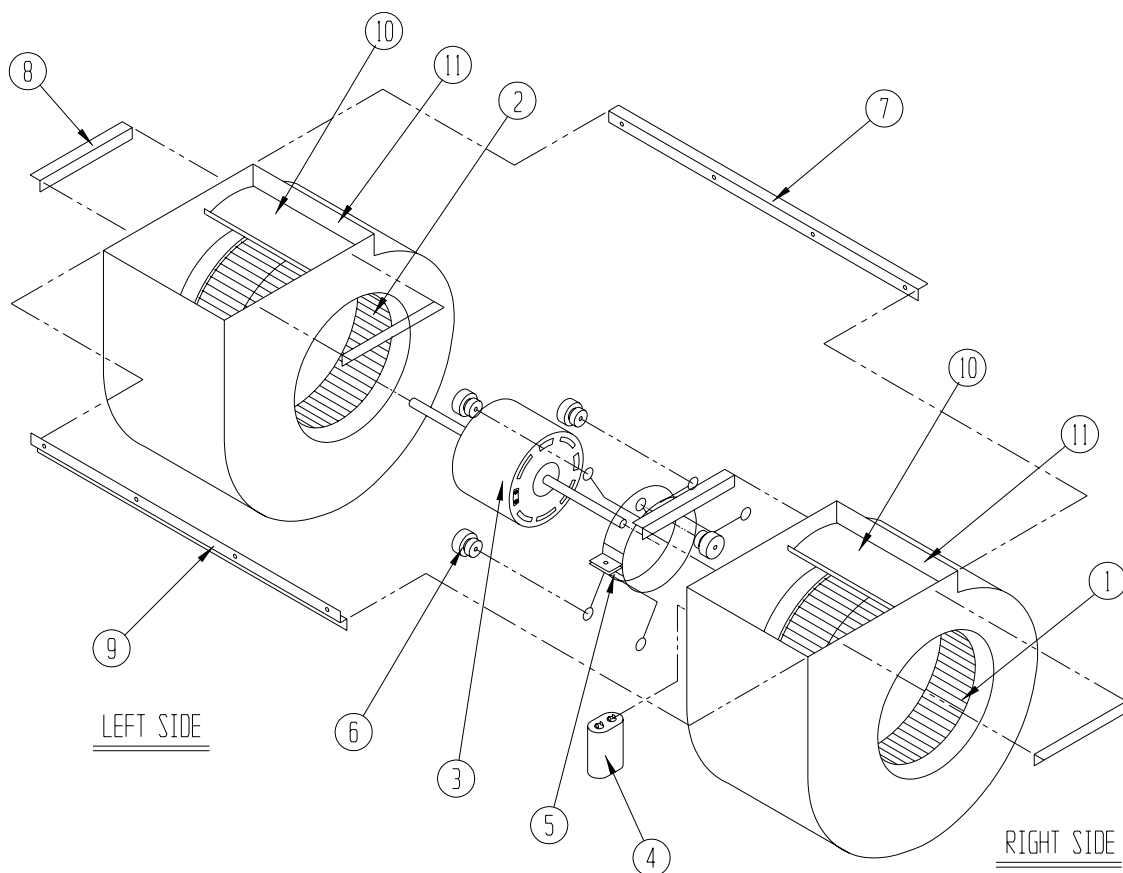
CONTROL PANEL

Drawing No.	Part No.	Description	SH612DA	SH612DB	SH612DC
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	Phenolic Insulator			X
3	8201-056	Blower Control	X	X	
3	8201-032	Blower Relay			X
4	8407-035	Transformer	X	X	
4	8407-042	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	8201-086	Low Ambient Bypass Relay ①	X	X	X
11	8201-065	Low Pressure Bypass TDR ①	X	X	X
12	8201-102	Heat Pump Control Board	X	X	X
13	117X229	Control Panel	X	X	X
14	8551-004	Start Device	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

Drawing No.	Part No.	Description	S900-283	S900-284
1	5152-090	9 Inch Wheel (CW)	X	X
2	5152-091	9 Inch Wheel (CCW)	X	X
3	8106-030	Blower Motor (230/208)	X	
3	8106-025	Blower Motor (460)		X
4	8552-005	Capacitor	X	X
5	8200-040	Motor Mount	X	X
6	5451-011	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	Blower Housing	2	2
11	144-166	Diffuser	2	2