
REPLACEMENT PARTS MANUAL

MULTI-TEC™ WALL-MOUNT PACKAGE AIR CONDITIONER

Part of the Bard Free Cooling Unit System

Models:

W18AAPA W24AAPA W24AAPD
W24AAPB W24AAPF
W24AAPC

Contents

Description	Page	Description	Page
Cabinet Components		Freecooling Air Hood	
♦ Exploded View	2	♦ Exploded View	10
♦ Usage List	3	♦ Usage List	10
Functional Components		Freecooling Damper Motor	
♦ Exploded View	4	♦ Exploded View	11
♦ Usage List	5	♦ Usage List	11
Control Panel			
♦ Layout View	6		
♦ Usage List	7		
Blower Assembly			
♦ Exploded View	8		
♦ Usage List	8		
Freecooling Components			
♦ Exploded View	9		
♦ Usage List	9		

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

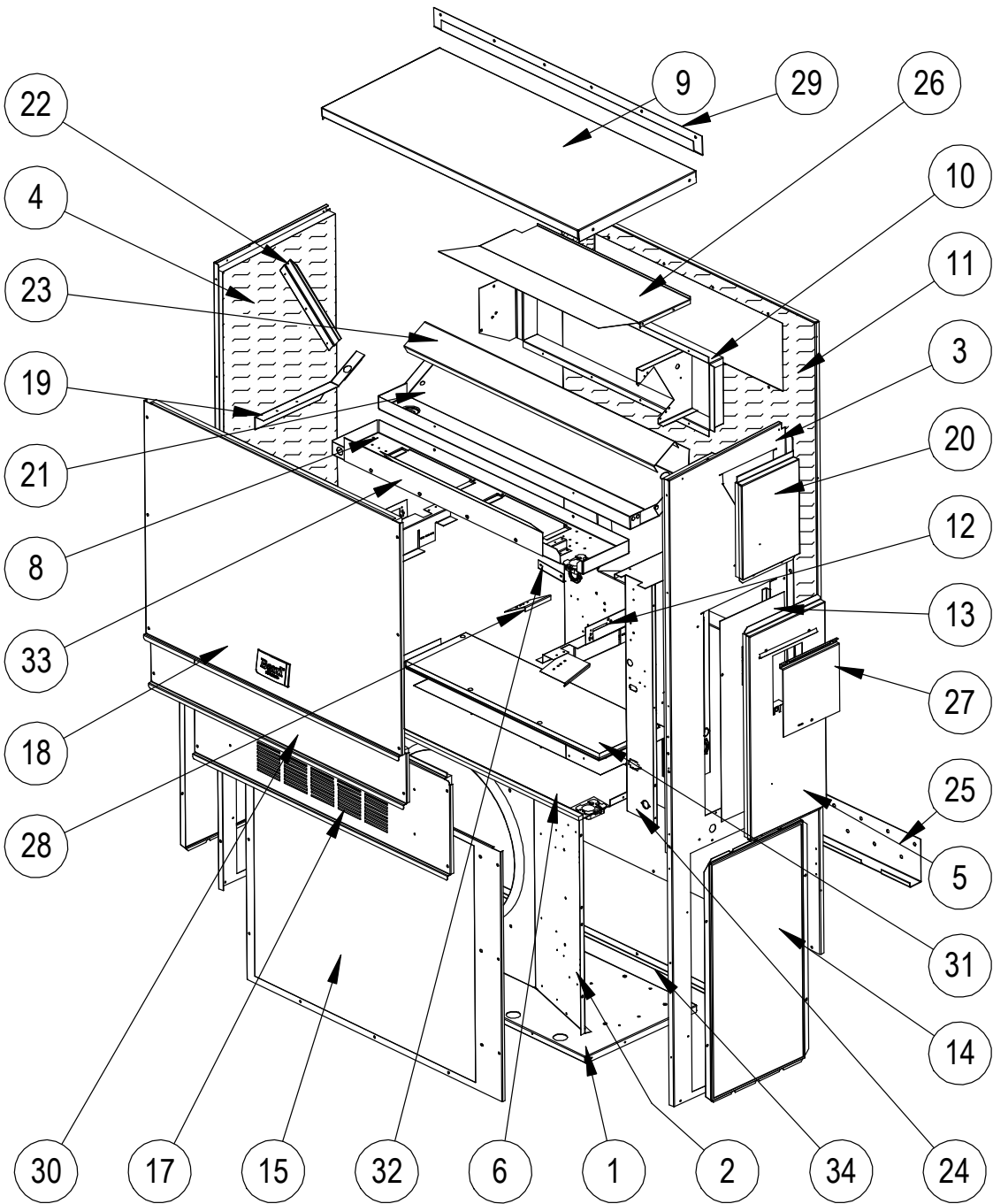
- Contact the installing and/or local Bard distributor for all parts requirements. Make sure to have the complete model and serial number available from the unit rating plates.



Bard Manufacturing Company, Inc.
Bryan, Ohio 43506
www.bardhvac.com

Manual: 2110-1440
Supersedes: **NEW**
Date: 10-11-16

CABINET COMPONENTS



SEXP-878

CABINET COMPONENTS

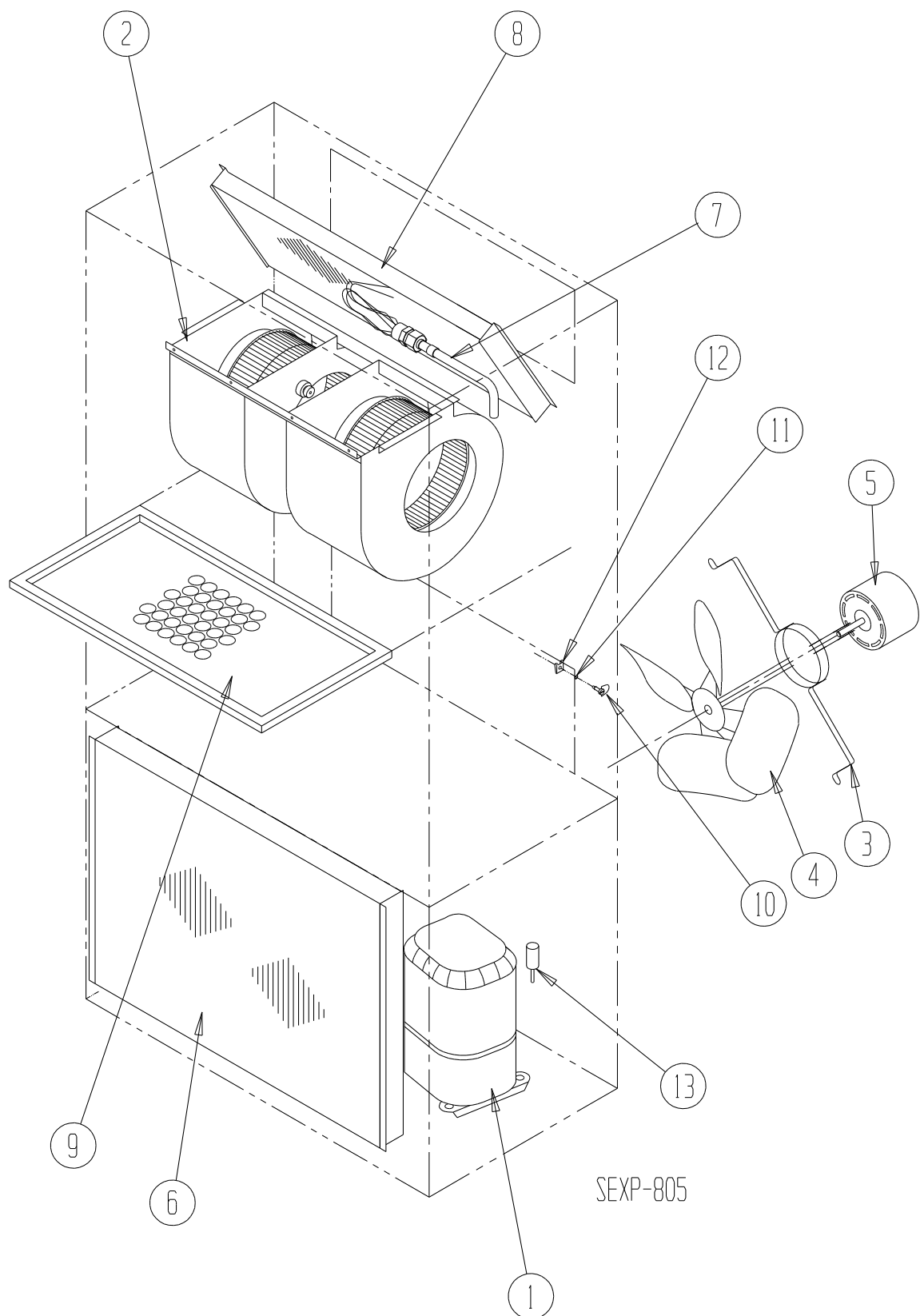
Dwg No.	Part Number	Description	W18AAPA	W24AAPA,B,D	W24AAPC,F
1	127-529	Lower Base	X	X	X
1	127-469 ②	Lower Base	X	X	X
2	125-080	Fan Shroud	X	X	X
2	125-082 ②	Fan Shroud	X	X	X
3	S501-933-* ①	Right Side	X	X	X
3	S501-939-* ②	Right Side	X	X	X
3	S501-937 ③	Right Side	X	X	X
4	S501-934-* ①	Left Side	X	X	X
4	S501-938-* ②	Left Side	X	X	X
4	S501-940 ③	Left Side	X	X	X
5	S533-228-* ①	Control Panel Cover (Outer)	X	X	X
5	S533-235 ②	Control Panel Cover (Outer)	X	X	X
5	S533-236 ③	Control Panel Cover (Outer)	X	X	X
6	S521X528	Condenser Partition	X	X	X
8	121X480	Blower Partition	X	X	X
9	S507-311-* ①	Top	X	X	X
9	S507-318-* ③	Top	X	X	X
9	S507-317 ②	Top	X	X	X
10	S111X032	Outlet Air Frame Assembly	X	X	X
11	S508-342	Back	X	X	X
11	S508-344 ③	Back	X	X	X
11	S508-346 ②	Back	X	X	X
12	113X480	Filter Bracket	2	2	2
13	S132-104	Control Panel Cover (Inner)	X	X	
13	S132-172	Control Panel Cover (Inner)			X
14	118-105-* ①	Side Grille	2	2	2
14	118-110 ②	Side Grille	2	2	2
14	118-115 ③	Side Grille	2	2	2
15	118-101-* ①	Condenser Grille	X	X	X
15	118-106 ②	Condenser Grille	X	X	X
15	118-111 ③	Condenser Grille	X	X	X
17	S553-537-* ①	Vent Option Door	X	X	X
17	S553-548 ③	Vent Option Door	X	X	X
17	S553-547 ②	Vent Option Door	X	X	X
18	S514-240-* ①	Upper Front	X	X	X
18	S514-237-* ③	Upper Front	X	X	X
18	S514-236 ②	Upper Front	X	X	X
19	105X850	Side Support	X	X	X
20	S543-175-* ①	Right Side Cover Plate (Outer)	X	X	X
20	S543-185 ②	Right Side Cover Plate (Outer)	X	X	X
20	S543-184 ③	Right Side Cover Plate (Outer)	X	X	X
21	S123-126	Drain Pan	X	X	X
21	S123-140 ②③	Drain Pan	X	X	X
22	147-044	Evaporator Support	X	X	X
23	137-694	Bottom Evaporator Fill	X	X	X
24	Control Panel Assembly	See Control Panel Assy. Drawing & Parts List Assy.	X	X	X
25	113-140	Bottom Mounting Bracket	X	X	X
26	135X127	Heat Shield	X	X	X
27	S153-218 ①	Disconnect Access Door	X	X	X
27	S153-405 ②	Disconnect Access Door	X	X	X
27	S153-387 ③	Disconnect Access Door	X	X	X
28	137-259	Fill Plate	X	X	X
29	113-141-* ①	Top Rain Flashing	X	X	X
29	113-361 ②	Top Rain Flashing	X	X	X
29	113-141-4 ③	Top Rain Flashing	X	X	X
30	S553-538-* ①	Filter Door	X	X	X
30	S553-552-* ③	Filter Door	X	X	X
30	S553-551 ②	Filter Door	X	X	X
31	S536-176	Cond. Partition Block Off Plate	X	X	X
32	105-1302	Grommet Retainer	X	X	X
33	105-1392	Close Off Angle	X	X	X
NS	BOP-2	Blank Off Plate	X	X	X

① Exterior cabinet parts are manufactured with various paint color options. To ensure the proper paint color is received, include the complete model and serial number of the unit for which cabinet parts are being ordered.

② Exterior cabinet parts are manufactured from stainless steel Code "S"

③ Exterior cabinet parts are manufactured from aluminum Code "A"

FUNCTIONAL COMPONENTS



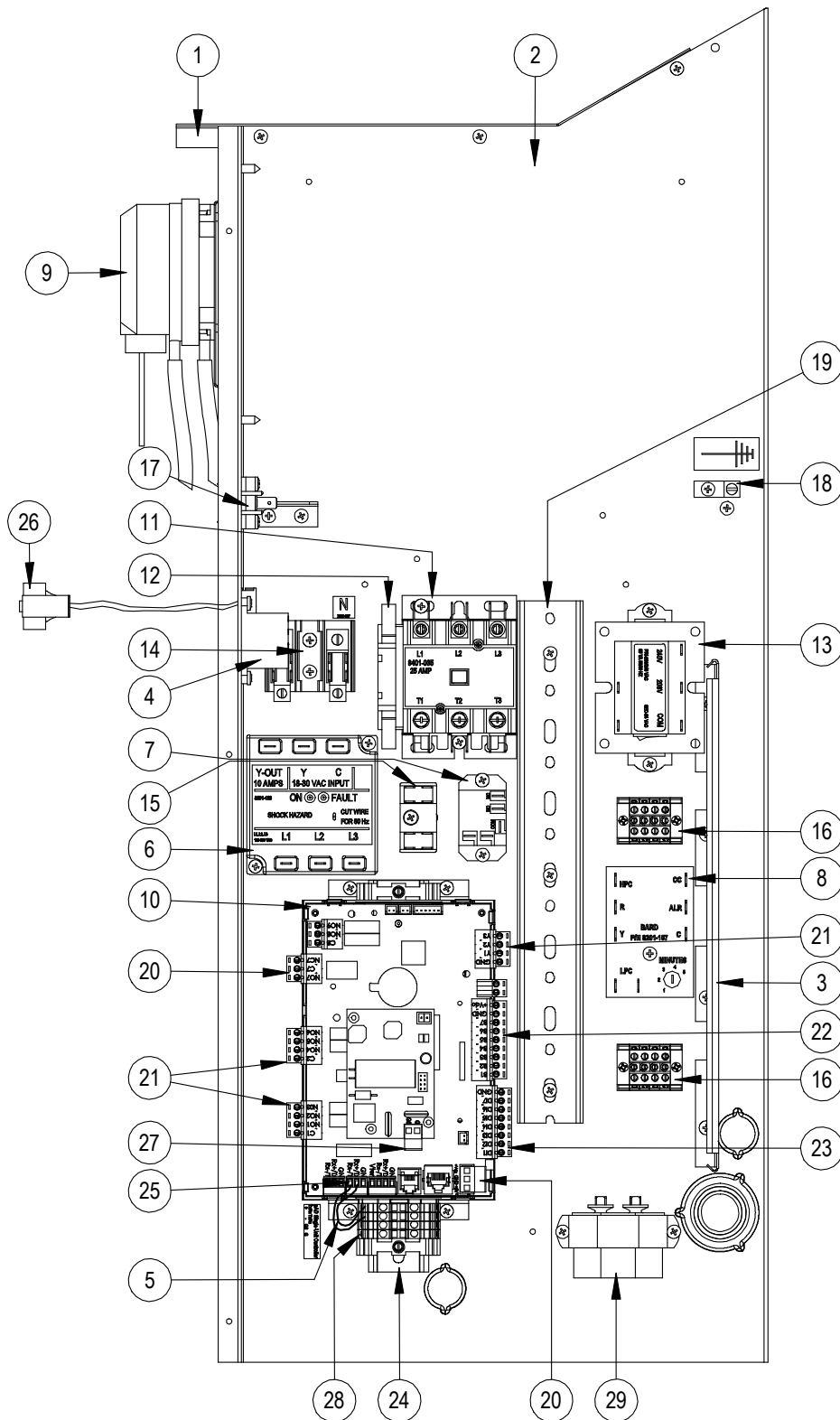
FUNCTIONAL COMPONENTS

Dwg No.	Part Number	Description	W18AAPA	W24AAPA	W24AAPB	W24AAPC	W24AAPD	W24AAPF
1	8000-313	Compressor	X					
1	8000-314	Compressor		X				
1	8000-315	Compressor			X			
1	8000-316	Compressor				X		X
1	8000-317	Compressor					X	
2	S900-326	Blower Assembly		X	X		X	X
2	S900-327	Blower Assembly				X		
2	S900-291	Blower Assembly	X					
3	8200-001	Fan Motor Mount	X	X	X	X	X	X
4	5151-033	Fan Blade	X	X	X		X	X
4	5151-046	Fan Blade				X		
5	8103-016	Condenser Motor	X	X	X		X	X
5	8103-020	Condenser Motor				X		
6	5051-205BX	Condenser Coil	X					
6	5054-205BX	Condenser Coil – Coated	X					
6	5051-204BX	Condenser Coil		X	X	X	X	X
6	5054-204BX	Condenser Coil – Coated		X	X	X	X	X
7	800-0458	Distributor Assembly	X					
7	800-0459	Distributor Assembly		X	X	X	X	X
8	917-0276BX	Evaporator Coil with Distributor Assembly	X					
8	917-0283BX	Evaporator Coil – Coated with Distributor Assembly	X					
8	917-0277BX	Evaporator Coil with Distributor Assembly		X	X	X	X	X
8	917-0284BX	Evaporator Coil – Coated with Distributor Assembly		X	X	X	X	X
9	7004-011	Air Filter 1" Throw-Away (16x25x1)	X	X	X	X	X	X
9	7003-032	Air Filter 1" Washable ① (16x25x1)	X	X	X	X	X	X
9	7004-025	Air Filter 2" Pleated ① (16x25x2)	X	X	X	X	X	X
10	1171-022	1/4" Turn Fastener	X	X	X	X	X	X
11	1171-024	1/4" Turn Retainer	X	X	X	X	X	X
12	1171-023	1/4" Receptacle	X	X	X	X	X	X
13	8406-142	High Pressure Switch (Screw On)	X	X	X	X	X	X
13	8406-140	Low Pressure Switch (Screw On)	X	X	X	X	X	X
NS	CMA-33	Modulating Low Ambient Control (Screw On) ①	X	X	X	X	X	X
NS	5201-021	Filter Drier	X	X	X	X	X	X
NS	5451-024	Tubing Isolation Grommet	X	X	X	X	X	X
NS	6031-009	Coremax Value Core	X	X	X	X	X	X
NS	1171-028	Filter Door Clip	2	2	2	2	2	2
NS	1171-057	Filter Door Screw	2	2	2	2	2	2
NS	1171-027	Filter Door Screw Retainer	2	2	2	2	2	2
NS	8605-019	Crankcase Heater	X	X	X		X	X
NS	8605-020	Crankcase Heater				X		

NS – Not Shown

① – Optional on these models

CONTROL PANEL



SEXP-880

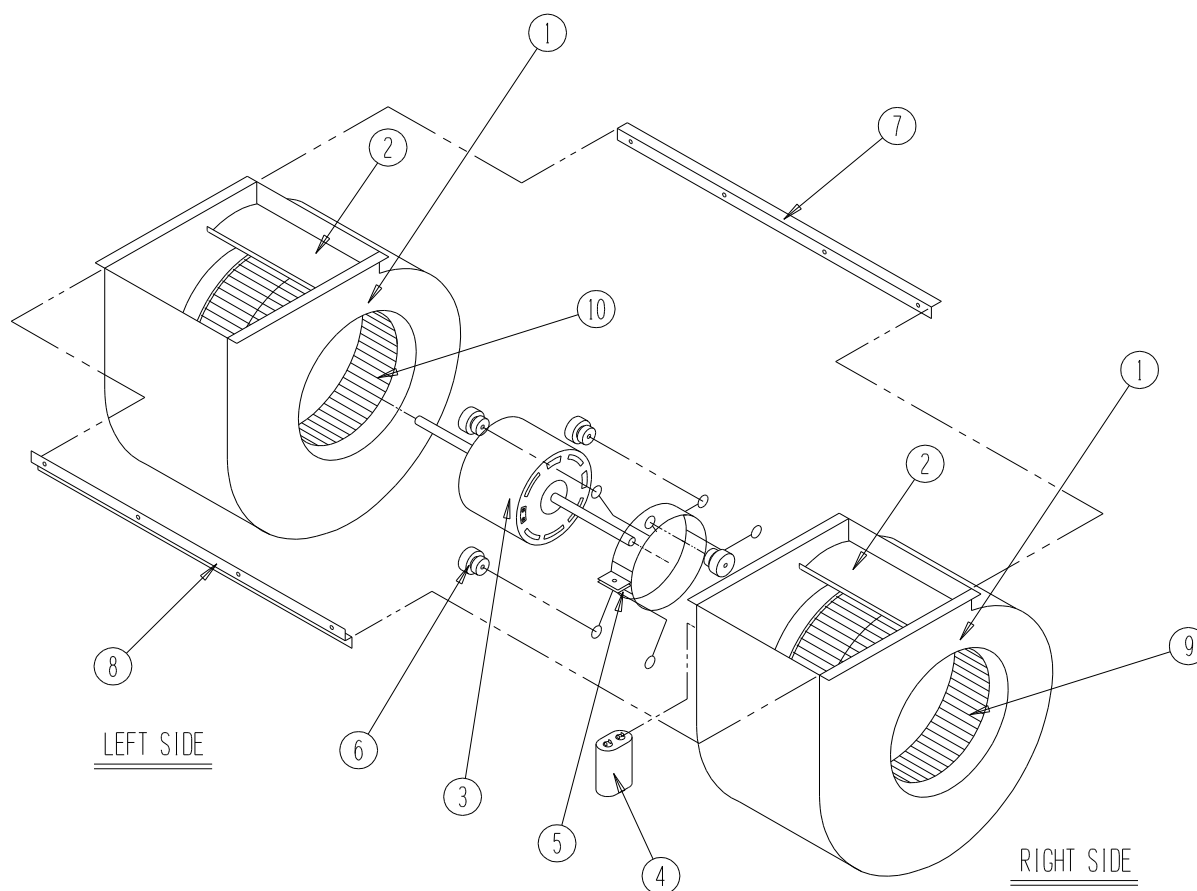
CONTROL PANEL

Dwg No.	Part Number	Description	W18AAPA	W24AAPA	W24AAPB	W24AAPC	W24AAPD	W24AAPF
1	117X137	Control Panel Top	X	X	X	X	X	X
2	117X395	Control Panel	X	X	X	X	X	X
3	135-122	Wire Shield	X	X	X	X	X	X
4	8201-130	Blower Relay	X	X	X	X	X	X
5	3020-004	Communications Sheathed Cable	X	X	X	X	X	X
6	8201-126	3 Phase Line Monitor 50/60 Hz			X	X		X
7	8201-130	Alarm Relay	X	X	X	X	X	X
8	8201-157	Compressor Control Module	X	X	X	X	X	X
9	8301-057	Filter Switch w/Adjustment	X	X	X	X	X	X
10	8301-068-001	Programmed Micro PC3	X	X	X	X	X	X
11	8401-035	Contactor 3-Pole 25 Amp			X	X		X
11	8401-038	Contactor 2-Pole 40 Amp	X	X			X	
12	8401-039	Aux. NC Contact			X	X		X
13	8407-048	Transformer 208/240-24 75VA	X	X	X		X	X
13	8407-050	Transformer 480/24VAC 75VA				X		
14	8607-013	Terminal Block 2 Term. 240V						X
15	8607-017	Terminal Block 240V 2 Terminal	X	X	X	X	X	X
16	8607-037	Terminal Block 4 Position	X	X	X	X	X	X
17	8607-041	Park Terminal	X	X	X		X	X
18	8611-006	Ground Terminal	X	X	X	X	X	X
19	8611-140-1200	2-1/4" x 1" Cable Duct x 12"	X	X	X	X	X	X
20	8611-147	3-Pin Circuit Board Connector	X	X	X	X	X	X
21	8611-148	4-Pin Circuit Board Connector	X	X	X	X	X	X
22	8611-149	9-Pin Circuit Board Connector	X	X	X	X	X	X
23	8611-185	8-Pin Circuit Board Connector	X	X	X	X	X	X
24	8611-189	35MM DIN Rail 9"	X	X	X	X	X	X
25	8611-192	Small 3-Pin Circuit Board Connector	X	X	X	X	X	X
26	910-1935	Evap. Temp. Sensor Assembly	X	X	X	X	X	X
27	8611-183	2-Pin Circuit Board Connector	X	X	X	X	X	X
28	8611-150	DIN Rail Terminal Block	X	X	X	X	X	X
29	8552-046	Compressor Capacitor	X					
29	8552-051	Compressor Capacitor		X			X	
29	8552-002	Outdoor Motor Capacitor			X	X		X
NS	3000-1224	Compressor Plug/Harness	X	X			X	
NS	3000-1231	Compressor Plug/Harness			X	X		X
NS	8615-035	Circuit Breaker 20A 2 Pole (Opt.) ①	X				X	
NS	8615-036	Circuit Breaker 25A 2 Pole (Opt.) ①		X				
NS	8615-056	Circuit Breaker 15A 3 Pole (Opt.) ①			X			
NS	8615-067	Toggle Disconnect (Opt.) ①				X		X
NS	4207-100A	Wiring Diagram		X			X	
NS	4207-102A	Wiring Diagram	X					
NS	4207-200A	Wiring Diagram			X		X	
NS	4207-300A	Wiring Diagram				X		
NS	4207-600A	Wiring Diagram						X

NS = Not Shown

- ① Circuit breakers listed are for units without electric heat, "0Z" models. Hot gas bypass models not available without electric heat. See heater replacement parts manual for units with electric heat.

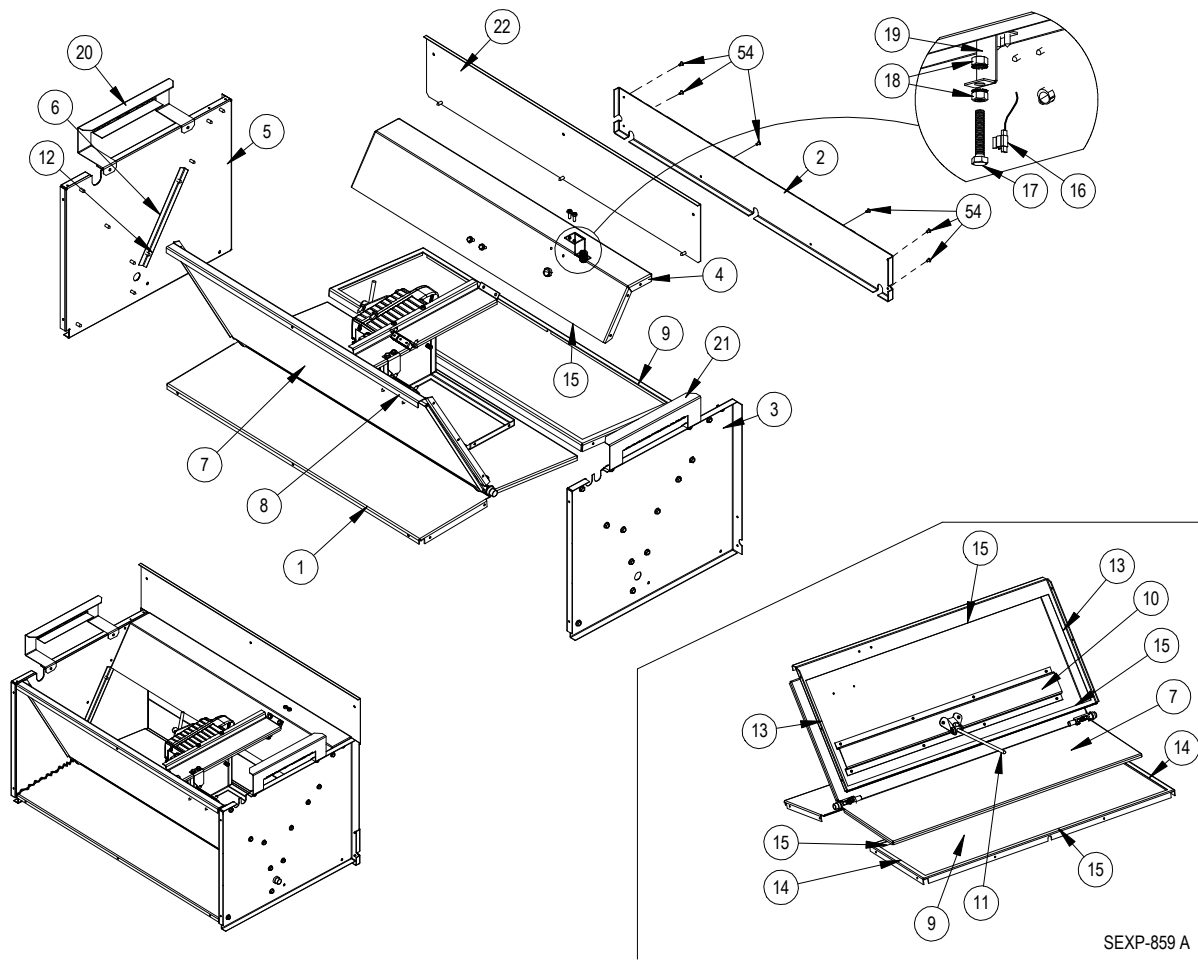
BLOWER ASSEMBLY



SEXP-346

Dwg No.	Part Number	Description	S900-326	S900-327	S900-291
1	151-115	Housing	2	2	2
2	144-183	Cutoff	X	X	X
3	8102-016	Blower Motor (230/208)	X		
3	8102-017	Blower Motor (460)		X	
3	8102-014	Blower Motor (230/208)			X
4	8552-002	Capacitor			X
4	8552-004	Capacitor	X	X	
5	8200-031	Motor Mount	X	X	X
6	5451-011	Grommets	6	6	6
7	105-1061	Back Brace	X	X	X
8	103-435	Front Brace	X	X	X
9	5152-092	Wheel 9-6 CW	X	X	X
10	5152-093	Wheel 9-6 CCW	X	X	X

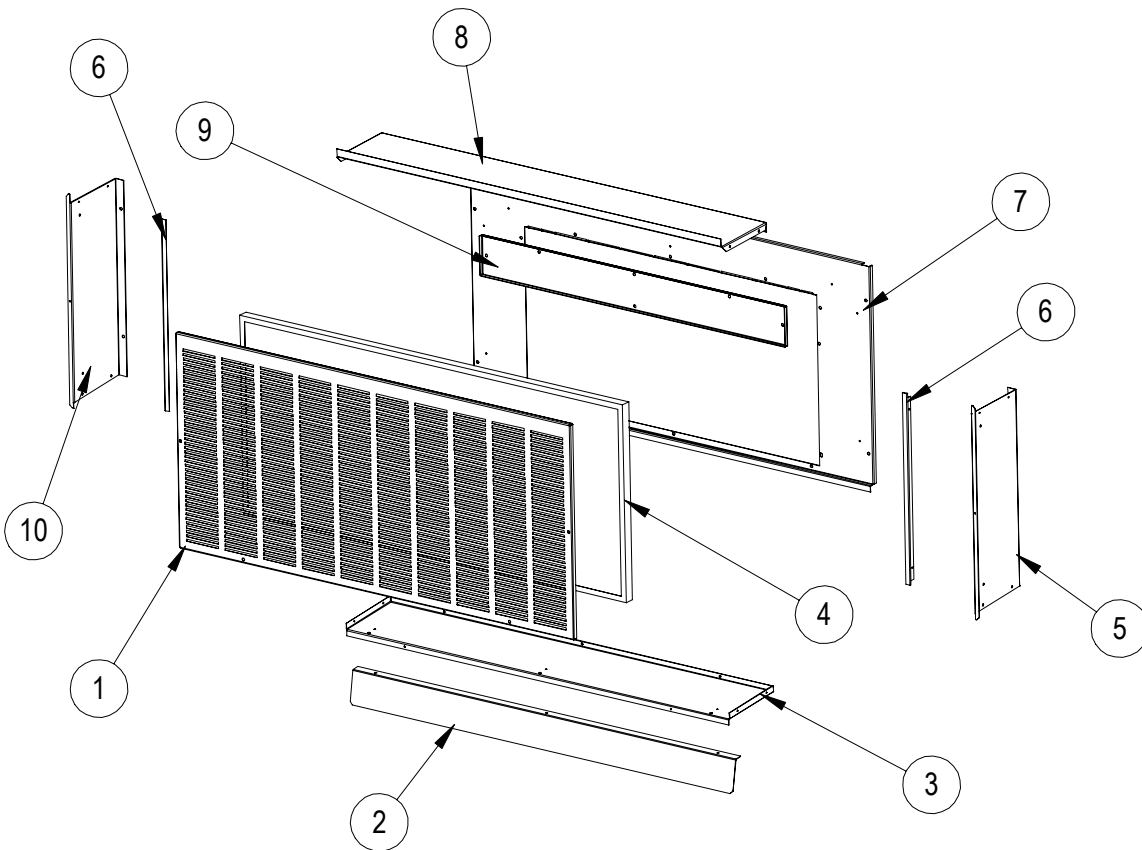
FREECOOLING COMPONENTS



SEXP-859 A

Dwg. No.	Part Number	Description
1	137-742	Lower Front Partition
2	137-747	Lower Rear Fill
3	S101-979	Right Side
4	S137-876	Upper Rear Partition
5	S101-978	Left Side
6	S105-1344	Blade Seal Angle
7	S139-325	Blade
8	S137-866	Upper Front Partition
9	S137-744	Lower Rear Partition
10	141-433	Blade Support
11	8602-044	1/4 x 9" Rod
12	S1921-067-0800	29-9/16" Damper Blade Seal
13	S1921-067-1004	13" Damper Blade Seal
14	S1921-067-0802	10-11/16" Damper Blade Seal
15	S1921-067-2010	29-3/8" Damper Blade Seal
16	8408-044	Sensor 10K Ohm Curve J w/ 5/16" Clip
17	1012-052	Hex Head Bolt 5/16 - 18x1-3/4" 0.0005 Zinc w/ Yellow Chromate
18	1012-210	5/16" Nut 0.0005 Zinc w/ Yellow Chromate
19	113-541	Sensor Bracket
20	113-542	Filter Bracket
21	113-543	Filter Bracket
22	137-748	Upper Rear Fill
23	8602-040	Rod Bracket
NS	536-664	Condenser Cover Plate Assembly

FREECOOLING AIR HOOD



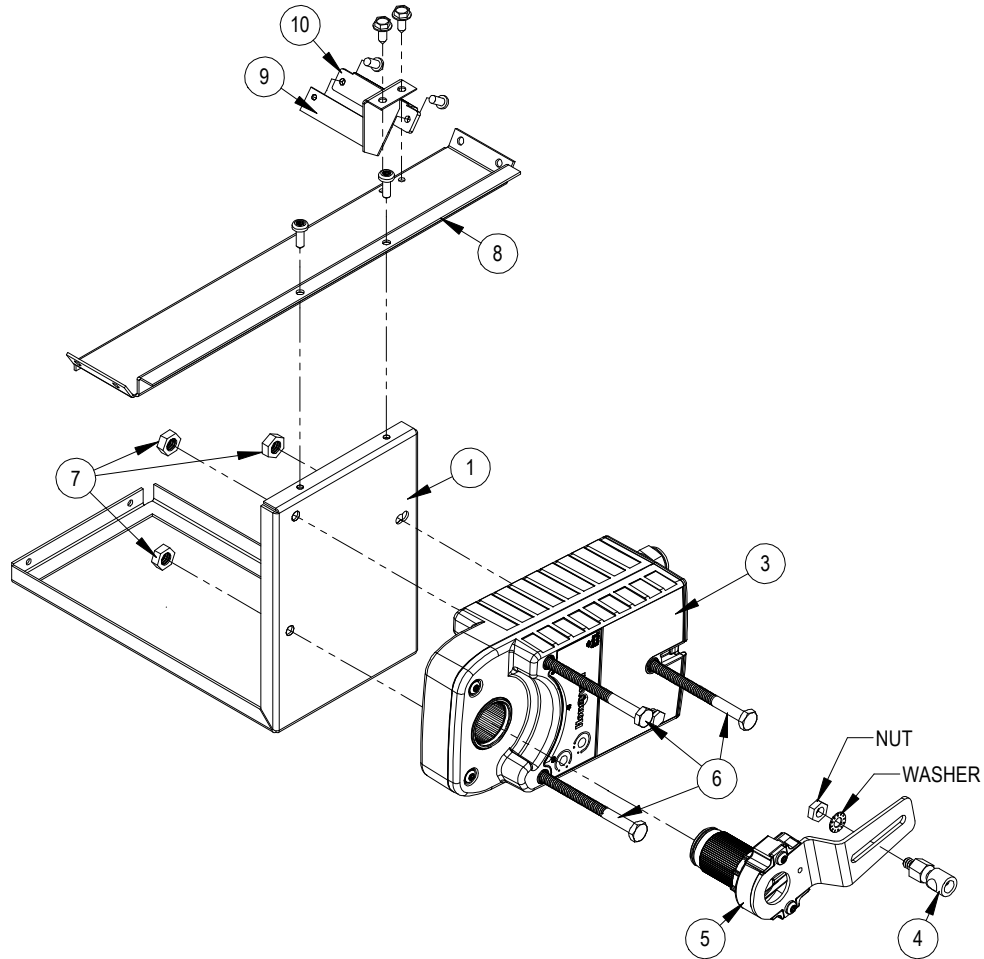
SEXP-752A

Dwg. No.	Part Number	Description
1	115-285-* ①	Hooded Front Door
2	113-545-* ①	Bottom Divider Bracket
3	S127-494-* ①	Hood Bottom
4	7003-067	Mist Filter 31-1/4" x 15-7/8" x 7/8"
5	S101-991-* ①	Right Side
6	105-1346	Side Filter Angle
7	553-667-* ①	Hood Mounting Door
8	107-345-* ①	Hood Top
9	553-613	Filter Door
10	101-873-* ①	Left Side
	S920-390	Complete Hood Assembly - Beige
	S920-391	Complete Hood Assembly - White
	S920-392	Complete Hood Assembly - Buckeye Gray

① Exterior cabinet parts are manufactured with various paint color options. To ensure the proper paint color is received, reference the following codes:

Beige	-X	Buckeye Gray	-4
White	-1		

FREECOOLING DAMPER MOTOR



SEXP-879

Dwg. No.	Part Number	Description
1	141-466	Actuator Support Plate
3	8602-067	Direct Coupled Actuator
4	8602-008	Ball Joint
5	8602-068	Belimo Actuator Crank Arm 1/2"
6	1012-174	1/4" - 20x3 - 1/4 Hex Cap Screws
7	1012-201	1/4-20 Steel Keps Hex Nut Zinc
8	141-464	Actuator Support Bar
9	113-655	Blade Switch Bracket
10	8406-150	Lever Switch SPDT Sealed Pilot Duty
11	1012-178	4-40 x 5/8" Phillips Pan Head Machine Screw, Zinc Plated
12	1012-231	4-40 Steel Keps Hex Nut Zinc
NS	910-2014	Outdoor Temperature Sensor