



Manitowoc

Foodservice

Parts Manual

For more Parts Information:

<https://manitowocfsg.sysonline.com/Default.aspx>

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Manitowoc Foodservice [Updated: Sep. 30, 2013]

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S Model - Air, Water & Remote

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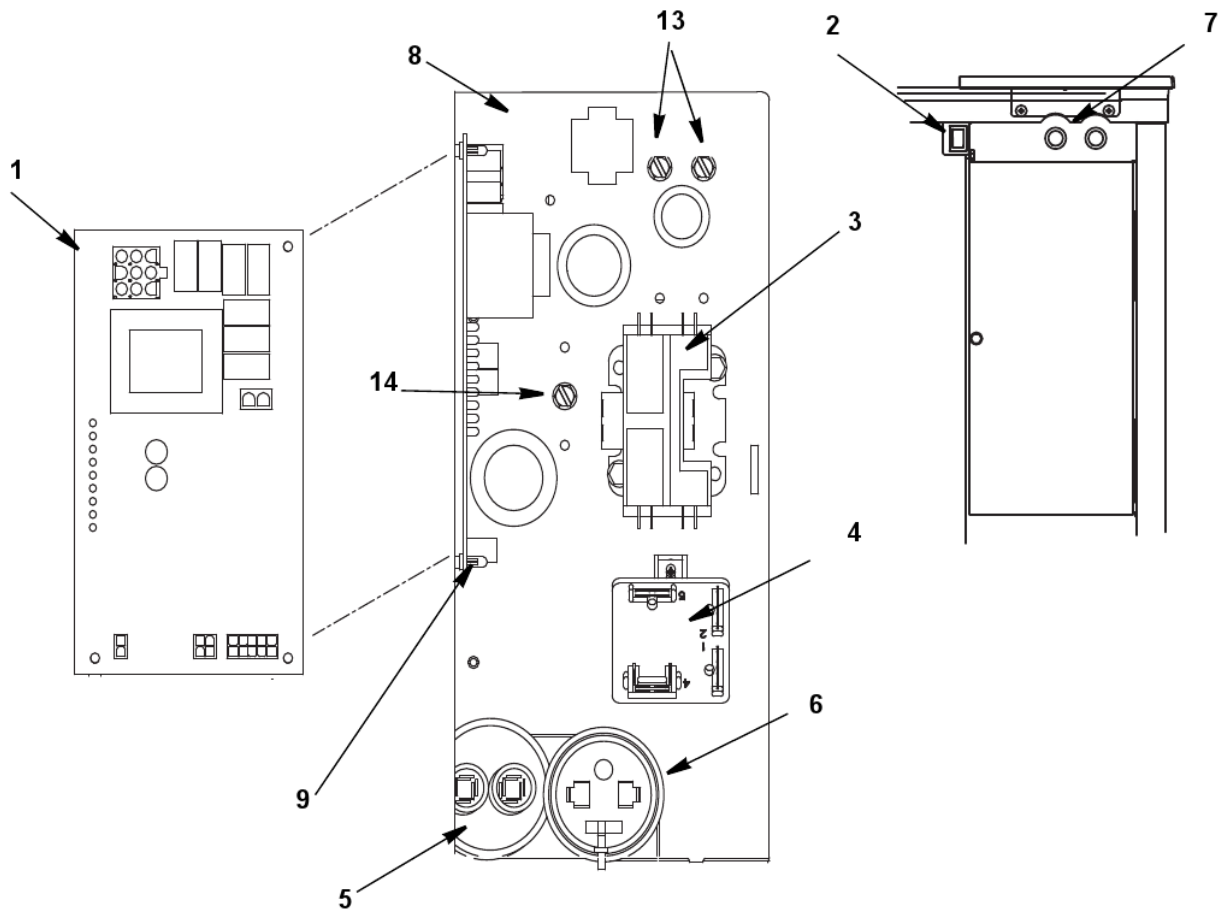
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S0450 CONTROL BOX



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S0450 CONTROL BOX

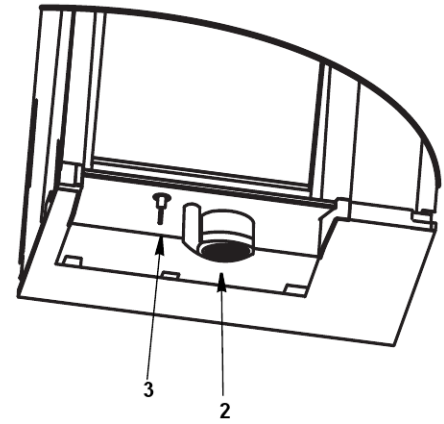
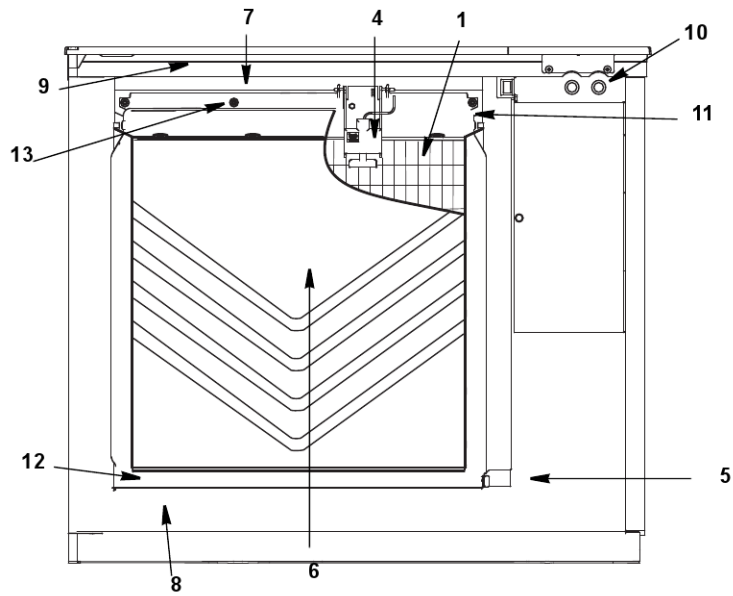
#	PART #	DESCRIPTION	QTY	Note
1	2006199	Control Board		
1a	000008240	7 Amp Fuse - Mounted on Control Board		
2	2007939	Toggle Switch		
2a	2008079	Toggle Switch Wiring Harness		
2b	4011639	Toggle Switch Box		
3		Contactor		
3a	2006589	Contactor - 115V/60 Hz/1 Ph		
3b	2006599	Contactor - 230V/50-60 Hz/1 Ph		
4		Start Potential Relay - See Notes for Breaks		
4a	2002053	Start Potential Relay - 115V/60 Hz/1 Ph		
4b	2007929	Start Potential Relay - 208-230V/50-60 Hz/1 Ph		[1]
4c	2007639	Start Potential Relay - 208-230V/50-60 Hz/1 Ph		[2]
5		Run Capacitor - See Notes for Breaks		
5a	2010143	Run Capacitor - 115V/60 Hz/1 Ph		
5b	8504003	Run Capacitor - 208-230V/50-60 Hz/1 Ph		[3]
5c	2009493	Run Capacitor - 208-230V/50-60 Hz/1 Ph		[4]
5d	8504003	Run Capacitor - 208-230V/50-60 Hz/1 Ph		[5]
6		Start Capacitor - See Notes for Breaks		
6a	8505773	Start Capacitor - 115V/60 Hz/1 Ph		
6b	8503703	Start Capacitor - 208-230V/50-60 Hz/1 Ph		[3]
6c	000000022	Start Capacitor - 230V/50-60 Hz/1 Ph		[4]
6d	8503833	Start Capacitor - 208-230V/50-60 Hz/1 Ph		[5]
7	8373263	Refrigeration Service Valve Assembly		
8	6063909	Control Box		
8a	7602153	Control Box Cover		
9	4302253	Control Board Mounting Supports		
10	2500169	Bushing - 0.91" OD x 0.44" ID		
11	6063949	Start Components Electrical Box		
11a	7602729	Start Components Electrical Box Cover		
12	5005309	Capacitor Mounting Bracket		
13	5202169	Screw - #10-24 x 0.50" Ground		
13a	5573209	Star Washer		
14	5202069	Screw - #10-24 x 0.50" HEX		
15		Control Box Wiring Harness		
15a	2008599	Control Box Wiring Harness - 115V/60 Hz/1 Ph		
15b	2008609	Control Box Wiring Harness - 230V/60 Hz/1 Ph		
15c	2008619	Control Box Wiring Harness - 230V/50 Hz/1 Ph		

PART NOTES:

- [1] - Use with Danfoss SC15MLX.3 After Serial Number 110670157
- [2] - Use with Danfoss SC18MLX.3 Before Serial Number 110670157
- [3] - Danfoss SC15MLX.2 - Before Serial Number 110667970
- [4] - Danfoss SC18MLX.3 - Before Serial Number 110667970
- [5] - After Serial Number 110667970

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S0450 EVAPORATOR COMPARTMENT

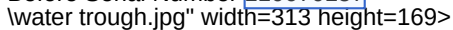


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S0450 EVAPORATOR COMPARTMENT

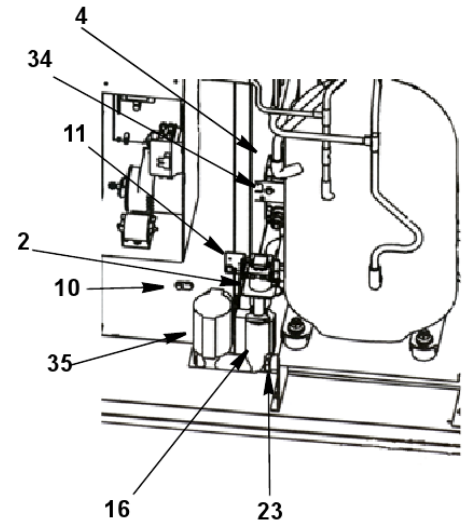
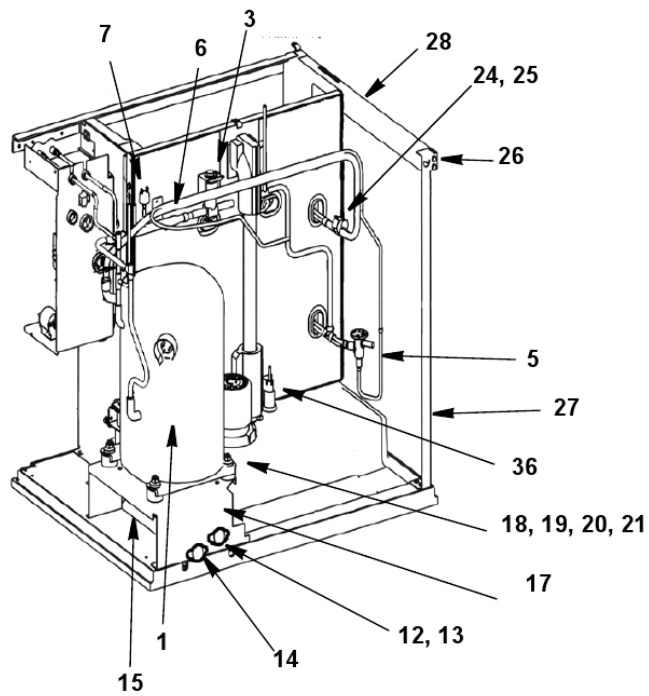
#	PART #	DESCRIPTION	QTY	Note
1		Evaporator Assembly		
1a	7602879	Evaporator - Dice Cube		
1b	7602889	Evaporator - Half Dice Cube		
2		Water Pump		
2a	2008929	Water Pump - 115V/60 Hz		
2b	2008939	Water Pump - 230V/60 Hz		
2c	2008949	Water Pump - 230V/50 Hz		
3	2006549	Water Level Probe		
3a	2007989	Wire - Control Box to Probe		
4	2008029	Ice Thickness Control Probe		
5	000007888	Magnetic Bin Switch		
6	4011189	Water Curtain		
7	7602789	Water Distribution Tube - 22" Models		
7a	5004649	O-Rings		[1]
8		Water Trough - See Note for Serial Break		
8a	4003609	Water Trough		[2]
8b	000002106	Water Trough		[3]
9	4008469	Evaporator Top Filler Panel		
9a	6063339	Bracket - Top Filler Panel		
9b	5202099	Screw - #10-24 x 0.50" PHIL		
10	8373263	Refrigeration Service Valve Assembly		
11	7602799	Evaporator Top Frame Assembly		
12	7602779	Water Diverter - 22" Models		
12a	5305123	Thumbscrew SS - #8-32 x 0.44"		
13	5004799	Thumbscrew SS - #8-32 x 0.375"		[4]
13a	5004629	O-Ring - 0.125" ID		
14	5004619	Screw - #12-16 x 0.687"		[5]
15	5004659	Water Pump Base O-Ring - 4.00" ID		
16	5004679	Water Pump Outlet O-Ring - 0.875" ID		
17	000001382	Vinyl Tubing 0.625" ID		[6]
17a	6038831	Insulation 0.88 ID X 0.25W X 13.50L		

PART NOTES:

- [1] - Back of Distribution Assembly
- [2] - Before Serial Number 110670157

- [3] - After Serial Number 110670157
- [4] - Water Distribution Tube Mounting
- [5] - Used to Mount Evaporator
- [6] - dump valve to drain adapter

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S0450 REFRIGERATION COMPARTMENT - COMMON COMPONENTS



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S0450 REFRIGERATION COMPARTMENT - COMMON COMPONENTS

#	PART #	DESCRIPTION	QTY	Note
1		Compressor - See Notes for Breaks		
		Compressors - 115V/60 Hz/1 Ph		
1a	7602943	Compressor - Danfoss SC18MLX.3 - 115V/60 Hz/1 Ph		[1]
1b	000003919	Compressor - Danfoss SC15MLX.2 - 115V/60 Hz/1 Ph		[2]
		Compressors - 230V/60 Hz/1 Ph		
1c	7602953	Compressor - Danfoss SC18MLX.3 - 208-230V/60 Hz/1 Ph		[1]
1d	000003920	Compressor - Danfoss SC15MLX.2 - 208-230V/50-60 Hz/1 Ph		[2]
		Compressors - 230V/50 Hz/1 Ph		
1e	7602963	Compressor - Danfoss SC18MX.3 - 208-230V/50 Hz/1 Ph		[1]
1f	000003920	Compressor - Danfoss SC15MLX.2 - 208-230V/50-60 Hz/1 Ph		[2]
		Compressor Overload - 115V Only		
1g	8252973	Compressor Overload - 115V/60 Hz/1 Ph		[3]
1h	8251403	Compressor Overload - 115V/60 Hz/1 Ph		[4]
2		Water Dump Valve		
2a	000001767	Water Dump Valve - 115V/60 Hz		
2b	000001768	Water Dump Valve - 208-230V/50-60 Hz		
		Dump Valve Rebuild Kit		[5]
3		Harvest Valve Including Electrical Coil		
3a	7630011	Danfoss Solenoid Valve With Coil - 115V/60 Hz		
3b	7630071	Danfoss Solenoid Valve With Coil - 208-230V/50-60 Hz		
		Harvest Valve Coil Only		
3c	000005156	Danfoss Solenoid Valve Coil Only - 115V/60 Hz		[6]
3d	000005157	Danfoss Solenoid Valve Coil Only - 230V/50-60 Hz		[7]
4		Water Inlet Valve with Coil		
4a	000007965	Water Inlet Valve - 115V/60 Hz/1 Ph		
4b	000007966	Water Inlet Valve - 208-230V/50-60 Hz		
5		Expansion Valve - See Note for Serial Break		
5a	7602869	Expansion Valve		[1]
5b	7602903	Expansion Valve		[2]
5c	4013299	Valve Insulation Boot - Body		
5d	4007203	Valve Insulation Boot - Bulb		[8]
6	000008364	Manifold Strainer		[9]
7	2001243	High Pressure Cut-out Control		[10]
8		Electrical Box on Rear of Ice Machine		
8a		Box		[11]
8b	2006143	Terminal Block - 50 Hz - 3 Pole		
8c	5202169	Screw - #10-24 x 0.50" Ground		
9		Compressor Compartment Wiring Harness		
9a	2007329	Compressor Compartment Wiring Harness - Water-cooled		
9b	2007319	Compressor Compartment Wiring Harness - Air-cooled		
10	000007888	Magnetic Bin Switch		
11	6058459	Water Dump Valve Mounting Bracket		

S0450 REFRIGERATION COMPARTMENT - COMMON COMPONENTS

#	PART #	DESCRIPTION	QTY	Note
12	8706093	Female Wing Adapter - 0.375"		
13	1360961	Male Connector		
14	8706083	Female Wing Adapter - 0.50"		
15	4420383	Clear Tubing - 0.625" ID		
16	4420383	Clear Tubing - 0.625" ID		[12]
17	6061709	Compressor Mounting Base		
18	5000899	Compressor Rubber Grommet		
19	5000909	Sleeve		
20	5004999	Compressor Mounting Screw 1/4-20 x 1 1/4		
21	5005009	Compressor Mounting Nut		
22	2008559	Compressor Wiring Harness		[13]
23	5650709	Snap Clamp - 0.799"/0.899" ID		
24	5650529	Clamp - Expansion Valve Bulb		
25	3000833	Strap - Expansion Valve Bulb - 0.375"		
26	5202069	Screw - #10-24 x 0.50" HEX		
27		Left Corner Post		
27a	6061909	Left Corner Post		
27b	6062939	Left Corner Post		
28	6068649	Left Top Channel		
29	6062929	Right Corner Post		[13]
30	6062579	Right Top Channel		[13]
31	000003405	Insulated Tube		[14]
31a	5650603	Snap Clamp - 1.0" ID		
31b	5650703	Snap Clamp - 0.799"/0.899" ID		
32	4010439	Tubing - Water Inlet Valve		[15]
33	1360989	Connector - Water Inlet Valve		[16]
34	6058459	Water Dump Valve Mounting Bracket		
35	000002472	Check Valve Replacement		[17]
36	2006559	Water Level Probe Holder		
36a	5202069	Screw - #10-24 x 0.50" HEX		[18]

PART NOTES:

- [1] - Before Serial Number 110670157
- [2] - After Serial Number 110670157
- [3] - Use with Danfoss SC18MLX.3 Before Serial Number 110670157
- [4] - Use with Danfoss SC15MLX.2 After Serial Number 110670157
- [5] - No Longer Available
- [6] - \pages from 000005156_02.jpg" width=280 height=256>
- [7] - \pages from 000005156_02.jpg" width=266 height=183>
- [8] - \pages from 400720_08.jpg" width=923 height=583>
- [9] - in front of hot gas valve
- [10] - Auto Reset
- [11] - Included in Back Panel Assembly
- [12] - 3.25 inches

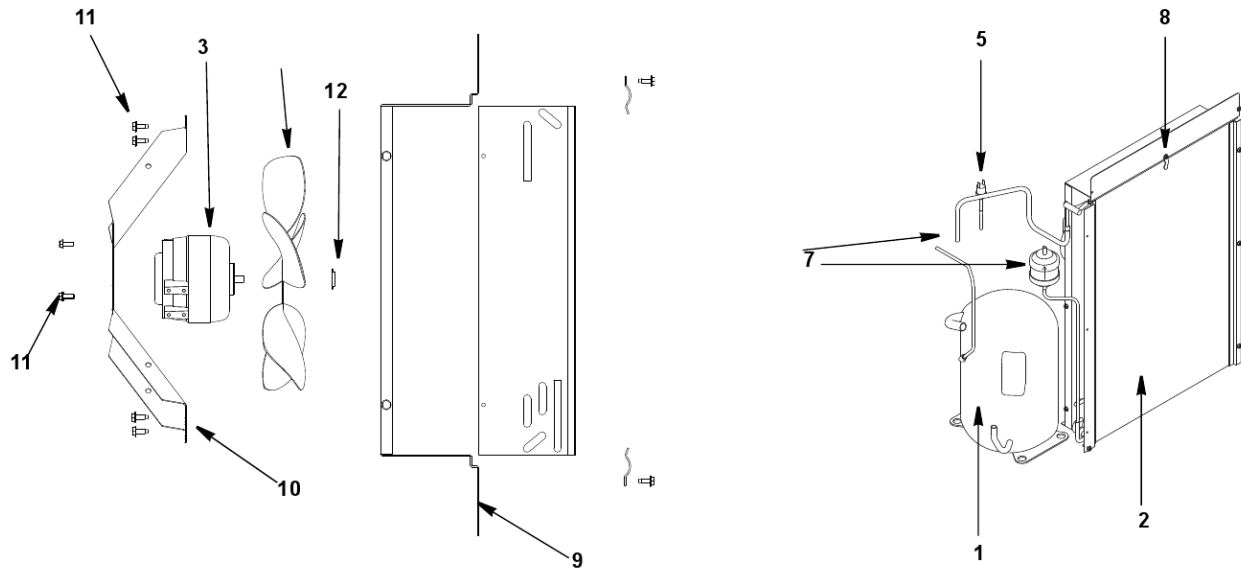
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S0450 REFRIGERATION COMPARTMENT - COMMON COMPONENTS

#	PART #	DESCRIPTION	QTY	Note
PART NOTES:				
[13]	-	Not Shown		
[14]	-	vinyl tubing from distribution tube to water pump & dump valve		
[15]	-	Not Shown \pages from 401043_05.jpg" width=1797 height=2238>		
[16]	-	Water inlet valve		
[17]	-	includes water diverter, vinyl tubing & insulation		
[18]	-	mounts Water Level Probe Holder		

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S0450 REFRIGERATION COMPARTMENT - AIR-COOLED COMPONENTS



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S0450 REFRIGERATION COMPARTMENT - AIR-COOLED COMPONENTS

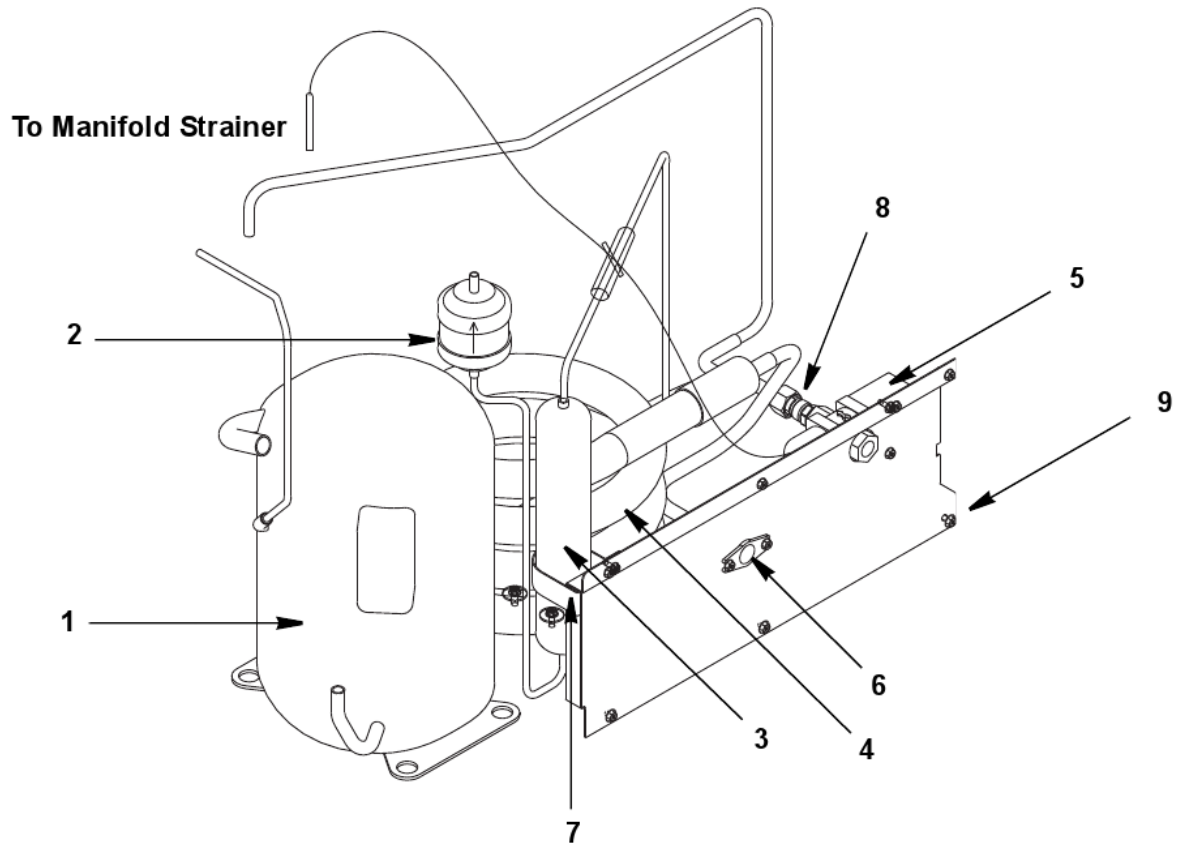
#	PART #	DESCRIPTION	QTY	Note
1	See S0450 Common Components	Compressor		[1]
2	8252129	Air Condenser		
3		Fan Motor		
3a	2412929	Fan Motor 115V/60 Hz/1 Ph		
3b	2412939	Fan Motor 208-230V/50-60 Hz		
4	2416203	Fan Blade		
5	2001263	Fan Cycling Control - 200-250 psig		[2]
6	3005933	Air Filter		
7	8930259	Drier		
8	5650699	Air Filter Clip		
9	6061689	Fan Shroud		
10	6061869	Fan Motor Bracket		
11	5202069	Screw - #10-24 x 0.50" HEX		
12	5429139	Hexnut #8-32		

PART NOTES:

- [1] - Refer to COMMON PARTS Page
- [2] - \pages from 200126_09.jpg" width=150 height=306>

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S0450 REFRIGERATION COMPARTMENT - WATER-COOLED COMPONENTS



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S0450 REFRIGERATION COMPARTMENT - WATER-COOLED COMPONENTS

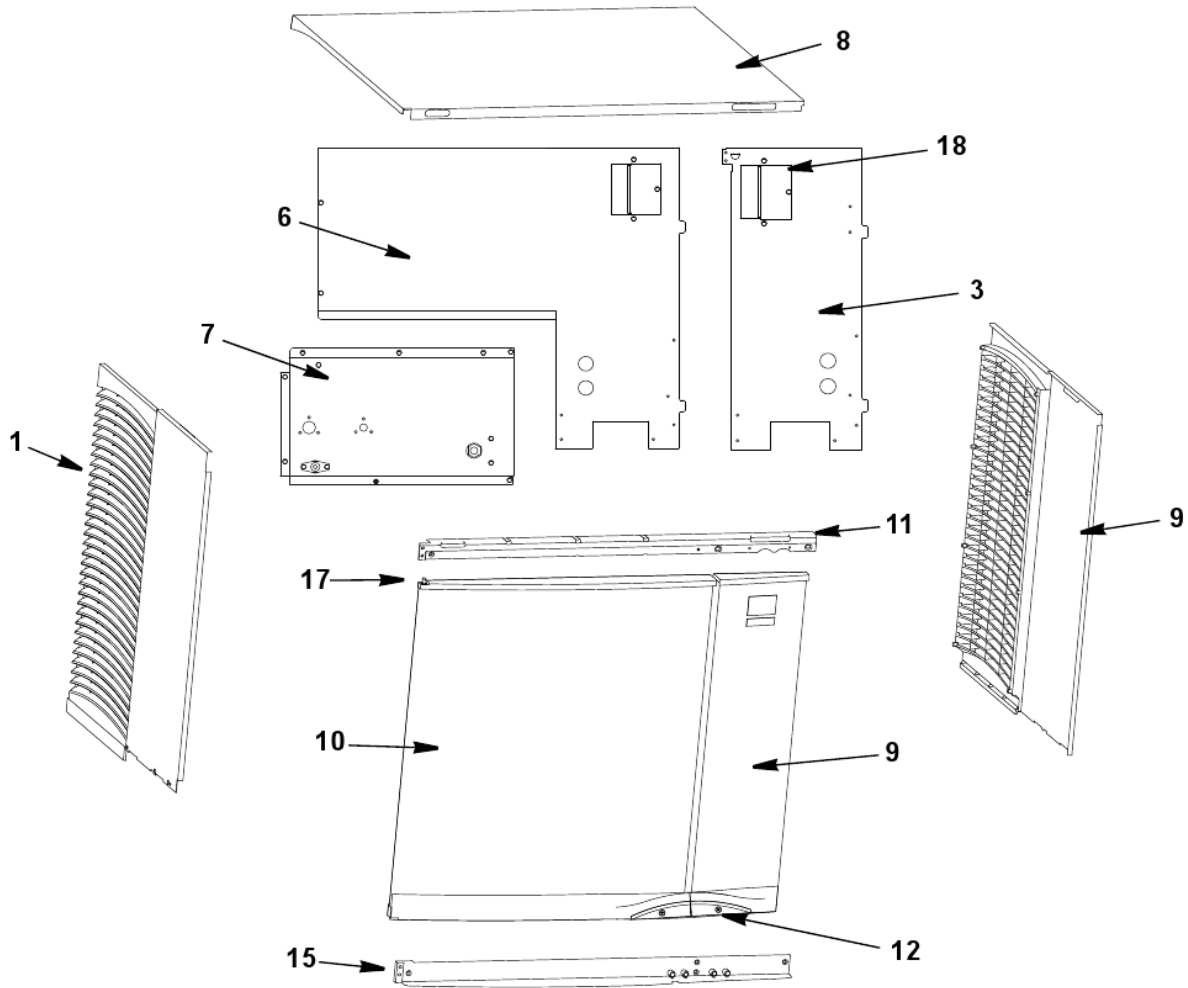
#	PART #	DESCRIPTION	QTY	Note
1	See S0450 Common Components	Compressor		[1]
2	8930259	Drier		
3	000008892	Receiver		
4	000000046	Water-cooled Condenser		
5	8372069	Water Regulating Valve		
5a	000007553	High Pressure Water Regulating Valve		
6	8706103	Female Wing Adapter - 0.50"		
7	6000541	Receiver Strap		
8	5002159	Elbow 3/8 MF x 3/8 MPT		
9	5202069	Screw - #10-24 x 0.50" HEX		
10	5573419	Washer		
11	6058659	Base, Water Condenser/Receiver		

PART NOTES:

[1] - Refer to COMMON PARTS Page

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S0450 PANELS



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S0450 PANELS

#	PART #	DESCRIPTION	QTY	Note
1	6060539	Left Side Panel		
2	6060529	Right Side Panel		
		Air-Cooled Back Panels		
3	6062039	Back Panel with Electrical Connection Box, Air-cooled Models		
4	3005939	Air Filter		
5	6060779	Air Baffle		
		Water-Cooled Back Panels		
6	6062979	Back Panel with Electrical Connection Box, Water-cooled Models		
7	6061739	Back Coupling Panel - Water-cooled and Remote Air-cooled Aluminum Front Top Support on machine		[1]
8	000006699	Top Cover		
9	6071661	Right Door		
10	6071651	Left Door		
11	000000295	Front Top Rail		
11a	5005379	Mounting Screw - #8-32 x 1" PHIL		
11b	5005099	Mounting Screw - #10-16 x 0.625" PHIL		
		Plastic Front Top Support on machine		[2]
12	5004899	Front Door Screw		
13		Left Door Endcaps		
13a	4015113	Left Door End Cap - Top		
13b	4015123	Left Door End Cap - Bottom		
14		Right Door Endcaps		
14a	4015143	Right Door End Cap - Top		
14b	4015153	Right Door Endcap - Bottom		
15	7602263	Bottom Door Frame		
15a	5005379	Mounting Screw - #8-32 x 1" PHIL		
15b	5202069	Screw - #10-24 x 0.50" HEX		
16	6062369	Door Catch Bracket		
16a	5026249	Mounting Screw - #8-32 x 0.50" PHIL		
17	3005579	Left Door Pivot Leaf Hinge		[3]
17a	5005379	Mounting Screw - #8-32 x 1" PHIL		
18		Electrical Connection Box Cover		[4]
19	4004593	Sachet Holder		[5]
19a	5004793	Mounting Screws 8-32 x 3/8		
20	K00379	Top Air Discharge Kit Option		[6]
20a	000000480	Top Cover Only		
20b	6066751	Non-Louvered Side Panel - Left		
20c	6066761	Non-Louvered Side Panel - Right		
20d	5202099	Screw - #10-24 x 0.50" PHIL		
21	7112239	Cartoning		

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S0450 PANELS

#	PART #	DESCRIPTION	QTY	Note
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PART NOTES:

- [1] - replace all
- [2] - replace as needed
- [3] - Top or Bottom
- [4] - Included in Back Panel Assembly
- [5] - Inside Left Door
- [6] - replaces standard top and side panels to discharge air out of top of machine