

SERVICE REQUIREMENTS

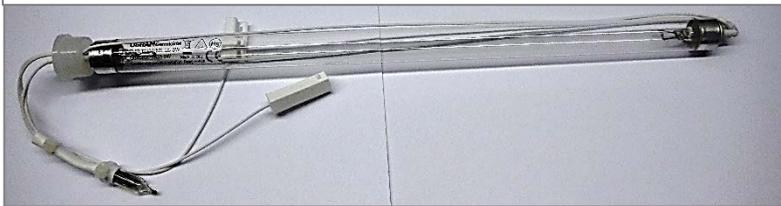
⚠ WARNING! *Read and understand the contents of this manual before attempting to service WL270 Water Treatment System. Failure to follow the instructions in this manual could result in death, serious personal injury, or severe property damage. Only trained and qualified technicians should attempt to install, maintain, or service Waterlogic Equipment.*

1. Visually inspect all electrical and water connections for signs of wear or damage.

⚠ DANGER! *HIGH VOLTAGE ELECTRICAL HAZARD. Unplug before inspection and service.*

2. **Waterlogic** recommends changing the UV Lamp Assembly and the UV Lamp Wiring Harness must be replaced every 12 months.

NOTE: When replacing the UV Lamp, the UV Lamp wiring harness must also be replaced.



NOTE: The Glow Starter shown may appear blackened which is normal.

⚠ WARNING! **ULTRAVIOLET RADIATION.** *Protect your skin and eyes against ultraviolet rays. Never look directly at an operating UV light. Disconnect before removing UV Lamp.*

⚠ CAUTION! **UV LAMPS ARE HAZARDOUS.** *Lamps are considered Hazardous Waste and must be disposed of accordingly. Refer to Product MSDS sheet for details.*

3. Clean the Quartz Sleeve that surrounds the UV lamp with a non-abrasive cloth, descaling solution, or ultrasonic bath if needed when changing UV Lamps.

⚠ CAUTION! ***UV SYSTEM IS FRAGILE.** Never handle the UV lamp or Quartz Sleeve with bare hands. UV Lamp and quartz sleeve must be free of oils and contaminants to ensure proper operation. Use a soft non-abrasive cloth to clean.*

4. Inspect the Quartz Sleeve O-ring for wear or damage and replace as necessary.
5. Ensure there is adequate (minimum of 2") clearance around the unit and clean the condenser grill and compressor fan to provide efficient cooling system operation.
6. Sanitize the Cold Tank per instructions in the pre-installation procedures.
7. Clean and sanitize external surfaces of the unit. Use soap and water or chemicals that are compatible with ABS plastic and will not damage or degrade the product surfaces.
8. Remove and clean the Faucet. Replace as needed.

⚠ WARNING! ***SANITIZER MAY CONTAIN HAZARDOUS CHEMICALS.** Use of proper personal protective equipment such as rubber gloves and eye protection is required.*

LG COMPRESSOR UPGRADE

*Parts List in this manual updated to reflect these changes.

New LG Compressor 120V R134A 1/8HP CSB035LJCM with external start/run capacitor.

New LG Compressor with External Start/Run Capacitor



External Capacitor

New LG CSB035 LJCM
Compressor

Repair/Replacement Parts for are
not interchangeable with
older/other compressors.

Older version of LG compressor is
obsolete and no longer available.

New LG CSB035LJCM 120V R134A 1/8HP Compressor Repair Parts

Part # CO-0017-L00-00	LG Compressor 120V CSB035LJCM-PTC Relay
Part # CO-0018-L00-00	LG Compressor 120V CSB035LJCM-Overload Protector
Part # CO-0019-L00-00	LG Compressor 120V CSB035LJCM-Capacitor

REPLACEMENT COMPONENTS (CONSUMABLES)

Component	WLCP Part No.	Frequency of Replacement
8W UV Lamp Assembly with Starter Wire Harness	10-2350	Every 12 months PN CT-2001-I00-00
Hot Tank Assembly 1.6 Liter 110V / 600W	19-1071	Every 3-5 Years depending on usage PN HT-0004-L00-00
Hot Tank Replacement Tube Kit	19-2065	Each Hot Tank Change PN AK-0067-NWS
Carbon Air Filter	19-1052	Every 12 months PN PU-4108
GAC Filter - 10" Carbon Activated Inline Filter – <i>Optional</i> <i>*Filter Element PN FT-0038-WLT</i>	FT-0035	Every 6-months or as required. Local water conditions will determine proper filter type and maintenance schedule. FT-0035-IL-WLT
Carbon Block - 10" CBC 1 Micron Lead and Cyst Reduction Inline Filter – <i>Optional</i> <i>*Filter Element PN FT-0064-WLT</i>	FT-0063	Every 6-months or as required. Local water conditions will determine proper filter type and maintenance schedule. FT-0063-IL-WLT
Sediment Filter - 10" Sediment 20 Micron Inline Filter – <i>Optional</i> <i>*Filter Element PN FT-0055-WLT</i>	FT-0053	Every 6-months or as required. Local water conditions will determine proper filter type and maintenance schedule. FT-0053-IL-WLT

Replacement parts can be obtained from *Waterlogic* or an *Authorized Waterlogic Dealer*. See Parts Layouts, Drawings, and Lists for additional repair parts.

Hot Tank Service

Hot Tanks (with controls) must be replaced at least every 3-5 years depending on usage. Descaling Hot Tank may be required on a regular basis depending upon filtration and local water conditions. See Hot Tank Descaling Instructions Section of this manual.

Surface Cleaning

Clean on a regular basis with damp lint free cloth. Never use harsh chemicals (alcohol or acid based) or abrasive agents on any part of the product to avoid damage. A mild cleaner such as Simple green or equivalent is recommended.

DISPOSAL

End of Life

At the **end of this product's life**, ensure that it is disposed of in an environmentally friendly manner which is fully compliant **with all Federal/State/Local Requirements and Guidelines**. Do not dispose of this appliance with normal household or business waste.

HOT TANK DESCALING INSTRUCTIONS

The Hot Tank requires removal of mineral deposits (descaling) on a regular basis. Typically descaling should take place every 6 to 12 months to preserve the long-term health of your unit.

Use non-toxic cleaner such as ScaleKleen, DEZCAL, 20% Citric Acid Solution, or Undiluted Vinegar Solution to remove mineral deposits as directed by the manufacturer depending upon filtration and local water conditions.

Descaling is an important process that removes calcium deposits, or scale, that can build up inside a tank over time. Calcium and scale is non-toxic but left unattended will hinder your unit's performance.

⚠️ WARNING! ***PERSONAL PROTECTIVE EQUIPMENT REQUIRED.** Always ensure proper ventilation and use rubber or nitrile gloves and eye protection when using chemicals. Refer to Material Safety Data Sheet for specific requirements of each product.*

⚠️ CAUTION! ***STAINLESS STEEL TANK DESCALING.** The Hot Tank is made from stainless steel. Ensure descaling solution is compatible with stainless and always flush the unit completely. Dispose in an environmentally safe manner.*

Materials Needed:

- Personal Protective Equipment. Rubber or Nitrile Safety Gloves and Protective Eyewear
- Phillips Screwdriver
- Temperature Gauge
- Water Pitcher or Container to collect water from the faucet
- 5-gallon container or drain basin
- Citric Acid Based Cleaner
- ¼" Plastic Tubing, at least 4 feet in length, and assorted ¼" quick connect fittings
- Sanitizing Cartridge
- Food Coloring

1. Check to ensure that the Red Heater and Compressor Power Switch is the *O=OFF* position.

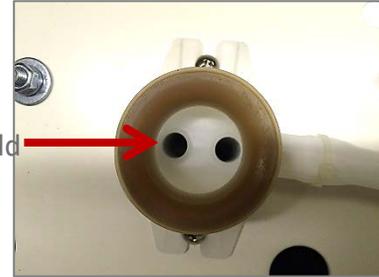
NOTE: Switches have internal LED that illuminates when placed in *I=ON* position.



2. Turn off the water supply and unplug the unit.
3. Remove top Cover
4. Remove Reservoir Lid
5. Remove Hot Tank Drain cap on back of unit and allow all water to drain from unit.

6. When unit has finished draining, replace Hot Tank drain cap.
7. Remove reservoir from unit.
8. Mix descaler per instructions.
9. Add descaling mixture to the Hot Tank through the Hot Tank fill portal located in the water inlet port.

Hot Tank fill portal to add descaling mixture to.



10. Replace Reservoir.
11. Turn on water supply and plug in unit.
12. Allow reservoir to fill.
13. Turn on the Red Heater and Compressor Power Switch. *I=ON* position.
14. Allow descaling mixture to remain in Hot Tank for 15 minutes (exposure time may be affected by local water conditions).
15. Flush unit until all descaler is removed.

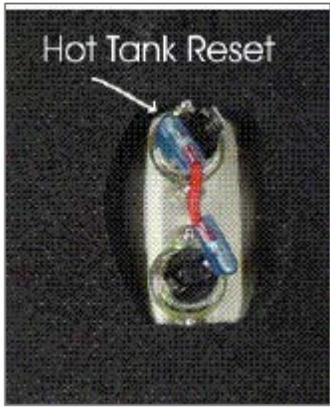


⚠ WARNING! HOT WATER HAZARD. *Unit Produces Very Hot Water and Steam. Always use insulated and chemically compatible containers and let unit cool down before draining the Hot Tank to avoid injury.*

⚠ CAUTION! MUST REPLACE HOT TANK 3-5 YEARS DEPENDING ON USAGE. *The Hot Tank and its controls must be replaced a minimum of every 3-5 years depending on usage to ensure efficient and dependable operation.*

⚠ WARNING! REINSTALL ALL PANELS AND COVERS. *Always reinstall all panels, protective covers, and fasteners after servicing equipment. Failure to do so could result in severe personal injury and will void the certifications and warranty of the equipment.*

RESETTING THE HOT TANK OVERLOAD OR HIGH LIMIT SAFETY

1.	Turn off Red Heater and Compressor Power Switch <i>O = OFF</i> on rear of unit.	
2.	Unplug the Power Cord from rear of unit.	
3.	Remove 4 Phillip Screws from the Access Panel on rear of unit and Lower Access Panel.	
4.	Locate protective metal box on rear of Hot Tank. Push down on top of metal box to access thermostat and overload	
5.	Press the reset button	 
6.	Reattach the metal box by depressing the top flap of the metal box so it snaps back into its original position on the Hot Tank.	

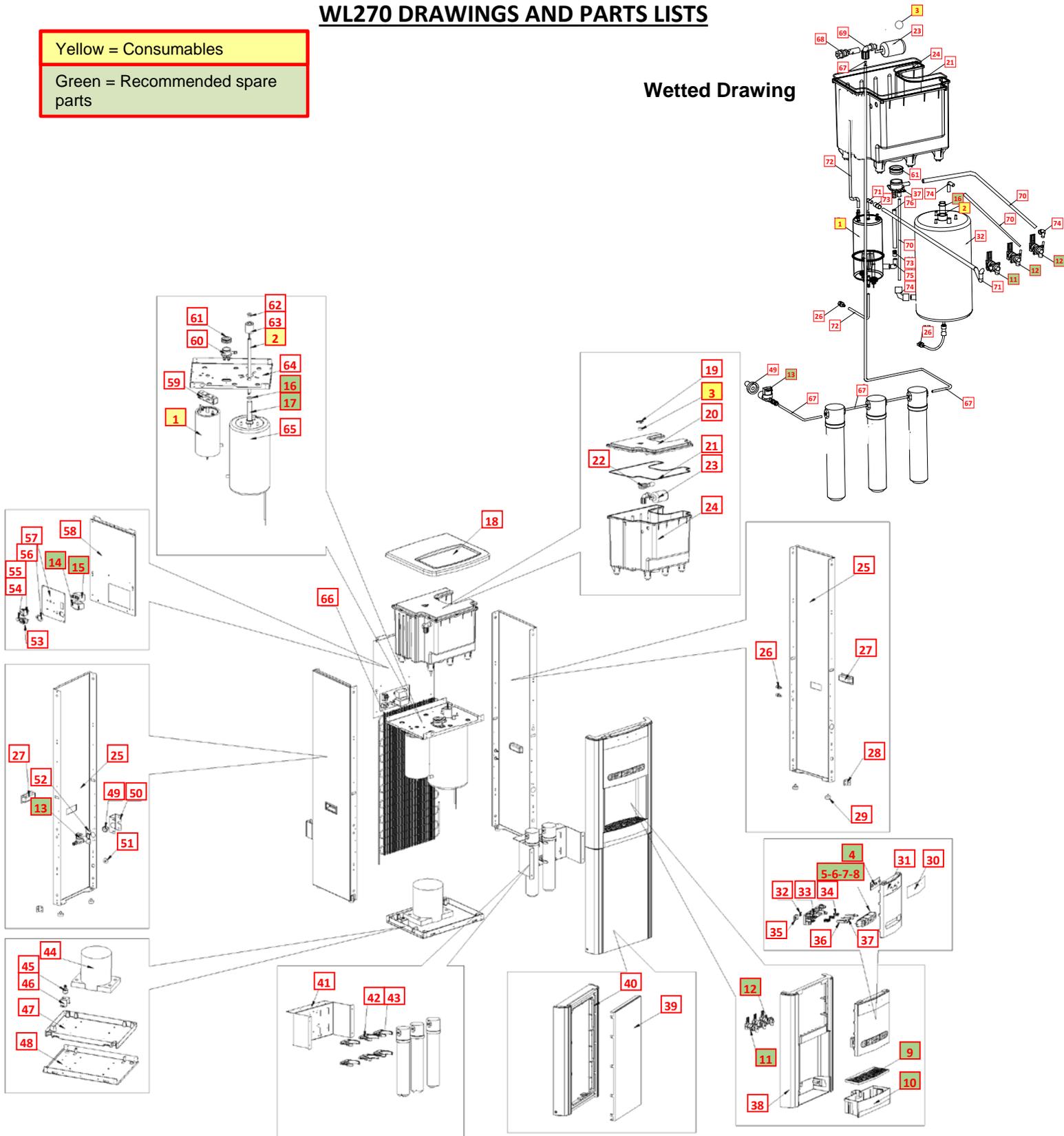
7.	Replace the Access Panel and 4 Philips screws.	
8.	Plug in the Power Cord.	
9.	<p>Make sure the hot and cold tanks are filled with water BEFORE turning on the Red Heater and Compressor Power Switch</p> <p>⚠ CAUTION! NEVER TURN ON HEATER BEFORE FILLING HOT TANK. Red Heater and Compressor Power Switch must be in the O=OFF position while the Hot Tank is empty. Damage could occur within one minute and the overload (high limit) will require manual reset if heater is turned on with an empty Hot Tank.</p>	
10.	Verify the cooler is fully operational before installing it at the customers' site.	

WL270 DRAWINGS AND PARTS LISTS

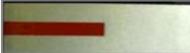
Yellow = Consumables

Green = Recommended spare parts

Wetted Drawing



No	WLCP Part No.	Description	Part No	Stocked?	
Consumables					
1	19-1071	Hot Tank Assembly 1.6 Liter 110V 600 W	HT-0004-L00-00	Yes	
1.1	19-2065	Hot Tank Replacement Tube Kit <i>Replace when replacing the Hot Tank</i>	AK-0067-NWS	Yes	
2	10-2350	8W UV Lamp Assembly with Starter Wire Harness	CT-2001-I00-00	Yes	
3	19-1052	Carbon Air Filter	PU-4108-L00-00	Yes	
Not Shown	01-2076	Scale Kleen	NA	Yes	
Recommended Spare Parts					
1.2	19-1078	Hot Tank Thermostat - 81°C (178°F) <i>Recommend stocking 2 each for every 10 units purchased</i>	EL-0158-L00-00	Yes	
1.3	19-1079	Hot Tank Overload 97°C (206.6 °F) <i>Recommend stocking 2 each for every 10 units purchased</i>	EL-0159-L00-00	Yes	
1.4	12-6900	Cover for Hot Tank Overload and Thermostat <i>Recommend stocking 1 each for every 10 units purchased</i>	ST-8289	Yes	
4	19-1002	Display PCB <i>Recommend stocking 1 each for every 10 units purchased</i>	EN-6112	Yes	
5	19-1041	Middle Push Button – COLD <i>*purchase sticker separately</i> <i>Recommend stocking 1 each for every 10 units purchased</i>	PL-1264-L00-BK	Yes	
5.1	LP-0426- L00-00	Blue Cold Dispensing Sticker <i>Recommend stocking 2 each for every 10 units purchased</i>	LP-0426-L00-00	Yes	
6	19-1042	Right Push Button - AMBIENT <i>*purchase sticker separately</i> <i>Recommend stocking 1 each for every 10 units purchased</i>	PL-1263-L00-BL	Yes	
6.1	LP-0424- L00-00	Green Ambient Dispensing Sticker <i>Recommend stocking 2 each for every 10 units purchased</i>	LP-0424-L00-00	Yes	

7	19-1040	Left Push Button HOT <i>*purchase sticker separately</i> <i>Recommend stocking 1 each for every 10 units purchased</i>	PL-1262-L00-BK	Yes	
7.1	LP-0423-L00-00	Red Hot Dispensing Sticker <i>Recommend stocking 2 each for every 10 units purchased</i>	LP-0423-L00-00	Yes	
8	19-1043	Left SAFETY Push Button – Blank <i>*purchase sticker separately</i> <i>Recommend stocking 1 each for every 10 units purchased</i>	PL-1265-L00-00	Yes	
8.1	LP-0425-L00-00	Red Hot SAFETY Dispensing Sticker <i>Recommend stocking 2 each for every 10 units purchased</i>	LP-0425-L00-00	Yes	
9	19-2025	Drip Tray Grill Black <i>Recommend stocking 2 each for every 10 units purchased</i>	PL-1270	Yes	
	19-1048	Blue Drip Tray Grill <i>Recommend stocking 2 each for every 10 units purchased</i>	PL-1270-A	Yes	
10	19-2020	Drip Tray Black <i>Recommend stocking 2 each for every 10 units purchased</i>	PL-1289-B	Yes	
	19-1032	Blue Drip Body <i>Recommend stocking 2 each for every 10 units purchased</i>	PL-1289-F	Yes	
11	19-1050	Hot Water Faucet Assembly <i>Recommend stocking 1 each for every 10 units purchased</i>	PL-1260-D	Yes	
12	19-1051	Ambient and Cold-Water Faucet Assembly <i>Recommend stocking 1 each for every 10 units purchased</i>	PL-1260-E	Yes	
13	19-1001	Inlet Solenoid Valve 120V <i>Recommend stocking 1 each for every 10 units purchased</i>	PU-4096	Yes	
14	10-3010	UV Lamp Ballast 120V 60Hz 8W (E57946B) <i>Recommend stocking 1 each for every 10 units purchased</i>	EL-5006-A CN	Yes	
15	19-1069	Cold Tank Thermostat Low Temp - 3°C (37.4°F) <i>Recommend stocking 1 each for every 10 units purchased</i>	CT-2070-A	Yes	
15.1	LP-0326	Cold Thermostat Cover Label <i>Recommend stocking 1 each for every 10 units purchased</i>	LP-0326-L00-00	Yes	

16	10-2500	Quartz Sleeve O-ring <i>Recommend stocking 1 each for every 10 units purchased</i>	CT-2006	Yes	
17	10-1400	Quartz Sleeve for 8W Lamp <i>Recommend stocking 1 each for every 10 units purchased</i>	CT-2002	Yes	
Remaining Parts					
18	19-5005	Black Top Cover	PL-1254	Yes	
	19-1033	Blue Top Cover	PL-1254-A	Yes	
19	19-1076	Air Filter Silicone Cap	PL-1290	Yes	
20	19-1038	Reservoir Cover	PL-1259	Yes	
21	19-1056	Reservoir Cover Silicon Seal	PU-4099	Yes	
22	19-1004	Water Level Controller with Wire	PU-4100	Yes	
23	19-1072	Floater Assembly	PU-4097	Yes	
24	19-1037	Gravity Fed Plastic Reservoir Transparent 3-Gallon	PL-1258	Yes	
25	19-1019	Side Panel	ST-8212	Yes	
26	14-5011	Drain valve	CT-2031	Yes	
27	12-8058	Plastic Silver Handle	PL-1123	Yes	
28	19-1021	Side Panel Bracket	ST-8229	Yes	

29	10-3083	Unit Rubber Feet	ST-8016	Yes	
30	19-1014	Front Panel Display Sticker	LP-7180	Yes	
31	19-5010	Front Top Hatch Panel - Black	PL-1257	Yes	
	19-1036	Front Top Hatch Panel – Blue	PL-1257-A	Yes	
32	19-1029	Spring for Hot Safety Lock	CST-8327	Yes	
33	19-1047	Faucet Bracket	PL-1269	Yes	
34	19-1028	Spring for Push Pin	CST-8326	No	
35	19-1045	Hot Safety Push Button Safety Lock	PL-1267	Yes	
36	19-1044	Gravity Hot Safety Push Button pin	PL-1266	Yes	
37	19-1046	Gravity Faucet Push Pin	PL-1268	Yes	
38	19-1034	Top Front Panel for Drip Tray	PL-1255	Yes	
39	19-5015	Front Lower Insert Panel	PL-1149A	Yes	
40	19-1035	Bottom Panel - Silver	PL-1256	Yes	
41	19-1016	Filter Bracket	ST-8206CN	Yes	

42	10-3099	3" Filter Clip	PU-4024	Yes	
43	10-3098	2" Filter Clip	PU-4025	Yes	

Verify compressor in machine before ordering parts as the Compressor P/N CO-0020-L00-00 and 10-2200 (CO-0001A) and related parts are not interchangeable.

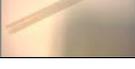
CO-0020-L00-00 Compressor

44A.1	CO-0020-L00-00	LG Compressor 120V R134A CSB035LJCM	CO-0020-L00-00	Yes	
44A.2	CO-0019-L00-00	Compressor Capacitor	CO-0019-L00-00	Yes	
44A.3	ST-0216-L00-00	Capacitor Bracket	ST-0216-L00-00	Yes	
44A.4	CO-0017-L00-00	PTC Relay	CO-0017-L00-00	Yes	
44A.5	CO-0018-L00-00	Overload Protector	CO-0018-L00-00	Yes	

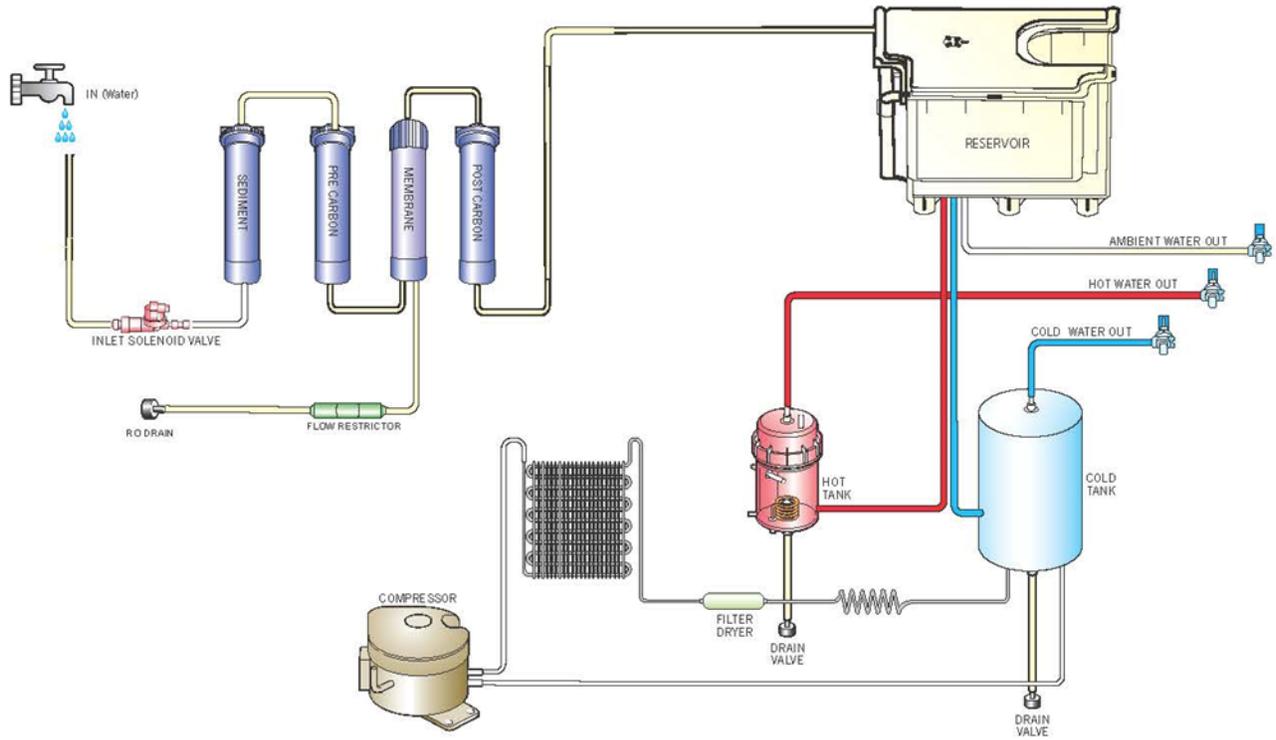
CO-9001-A / 10-2200 Compressor

44B.1	10-2200	Compressor (R134a 1/8HP) 120V/60Hz	CO-9001-A	Yes	
44B.2	10-3003	Compressor Starter Relay	CO-9016	Yes	
44B.3	10-5018	Compressor Overload	CO-9015	Yes	
44.1	12-1001	Filter Dryer	CO-9008	Yes	
45	19-1005	Leak Detection Floats Connection	PU-4100-C	Yes	
46	19-1025	Level Sensor Bracket for Leak Detector	ST-8232	Yes	
47	19-1049	Leak Tray	PL-1292	Yes	

48	12-1602	Bottom Shelf	ST-8035	Yes	
49	19-1008	JG Adaptor 1/4" (CI320816S) for Inlet Solenoid Valve	PU-4104	Yes	
50	19-1026	Cover of Inlet Solenoid Valve	ST-8233	Yes	
51	NA	Rubber O-ring for GF Side Panel Drain Hole	PL-1293	No	
52	19-1020	Inlet Solenoid Valve Bracket	ST-8214	Yes	
53	19-1090	Power Line Noise Filter, ElectroMagnetic Interference filter (EMI)	EL-5029	Yes	
54	10-3014	Fuse Holder & Fuse	EL-5053	Yes	
55	10-3008	Red Compressor and Heater Switch	EL-5004	Yes	
56	19-1015	Power Socket	ST-8052	Yes	
57	19-1022	GF Back panel access panel for electronics service	ST-8230A	No	
58	NA	Back Panel	ST-8210	No	
59	12-8006	Hot Tank Bracket	ST-8120	Yes	
60	19-1039	Water Inlet Port to tank	PL-1261	Yes	
61	19-1057	Silicon seal - Inlet Port to Tanks	PU-4109	Yes	

62	10-8085	UV Lamp Fixing Rubber (Silicon)	CT-2001-B	Yes	
63	12-1210	UV Lamp Retaining Threaded Nut	PL-1128	Yes	
64	19-1018	Upper Shelf	ST-8211	Yes	
65	NA	Cold Tank with Thermistor	CT-0013-L00-00	No	
66	19-1000	Wire Condenser	CO-9040	No	
67	NA	JG LLD PE Tube - Blue O.D.1/4"	PU-4031	Purchase from John Guest	
68	19-1073	Floater fitting & Nut for Gravity	PU-4098	Yes	
69	19-1009	JACO fitting OD 1/4"	PU-4116	Yes	
70	19-1099	1/2" Pipe White Tubing John Guest PN PE-16-GI-0250F-W	PU-4126-KR	Yes	
71	19-1060	Silicon Elbow Tube for Hot Outlet <i>Included in AK-0067-NWS</i>	PL-0207-L00-00	Yes	
72	10-7040	Silicone Pipe 5/16"	PL-4064-L00-00	Yes	
73	19-1003	PP Straight Connector for Silicon Pipe	PU-4101	Yes	
74	NA	1/2" Elbow fitting (PP0316W)	PU-4141-KR	Purchase from John Guest	
75	PL-0206-KR	Silicon Elbow for Hot Tank Inlet / Outlet <i>Included in AK-0067-NWS</i>	PL-0206-KR	Yes	
76	PL-4126-KR	Silicone Pipe 1/2"	PL-4126-KR	Yes	
Not Shown	10-3007	Power Cord 120V – 1825 mm	EL-5001-B	Yes	

WL270 WATER FLOW DIAGRAM



ADJUSTING COLD SET POINT

Cold Water Temperature – Factory Set Point is 41°F (5°C) and can be adjusted to 34°F - 54°F (1.1°C to 12.2°C)

The cold set point can be adjusted by accessing the cold thermostat adjustment screw under the decal at the rear of the unit.



Remove the red portion of the Cold Tank Temperature label to access the adjustment screw.

The factory set point is ~41°F and is indicated by the dot on sheet metal.



Turning the adjustment screw clockwise to lower the set point temperature.

Do not adjust past the “Max Cold” position at 3:00 position to avoid freezing the cold tank.



Turning the adjustment screw counter-clockwise to raise the set point temperature.

