



# Ascent 80

## Service Manual



**NOTE:**

Please read these instructions before operating the unit. Design and color may differ. Unit appearance, specifications, etc. are subject to change without prior notice. The rated voltage of this unit is AC 120 V/ 60 Hz



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## Before You Begin

Please read the information contained in this manual carefully before proceeding with the install. Failure to do so can cause damage and may void the manufacturer's warranty.

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## Conditions for Use

### CAUTION

DO NOT USE WITH WATER THAT IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY WITHOUT ADEQUATE DISINFECTION BEFORE OR AFTER THE SYSTEM

THIS DRINKING WATER SYSTEM IS FOR USE ON POTABLE COLD WATER SUPPLIES ONLY

### Source Water Supply

**Municipal/Private:** Potable Water Supply

**System Pressure:** 25~80 PSI (1.7~6.9 bar) (for RO to work properly, water pressure should be between 60~70 PSI)

**Temperature:** 40°~100°F (4°~38°C)

### Warning

A pressure regulator must be installed before the system water inlet if the water pressure or any possible pressure spikes could exceed 80 PSI (5.5 bar) Failure to comply will void all warranties. The manufacturer accepts no liability for any damage caused by excessive water pressure.

### Environmental Conditions

System should be installed in areas that are protected from severe environmental conditions. System is not manufactured or approved for installation in areas that are exposed to direct sunlight, rain/snow and/or extreme temperature variation.

### Compliance

Installation and service must be performed by qualified personnel to ensure compliance with all applicable local, state, federal and international codes.

### Note:

Always check applicable plumbing codes before tapping into a water or drain line.



## System Overview

The Culligan Ascent™ 80 Bottle Free Cooler comes equipped with features one can expect from a state-of-the-art BFC from Culligan. Highlights include:

- Touch free PSD sensors for selecting water temperature and dispensing water
- Glass upper front panel for a high-end contemporary design
- 12.25" dispense area
- Comfortable dispensing height with drip tray 32" from floor
- ADA wheelchair height compliant (when installed in accordance with ADA requirements)
- In-tank LED UV to help maintain the cleanliness of the reservoir
- Customizable filter alerts
- Leak detection and leak stop
- Color changing dispense area indicator light (Blue for cold, Red for hot)
- Cold water dispense pump provides flow at 3.0 lpm, more than twice the rate of a standard cooler
- Hot water dispense pump increases access to available hot water capacity
- Air filter to help keep airborne particles from the water in the reservoirs
- Optional drip tray to drain connection

The Ascent™ 80 is available in two filter configurations:

**1. Ascent 80-RO:** This Ascent 80 R model filters your water through a series of filters and an RO membrane to reduce contaminants. These are:

- A. 10 micron sediment filter (P/N BFC-SED)
- B. Pre-carbon GAC filter (P/N BFC-PRE)
- C. 80 gallon per day RO membrane (P/N BFC-RO80)
- D. Mineral filter to improve taste and increase alkalinity and electrolytes.(P/N BFC-PH)
- E. GAC post filter with 1 micron mesh (P/N BFC-POST)

**2. Ascent 80-M:** This Ascent 80 model filters your water through the following filters:

- A. 10 micron sediment filter (P/N BFC-SED)
- B. Pre-carbon GAC filter (P/N BFC-PRE)
- C. 1 micron carbon block with lead reduction rating (P/N BFC-LR) \*\*NOTE: a 0.5 gpm flow regulator must be used in order to comply with the lead reduction rating



## Receiving Your Equipment

A common carrier will be delivering your Culligan Ascent 80 product. Upon receipt you should check the following.

- 1. Are the systems still on the pallet?**
- 2. Count the number of boxes you are signing for.**
- 3. Is there any obvious damage to the product or the boxes?**

If there are any discrepancies or obvious damage to the equipment or boxes, please note it on the "Bill of Lading" and/or refuse shipment.

After receiving the equipment from the carrier, remove packaging and inspect for any hidden freight damage. If freight damage has occurred, call Echo to report the damage and follow their claim process as outlined on Cport. Photograph all damages to be submitted with claim. THIS MUST BE DONE WITHIN 24 to 48 HOURS OF DELIVERY. If not reported within 2 business days, CULLIGAN and/or carrier will not be responsible for replacement or repair.



## S a f e t y P r e c a u t i o n s

**Warning:**

Do not install or use this drinking water system where the source water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system.

**Warning:**

A pressure regulator, such as a slow flow regulator, must be installed before the systems water inlet if the water pressure (including any possible spikes) could exceed 80 PSI (5.5 bar). Failure to comply will void all warranties. The manufacturer accepts no liability for damage caused by excessive water pressure.

**Warning:**

These systems are manufactured with 134A refrigerant. Repairs to the refrigeration system must be performed by a certified refrigeration technician only.

**Warning:**

To prevent damage fire or shock hazard, do not expose this system to rain or other extreme elements.



## S a f e t y P r e c a u t i o n s

### Caution:

- To prevent electric shock and fire hazards, do not use with other than specified power source.
- Changes or modifications not approved by CULLIGAN WATER will void any product warranty.
- If system begins to leak, unplug, turn off water supply and call service center immediately.
- Before moving the system, disconnect power supply and wait for water to reach ambient temperature before draining.

**Hot water is extremely hot! Do Not dispense hot water directly to hands.**

**Hot water may cause serious injury.**

- If system will not be used for an extended period of time (5 days or longer), drain the system completely. Sanitize system prior to re-use.
- Should the system not perform as specified, unplug, turn off water supply and call the service center.
- Do not place any type of water container or heavy item on top of the system.

**Water may leak into the electrical system causing a fire hazard. Heavy items may fall causing injury.**



## Installation Procedures

**WARNING:** Maximum water pressure (including any potential pressure spikes) of the water supply line to the system must not exceed 80 PSI (5.5 bar) Failure to comply will void the warranty. The manufacturer accepts no liability for damage caused by excessive water pressure.

1. Always check local plumbing codes before tapping into water supply line and drain line. Tap into the supply line with an approved connector.

2. Once the unit and filtration system flushing procedures are complete, determine the best installation location. Consider user convenience, electrical access and water access. The unit performs optimally if within 20 feet of a cold-water supply line. Connect only to a cold water supply. Do not install Feed Water Assembly on the Hot Water Line. Do not place unit where it will be exposed to rain, freezing temperatures or direct sunlight to the hot water supply. The rear of the unit should be installed at least 2" (5 cm) from any vertical surface to ensure proper air circulation.

3. Use only 1/4" OD copper or plastic tubing to connect your water supply and drain to the cooler water inlet and drain port. The inlet and drain ports are quick connect fittings. Units are shipped with plugs in each fitting. Remove the plugs prior to inserting water supply and drain lines. A water shut off valve is recommended between the inlet connection to the cooler and the water supply connection.

4. The Ascent 80 system requires a waste or drain line for the RO membrane. The drain line should include an Air Gap and back flow restrictor. See diagram.

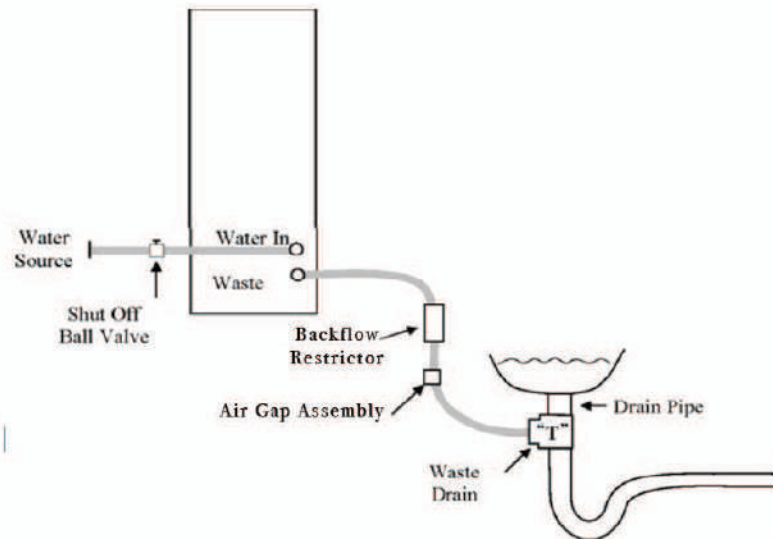
5. Check the available power supply to assure proper electrical service. In the U.S. the voltage specification is 120 volt/60 hertz. Voltage outside of this specification will affect the system performance.

6. Water filtration system will begin operating, verify proper water production.

7. Dispense water from hot tank prior to turning the Heating System switch on the back of the unit to the "ON" position.

8. Perform final inspection of all installed water lines to ensure a leak free installation.

9. Instruct user on proper system operation.







## Filter Flushing Procedures - RO Version

### Filter Flushing Procedures for Ascent 80-RO Filter Configuration

The filters can be flushed either outside of the BFC (External) or within the BFC (Internal). Either method is appropriate and there are instruction below for both External and Internal flushing for both the RO filtration system and the Micro filtration system. Before starting the flushing procedure, it is recommended to place a towel over both the leak stop and leak sensor at the bottom of the unit.

**BEFORE YOU BEGIN:** To remove the lower front panel and access the filters, first remove screw located behind the drip tray. After removing the screw, gently push down on the front panel then pull away from the cooler to remove. All filters will be pre-installed in the manifold, except the RO membrane. When removing the grey plug at the bottom of the membrane to connect to the drain line, a few drops of preservative may come out. Remember to install the drain line flow control and follow flushing instructions to ensure that all preservative is removed from the membrane.

### RO Filtration: External Flushing

1. Remove all filters from the unit.
2. Run water through the Sediment, Pre Carbon, PH filter and Post-Carbon filter for five minutes.
  - a. The Sediment and Pre-Carbon filters may be flushed in series, the other filters should be flushed independently.
  - b. The Post-Carbon filter should be reversed flushed.
    - i. This is to avoid carbon flowing into the sediment portion of the filter.
3. To flush RO, run water through all filters in sequence for no less than 20 minutes or in accordance with the filter label.
  - a. **CAUTION: Do not run water directly to RO without first running through the pre-filters. Chlorine will damage the RO membrane.**
  - b. Flush longer in order to reduce the TDS level to an acceptable point.
  - c. Check TDS from the product water.
    - i. Drain from output of filter manifold.
    - ii. TDS after the RO should be approximately a 95% reduction verses the city water TDS level.
    - iii. The PH filter will add approximately 8 PPM of TDS to the water.

### RO Filtration: Internal Flushing (without bypass)

1. Flush pre-sediment and pre-carbon filters in series
  - a. Connect a drain line to the tubing that is connected to the input of the solenoid valve between the pre-carbon filter and the RO-membrane.
  - b. Connect the water source line to the tube that was connected to the output of the leak stop (left side)
  - c. Turn water on and flush for 5 minutes.
2. Flush the pH filter
  - a. Remove the pre-carbon filter and set on a clean towel
  - b. Move the pH filter to the pre-carbon position
  - c. Turn water on and flush pre-sediment and pH filter together for 5 minutes



## Filter Flushing Procedures- RO Version

3. Reverse flush the post carbon filter.
  - a. Return PH filter to its original position (4th position)
  - b. Move the pre-sediment filter to the pre-carbon position (2nd position)
  - c. Move the post carbon filter to the pre-sediment position (1st position)
  - d. Switch the source water and drain lines to be able to reverse flush the pre-sediment and post carbon filters in series. Water will flow from the output of the pre-sediment filter to the input of the post carbon filter
  - e. Turn water on to back flush pre-sediment and post carbon filter together for 5 minutes
  
4. Flush all five filters together.
  - a. Return all filters to their original positions
  - b. Install the RO membrane
  - c. Re-install pre-carbon outlet tubing to the solenoid valve
  - d. Re-install the pre-sediment filter inlet tubing to the left side of the leak stop
  - e. Remember to remove plug on the bottom of the RO membrane and connect to your RO drain line at the back of the unit
  - f. Connect the water source line into the back of the system into the "Tap water" input
  - g. Connect drain line from the output of the filter manifold
  - h. Connect a secondary drain line to the "RO drain" port that is located on the back of the system
  - i. Turn the water on and flush for a minimum of 20 minutes then check TDS from the product water
  - j. Note: TDS after the RO should be approximately 95% reduction vs feed water (PH filter adds 8-10ppm TDS)



## Flushing Procedures - Micro-Filtration Version

### Micro Filtration - External Flushing

1. Run water through the Pre-Sediment, Pre-Carbon, and Lead Reduction Carbon block filter in accordance with the instructions on the filter labels.
  - a. The Pre-sediment and Pre-Carbon Block can be flushed in series, the Lead Reduction Carbon Block should be flushed on its own.
  - b. Flush for 5 minutes.

### Micro Filtration - Internal Flushing

1. Flush the Pre Sediment and the Pre Carbon filters together.
  - a. Connect the water source line to the input of the filter manifold - top left connection.
  - b. Connect the drain to the output of the filter manifold - top right connection.
  - c. Replace the Lead Reduction Carbon Block and install a Filter Bypass Plug in its place.
  - d. Turn water on to flush in accordance with the instructions on the filter label.
2. Flush the Lead Reduction Carbon Block in accordance with time on the filter label.
  - a. Remove the filter bypass plug and reinstall the Lead Reduction Carbon Block filter.
  - b. Turn the water on to flush in accordance with the instructions on the filter label.
    - i. With the pre-filters flushed, it is fine to let the water flush through all three filters for this step.
  - c. Reconnect all water lines to how they were previously installed prior to flushing .

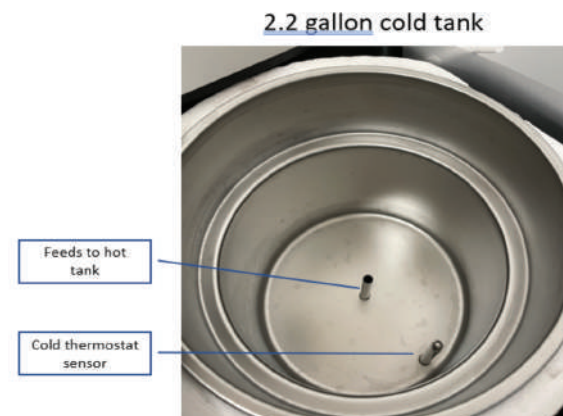
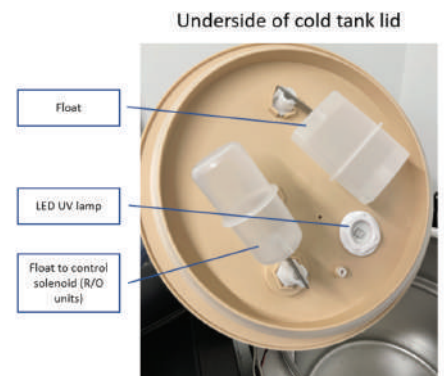
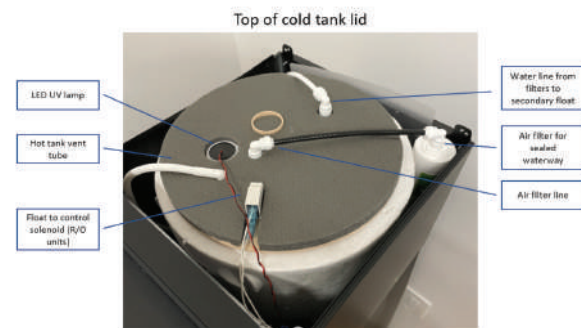


## Sanitization Instructions

### Sanitizing the Cold Tank:

It is strongly encouraged that all systems are sanitized using a mixture of Hydrogen Peroxide and water prior to placing in the field. Please follow these steps to properly perform this important step.

1. Remove two screws on rear of top lid and remove top lid.
2. Remove the cold tank lid.
3. Using a mixture of 3% or 7% Hydrogen Peroxide spray the inside of the tank, lid, floats, and all parts visible parts with a heavy mist of spray.
4. Using a clean towel or paper towel, wipe the Hydrogen Peroxide away from the surfaces.
5. Spray a light mist of spray again on all parts and put the lid back onto the unit.
6. Turn the water to the system on, plug the system in and let the reservoir fill. RO systems will fill in one to two hours. Filtration (M) system will fill in 5 to 10 minutes.
7. Wave hand over dispense sensor to verify flow from hot and cold tanks.
8. Drain cold water into container using the dispense nozzle. Activate touchless dispense sensor until water flow ceases or refer to programming section regarding system flush mode
9. Located on the front behind the front panel is a hot tank drain. Holding a bucket under the drain, remove drain cap and allow the system to drain until water flow stops. Replace drain cap.
10. Allow tanks to fill a second time. Turn on the hot tank switch and let the system heat for 60 minutes.
11. Turn off the hot switch and drain the hot tank from the hot tank drain.
12. Turn the water back on to the system allowing the hot tank to refill.
13. Turn hot switch located on back of unit to "ON" position.
14. Allow unit to sit for 4 hours to reach optimal operating temperature.
15. It is strongly encouraged to perform this step on each annual service call as well.





## Final Inspection

### Verify the following:

1. There are no leaks or loose components.
2. The hot water is over 160°F.
3. The cold water is below 50°F.
4. Confirm acceptable product water flow
5. The system exterior is clean and all components are in place.

### OTHER ITEMS

1. Once a system has been flushed it should remain plugged in and water dispensed occasionally.
2. Always drain the system before moving it. It is not necessary to drain the Hot Tank completely through the front Hot Tank drain. Leaving water in the Hot Tank will allow turning on the Hot Tank immediately after installation of the system.
3. Never lay the system on its side.



## Filter Changing Procedure & System Inspection

### Filter Changing Procedure

1. Verify filter configuration required for servicing. Flush the appropriate filters prior to installation using a filter pre-flush station. Protect flushed filters from extreme cold temperatures and potential sources of contamination.
2. Dispose of replaced filters in accordance with local laws. after removing filtration media.
3. Periodic replacement of the air filter is required. This should be done a minimum of every 2 years.

Filter change schedule		
Filter		Time or gallons
Sediment	(D1042447)	1 year or 1500 gallons
Pre-Carbon	(D1042448)	1 year or 1500 gallons
RO	(D1042449)	When TDS indicates
PH	(D1042450)	1 year or 1000 gallons
Post-Carbon	(D1042451)	2 years or 1500 gallons
LR Carbon Block	(D1042452)	1 year or 1500 gallons
Air filter	(D1042467)	2 years

### System Inspection

When changing filters or performing service, the following items should be completed.

1. Visual inspection
2. Hose & fitting inspection
3. Electrical inspection
4. Pressure & flow test
5. Filter monitoring system reset
6. Clean the exterior of system and condenser coils on rear of system.
7. Temperature check (Cold water should be below 50°F, Hot water should be above 160°F)
8. TDS check
9. Hot tank switch On
10. Site clean up



## System Programming Instructions

### Circuit board schematics and Dip Switch Settings

This system allows for the dealer to adjust the following by using dip switches:

1. Filter life measurement in time or gallons
2. Filter alert active/disabled
3. LED UV run time settings
4. Cold temperature range

\*Yellow blocks indicate default settings\*

DIP Switch Number	Feature	Comment
<b>DIP S/W1</b>	<b>Filtration Installed</b>	
On	RO	Select Intalled Filtration
Off	M	
<b>DIP S/W2</b>	<b>Service Life Indicator</b>	Select ON to show illuminated 'service' light when filters reach capacity.
On	Filter Alarm ON	*
Off	Filter Alarm OFF	
<b>DIP S/W3</b>	RO   M	Select a time of capacity for filter life of RO/M
On	Lifetime: 24 Months	
Off	Lifetime: 12 Months	
<b>DIP S/W4</b>	RO   M	Select filter life duration indicator of RO/M
On	Capacity: 1,000gal (3,785L)	
Off	Capacity: 1,500gal (5,678L)	
<b>DIP S/W5</b>	<b>Cold Temperature</b>	Change cold water range if too cold or freezing
On	ON: 46.4°F (8°C) / OFF: 40.1°F (4.5°C)	
Off	ON: 42.8°F (6°C) / OFF: 37.4°F (3°C)	
<b>DIP S/W6</b>	<b>UV Runtime Interval</b>	Change UV runtime interval if desired (impacts bulb life)
On	1 hour ON/ 2 hour off	**
Off	Always ON (24 hour)	
<b>DIP S/W7</b>	<b>Model</b>	Do not touch these settings
On	Must be off	
Off	Acscnt 80	
<b>DIP S/W8</b>	<b>Model</b>	
On	Acscnt 80	
Off	Must Be On	
<b>DEFAULT (DIP S/W)</b>		

\*Caution: We strongly advise leaving this off to avoid unwanted service calls.

\*\*UV light life based on setting, default setting 5 year life, always on 2 year life.



## System Programming Instructions

In addition to the programming done with the Dip Switches, there are 3 items that can be changed using the sensors as the programming tool: Service indicator, Flow Rate, and audible Beep tone.

NOTE: The Ascent 80 makes a beep noise when a sensor is triggered. For programming, there is a second noise, which we call a Chime. The Chime is an ascending tone of 3 to 6 notes. Do not assume the beep is the Chime.

1. Beep tone: The unit makes a beep when a sensor is activated. This tone can be tuned off if the customer desires silence. NOTE: When this tone is turned off, it will need to be turned on again to hear the Chimes referred to in the other following instructions. To turn off beep tone:
  - a. Hold hand over HOT SELECT sensor for 1 second.
  - b. Then hold hand in front of DISPENSE sensor 5 times. The beep should now be silenced
  - c. To restart the audible beep, repeat above steps.
  
2. Service indicator: The Service indicator may illuminate for 2 reasons. 1.) Water has triggered the leak sensor. 2.) The filter life has reached its limit. NOTE: The filter indicator is optional and must be activated by the dealer using the Dip Switches. **We strongly suggest NOT activating the optional Filter Life warning because different usage may create unwanted service calls.** The filter life can be set by the dealer as described in the Dip Switch section. If the Service indicator is lit:
  - a. First check inside the lower front panel to ensure there are is no standing water on the leak continuity sensor on the bottom plate.
    - i. If there is water, check for the source and dry the sensor and the Service light will turn off.
  - b. Confirm beep tone is turned on for the following step
  - c. The filters have reached their useful life as determined by your Dip Switch settings. To reset the filter life aspect of the Service light:
    - i. Hold hand over HOT SELECT for 5 seconds.
    - ii. Remove hand and then place hands over both the HOT SELECT and DISPENSE sensors for 5 seconds until a chime is heard.





## System Programing Instructions

3. Flow Rate: The dispense Flow Rate on the Ascent 80 is set to 3 liters per minute. This is twice as fast as a traditional cooler and is ideal for filling larger bottles. However, in certain settings the flow may be too fast. An example is a waiting room that provides only small cups for the visitors. The Flow Rate can be reduced to 2 liters per minute using the following steps:
  - a. Confirm beep tone is turned on.
  - b. Hold both hands over HOT SELECT and DISPENSE sensors. simultaneously for 5 seconds until the audible Chime is heard
  - c. Remove hands and again place in front of HOT SELECT and DISPENSE sensors and hold for around 5 seconds until the audible Chime is heard.
  - d. To reset the Flow Rate, repeat the above steps.



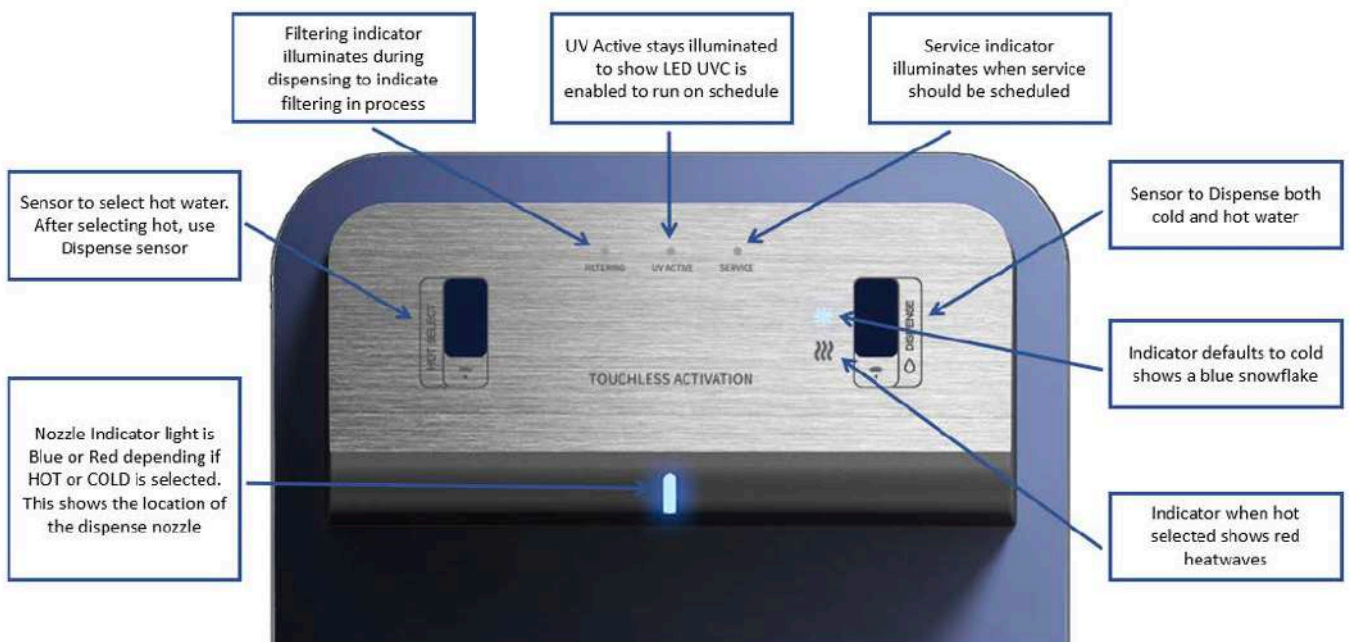
## Preventative Maintenance

1. Change filters according to the filter change schedule.
2. Reset the filter alert using the instructions above.
3. Descale the hot tank.
4. Drain the system and use Hydrogen Peroxide to sanitize the system.
5. Check all fittings for signs of scale or wear and replace as needed.
6. Check condition of the float mechanisms. Pay special attention to ensure no water has infiltrated the float balls.
7. Check solenoids for proper function. Dripping solenoids should be replaced.

## System Instructions

### How to use the Ascent 80 Bottle Free Cooler

The below diagram shows the functions of the interface of the Ascent 80.

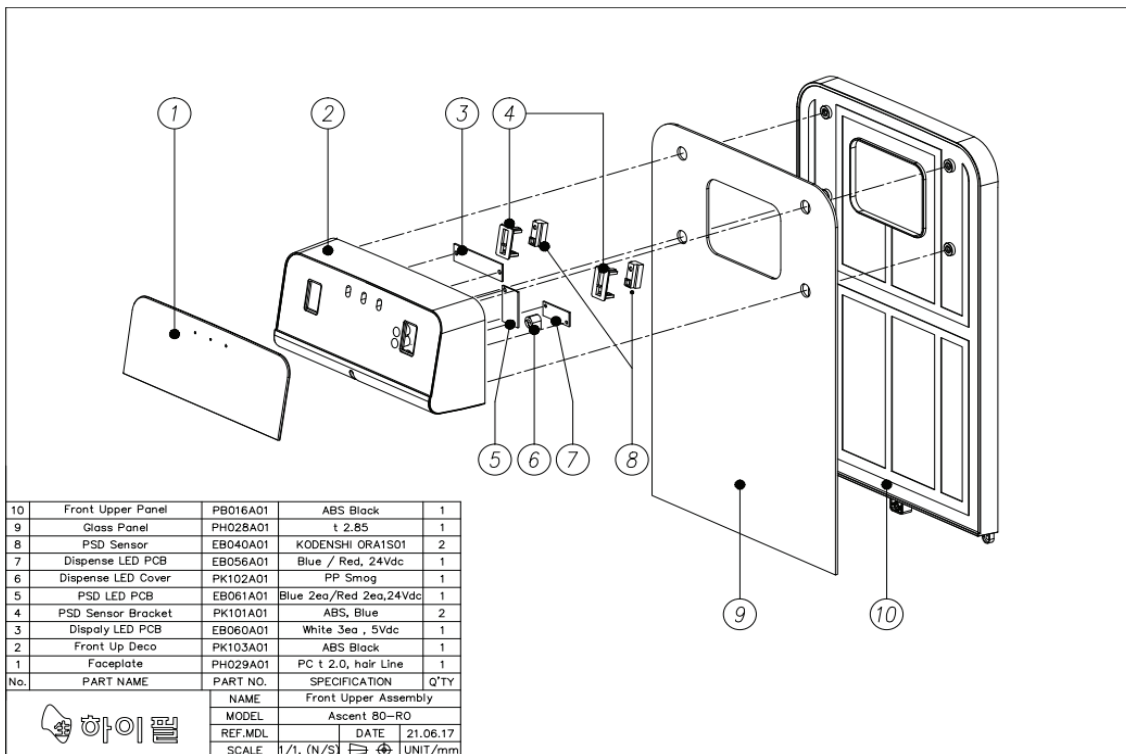
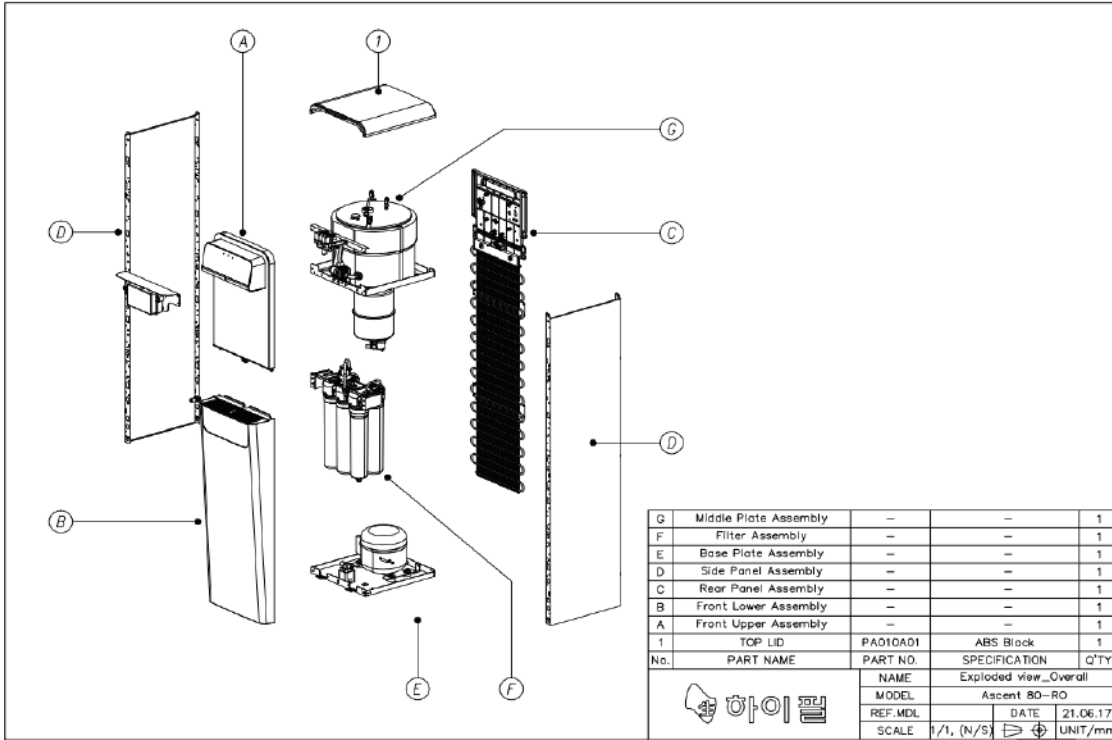


- The Ascent 80 uses touchless sensors to detect an object in front of the sensor. The sensor can be used either as touchless or with touch.
- To operate the sensor, simply hold your hand in front of the sensor. There is no need to wave the hand, just simply hold within 1/2" of the sensor.
- The Ascent 80 has 2 temperatures; COLD and HOT:
  - The default temperature is COLD for user safety
  - Then HOT is selected, it will remain ready for 3 seconds before the cooler reverts to COLD
  - When finished dispensing HOT, the cooler reverts to cold for safety

To Dispense water:

- For COLD water, note that both the Snowflake and Nozzle indicators will be illuminated blue.
  - Hold hand over the DISPENSE sensor for the water temperature selected (COLD).
- For HOT water, wave hand in front of the HOT SELECT sensor until heatwave indicator is Red.
  - The HOT Heatwave and Nozzle indicators will illuminate in red to indicate the unit will now dispense HOT water.
  - Within 3 seconds, move hand to DISPENSE sensor to dispense HOT water.
- Move hand away when finished dispensing.

## Part Diagrams

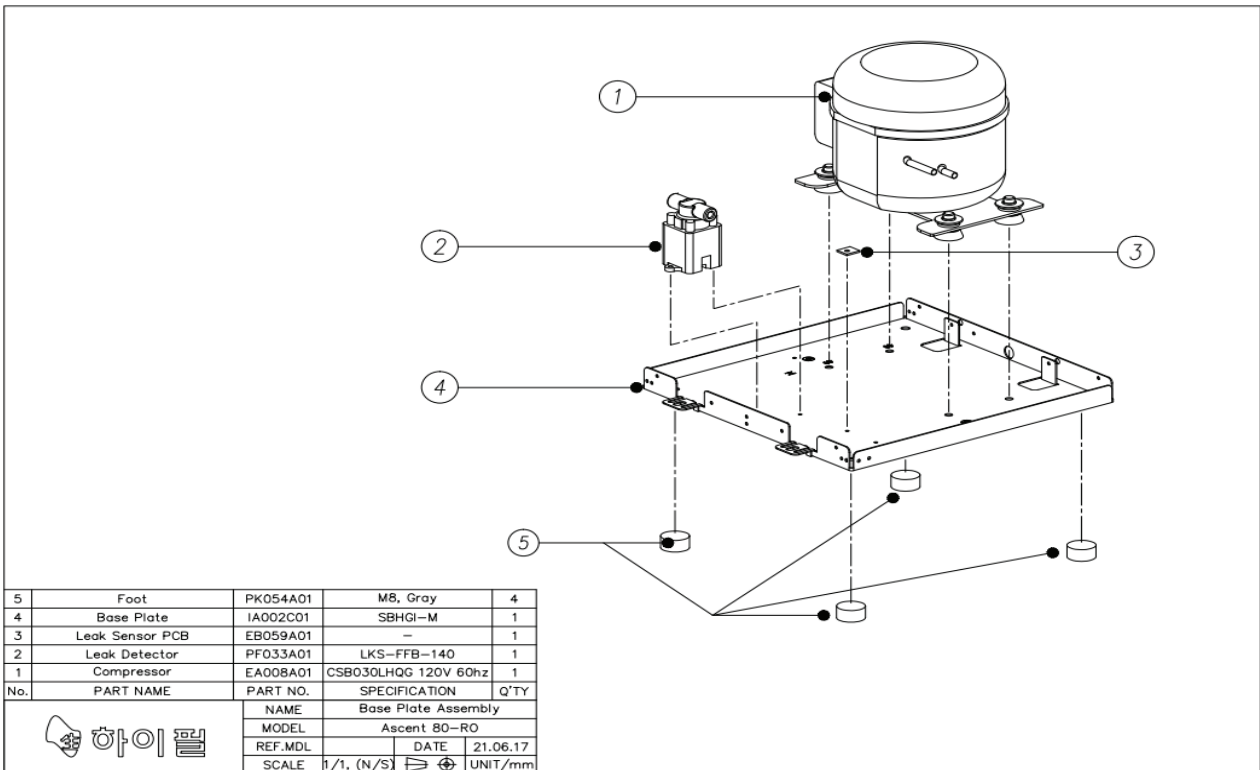
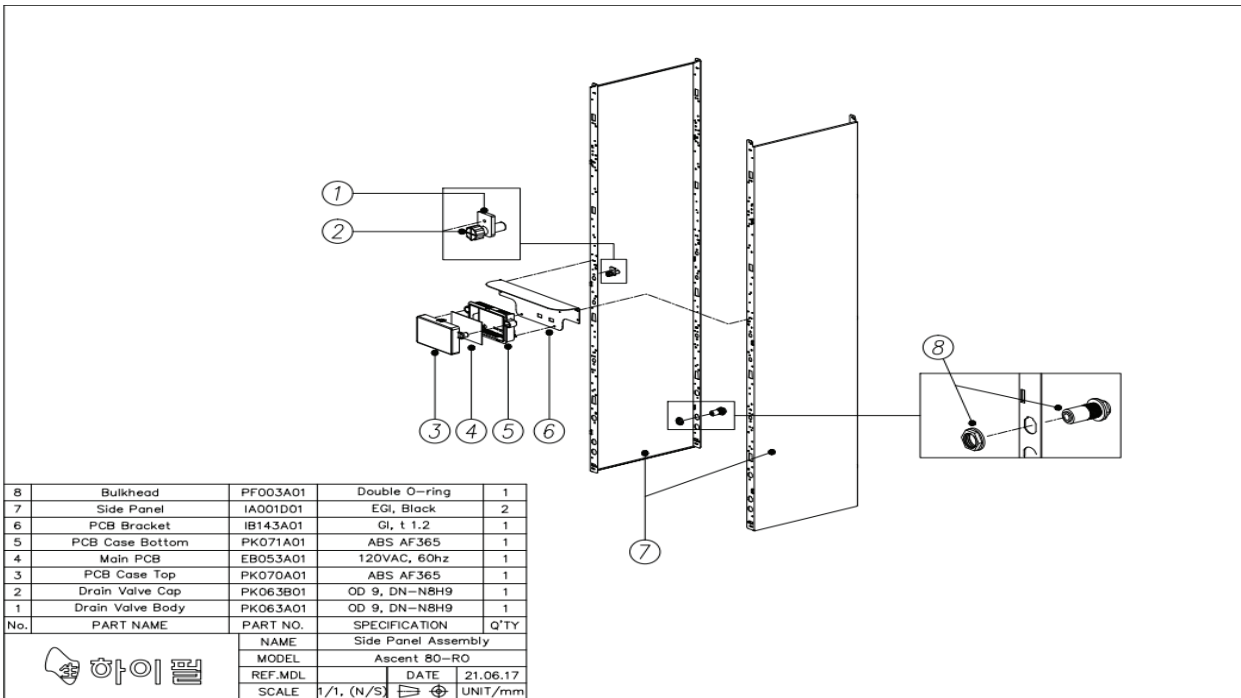


## Part Diagrams

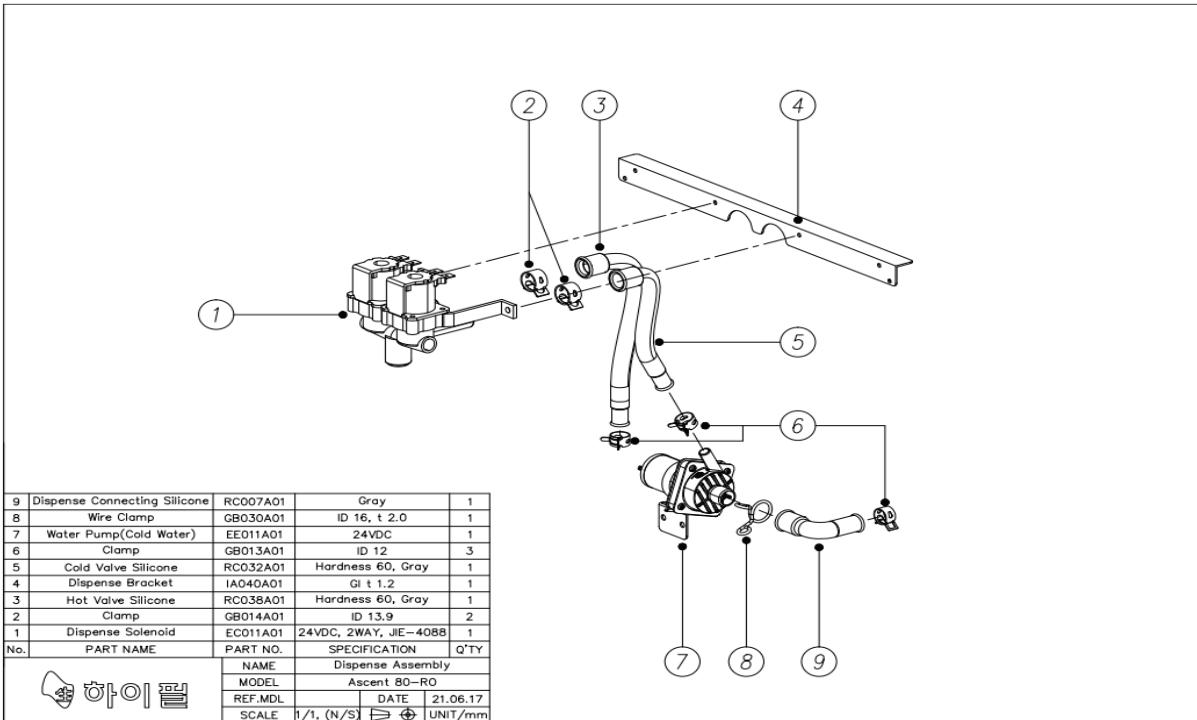
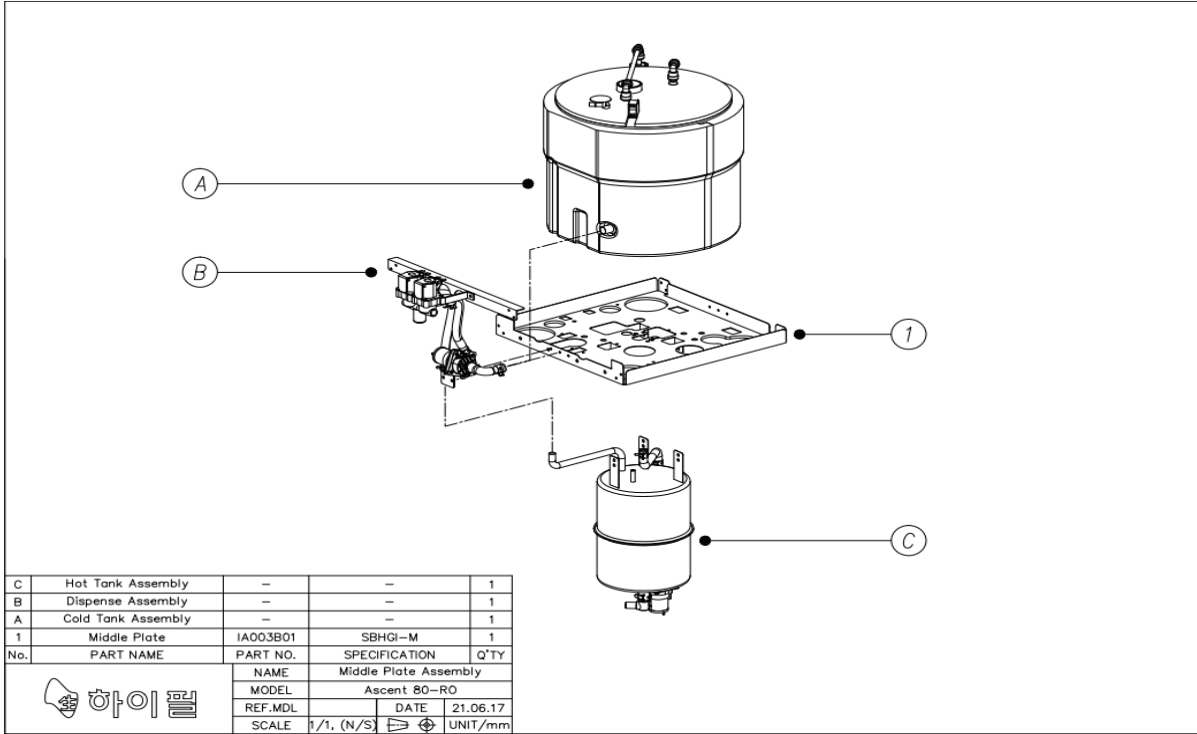
8	Drip Tray Bracket Plug	RC011A01	Si, gray, Hardness 50	1
7	Spring Holder	PK029A01	Lock Shaft Assembly	2
6	Front Lower Panel	PA011A01	ABS Black	1
5	Drip Tray Connect O-ring	RC026A01	AN 016(15.6*1.78), NBR	1
4	Drip Tray	PA012A01	ABS, Silver Spray	1
3	Drip Tray Grill	PA013A01	ABS, Silver Spray	1
2	Drip Tray Float Cover	PD021A01	PP, Yellow	1
1	Drip Tray Float	PD022A01	Foam pp	1
No.	PART NAME	PART NO.	SPECIFICATION	Q'TY
		NAME	Front Lower Assembly	
		MODEL	Ascent 80-RO	
		REF.MDL	DATE	21.06.17
		SCALE	1/1, (N/S)	UNIT/mm

7	Side Panel Bracket	IA004A01	GI, t 1.0	1
6	Cabinet Handle Bracket	IA020A01	GI, t 1.0	1
5	Power Cord Housing	EJ002A01	15A 250Vac	1
4	Fuse Housing & Cap	EJ003A01	FH-01A, 10A 250Vac	1
3	Hot Switch	ED002A01	RL3 125/55 6A 250V	1
2	Condenser	ID001A01	OD 4.76*6000mm	1
1	Rear Panel	PE001C01	ABS Black	1
No.	PART NAME	PART NO.	SPECIFICATION	Q'TY
		NAME	Rear Panel Assembly	
		MODEL	Ascent 80-RO	
		REF.MDL	DATE	21.06.17
		SCALE	1/1, (N/S)	UNIT/mm

## Part Diagrams



## Part Diagrams



## Part Diagrams

12	Cold To Hot Silicone	RC037A01	Hardness 60, Gray	1
11	Hot Water Supply Pipe	IG013A01	SUS 304, 9.52X190mm	1
10	Dispense Connecting Silicone	RC006A01	Gray	1
9	Wire Clamp	GB030A01	ID 16, t 2.0	1
8	Hot Pump Bracket	IA042A01	GI t 1.2	1
7	Water Pump(Hot Water)	EE011A01	24VDC	1
6	Pump To Hot Silicone	RC036A01	Hardness 60, Gray	1
5	Clamp	GB013A01	ID 12	5
4	Connector "T"	PK032A01	POM	1
3	Clamp	GB014A01	ID 13.9	1
2	Hot Inlet Silicone	RC035A01	Hardness 60, Gray	1
1	Hot Tank	TBO21A01	120VAC,300W, 2.6L	1
No.	PART NAME	PART NO.	SPECIFICATION	Q'TY

NAME		Hot Tank Assembly	
MODEL		Ascent 80-RO	
REF.MDL	DATE	21.06.17	
SCALE	1/1, (N/S)	UNIT/mm	

10	Fitting Elbow	PF005A01	1/4" Double O-ring	1
9	Air Filter	PK105A01	BID + SEDI	1
8	Float	PF065A01	Body PP, Nut POM	1
7	Micro Float	PF068A01	Micro Switch	1
6	UV LED	EH004A01	CMW-FCC-J01A	1
5	Cold Tank Lid	PG028A01	ø 230	1
4	Nipple Adaptor	PF038A01	1/4"	1
3	Fitting Elbow	PF004A01	1/4" Single O-ring	2
A	Cold Tank Lid Assembly	-	-	1
2	Cold Tank	TA019A01	7L	1
1	Cold Tank EPS	BC020A01	EPS	1
No.	PART NAME	PART NO.	SPECIFICATION	Q'TY

NAME		Cold Tank Assembly	
MODEL		Ascent 80-RO	
REF.MDL	DATE	21.06.17	
SCALE	1/1, (N/S)	UNIT/mm	





## Specifications

**Voltage:** 120 volt; 60 Hertz; 3.6 Amp

**Dimensions:** 50" (27cm) H x 11.8" (29.9 cm) W x 17" (43.1 cm) D

**Shipping Weight (Approx.)** – 65 lbs (29.5 kg)

**Cold Water Capacity:** 2.2 gallons (8.3 Liters)

**Hot Water Capacity:** 0.7 gallons (2.7 Liters)

**HP Compressor (Full Load):** 1.1 Amps

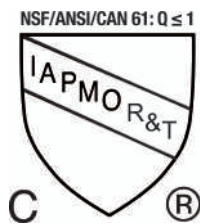
**Compressor with Hot (Full Load):** 5.5 Amps

**UV:** LED UVc; 12V; 7mW; 275 nm

Specifications subject to change without notice.

\* These systems have been manufactured with R134a refrigerant.

**WARNING:** A pressure regulator, such as a slow flow regulator, must be installed in front of the system's water inlet if the water pressure (including any possible pressure Spikes) could exceed 80 PSI (5.5 bar) Failure to comply will void warranty. CULLIGAN and its manufacturers accepts no liability for damage caused by excessive water pressure. Do not use this drinking water system where the source water is microbio-logically unsafe or with water of unknown quality without adequate disinfecting before or after the system.

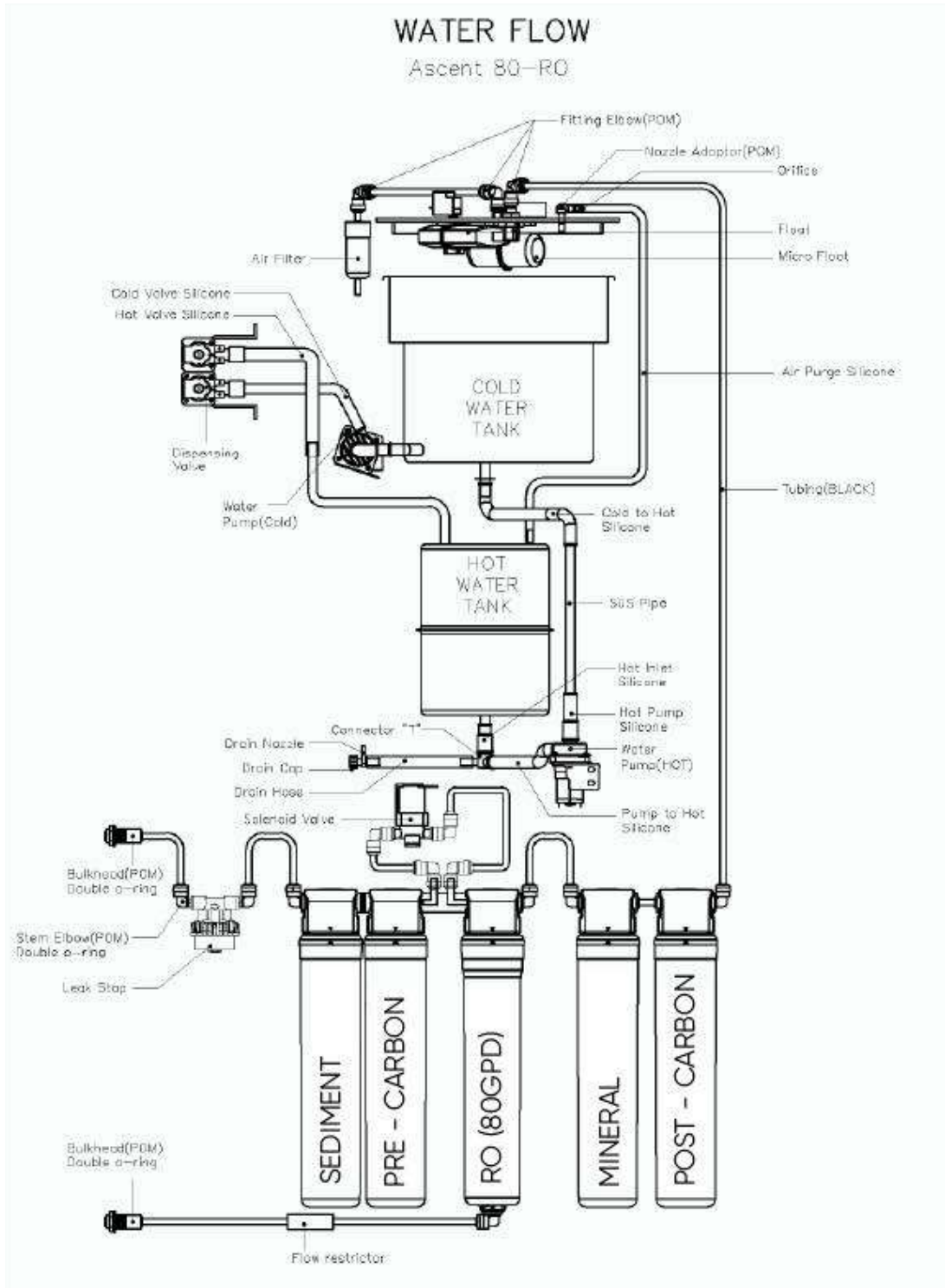


The Culligan Ascent 80 system is certified by IAPMO R&T against NSF/ANSI/CAN 61: Q ≤ 1, NSF-372 and CSA B483.1 for material safety, structural integrity, and lead free requirements. The Ascent 80-M system also is certified to NSF/ANSI-53 for the reduction of lead and cyst, and NSF/ANSI-42 for the reduction of chlorine, and Taste and Odor.



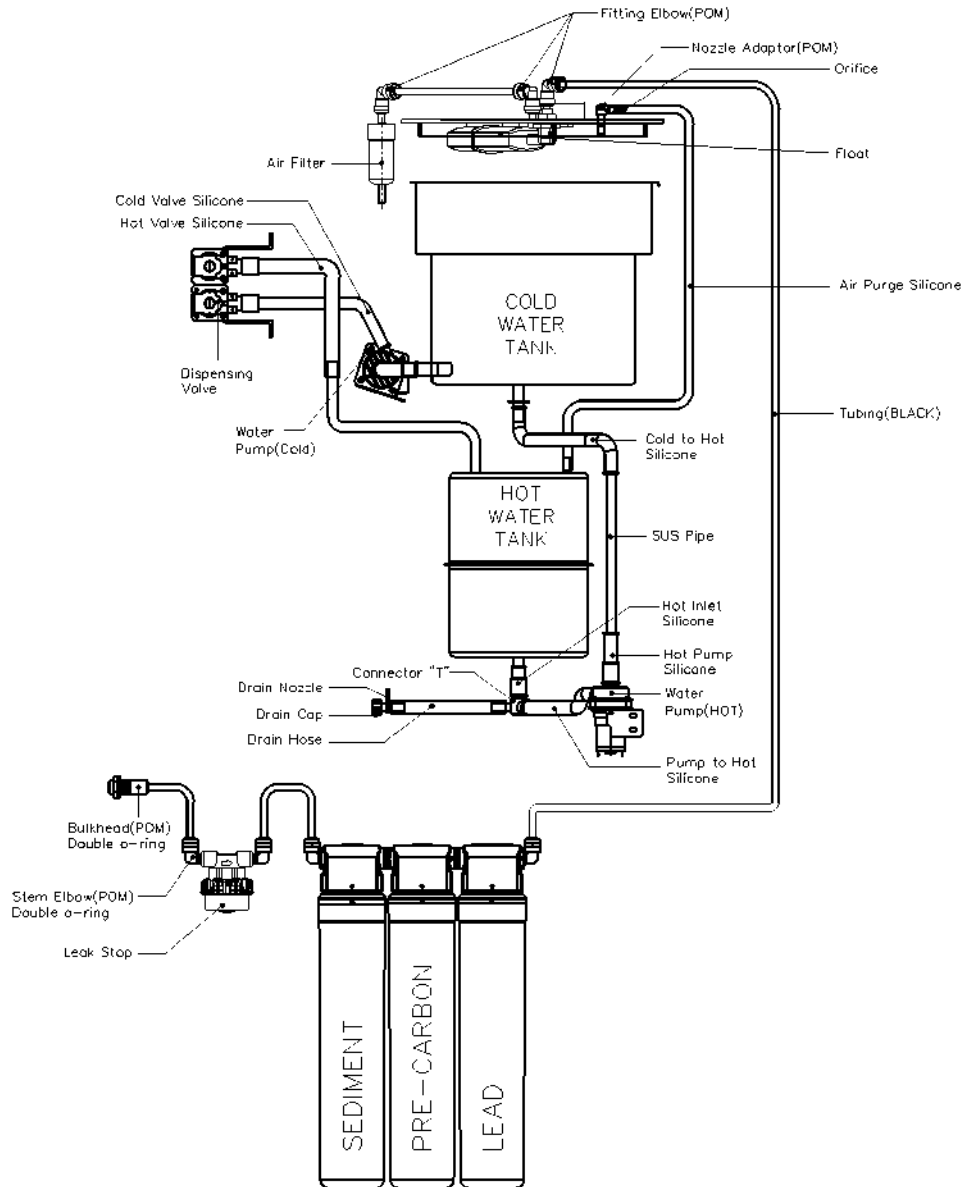
Certified to UL Standard 399, Drinking Water Coolers and CSA C22.2 No. 120-13 (R2018), 4th Edition, CSA Standard for Refrigeration Equipment.

## Process Flow Diagram



## Process Flow Diagram

WATER FLOW  
Ascent 80-M





## Product Limited Warranty

### Domestic Initial Limited Warranty:

CULLIGAN promises the original Dealer/Distributor to repair or, at CULLIGAN's sole discretion, to replace any part of the water cooler which proves to be inoperative due to a defect in material or workmanship under normal use, for a period of one year from the date of shipment of the machine from CULLIGAN to Dealer/Distributor. During the term of this initial warranty, CULLIGAN, at its sole discretion, will supply parts to the installing Dealer/Distributor to correct the defect. In case of a refrigeration sealed system repair, CULLIGAN will instruct the Dealer/Distributor to use an approved service center or, at CULLIGAN's sole discretion, return the unit to CULLIGAN for repair or replacement. The cost of any service call required to disconnect, reconnect or transport the system will be the sole responsibility of the Dealer/Distributor. This warranty does not extend to any customer of Dealer/Distributor.

### Additional Warranty through Fifth year:

CULLIGAN promises that after the end of the initial warranty through the fifth anniversary of the initial limited warranty to supply a new compressor if proven defective by a qualified CULLIGAN approved technician.

CULLIGAN will provide the compressor to the Dealer/Distributor at no charge. This warranty does not include any costs, including labor charges, travel time, or miscellaneous expenditures incurred by the Dealer/Distributor.

### General Provision and Exclusions:

This warranty only applies in the fifty (50) United States and Canada.

This warranty does not apply, and no agreement, either written or implied, shall be applicable if the affixed serial number is removed, defaced or obliterated. This warranty does not apply to the filters or Ultra Violet system after exposure to water. Refer to service manual for filter requirements and expected performance. This warranty does not apply if parts used as original or replacement equipment, including filters, are not obtained or authorized through CULLIGAN, and such unauthorized usage shall void this warranty. This warranty does not apply to any wetted parts that become inoperative due to lime, scale or other water quality conditions. This warranty does not apply to any machine or components that become inoperable due to a failure by Dealer/Distributor or the end-user to satisfy standards or regulations adopted by any governmental agency. This warranty does not cover performance, failure or damages of any part resulting from external causes such as alterations, abuse, misuse, misapplication, neglect, accident, installation, operation contrary to printed material, corrosion or acts of God.

This warranty only applies to the operative components of the machine and does not apply to the exterior shell or frame to which the shell is attached and the appearance of the machine.



## Product Limited Warranty & Warranty Procedure

### Warning:

This warranty and any applicable industry certifications for this machine are automatically voided if the machine is altered, modified, or combined with any other machine, equipment or device. Alteration or modification of the machine may cause serious flooding and/or hazardous electrical shock or fire. Except as set forth herein, CULLIGAN makes no other warranty, guarantee or agreement expressed, implied or statutory, including any implied of merchantability or fitness for a particular purpose.

The foregoing is in lieu of all other agreements expressed or statutory and all other obligations or liabilities of CULLIGAN. CULLIGAN does not assume or authorize any person to assume any obligations of liability in connection with this product. In no event will CULLIGAN be liable for special, incidental, consequential or punitive damages, or for any delay in performance of this warranty agreement due to causes beyond its control.

### Export Warranty:

The CULLIGAN export warranty shall apply to all area outside of the Continental limits of the United States and Canada. The export warranty shall mirror the domestic warranty set forth above in all respects except that a) the export warranty shall be limited to the Initial Term and there is no coverage for the additional warranty through the fifth year and b) the Dealer/Distributor shall be responsible for any and all transportation charges to implement the repairs.

**ALL WARRANTY REPAIRS SUBJECT TO PRIOR APPROVAL BY PURE WATER TECHNOLOGY'S SERVICE DEPARTMENT IN ORDER TO VALIDATE THAT THE DEFECTIVE COMPONENT IS STILL UNDER WARRANTY.**

### Warranty Procedure:

Procedure for Ascent BFC warranty evaluation. Contact CULLIGAN technical support

Provide the following information:

1. Serial number
2. Failure
3. Full details around failure
4. Water pressure into the system
5. Tap TDS
6. TDS out of the cold and hot tanks
7. Pictures

Depending on the situation, technical support may request more information. Upon approval, CULLIGAN will process warranty credit or replacement part to be fulfilled. Dealer must maintain possession of the part or system until authorized to discard, failure to do so may result in a denial of warranty. For system credits, technical support will provide a credit number which may be given to the account management team on the next qualifying system order. The account management team will then provide a system credit.