# PW90 & PW90CT
# Field Guide

| | PW90CT |
|---|---|
| Weight | 46.3 lbs |
| Dimensions | 17.8"H x 11.7"W x 19.5"D |
| Cold Capacity | 1 gallon |
| Hot Capacity | .5 gallons |
| Dispense Area | 10.7" tall |
| Recommended water PSI | 60-70psi |
| Voltage | 120VAC |
| AMPS | 5.5amps |




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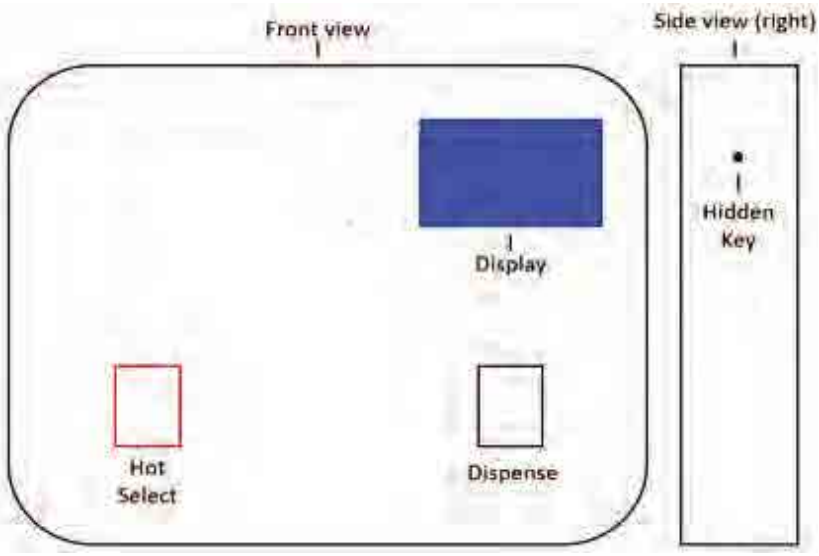
# How to Use

## Front Panels and Controls

### PW90




### PW90 CT





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# Ozone Summary

The Ozone generator turns on 12 hours after the last dispense and runs for 5 minutes every day by default. The unit will let you know this by displaying a message, Activated Oxygen on and lighting up the Activated Oxygen led during the sanitizing process. This system is used to sanitize the water in the cold tank. There are four main components in this system:

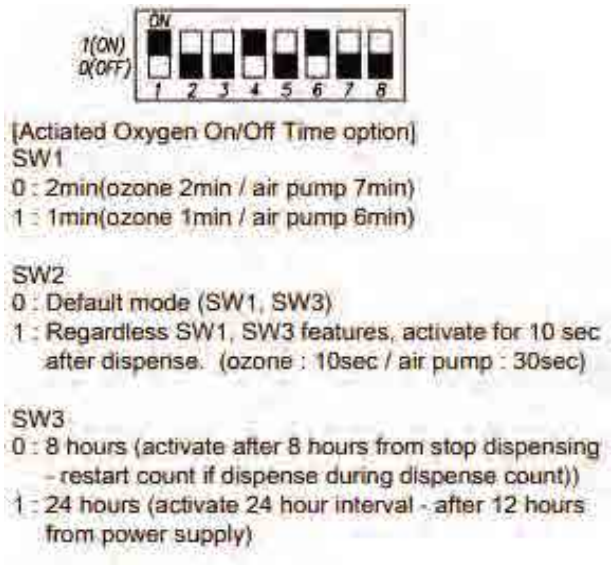
1. Air pump- Provides air to the O-Zone generator. This is located next to the control board, behind the right panel.
2. Air Filter- filters the air going to the O-Zone generator. This is located behind the cold tank on the right side.
3. O-Zone generator- makes o-zone. This is located above the air filter.
4. Diffuser Stone- Diffuses o-zone into the water. This is located in the cold tank.

# Programing the Ozone

PW90 CT

If changing the programing on the PW90CT is deemed necessary, it can be done Via Dip switch settings on the main board. Please see dip switch chart below.

NOTE: If the Ozone settings are too high, it can affect the taste and odor of the water.







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# Installation

1. The water cooler must be installed indoors.
2. The water inlet is a ¼" quick connect water inlet located on the rear right bottom corner.
3. Place the cooler so that it is not in the way of traffic and leave two inches behind it so it has proper ventilation.
4. Coil the power cord and waterline behind the cooler.
5. This water cooler does not need a drain unless an RO system is being used for filtration. If a drip tray drain is needed, part number "DrainKit" can be ordered. This is a drain designed to connect to the back side of the top front panel so the drip tray can drain efficiently.

   NOTE: please refer to local plumbing codes when connecting the Drip tray, or RO filters to a drain.

6. Filters need to be flushed at this point. Please see filter flushing instructions.

   NOTE: leave the hot tank switch in the off position until the hot tank is full of water.

7. The filter settings should be pre-set from the factory, but if changes are needed, you can turn filters on or off, and program filter life into unit.

# Installation

## PW90 APP

1. Enter the PW90 APP.
2. Press on the Filter Settings Tab.
3. Specify if you would like alerts to be set to time, gallons, or whichever comes first between time or gallons.
4. The time and gallons can be adjusted to desired amounts for each individual filter.
5. Alerts can also be turned on or off for all filters listed; those that do not apply to the system will be automatically turned off.


## PW90 CT

If changing the filter life settings on the PW90CT is deemed necessary, it can be done Via Dip switch settings on the main board. Please see dip switch chart below.


| [Filter 1, 2 Life time option] | | | [Filter 3, 4 Life time option] | |
|---|---|---|---|---|
| SW4 | SW5 | | SW6 | SW7 |
| 0 | 0 | : Disable | 0 | 0 : Disable |
| 0 | 1 | : 12 months | 0 | 1 : 18 months |
| 1 | 0 | : 18 months | 1 | 0 : 24 months |
| 1 | 1 | : 24 months | 1 | 1 : 30 months |




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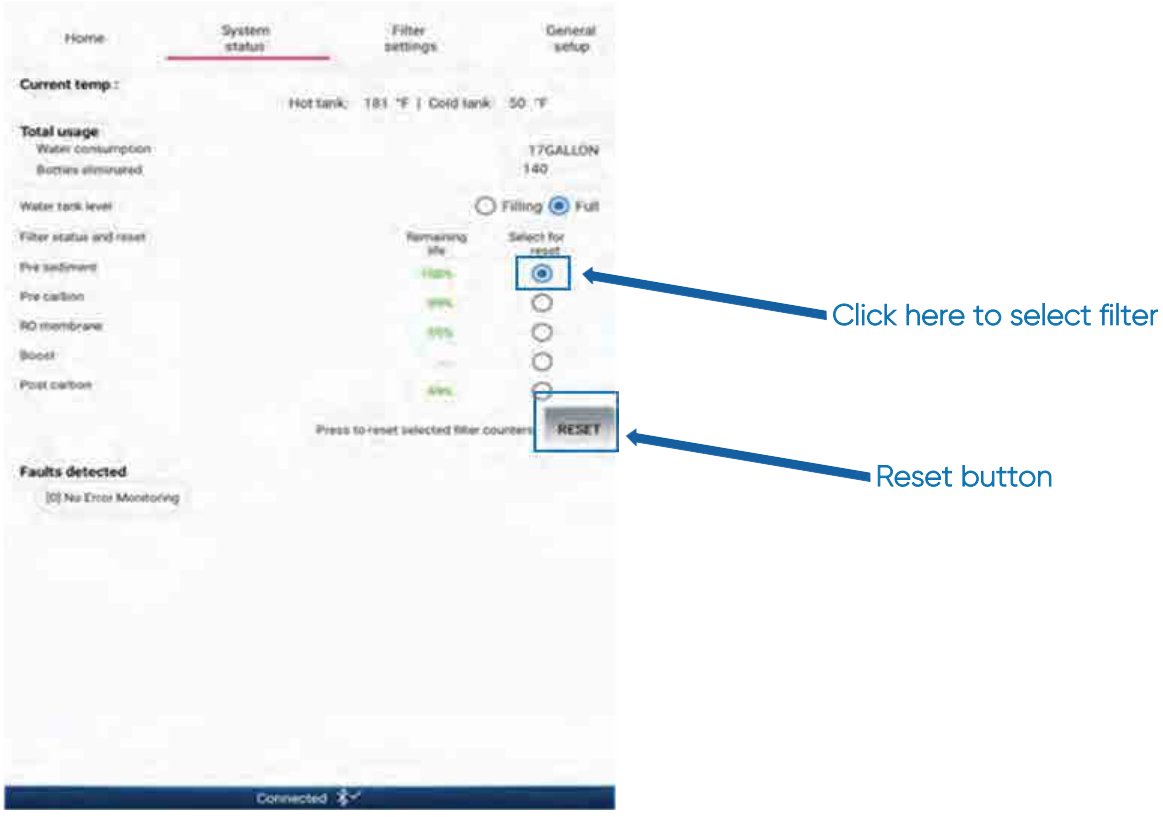
# Preventative Maintenance

1. Remove the filter door, grab bottom and pull out, then inspect for leaks.
2. Drain the unit from the drain tube located under the hot tank switch in the back of the unit.
3. Remove the top cover and tank lid.
4. Spray 1 part hydrogen peroxide to 4 parts water solution into the cold tank, let stand for 5 minutes and wipe clean with a rag.
5. Replace the lid and flush the tank.
6. Filters should be replaced using this schedule:
    - Sediment= 1 year
    - Pre Carbon= 1 year
    - RO Membrane= 2-3 years
    - Boost= 1 year
    - Post carbon= 2-3 years
    - Lead and Cyst= 1 year
7. Please see flushing instructions
8. Wipe down the outside of the unit and sanitize the water dispense area.
9. Reset the filters that were changed during the PM in the programing of the machine.

# Preventative Maintenance

PW90 APP:

1. Enter the PW90 APP.
2. Press on the System Status Tab.
3. Click the circle next to any filters changed during the PM. The circle should change from white to blue.
4. Press the Reset button and any selected filters should read 100% in the remaining life column.




PW90CT:

1. The filter life indicator triggers the Service light to illuminate. The indicator can be reset without opening the system, by using a sequence of motions with the sensors.
2. To reset the filter life, Wave hand in front of hot for 5 seconds, wave hand in front of dispense for 5 seconds, audible chime will sound after each step

# Filter Flushing

Please Note:

- Filters are located behind the bottom front panel on the PW90
- Filters are located behind an access panel located on the right side panel of the PW90CT
- The line wrapped in yellow tape line will represent the drain line
- The line wrapped in green tape will represents the source line

To Flush Pre-Filters

1. Remove the tubing from the filter side of the leak stop (gray collet) and connect your source line directly to the tubing with a union fitting.
2. Remove the tubing that connects to the "out" fitting on the carbon block filter
   head and connect a drain line to this fitting.
3. Turn the water on and flush according to the instructions on the filter label
4. Turn off water when completely flushed
5. Remove the supply and drain lines and reconnect the tubing to their originally installed location.

To Flush Post-Carbon Filter

1. Remove the "out" tubing from the RO membrane.
2. Connect the source line directly to the tubing that is removed from this fitting.
3. Then connect a drain line to the "out" fitting on the boost filter location
4. Note, if a boost filter will be used, please refrain from installing the boost filter until after the "Post Carbon" filter is flushed.
5. Turn the water on and flush according to the instructions on the filter label. After turning the water off you may put the tubing back to the previously installed locations.





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# Filter Flushing

IF Installing or Flushing a Boost [+] Filter

1. Prior to returning the tubing after step B, move the supply feed and connect to the tubing from the “out” of the “post carbon” filter head.
2. Leave the drain line connected to the “out” fitting on the top of the “Boost” filter head.
3. Install the “Boost” filter in position and turn the water and flush according to the instructions on the filter label.

Flushing RO Membrane (30 minutes)

1. It is important to flush the RO membrane with all filters inline for a full 30 minutes. Although the RO membrane will flush down to 98% reduction in TDS within 5-10 minutes, the remaining 20 minutes is necessary to completely flush the preservative out of the membrane and to flush the higher TDS water out of the post filter.
   Note: Failure to complete this test, especially when using the “Boost” filter will result in poor taste and may
   cause damage to the equipment.
2. Connect the source line to the back of the system in the “tap water” bulkhead fitting.
3. Connect a drain line into the “RO drain” bulkhead fitting
   Note: This is represented with the black tubing with no tape color
4. Plug the power cord into active power.
   Note: Failure to do will result in the solenoid not engaging and as a result no water will pass through the filters.
5. Keep the drain line connected to the “out” fitting from the “Boost” filter head.
6. Turn the water on for 30 minutes.
7. Prior to turning off the water supply, ensure:
   Note: For RO only systems, the TDS is .02% vs the tap water TDS (98% reduction).
   Note: For Systems using Boost, the TDS is about 8-12 ppm higher than the RO only variant.
8. If you have issues achieving these readings, make sure you have 60-70 PSI feeding the system, the drain is not restricted in any way including a reversed check valve, the inline flow restrictor is in place and working properly and the unit is properly flushed.

Please contact technical support for further assistance.

# PW90CT Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| No power | Unplugged | Plug in system. |
| | Power supply | Check power to outlet. |
| | Blown fuse | Check fuses F2 and F3 on the circuit board. |
| No Water | No power to system | Plug in system. |
| | Water supply turned off | Turn water on. |
| | Clogged filters | Replace sediment and pre carbon filters. |
| | Dispensing valve | When the cold button is pushed, you should hear a click. If not click, check fuse F1 |
| | Fill sensor | Make sure the fill sensor is not stuck in the "up" position |
| | Overuse | Check flow rate to reservoir. If flow rate is correct, usage has exceeded flow. |
| Not enough water | Clogged filters | Replace sediment and pre carbon filters. |
| | Overuse | Check flow rate to reservoir. If flow rate is correct, usage has exceeded flow. |
| Water not cooling | Cooler not plugged in. | Plug in system. |
| | Cold control not turning on compressor | Replace cold control. |
| | Refrigerant loss | Call service center. |
| Water not hot | On/Off switch | Turn switch on. |
| Reservoir overflows | Fill valve stuck open | Check fill valve and fill sensor. |
| | Reservoir overfull | Check fill sensor. It should slide freely on stem. |
| Leak detector alarm | External source of water | Check for leaks in unit or other source of water on leak detector pad. Dry leak detector pad and then unplug system. Plug back in |
| | floor mopped. | |




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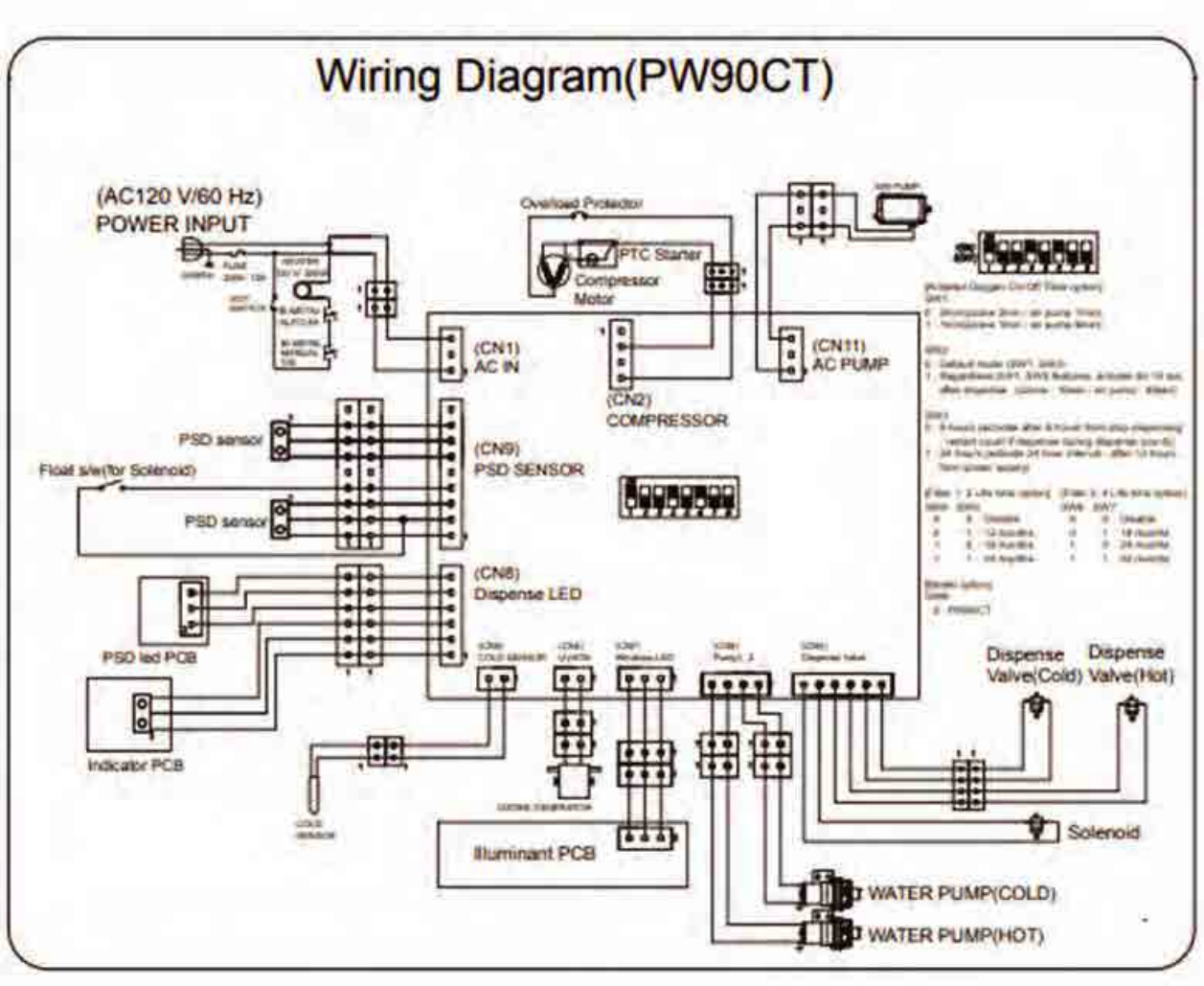
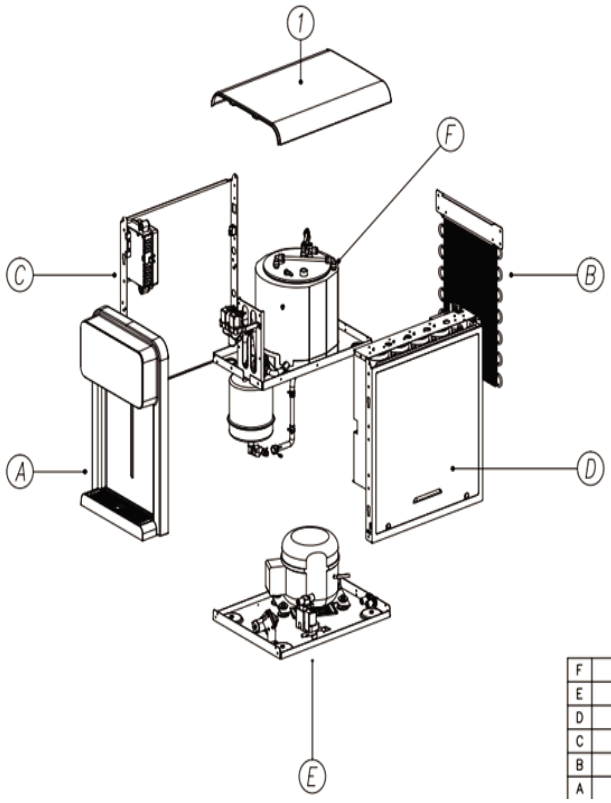
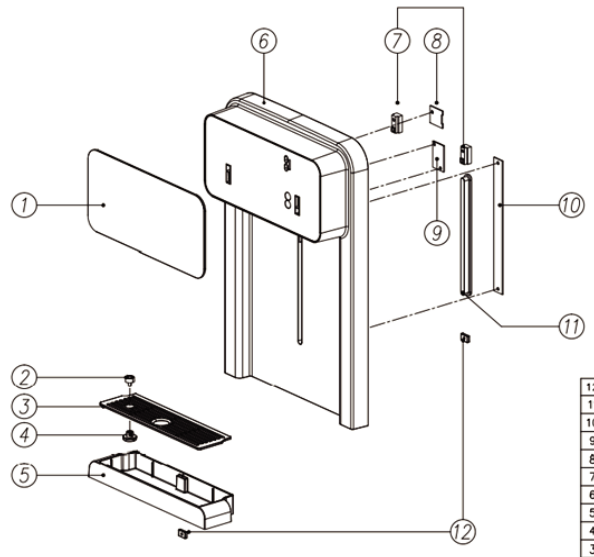
# PW90CT Diagrams



# PW90CT Diagrams

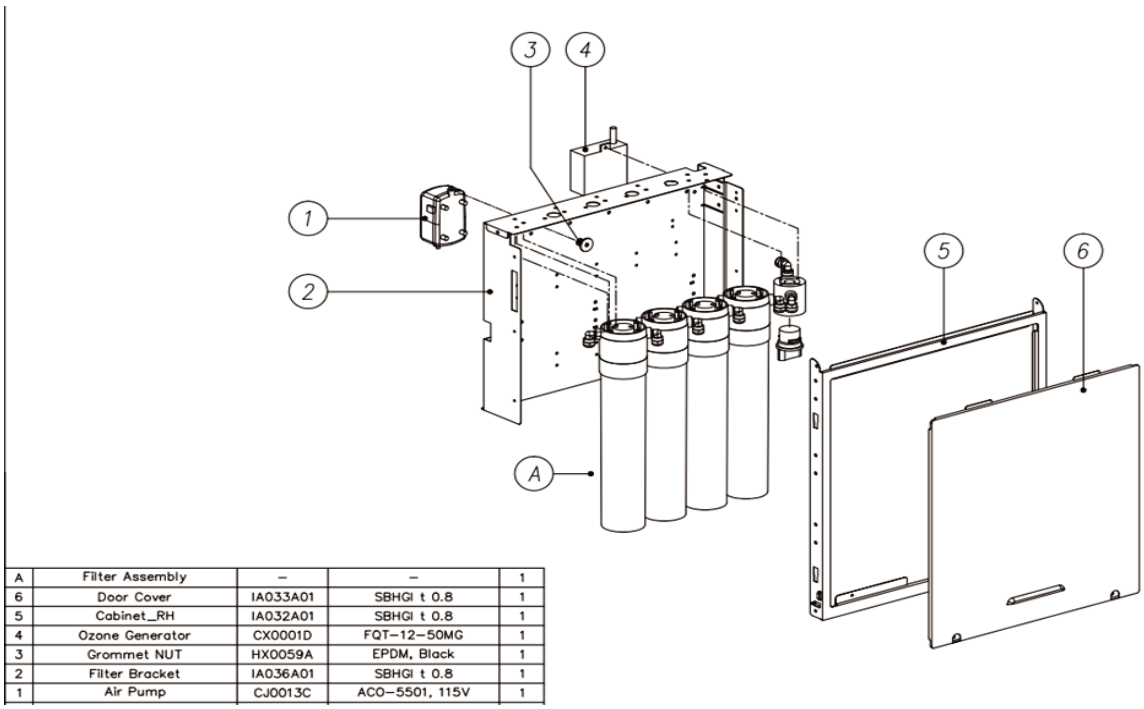



| | | | | |
|---|---|---|---|---|
| F | Middle Plate Assembly | – | – | 1 |
| E | Base Plate Assembly | – | – | 1 |
| D | Rihgt Panel Assembly | – | – | 1 |
| C | Left Panel Assembly | – | – | 1 |
| B | Rear Panel Assembly | – | – | 1 |
| A | Front Panel Assembly | – | – | 1 |

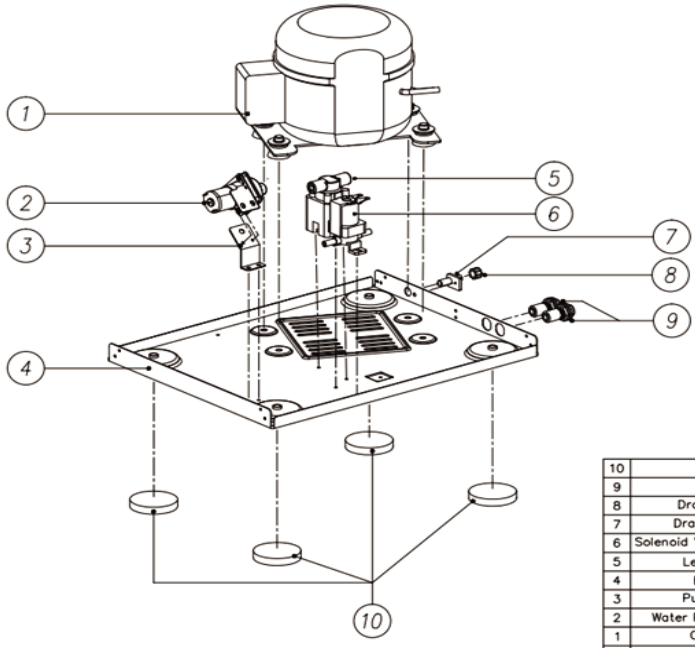



| | | | | |
|---|---|---|---|---|
| 12 | Drip Tray Magnet | IG002A01 | S : pi 6.5 / N : pi 4.2 | 2 |
| 11 | Deco Window | PK098A01 | PP Smog | 1 |
| 10 | Window PCB | EH008A01 | – | 1 |
| 9 | Backlit PCB | EH009A01 | – | 1 |
| 8 | PSD LED | EB051A01 | – | 1 |
| 7 | PSD Sensor | EB040A01 | KODENSHI ORA1S01 | 2 |
| 6 | Upper Front Panel | PB015A01 | ABS HF380 9001 | 1 |
| 5 | Drip Tray | PD034A01 | ABS HF380 9001 | 1 |
| 4 | Drip Tray Float Cover | PD021A01 | PP, Yellow | 1 |
| 3 | Drip Tray Grill | PD033A01 | ABS HF380 9001 | 1 |
| 2 | Drip Tray Float | PD022A01 | Foam pp | 1 |
| 1 | Upper Front Deco | PH025A01 | 207x131.3 t2.85 R20 | 1 |

# PW90CT Diagrams

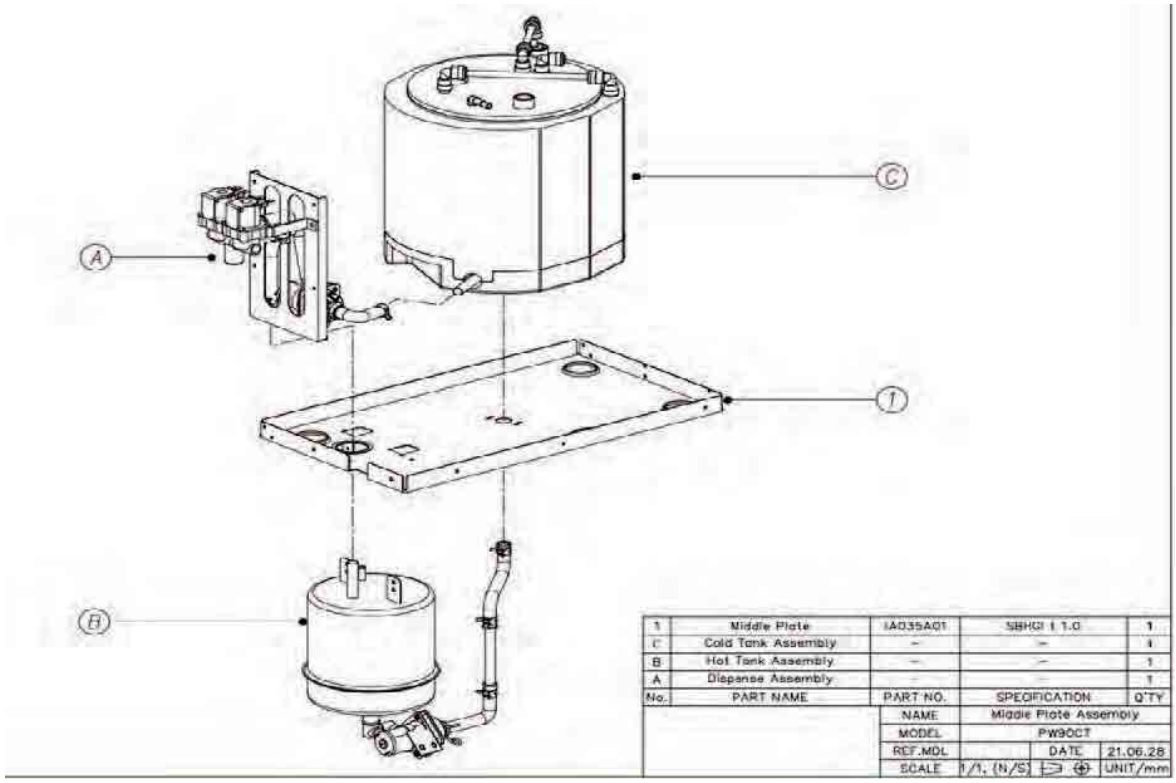



| | | | | |
|---|---|---|---|---|
| A | Filter Assembly | – | – | 1 |
| 6 | Door Cover | IA033A01 | SBHGI t 0.8 | 1 |
| 5 | Cabinet_RH | IA032A01 | SBHGI t 0.8 | 1 |
| 4 | Ozone Generator | CX0001D | FQT–12–50MG | 1 |
| 3 | Grommet NUT | HX0059A | EPDM, Black | 1 |
| 2 | Filter Bracket | IA036A01 | SBHGI t 0.8 | 1 |
| 1 | Air Pump | CJ0013C | ACO–5501, 115V | 1 |



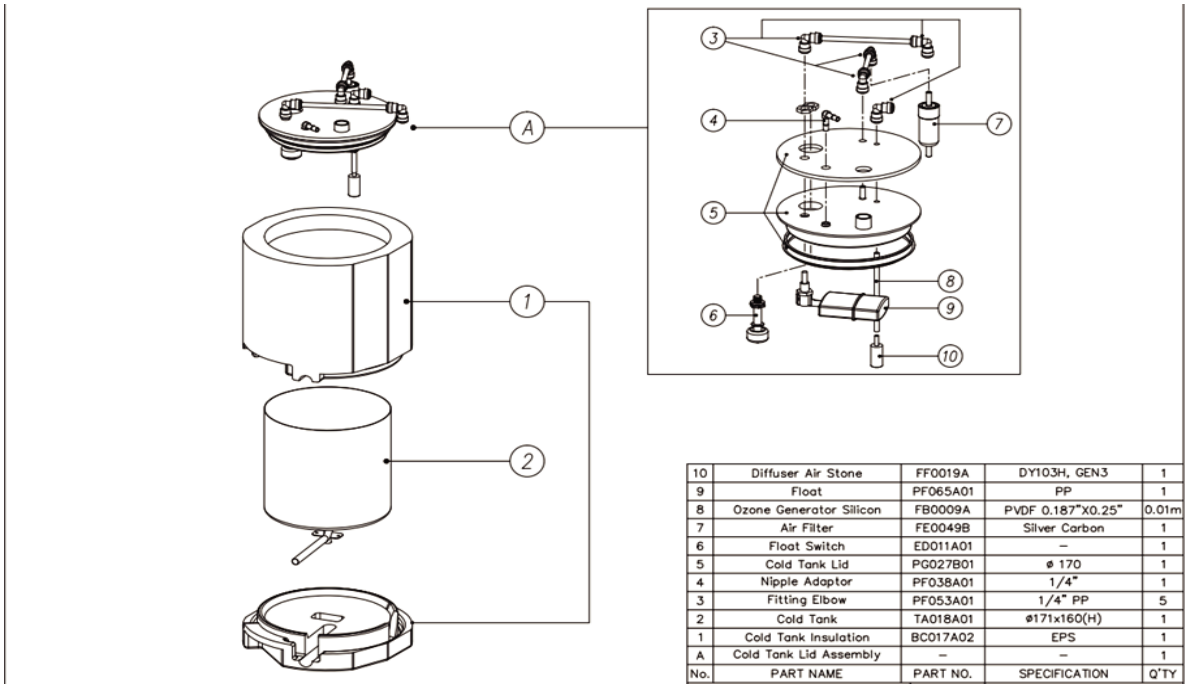

| | | | |
|---|---|---|---|
| 10 | Foot | PK055A01 | TH–15 |
| 9 | Bulkhead | PF003A01 | Double O–ring |
| 8 | Drain Valve Cap | PK063B01 | OD 9, DN–N8H9 |
| 7 | Drain Valve Body | PK063A01 | OD 9, DN–N8H9 |
| 6 | Solenoid Valve High Pressure | EC001A01 | 24VDC, 0.65W, JIE–446 |
| 5 | Leak Detector | PF033A01 | LKS–FFB–140 |
| 4 | Base Plate | IA034A01 | SBHGI t 1.0 |
| 3 | Pump Bracket | IA039A01 | SBHGI t 1.2 |
| 2 | Water Pump(Hot Water) | EE011A01 | 24VDC |
| 1 | Compressor | EA008A01 | CSB030LHQG 120V 60hz |

# PW90CT Diagrams



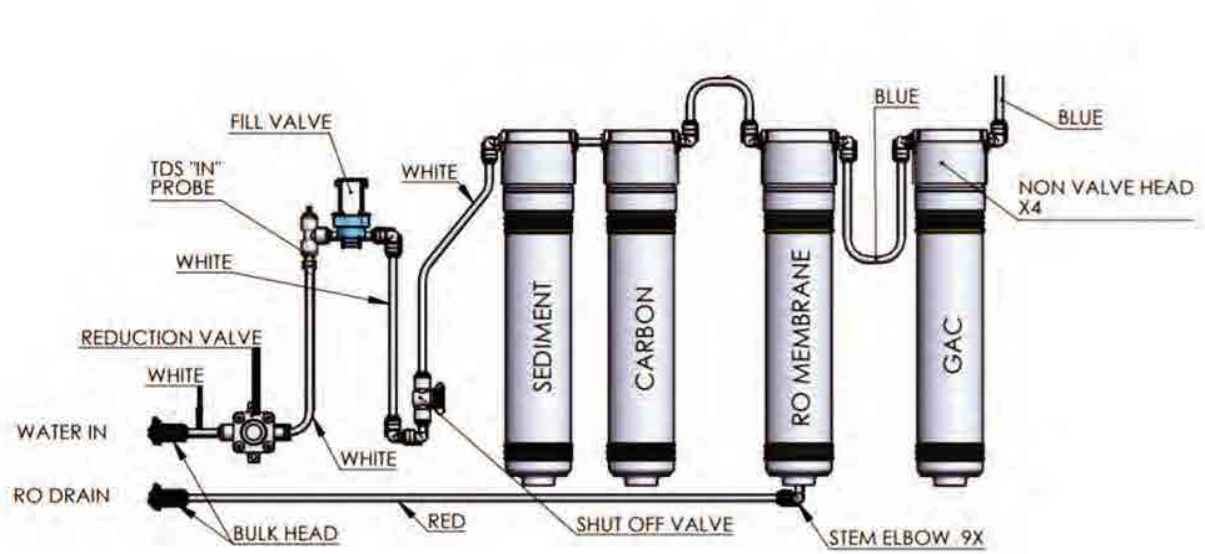

| No. | PART NAME | PART NO. | SPECIFICATION | Q'TY |
|---|---|---|---|---|
| 1 | Middle Plate | IA035A01 | SBHGI 1.1.0 | 1 |
| C | Cold Tank Assembly | – | – | 1 |
| B | Hot Tank Assembly | – | – | 1 |
| A | Dispense Assembly | – | – | 1 |

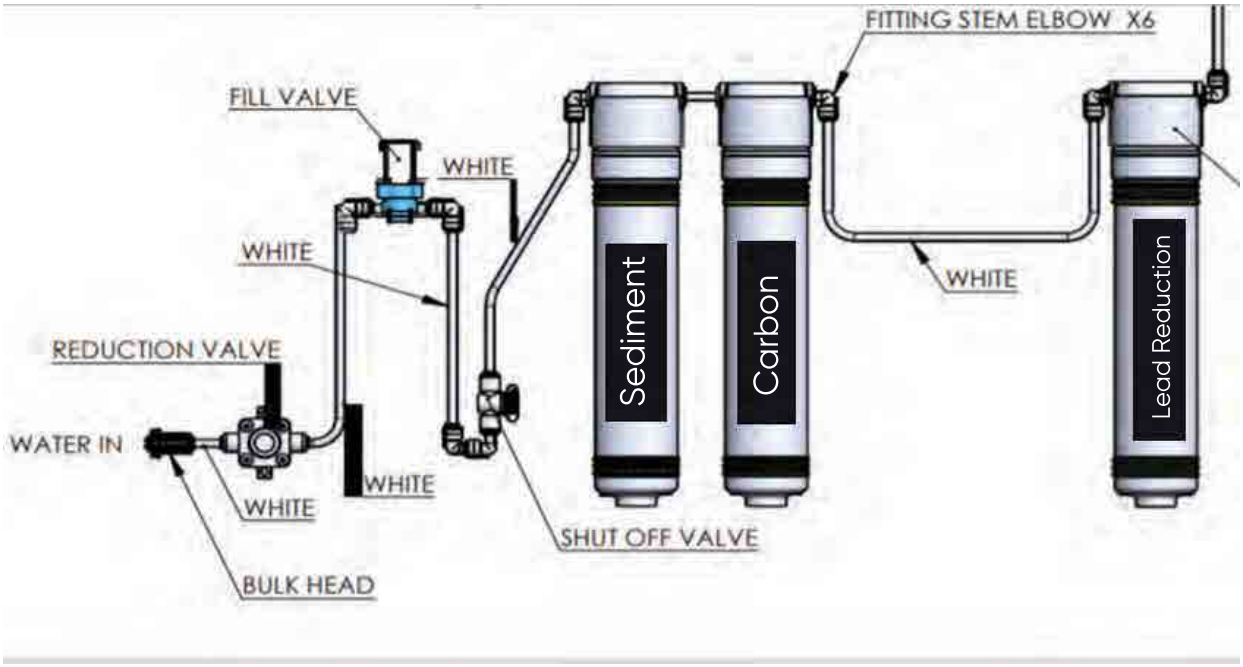
| | | | |
|---|---|---|---|
| NAME | Middle Plate Assembly | | |
| MODEL | PW90CT | | |
| REF.MDL | | DATE | 21.06.28 |
| SCALE | 1/1, (N/S) | | UNIT/mm |




| No. | PART NAME | PART NO. | SPECIFICATION | Q'TY |
|---|---|---|---|---|
| 10 | Diffuser Air Stone | FF0019A | DY103H, GEN3 | 1 |
| 9 | Float | PF065A01 | PP | 1 |
| 8 | Ozone Generator Silicon | FB0009A | PVDF 0.187"X0.25" | 0.01m |
| 7 | Air Filter | FE0049B | Silver Carbon | 1 |
| 6 | Float Switch | ED011A01 | – | 1 |
| 5 | Cold Tank Lid | PG027B01 | ø 170 | 1 |
| 4 | Nipple Adaptor | PF038A01 | 1/4" | 1 |
| 3 | Fitting Elbow | PF053A01 | 1/4" PP | 5 |
| 2 | Cold Tank | TA018A01 | ø171x160(H) | 1 |
| 1 | Cold Tank Insulation | BC017A02 | EPS | 1 |
| A | Cold Tank Lid Assembly | – | – | 1 |

# Filter Diagrams



# PW90CT Parts

| Units | |
|---|---|
| PW90CT-R | PW90CT RO |
| PW90CT-M | PW90CT microfiltration |
| Wetted | |
| RC034A01 | PW90CT - 2nd Cold to Hot Silicone |
| RC033A01 | PW90CT - Cold Outlet Silicone |
| PG027A01 | PW90CT - Cold Tank Lid |
| RC037A01 | PW90CT - Cold to Hot Silicone |
| RC032A01 | PW90CT - Cold Valve Silicone |
| EC011A01 | PW90CT - Dispense Solenoid |
| EE011A01 | PW90CT - Water Pump |
| Electronic | |
| EH009A01 | PW90 CT - (Indicator) Backlit PCB |
| EI080A01 | PW90CT - AC MAIN WIRE |
| EI081A01 | PW90CT - AC MAIN WIRE EXTENSION |
| EI083A01 | PW90CT - AIR PUMP WIRE |
| EB053A01 | PW90CT - MAIN PCB |
| EB051A01 | PW90CT - PSD LED |
| EB040A01 | PW90CT - PSD Sensor |
| EI079A01 | PW90CT - PSD Sensor Wire |
| EI036E01 | PW90CT - Dispense Solenoid Wire 2 |

| Panels | |
|---|---|
| IA031A01 | PW90CT - Side Panel Left |
| IA032A01 | PW90CT - Side Panel Right |
| IA037A01 | PW90CT - Dispense Solenoid Bracket |
| PH015A01 | PW90CT - Faceplate |
| PW90CT - Foot | PK055A01 |
| PA009A01 | PW90CT - Top Lid |
| PH025A01 | PW90CT - Upper Front Deco |
| AB008A01 | PW90CT - Upper Front Assembly |
| AB009A01 | PW90CT - Drip Tray Assembly |
| O-Zone | |
| GA026A01 | PW90CT - Air Purge Silicone Insulation |
| RB026A01 | PW90CT - Air Purge Silicone |
| EI083A01 | PW90CT - AIR PUMP WIRE |
| EI086A01 | PW90CT - OZONE GENERATOR WIRE |



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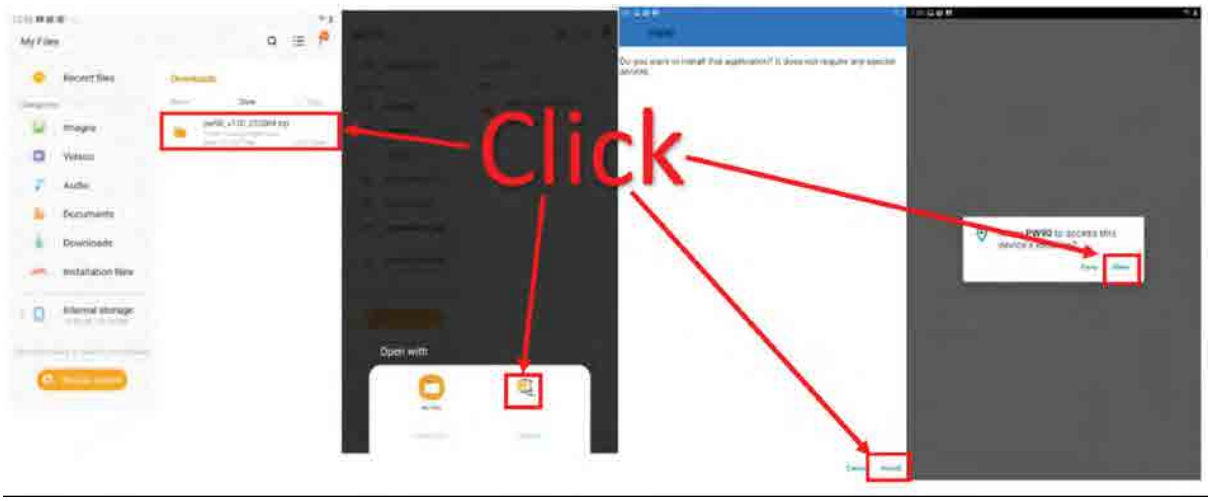
# Installing the PW90 App

Note: App must be used on an Android device. Call or e-mail tech support to receive the file.

- Download the zip file
- Install a zip file if your device does not currently have one.
- File will be located in your download file.
- Click on the file to download and install it
- Allow access to your device's location.



# Additional PW90CT Programing Features

## Dispense pump flow rate change

1. The dispense pump flow rate can be adjusted to a slower flow rate. This may be needed in a waiting room environment where smaller cups are provided to the user. The dispense rate can be adjusted without opening the system, by using a sequence of motions with the sensors.
2. To lower the dispense pump for cold water for 4 L/min to 2 L/mini. Place both hands over hot select and dispense sensors simultaneously until audible chimes are heard, remove hands and repeat process until audible chimes are heard.

## Deactivate tone

1. Turning o the activity tone. The PW90CT purposefully makes a 'ding' noise when a sensor is activated in order to give audible feedback to the user. In a very quiet environment this feature may be unwanted. The audible tone can be deactivated without opening the system, by using a sequence of motions with the sensors.
2. To deactivate the tone, hover over the "Hot Select" sensor for 1 second. Within 7 seconds, wave your hand over the "Dispense" sensor 5 times. Once this action is completed, the activity tone should be deactivated.

**SERVICIO DE REPARACIÓN Y POST-VENTA**
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