



Model D3-AD6
Automatic Clean
Water Distiller

Owners Manual



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ATTENTION:

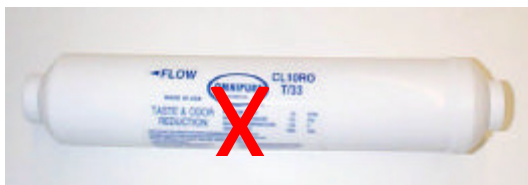
IMPORTANT INFORMATION

**Please Note:
If you are on a well,
you will require a Inline 5 Micron Filter
& 550ml Flo Restrictor.**

ATTENTION:

For Dental & “0” TDS Applications

DO NOT use Post Carbon Filter



***Post Carbon Filters are used strictly for
drinking water applications.**

D3-AD6 Water Distiller Automatic Clean

Installation Instructions

Introduction to the D3

The Glacier D3 comes packaged complete and ready for installation. There are a few unique items that should be addressed before installation begins.

The Glacier D3 will only operate while attached to the **COLD WATER** line. Attaching the unit to the **hot water** line will make it inoperable.

The Glacier D3 is a self-cleaning unit. This means that the D3 will do a back wash to the boiler each time the float level in the storage tank reaches its high water mark. This prevents the build up of sediment and contaminants in the boiler, allowing for better performance and longer life of the unit. Although the D3 is self-cleaning, it does require a manual clean annually. The cleaning instructions can be found on Page 8.

The Glacier D3, as a water-cooled unit, eliminates most of the heat normally associated with distillation. Therefore installations in cabinets and closets are possible. Many units are also installed on shelving or counter tops in out of the way areas.

Remember there are three (3) necessary items needed for installation:

- (1) a COLD waterline**
- (2) electricity**
- (3) a drain.**

Unpacking the D3

The D3 is shipped complete containing the following:

- The D3 boiler and storage/condensing tank
- Automatic drain pump assembly
- Demand pump
- Faucet, Cold water and Drainage hookup kits
- Pre-filter (sediment)
- Post filter (carbon)
- Owner's manual

Available Options:

- Floor drain solenoid valves
- Refrigerator hook ups
- Replacement filters

Determine the location of installation:

Evaluate the location in which you wish to install the Glacier Water Distiller. Remember that there are, three needed items:

- 1) Cold water source,
- 2) Electricity
- 3) A Drain.

If drainage is below the level of the Glacier boiler when installed, an optional drain valve solenoid MUST be used. The automatic clean cycle is a gravity feed to either the drain pump (provided with all units), or to the optional solenoid.

For drainage above the boiler the drain pump must be used.

For drainage below the boiler the SOLENOID must be used.

Failure to install in this manner may create a continual siphoning effect hindering the proper operation of the distiller.

Preparation:

Begin by assembling the Drain Pump assembly (figure #7).

A. Attach check valve 6 (see install diagram) and tubing to outlet side of drain pump. fig #7



The check valve must have it's flow arrow facing away from pump.

B. The end of the check valve tubing will go to the 3/8" drain clamp (figure #3). This clamp must be installed above height of boiler tank on distiller.

C. Remember if using a drain below the level of the boiler assembly use the optional solenoid valve at this time instead of the red AD pump.

Locate COLD water line and install the provided C-clamp style saddle valve.



fig #1

DO NOT OPEN SADDLE VALVE AT THIS TIME!

Locate drain and install drain saddle valves as high as possible.) This is for under the counter installations.

fig #2



fig #3



After installing the drain clamps remove the tube nuts and drill through drain pipe.

A. 1/4" line from storage tank cooling coils (Tubing at Brass T fitting on top of Storage Tank)

B. 3/8" line from Drain Pump. (line with check valve)

Locate nearest electrical supply.

If there is no electrical outlet available have an authorized electrician install a GFI receptacle. If installation will be under the counter, install the faucet kit (figure #4) to counter top using the 3/8" tubing and white 10" carbon filter provided with the distiller. Note: tubing MUST be cut cleanly and evenly to prevent possible leakage.

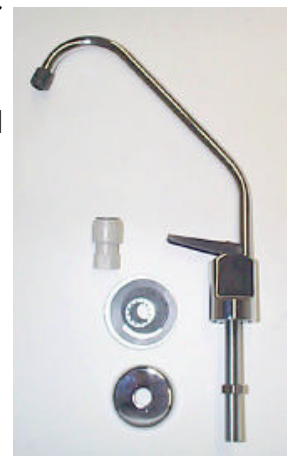


fig #4

Installation:

Remove Storage Tank and Boiler from shipping box. Place boiler to the left hand side on top of the storage tank with power cord facing forward.



Water Feed Line

(1) Connect 1/4" O.D. poly tube from the storage tank control box to the C-type saddle valve attached to the cold water line (fig 1).

Install 1/4" shut-off valve between Saddle valve and pre-filter.



(2) Connect 1/4" O.D. tube from left side of junction box to boiler fill fitting on the top of the boiler (fig#10).

(Stainless Steel extension located at the end of this tube attaches to boiler.)



**Note: Plastic compression fittings are provided for Pre & Post Filters, T-tape must be used where fittings thread into filter.

Drainage Line

Connect 1/4" O.D. poly tube which is attached to the brass fitting on top of storage tank to 1/4" fitting on the drainage saddle clamp (fig #2). (Note if you need to extend the length of this line, the flo-restrictor must stay in this position and should not be removed for any reason).

Automatic Drain Line

Connect the enclosed 3/8" stainless braided tubing from chrome shut-off valve (fig #8) on the front of the boiler tank to front of the drain pump (fig #7). Connect check valve to the 3/8" fitting on the drain saddle (fig #3) located on the drainpipe.



Release water into unit by turning on water from water feed C-type saddle valve.

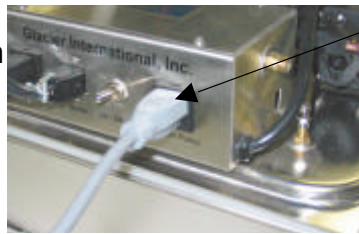
Connect Electrical Lines Make sure the ON/OFF/SB switch is in "OFF" position.

Plug in the four-pin connector located on top of the boiler to the front of the control box on the distiller. (4-prong plug) (fig #13).

Plug main cord (fig #14) from junction box on distiller (male) into your power outlet.

DO NOT PLUG in heating element cord (fig #11) from boiler tank to the control box at this time.

Plug in the drain pump. (Fig #7) into front of control box.



****NOTE:** On the D3-AD6, the SB position on the main switch is used when the distiller is out of distilled water. In this position, the distiller will make water but the demand pump is shut off. You cannot dispense water from the faucet while in SB.

Turn unit to the “on” position, the boiler tank will be filling with water. When completely full, the solenoid valve will shut off water flow to boiler.

Prime demand pump

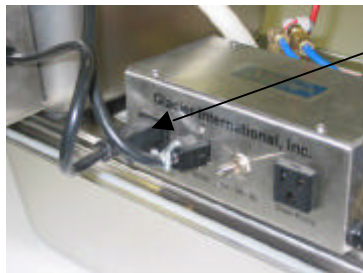
(Fig #15) - this is accomplished by filling the distillation storage tank with two gallons of distilled water through the steam tube (fig #9) with a funnel. Attach steam tube. Open faucet then switch distiller to the ON position. Let water run one half (1/2) minute then close faucet.



Priming will also flush loose carbon out of the post filter. Turn unit OFF. Pump will shut off when there is enough back-pressure. Check all lines and connections for possible leaks.

PLUG BOILER POWER CORD INTO BOILER OUTLET

Approximately 15-20 minutes later, the boiler will be making steam. At this time check the Automatic-Drain (A.D.) system.



The A.D. system won't engage until the temperature in the boiler reaches 195 degrees. A good indicator is when the steam tube gets hot.

To check the A.D. system, lift storage tank float switch (fig #5) located on the right side of junction box. This will engage the A.D. pump, which will lower the water level of the boiler (make sure the chrome valve on the boiler is open, and check for leaks). Hold storage tank switch up, you will hear the float solenoid click on. As temperature of boiler tank is lowered, about 180 degrees, A.D. pump will shut off. Listen for any indication of the boiler tank refilling. If the boiler tank refills it will be from siphoning. (see Preparation-Page 3). Wait until the boiler cools to about 120 degrees. This will shut off all solenoids. At this point, you have simulated a full distillation cycle and the system is working correctly.

***Note: The unit will not work if siphoning.
Drain clamp must be installed above height
of boiler tank on distiller***

Trouble Shooting D3-AD6

D3 Automatic Drain

When trouble shooting a Glacier Distiller, make note of the following before attempting to solve any difficulty that you might be experiencing. Make sure that the unit is turned on.

The toggle switch should be in either the on or S/B position.

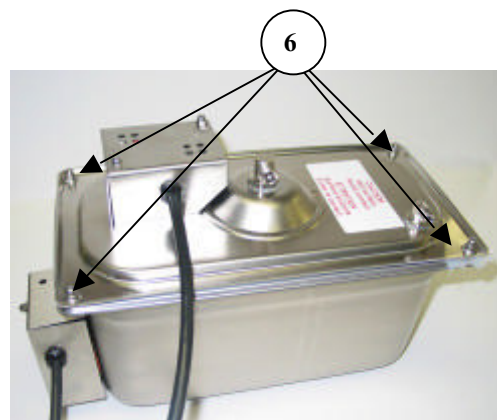
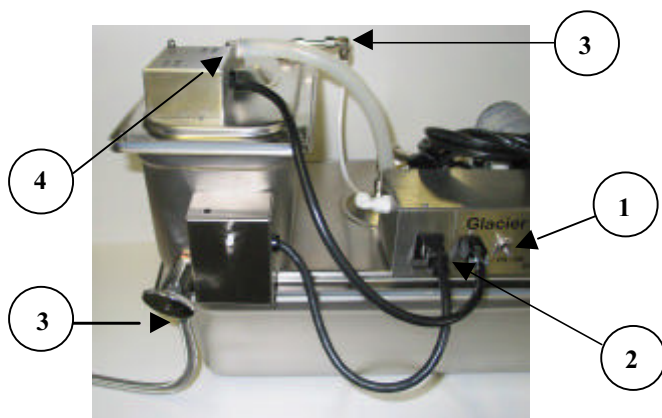
Make sure the unit is plugged in and that the circuit breaker is turned on. Make sure the unit has been plumbed to the **COLD WATER** line and is turned on to the unit.

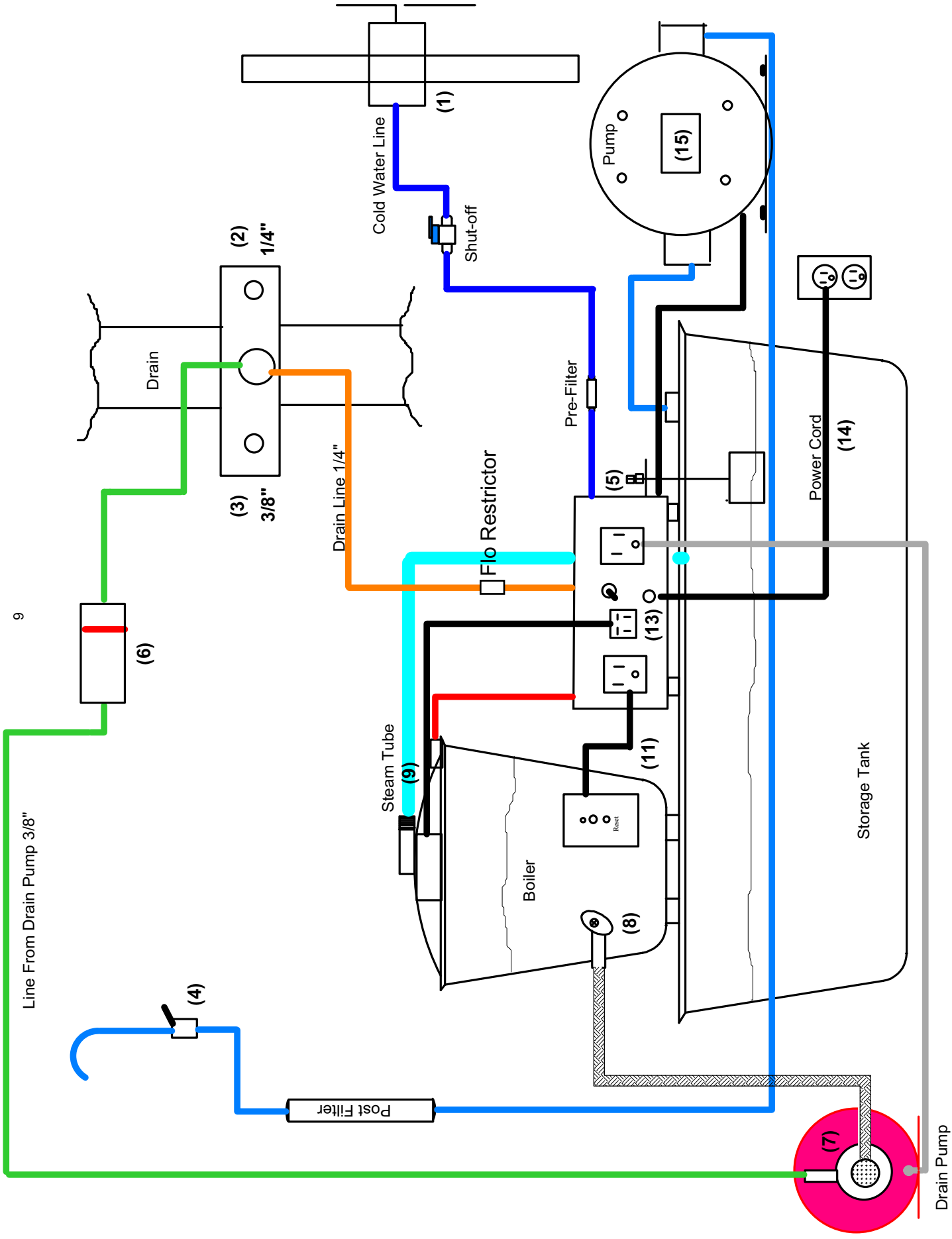
Problem	Cause	Remedy
Demand pump runs constantly	Leak in lines from pump	Check all fittings and lines
	Pump out of adjustment	Adjust pump with 5/64 Allen wrench Adjustment is at the center of pump head. Turn clockwise until the pump stops.
Boiler not hot	No electricity to boiler	Check reset thermostat on the front of the boiler. Push to reset.
	Defective thermostat	Change thermostat
	Defective element	Change element
	Storage tank is full	Normal
	Storage tank float is stuck up position	Check to see if float travels freely
	Unit siphoning water	Check AD pump is draining in a higher position than boiler.
Boiler doesn't refill	Float switch is unplugged	Plug in securely
	Water is shut off	Turn on water
Red AD pump Runs constantly.	AD pump plugged in wrong	Plug into proper outlet
	Drain valve on boiler not open	Open drain valve
Unit is running Hot	Unit hooked up to HOT water	Reconnect to COLD Line
	Not enough flow through Cooling Coils	Check flo-restrictor on top of storage tank. Unclog or replace.

Maintenance

Although the Glacier D3-AD6 distiller is self-cleaning it is recommended that the boiler be descaled at least once per year.

1. Put main power switch in the off position. (center)
2. Unplug boiler electrical wires from distiller.
3. Disconnect boiler fill tube and drain line from boiler.
4. Disconnect steam tube.
5. Remove boiler from distiller.
6. Remove corner acorn nuts and open cover of boiler. (be gentle with gasket)
7. Clean inside of boiler tank. Remove excess sediment with small putty knife (being careful around element). If difficult use vinegar and water, no chemicals recommended.
8. Reassemble boiler making certain the gasket is seated properly. Do not overtighten nuts.
9. Reattach boiler to distiller and put main power switch to the on position.





Install Diagram



Fig #1 Saddle Valve



Fig #2 & #3 Drain Clamps



Fig #4 Faucet



Fig #7 Drain Pump



Pre-Filter



Post Carbon Filter



Flo-Restrictor

Lifetime Guarantee

Glacier Water Treatment Systems guarantees this unit to be free from defects in materials and workmanship and to produce high quality water of low mineral content and high clarity for a period of two years(Residential) / one year(Commercial) from the date of purchase. All stainless steel parts are guaranteed for life.

Should the unit require service under this guarantee, it must be done by your local dealer or sent to the manufacturer with all shipping charges prepaid by the owner. The owner will be billed for any repairs necessary that are not covered by this warranty. Any repairs needed caused by misuse and neglect by the owner including lack of maintenance and cleaning will not be covered under warranty and charged to the owner.



Service only by Glacier Approved Service Center
Replacement Parts use only authorized Glacier Parts

Original Proof of Purchase must accompany all work to be considered for warranty

GUARANTEE VALIDATION CARD GLACIER D3-AD6

Serial Number

Purchaser Name

Purchase Date

Address

City

State/Province

Zip/Postal Code

Purchased From

City, State/Province



To Validate Guarantee Submit Within 10 Days of Purchase

Please Fill in **ALL** the above information

In order to validate your Warranty this form must be fully complete along with legible copy of original proof of purchase.

Submit To:

Glacier Water Treatment Systems
Warranty Dept.
1303 Ringwell Drive
Unit 1
Newmarket, ON L3Y 8T9
Canada