

**DoTolo
RESEARCH CORP.**



OWNERS MANUAL

TOXYGEN Model BSC-UV

**USA PATENT #41900059
CANADIAN PATENT #1131083**

INSTRUMENT SERIAL # _____

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DISCLAIMER

Dotolo Research Corporation assumes no responsibility for misinterpretation of the information contained herein. The company expressly recommends that all contraindications for colon hydrotherapy be observed and further that any prescription of oxygen or supplements be at the direction of a physician only. The treatment protocol section of this manual is to be used in conjunction with the licensing and practical training requirements established by regulatory authorities. Regulations covering colon hydrotherapy vary from state to state and should be observed accordingly.

IMPORTANT RECOMMENDATIONS

1. To ensure proper functioning of this equipment manufacturer strongly recommends following Installation and Instruction Manual.
2. Following the recommended cleaning and filter maintenance procedures will help the longevity of this equipment.
3. Disposable kits are **SINGLE USE ONLY PRODUCT!** Dotolo Research Speculum Kits are an integral part of the Toxygen Instrument. **The Toxygen warranty does not apply if any other types of Disposable or Non-Disposable Speculum or Speculum kits are used. Nor does the company assume liability for property damage or personal harm to user or patient.**
4. Manufacturer recommends that anyone using this equipment be trained according to training guidelines as set forth by an approved state licensed school offering programs in colonic irrigation.
5. The carbon filter can be adversely affected if the instrument sits unused for a month or more. DRC recommends replacement of the carbon filter before first use of a instrument that has been idle for more than 30 days.

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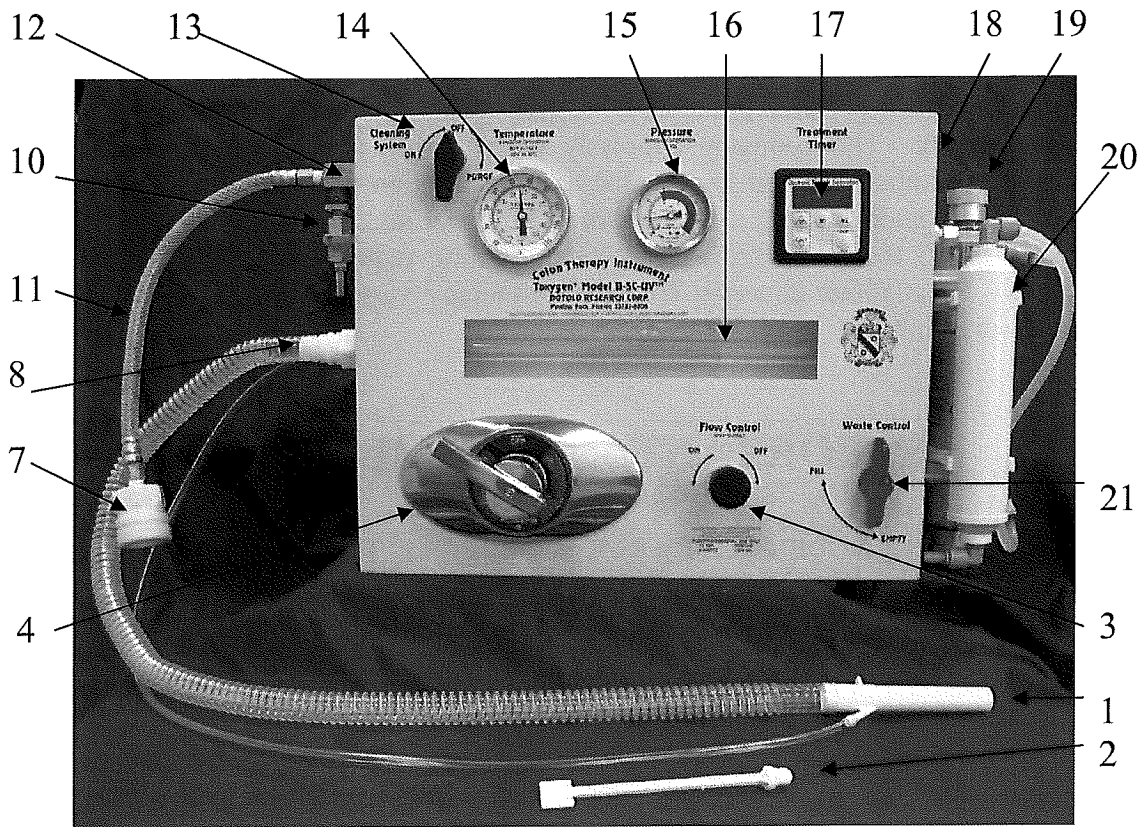


Figure 1 – Exterior View of the Toxygen Model BSC-UV

- | | |
|---|----------------------------------|
| 1. Disposable Speculums | 12.Cleaning System Injector |
| 2. Disposable Obturator | 13.Cleaning System Water Valve |
| 3. Flow Control Valve | 14.Temperature Gauge |
| 4. Master Mixing Valve | 15.Pressure Gauge |
| 5. Disposable Water Line | 16.Observation Tube |
| 6. Disposable Waste Line | 17.Timer |
| 7. Female Quick Disconnect | 18.Observation Tube Light Switch |
| 8. Male Quick Disconnect | 19.Ultraviolet Light |
| 9. N/A | 20. In-Line Carbon Cartridge |
| 10.On/Off Valve for Germicidal Solution | 21.Waste Control Valve |
| 11.Cleaning System Line | |

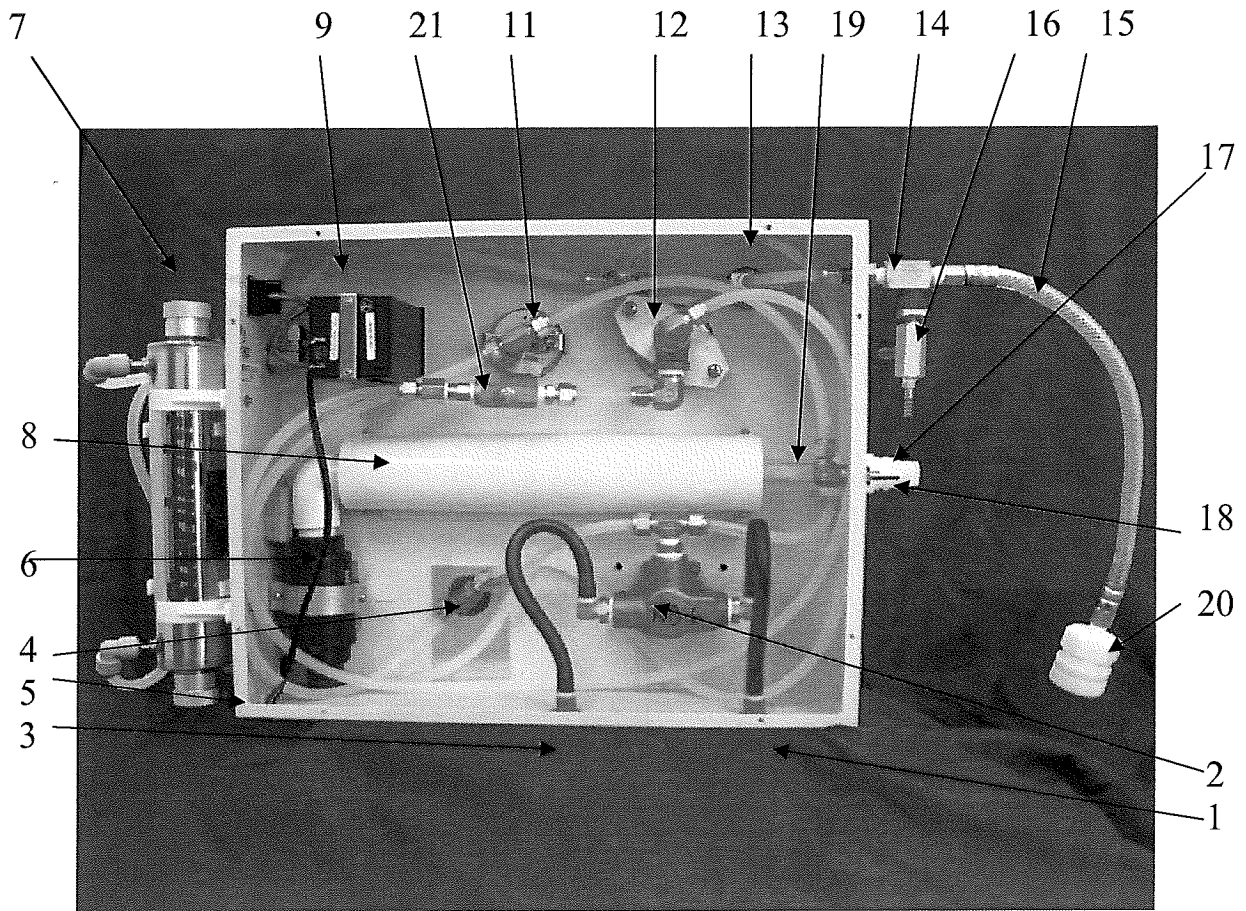


Figure 2 – Internal View of the Toxygen BSC-UV

- | | |
|------------------------------------|---|
| 1. Hot Water Connection | 11. Pressure Gauge |
| 2. Master Mixing Valve | 12. Temperature Gauge |
| 3. Cold Water Connection | 13. Cleaning System Off/On Valve |
| 4. Flow Control Valve | 14. Disinfectant Injector |
| 5. Transformer Jack | 15. Cleaning System Hose |
| 6. Waste Valve | 16. On/Off Injector |
| 7. UV Filter Housing | 17. Male Waste Hose Connection |
| 8. Backlight Diffuser | 18. Water Outlet Hose Barb |
| 9. Timer | 19. Observation Tube |
| 10. Internal Flow Control Assembly | 20. Cleaning System Female Quick Disconnect w/check valve |
| | 21. Internal Flow Control w/check valve |

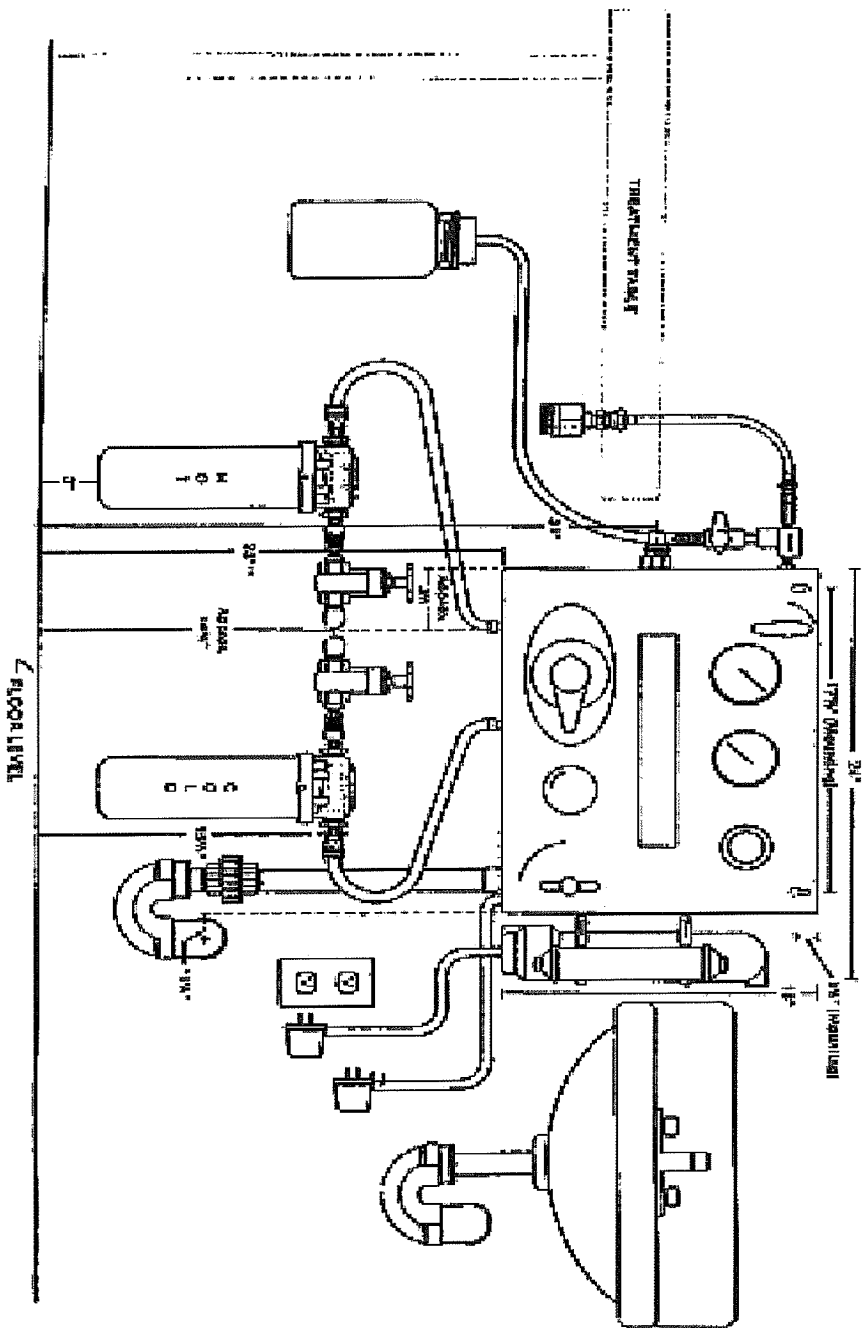


Figure 3 - Installation Diagram

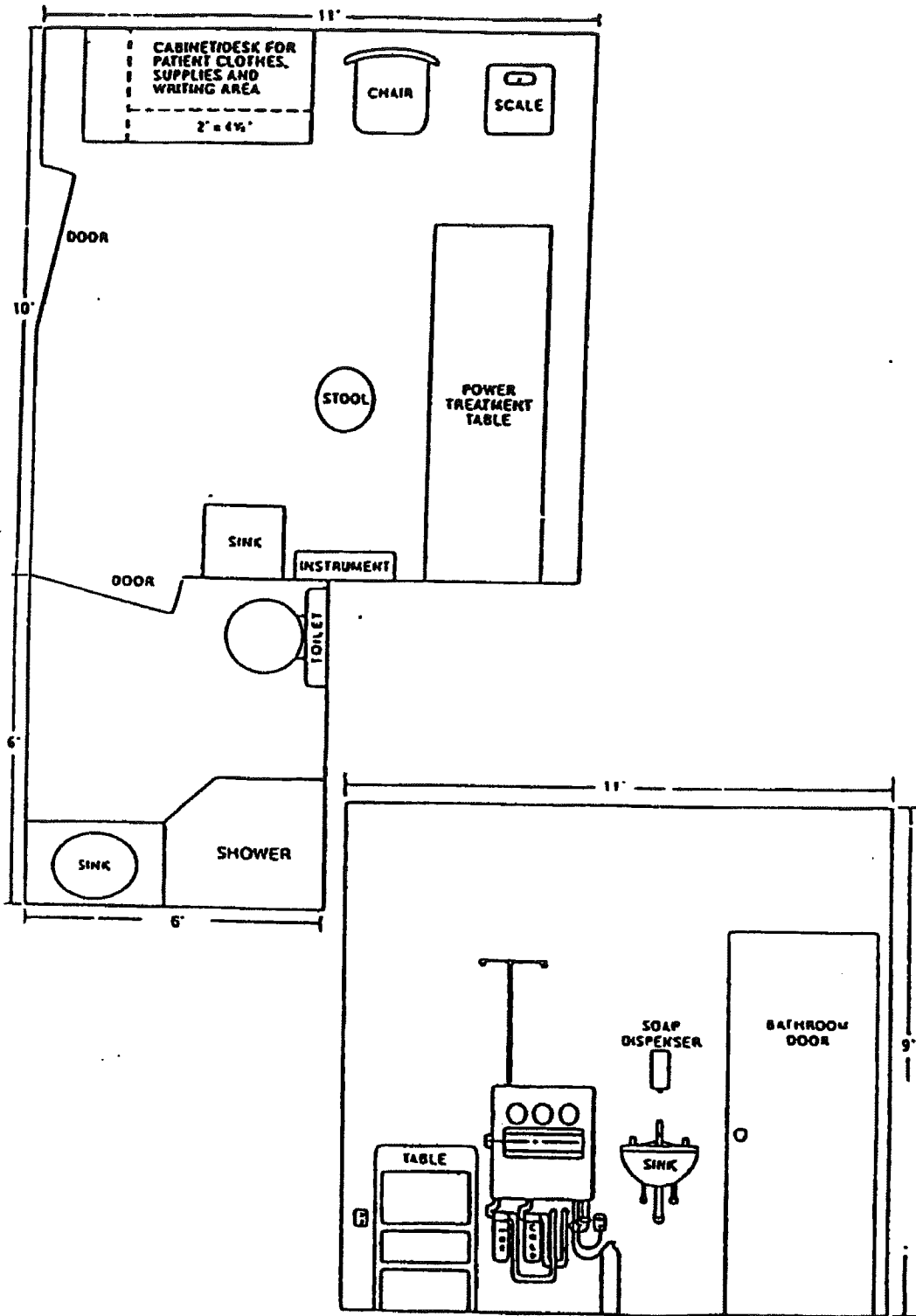


Figure 4 - Sample Room Layout

INSTALLATION PROCEDURE

The Model BSC-UV is designed for easy installation. It should be installed in a manner that will afford easy disconnect; periodically it will be necessary to remove the instrument from the wall for general repairs and maintenance.

INSTALLATION SYNOPSIS

1. Rough in plumbing
2. Mount instrument on wall
3. Mount filter system on wall
4. Connect instrument to drain
5. Connect water supply to filter system
6. Connect filter system to instrument
7. Position electrical outlet below right of instrument

MOUNTING

The cabinet should be mounted level on the wall so the waste hose connection (observation tube) is level with the surface of the treatment table. (SEE FIG. #3)

The cabinet can be mounted to the wall with two (2) toggle bolts, expansion bolts or screws depending on the wall material. If screws are used, they must be solidly attached to support the instrument's weight (32lbs.).

PLUMBING

NOTE: Warranty is only valid when the Toxygen is installation by a licensed plumber/contractor; adhering to all local plumbing and building codes.

ATTENTION PLUMBER:

1. On/off water supply valves and the drain trap must be located per specifications in Figure 3.
2. Water supply lines should be no less than 3/8". **It is important that both hot and cold water supply lines be of 50 PSI and a maximum hot water temperature of 145 degrees Fahrenheit.**
3. Flush all piping thoroughly before connecting the water supply to filter system.
4. **MANUFACTURER STRONGLY RECOMMENDS THAT WATER FILTERS BE USED IN THE WATER SUPPLY LINES.**

Figure 3 Notes:

- These dimensions are accurate assuming a 1 1/2" trap is utilized. Adjust accordingly if a larger trap is used.

WATER SUPPLY / DRAIN

FILTER SYSTEM / WATER SUPPLY

Attach provided female quick-connects (1/4" MPT) to the building water supply valves (Manufacturer recommends that ball type valves be used). Now connect these lines to the mounted filter system. NOTE: 'IN' and 'OUT' indicated on filters. Connect red (hot) and blue (cold) water hoses to filter system (See Fig. #3). Be sure that the flow control valve and the waste system are both "OFF" and the waste valve is in the "EMPTY" position before attempting to connect water lines.

DRAIN

A 1" PVC pipe extends from the bottom of the instrument. Instrument is supplied with a 1" PVC union.

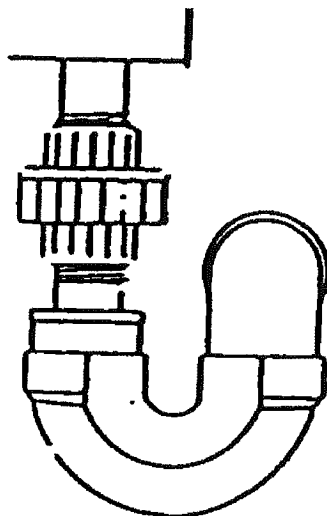


Figure 5 - DRAIN CONNECTION

NOTE: The drain pipe may be connected to a 1" pipe by means of a 1" PVC union then to a 1 1/4" or larger trap. Locate and install trap for maximum drainage.

ELECTRICAL

For optimum patient safety, the instrument must be plugged into a ground fault protected receptacle with a protective earth conductor (earth ground).

ULTRAVIOLET LIGHT INSTALLATION

Please read all instructions before mounting the ballast or using the lamp. (Refer to figure 6 on page 12) **The UV light must be on at all times, not just during treatments. Turning the light on and off will shorten the lifespan of the lamp.**

CAUTION:

1. Do not mount the ballast in an area where it might be exposed to moisture. The ballast should be mounted either above or next to the housing.
2. It is strongly recommended that the power source the ballast is plugged into be ground fault protected. The receptacle must be grounded.
3. If the lamp is left on between sessions, make allowances for the water in the chamber, as it will heat up due to heat dissipation from the lamp.
4. Handle the UV lamp by the plastic ends. Do not touch the glass. Oils from your fingers may impair UV transmission. If the glass is touched, clean with alcohol.
5. When mounting the ballast, be sure to leave enough cord to insert and remove the lamp.

INSTALLATION INSTRUCTIONS

1. Remove the ballast from the accessory box and mount near the UV housing canister.
2. Remove the blue dust cap from the top of the housing canister.
3. Remove the UV lamp from its shipping container and plug it into the black lamp connector.
4. Insert the UV lamp and the lamp connector into the housing on top of the UV housing canister by first pulling the retaining u-wire partially out of the black lamp connector. (See Figure 6)
5. To properly ground the UV housing, attach the green/yellow wire coming from the lamp connector to the grounding lug on the top of the housing. Using a 5/16" wrench, remove the nut and slide the eyelet connector onto the screw. Retighten nut.
6. Connect the ballast's power cord to a de-energized power source.
7. Turn the power on and verify the LED indicator on the ballast is lit.
8. The UV filter is now ready for use.

The UV lamp has a rated life of approximately 8000 hours. The ballast will let you know when it is time to change the lamp.

The lamp circuit consumes 16 watts of power (lamp-14 watts, ballast-2watts). The lamp frequency is 254 nanometers, with an intensity of 30,000 microwatts/centimeter squared.

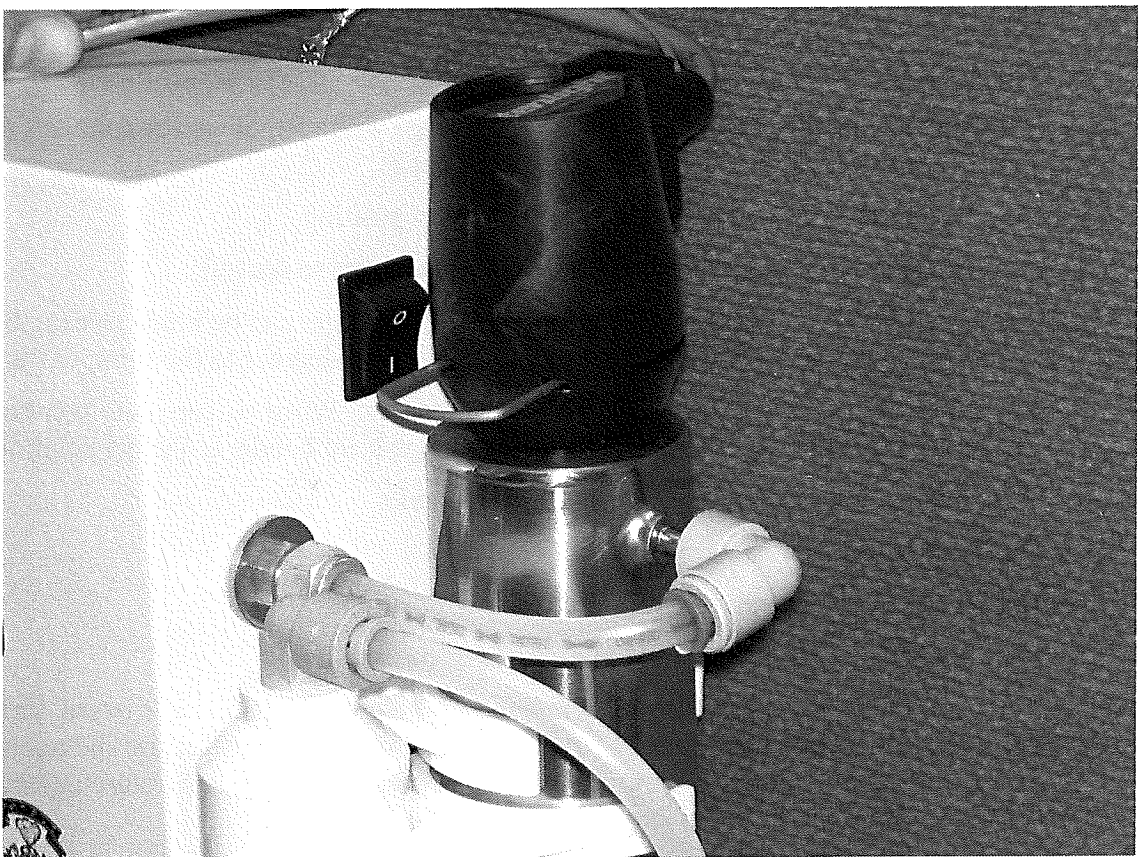
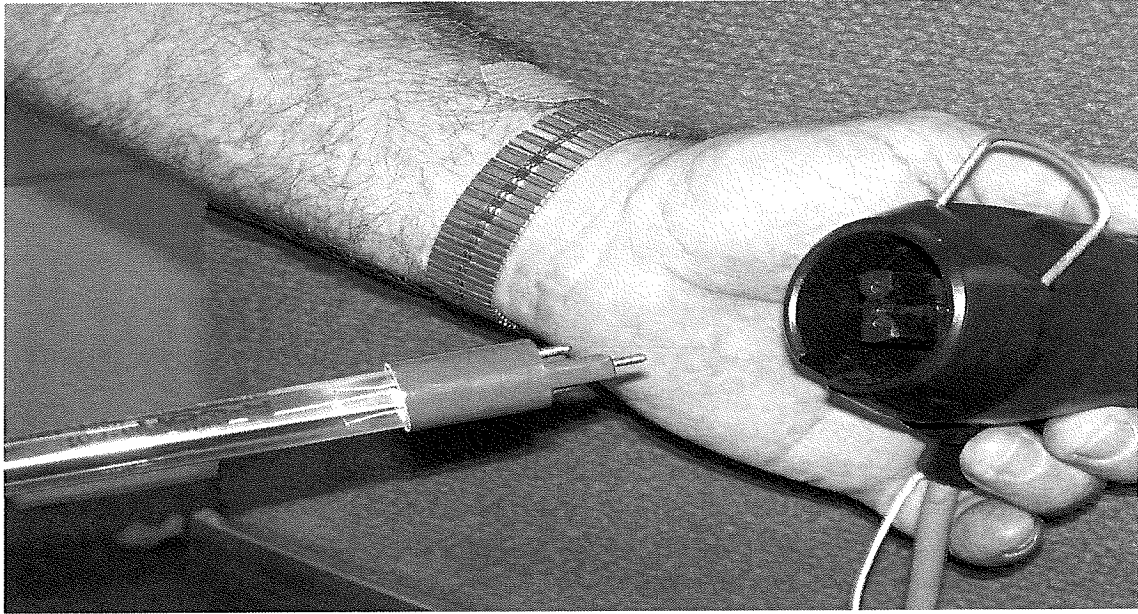


Figure 6 - UV-BULB INSTALLATION

RECONNECTING THE CLEANING SYSTEM HOSE

TOOLS NEEDED

5/8" Wrench

7/8" Wrench

1. Screw the cleaning system hose onto the male threads on the injector.
2. Use the 7/8" wrench to hold the injector block to keep it from turning.
3. Use the 5/8" wrench to tighten the connection between the hose and the injector.

Purging the Air from Filter Housing and Internal Water Lines

The following steps should be taken after all the water lines have been hooked up but before the instrument has been turned on for the first time. The 12-step procedure below is very easy to accomplish and should take no more than 10 minutes. (Please refer to diagram on page 5 and 6 of the manual to locate machine parts listed below.)

1. Turn the hot and cold water on at the source.
2. Make sure the valve is set at 100° degrees.
3. Hook up the cleaning system by attaching the large white female quick connects (figure #1, item 7) to the male quick connect (figure #1, item 8).
4. Make sure the waste control valve is in the empty position.
5. Turn the cleaning system on (turn the handle 90 degrees to the left).
6. When the particle filters are full of water and air no longer can be heard passing through the instrument, turn the cleaning system on/off handle 180 degrees to the right, to Purge.
7. Air is now being pushed from the internal water lines. When air can no longer be heard passing through the water lines, turn the cleaning system handle to the off position (vertical).
8. Disconnect the female quick connect from the male.
9. Hook up the water warmer.
10. Make sure the waste valve is still in the empty position.
11. Slowly open the flow control valve a couple of turns.
12. Turn the master valve to its lowest temperature (below 70). If no air is heard, turn the master valve to its highest temperature (110° degrees). If no air is heard, return the temperature to 100° degrees. Instrument is now ready to for the master valve temperature adjustment.

IMPORTANT: PLEASE READ

It is very important to purge as much air from the system as possible before opening the flow control valve. Every time there is a change to a filter or part on the instrument, turn the cleaning system handle to the right until it stops. When no air passes through the water lines, turn it off. Attach the water warmer making sure the waste valve is in the empty position, and slowly open the flow control valve. Purge the rest of the air from the system. The instrument is now ready for use. Failure to do this may damage the pressure gauge and may void the warranty.

After you have completed the Twelve Steps, no air is in the entire system (including the water lines, particle filter, granulated carbon filters, UV light and all the valves).

Remember; complete this process every time you change the filters, move the machine off the wall or do anything that will allow air into the instrument or its various parts.

If you encounter difficulties, please refer to page 27 for Trouble Shooting Tips or call Dotolo Research Western Division for technical support.

MASTER VALVE ADJUSTMENT

After the air is purged from the water lines and instrument, it is time to recalibrate the master valve for your water conditions. NOTE: The valve is currently calibrated for the water conditions at our manufacturing facility.

This valve has a shut-off capability. If the valve handle is in the off position, water will not flow through the instrument. Before starting a treatment, make sure the master valve is set to the proper temperature.

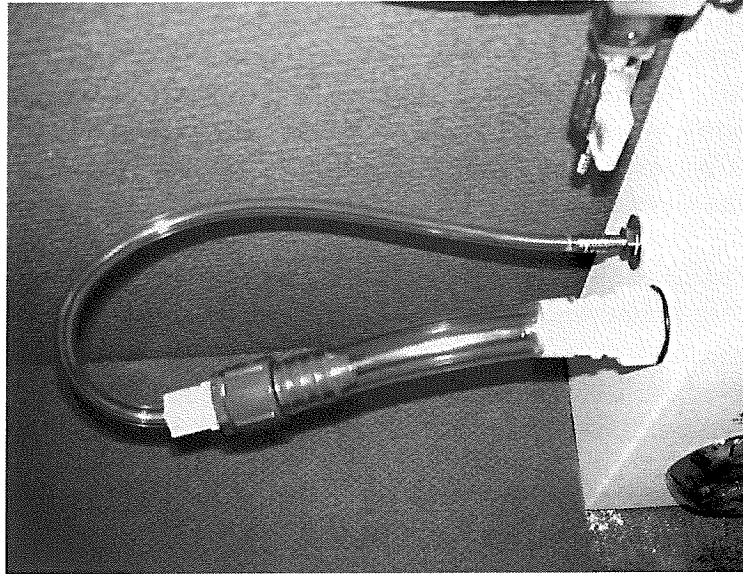
When adjusting the master valve, make sure the water temperature has stabilized. If you make adjustments before the temperature has stabilized, it will be difficult to obtain the proper temperatures.

Once the water flowing through the instrument has stabilized, remove the handle. This is done by removing the handle screw and pulling the handle towards you.

Adjust the valve until the TEMPERATURE GAUGE indicates 100 degrees. When replacing the handle make certain it points to 100.

Replace the handle and tighten the lever handle screw. Check the settings to make sure that they didn't change. When the master valve handle is set at 100 degrees, the temperature should be accurate within 1 degree (plus or minus). ALWAYS RELY ON THE TEMPERATURE GAUGE.

DAILY PROCESS FOR WARMING THE WATER PRIOR TO FIRST COLONIC



The water warmer is a small assembly consisting of a 1/4" tube, a 3/4" tube, and fittings to connect them.

1. Attach the cleaning system, make sure that the waste valve is in the empty position, and turn on the cleaning system.
2. Once the water going through the observation tube is warm, turn the cleaning system off and attach the water warmer.
3. With the waste valve in the "EMPTY" position, turn the flow control valve to the open position.
4. Once the water temperature has stabilized, turn the flow control valve off and disconnect the water warmer.

The instrument is ready to use.

INSTRUMENT CLEANSING PROCEDURE FOR TOXYGEN MODEL BSC-UV

The Model BSC-UV Disinfection/Cleaning System is virtually self-contained. Included is a one-quart container with cap and clear tubing. Fill the bottle with water up to the red line. Add 2 ounces of Cetylcide to the bottle.

1. Be sure the Flow Control Valve is in the “off” position and the Waste Control Valve in the “empty” position.
2. Connect cleaning hose to the male disconnect.
3. Turn the cleaning system water valve to “on” position and allow water to flow through viewing tube and drainage system of instrument for approximately 1- 2 minutes. It may be necessary to throttle (turn on and off quickly) the waste valve if there is solid matter in the view tube. This action will agitate the water and loosen any matter left in the tube.
4. Engage germicidal solution injector valve (yellow knob should be pointing down) allowing solution to enter the viewing tube for approximately 3 seconds. Turn red waste control valve immediately to “fill” position. Viewing tube should now be filled.

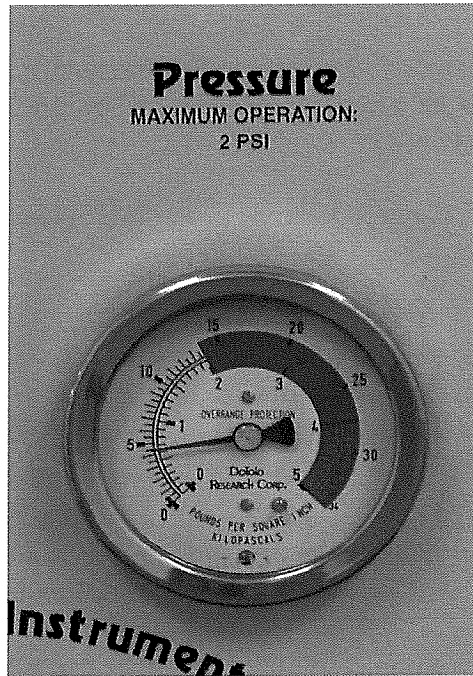
Note: If view tube is not completely filled it may be caused by trapped air. Throttling the waste valve (see #3 above) with the cleaning system valve on will release the trapped air and allow the disinfectant solution to fill the tube.

5. Turn the cleaning system water valve (upper left hand corner of instrument) to the “off” position. Disengage the germicidal solution injector valve (yellow knob pointing right).
6. Allow germicidal solution to remain in the viewing tube and drainage system for 10 minutes.
7. After disinfection is completed, turn red waste control valve to “empty” position. Turn the cleaning system water valve to the “on” position, allowing water to flow and flush the viewing tube and entire drainage system. On a weekly basis, the viewing tube should be cleaned with a long soft brush.

The instrument is now thoroughly cleansed, disinfected and ready to be used again. When refilling the disinfectant bottle, rinse and clean the bottle so the dirt does not build up on the bottom of the bottle and clog the injector.

Note: Recommended solution – A hospital level antimicrobial solution (Cetylcide II) effective at a 1:4 dilution. Do not leave solution in viewing tube for more than 10 minutes.

PRESSURE GAUGE



This instrument is equipped with an extremely sensitive low pressure gauge. It is very important that the initial test procedures on this page be followed very carefully!

In order to accurately measure the low pressure required for an effective colon therapy treatment the pressure gauge in Dotolo Colon Hydrotherapy equipment is extremely sensitive. The gauge, as well as the entire instrument, will give years of trouble free use with proper care and usage. The following guidelines should be used to insure long and trouble free use.

1. After initial installation of the machine there may be air present in the plumbing lines leading to the instrument. The air **MUST** be purged from the instrument to prevent surges in the pressure that may damage the gauge. Turning on the cleaning system for several minutes can purge a great amount air. The pressure gauge is not part of the cleaning system; therefore any possible air in the lines will not harm it.
2. **FAILURE TO PURGE AIR FROM THE MACHINE PRIOR TO USE IS THE MAIN CAUSE OF BROKEN PRESSURE GAUGE.**
3. The gauge is a vital part of a colon therapy treatment. It not only measures the pressure of the water but sudden changes in the pressure may indicate the presence of fecal impaction or gas. During a treatment, the therapist should be very attentive of the pressure gauge because any sudden change in the pressure, particularly during a fill cycle, may indicate the presence of gas and/or impactions. When these changes are observed, the waste control valve should be turned to the empty position thereby relieving any back pressure and preventing possible damage to the gauge.

OPERATING INSTRUCTIONS FOR THE UV BALLAST

The ballast tracks the number of days of operation of the lamp and the ballast. The default screen will display the total lamp life remaining (in days). The ballast will count down the number of days remaining until the lamp requires changing (365 days to 1 day). At 0 days the ballast will indicate A3 on the display and supply an intermittent audible chirp (1 second on, 5 seconds off), indicating the need to change the lamp.

Once the A3 or end of lamp life message is shown on the LED screen, the audible alarm can be deferred up to 4 separate times. This can be done by simply depressing the push-button "RESET" switch, which is located on the left side of the ballast. Each time the reset switch is pressed the ballast alarm is deferred 7 days. Once the final 7 day deferral has been reached, the alarm can only be silenced by changing the UV lamp and manually resetting the timer.

To reset the timer, please follow the instructions below:

1. Unplug the ballast.
2. Remove the old lamp from the filter housing.
3. Install the new lamp.
4. Hold down the reset button while reapplying power to the ballast.
5. Keep the button depressed until you hear an audible tone and the LED display reads 365 again.

Once you hear the tone, release the switch and the counter will be reset. The delay switch is designed to stop the alarm while a new lamp is being sent.

TOTAL HOURS OF OPERATION (days)

The ballast also displays the total running time of the ballast. To obtain this reading, press the reset button once. The total running time of the ballast will be numerically displayed in days. This information will remain displayed for 10 seconds and then revert back to the life remaining default screen. **It should be noted that this value cannot be reset.**

LAMP FAILURE (Blank Screen)

When the system recognizes Lamp Failure (no current running through the lamp) the display will be blank and the system will supply an intermittent audible tone (1 second on, 1 second off). The system will remain in this state until the condition is remedied.

CAUTION: The UV lamp generates heat. If the instrument has been sitting unused for any period of time, the water must be circulated to avoid discomfort to the client.

MAINTENANCE

Part One of this section describes each part of the Toxygen Model BSC-UV that requires regular maintenance. Topics covered will include item name, part number, rated life, suggested maintenance schedule and troubleshooting.

Part Two of this section is a maintenance log for your use.

PART ONE

NOTE: Many filters are rated according to the total number of gallons of water that can pass through them before they should be changed. **However, the quality of the water supplied to the filters can cause them to require replacement more frequently.** Another important fact to remember is that approximately 20 gallons of water are used (hot and cold combined) per colonic. By keeping records of how many colonics are given using a particular instrument and multiplying that number by 20, it is possible to project when certain filters will need to be replaced.

PARTICLE FILTER

PART NUMBER: FLTR-CU

PURPOSE

Removes minute particles of dirt, rust and other particulate matter from the water stream. This serves two main purposes: to ensure removal of such particles before the water is used during a colonic and to ensure the remaining filters and internal parts of the instrument remain as clean as possible. Filter cartridges can be used on either hot or cold water.

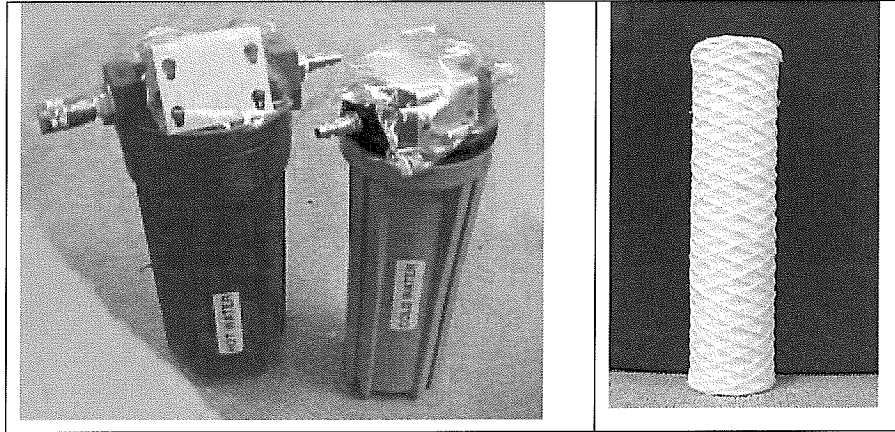
RATED LIFE

This depends on several factors. Cartridges are white in color and begin to yellow when they come in contact with the chlorine found in municipal water systems. As time goes by the yellowing tends to darken in color. The filter manufacturer states that all filters, whether on a sink, in a refrigerator or on a colonic instrument, will begin to host their own colonies of bacteria after being submerged in water for a period of 4-months.

Even though the hot water filter gets dirty quicker, it is better to change both filters at the same time. The particle filters will not remove dissolved minerals in the water.

CHANGING THE PARTICLE FILTER CARTRIDGES

When changing the hot and cold water cartridges clean out the sump prior to inserting the new cartridge. This helps prevent dirt in the sump from contaminating the new cartridge. Remove the o-ring, wipe it off, and liberally coat the o-ring with a silicone lubricant or petroleum jelly. This will help prevent leaks and make it easier to unscrew the housing the next time you change the filters.



The frequency of use and local water conditions must also be factored into a maintenance schedule. A therapist giving two colonics a day working in an area with very clean water will find their particle filters lasting longer than a therapist giving eight colonics per day who lives in an area with heavy concentrations of particulate matter in their water.

OTHER RATINGS

The **cold** water particle filter housing have a burst pressure of 500 PSI; a maximum working pressure of 125 PSI (862 KPA); and a maximum water temperature of **125 degrees F (93°C)**. The **hot** water filter housing has a maximum pressure rating of 160 PSI (1103 KPA) and a maximum temperature rating of **160 degrees F (71.1 C)**. Exceeding the ratings can cause the filter housing to rupture resulting in water leakage and may damage the instrument.

MAINTENANCE SCHEDULE

Change your filter cartridges at least once every four months. More frequent changes may be required if your water contains particulates or if you do a lot of treatments.

TROUBLESHOOTING

Unlike other filters, the particle filters can become completely filled with particulate matter and not have any negative impact on water flow through the instrument. *Dirty filters will allow particulate matter to pass through with potential adverse consequences to major components inside the instrument.* **It is important to replace dirty cartridges frequently.**

TIPS

It is easier to unscrew the particle filter housing if you first release the pressure inside the filter housing. After turning off the water at the wall for both hot and cold water, turn cleaning system on, this will relieve the pressure inside the filter housing. Now you can unscrew the housing and proceed to replace the cartridge. Clean the inside of the filter housing. You do not need to tighten excessively...hand tight should be fine. Reattach everything, turn on the water and be sure to check for leaks.



INLINE CARBON CARTRIDGE

PART NUMBER: FLTR-INCA

PURPOSE

The INCA reduces the amount of chlorine from the water.

RATED LIFE

There is no rated life for the carbon filter. The life span depends on the quality of the water. Water with high mineral content will shorten the life of the filter.

MAINTENANCE SCHEDULE

Dirty Carbon cartridges will cause a decrease in water flow from the instrument. If detailed maintenance records are kept you will develop a sense for how often your Carbon filters will last based on the number of colonics normally given each week and the quality of the water in your area.

TIPS

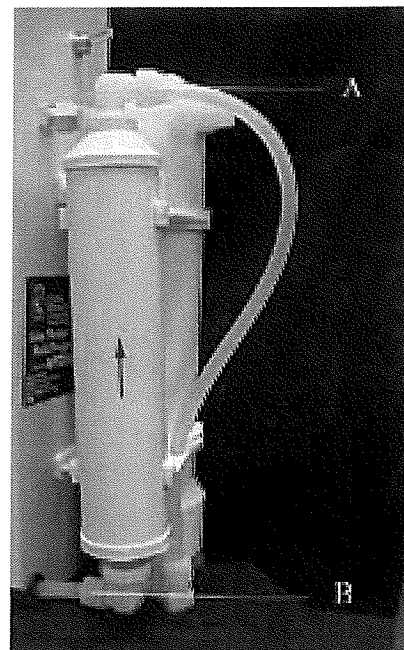
Just take a moment prior to removing the old filter to see how the filter attaches to the instrument. Pay attention to the direction each of the plastic elbows point. Be careful when loosening or tightening plastic parts. They are plastic and can easily be ruined by applying excessive force.

When changing the particle and the carbon filters at the same time; change the particle filters first, then purge the air from the housings, finally change the carbon filter. Using any other procedure, may cause the carbon filter to clog very quickly.

CHANGING THE INLINE CARBON FILTER

White Nylon Fittings (If you have gray fittings, proceed to page 22)

1. Turn off water at the source.
2. Hook up the cleaning system and turn it on. This will release pressure and reduces water spillage.
3. Unscrew plastic nuts A&B using an 11/16" wrench or a pair of pliers. Be careful not to damage nuts.
4. Unscrew and remove the nylon fitting from each end of the cartridge. Throw the cartridge away.
5. Apply Teflon tape to both nylon fittings to prevent leakage. Screw the fittings into the new cartridge.
6. With the arrow on the cartridge pointing up, put the new cartridge in the brackets.
7. Tighten nuts A & B - DO NOT over tighten.
8. Turn water on.
9. Make sure the waste valve is in the empty position.



IF YOU HAVE A PURGE POSITION ON THE CLEANING SYSTEM VALVE GO TO STEP 16:

IF YOU DO NOT HAVE A PURGE POSITION ON THE CLEANING SYSTEM VALVE CONTINUE AT STEP 10:

10. Attach a water hose from the water outflow to a sink or a bucket.
11. ***(VERY IMPORTANT! This is where the gauge will be damaged!)***
Barely open the flow control valve, so it is not completely closed. Water should be barely moving through the hose. You want as little water as possible going through the hose to keep the air bubble at a low speed. It will take a couple of minutes for the air bubbles to travel through the tubing.
12. When you no longer can see any large air bubbles passing through the water outflow tube, open the flow control valve one turn.
13. Turn the cleaning system off.
14. Open the flow control an additional turn. Run water through the instrument until air bubbles are no longer seen passing through the water tube.
15. Turn the flow control valve off. Check for leaks around the fittings on the carbon filter.
16. **If you do not have a purge position, your instrument is now ready for use.**
17. Turn the cleaning system valve right to purge.
18. When no air is heard passing through the instrument, turn the valve to off
19. Attach the water warmer and open the flow control valve. This removes any air remaining in the instrument. The instrument is now ready for use.

CHANGING THE INLINE CARBON FILTER

Gray Plastic Fittings

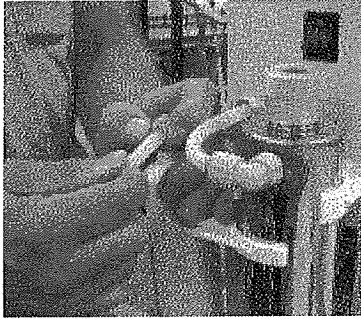


Figure 1

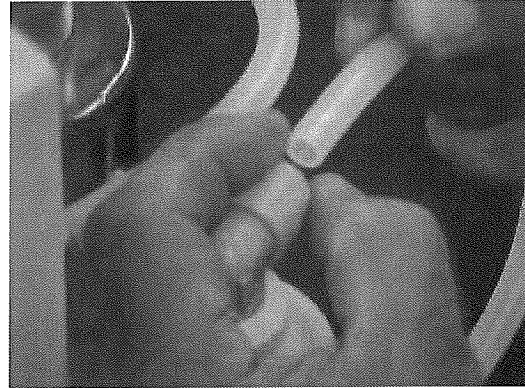


Figure 2

1. Turn off the water supply to the instrument. Make sure the waste valve is on empty.
2. Connect the Cleaning System to the instrument and turn it on. This releases the pressure in the lines. After a couple of seconds, turn the cleaning system off.
3. Start with the hose on the top of the filter. Push the tubing against the fitting (figure 1); this removes the pressure on the retaining ring.
4. Hold the retaining ring against the fitting and pull the tubing (figure 2) out of the fitting.
5. Turn the carbon filter until it is upside down and repeat steps 3 & 4. Pull the cartridge off of the brackets.
6. Unscrew the fittings, re-tape the threads, and screw the fittings into the new cartridge. Mount the cartridge onto the brackets.
7. Re-insert the tubing back into the fittings. **Note: When re-inserting the tubing into the fittings, push the tubing in until it bottoms out. To make the insertion easier, apply a small amount of petroleum jelly to the outside of the end of the tubing.**
8. Turn the water supply on. If the fittings leak, turn the water off and push the tubing further into the fitting.
9. Once the tubing is inserted into the fitting so that it does not leak:

If you do not have a purge position on the cleaning system valve, go to step 10 on page 21. If you have a purge position on the cleaning system valve, go to step 17 on page 21.

DIGITAL TIMER

PART NUMBER: TMER-12/VDC-M

INSTRUCTIONS FOR USE

The time is set by pressing the UP or DN buttons until the desired time is displayed. The unit is preset to increment or decrement by one-minute intervals.

The timer has two PRESET memory settings: M1-45 minutes, M2-60 minutes.

When the desired time is displayed, push the Start/Stop button. The timer will beep twice and then start to count down. When the timer reaches zero, the alarm will sound and the timer will start to flash 0000. Push the start/stop button to stop the alarm. To zero the display, push the DN and then the UP button.

PROGRAMMING

By pressing the UP and DN buttons together for 2 seconds, the programming mode can be entered.

The display will read "bP" and the selected beeper mode will be displayed. This controls the loudness of the beeper and alarm. Release the UP-DN buttons. Use the UP button to cycle through the volume selections: 0, 1, 2, 3, 4. Selecting 0 will disable the beeper; and 1, 2, 3, & 4 are the relative volume with 4 being the loudest. When the desired selection is displayed push the start/stop button to save.

The display will now read "ic_". The UP button can be used to step through three increment settings: 15, 30, & 60. These values correspond to the number of seconds that the timer will count up or down. When the display indicates the value desired push the start/stop button to save. The display returns to 00.00, ending the programming mode.

M1 & M2 are memory buttons that can be programmed for any displayed time simply by pressing and holding either button for 2 seconds. Once the displayed time is in memory, a momentary push of the memory button will add the preset time to the existing time on the display.

NOTE: If the display is indicating 00.00 and M1 is set for 45.00 minutes, pushing M1 will set the display for 45.00 minutes.

Once set, the unit will retain the memory settings even if the power is removed.

UV LIGHT

PART NUMBER: FLTR-UV-RC

TOOLS NEEDED

Straight Blade Screwdriver

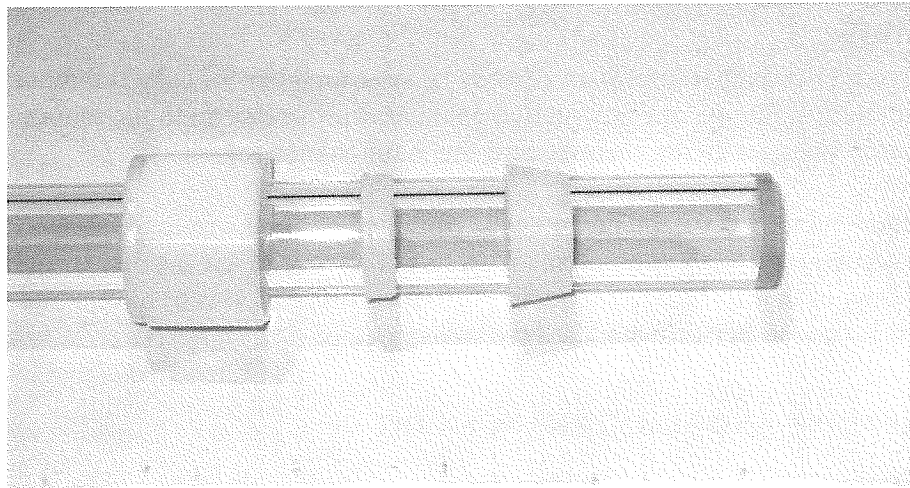
11/16" Wrench

UV MAINTENANCE

The quartz sleeve inside the UV housing should be cleaned annually

1. Turn the cleaning valve to purge; making sure the waste valve is on empty.
2. Turn off the water source.
3. Remove the carbon filter.
4. Remove the UV lamp from the housing. Use a slot screwdriver if necessary.
5. Unscrew the bulkhead fitting nut with an 11/16" wrench.
6. Turn the UV housing counter clockwise to free the tubing from the fitting.
7. Remove the UV housing, keeping in mind that the housing is full of water.
8. Drain the housing in a sink. Place the UV housing on a table and unscrew the knurled aluminum nuts from each side. Be careful the quartz sleeve doesn't fall out.
9. Carefully remove the o-rings from each end of the sleeve and slide the sleeve out of the housing.
10. Clean the quartz sleeve with a cloth soaked in vinegar.
11. Re-assemble the quartz sleeve in the UV chamber allowing the sleeve to protrude an equal distance from both ends of the housing. Lightly lubricate the o-rings with silicone grease before re-inserting them onto the sleeve.
12. Re-assemble the knurled nuts and tighten. Hand tight should be sufficient.
13. Re-assemble the UV housing and carbon filter onto the instrument.
14. Purge the air before use. Check for leaks.
15. Insert UV lamp into the housing and connect the wiring.

CHANGING THE OBSERVATION TUBE



PART NUMBER: OBTB-GLASS

TOOLS NEEDED

12" Crescent Wrench

12" Channel Locks, also known as Tongue and Groove Pliers

1. Remove the instrument from the wall. Unscrew the 8 screws holding the back panel on and remove the panel.
2. On the inside of the instrument, grasp the white plastic nut with the channel locks.
3. While holding the nut with the channel locks, unscrew the white plastic male quick connect with the crescent wrench.
4. Grasp the end of the old tube with the channel locks. Twist and pull on the tube until it is out of the waste valve elbow. **CAUTION: The tube is fragile.**
5. When the tube is out of the elbow, lift the front viewing window and remove the tube from the front of the instrument.
6. Once the tube is out of the instrument note the position of the nut and ferrules. Use the picture for reference.
7. Lubricate the o-rings with a silicone lubricant or petroleum jelly. *Do not use a water based lubricant.*
8. Insert the new tube through the viewing window (nut end first).
9. Position the o-ring end of the tube onto the waste valve elbow. Push and wiggle the tube until both o-rings are inside the elbow.
10. Reconnect the male coupling. Be careful not to over tighten as this can stress the tube; causing breakage.
11. Replace the back panel and re-install the instrument onto the wall.

PART TWO

RECORDS

DRC recommends that important records be kept together for easy reference. These records may include the Installation and Instruction Manual, forms relating to the manufacture and testing of your equipment, servicing records, and the maintenance log.

The maintenance log on the next page is provided as an example of one way to record the details of maintenance on your equipment. You might choose to use a calendar or computer program. Regardless of the method used, the important consideration is to have some way to remind you when it is time to perform standard maintenance.

EQUIPMENT AND MAINTENANCE LOG

EQUIPMENT: TOXYGEN
MODEL NUMBER: BSC-UV

MANUFACTURER: DOTOLORESEARCH CORP.
10199 W. VAN BUREN STREET
SUITE 10
TOLLESON, AZ 85353

DATE PURCHASED: _____

SERIAL NUMBER: _____

DATE INSTALLED: _____

INSTALLED BY: _____

PHONE: _____

SERVICE RECORD

SERVICE DATE	SERVICING COMPANY	REASON FOR SERVICE

REPLACEMENT SCHEDULE

PARTICLE FILTERS

PART NUMBER: FLTR-CU

- Change as needed
- 4 Month Maximum

INLINE CARBON FILTER

PART NUMBER: FLTR-INCA

- Change when you begin to loose water pressure

UV LIGHT

PART NUMBER: FLTR-UV-RC

- Change when ballast starts beeping

MAINTENANCE RECORD

	PARTICAL FILTERS	CERAMIC FILTER	INLINE CARBON CARTRIDGE	UV LIGHT
DATE OF FIRST USE				
REPLACEMENT DATE				
REPLACEMENT DATE				
REPLACEMENT DATE				
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COLON HYDROTHERAPY TREATMENT PROCEDURE

Note: This section of the Instruction Manual is intended for reference only. Users of colon hydrotherapy equipment must be properly trained and certified.

MEDICAL HISTORY

The colon hydrotherapy treatment should commence with a comprehensive medical history form completed by your patient. The practitioner should review the form with the patient and discuss pertinent details relating to any present illness, or alerted to existing contraindications. A detailed verbal summary should follow regarding the colon hydrotherapy procedure and therapeutic application. The emotional aspect of this treatment is paramount to its success. Inform the patient of the prospect that after the colon has been cleansed and corrective therapy initiated, it often requires subsequent treatments and time for the body to clear the contents of the colon.

PREPARING THE PATIENT

Introduce the patient to the dressing area to disrobe and put on a gown open at the back. Ask the patient to go to the restroom to empty their bladder and to step onto a scale. Record the patient's weight before and after the treatment.

PREPARING THE TREATMENT ROOM

After the instrument has been properly cleansed and disinfected, place the unopened disposable pack at the end of the table next to the instrument.

Cleanse the treatment table with a disinfectant agent or cover it with a clean cotton sheet or paper from a continuous paper roll installed at the head of the table.

For the patient's comfort, a pillow or triangular piece of foam in the shape of a wedge, covered with a removable cotton material, should be placed at the head of the table.

Place an underpad on the table at the buttock area with the absorption surface facing up.

SPECULUM PREPERATION

Ask the patient to lie on the table, and open the disposable pack in front of the patient.

Lightly coat both ends of the disposable waste hose on the inner ring, with a small amount of petroleum jelly to prevent leakage and provide ease of attachment to the speculum. Attach the waste hose to the instrument.

Turn on the light to illuminate the viewing tube.

DIGITAL EXAM

Inspect and gently palpate the entire abdomen for rigidity, masses, and pain before starting the treatment. Now instruct the patient to lie onto his left side with the right knee flexed toward the chest (Sim's position). Proceed to digital exam. Digital rectal examination is accomplished by having the patient take a deep breath as the lubricated gloved index finger is gently inserted into the rectal orifice for determination of hemorrhoids, strictures, tumors and angle of insertion. Don new gloves.

WARMING THE WATER

To pre-warm the water before a treatment, connect the water warmer to the machine. This is done by attaching the small end of the warmer to the water outlet barb and the large end of the warmer to the waste hose coupler. Then set the master mixing valve to 100F (38-39C) to pre-warm the water. Check your temperature gauge. When the desired temperature is reached, shut down the water flow control valve and attach the plastic water line tubing to the speculum water inlet fitting.

SPECULUM INSERTION

Generously lubricate the speculum with a water soluble lubricant (Surgilube, KY jelly) and gently insert it into the rectum, approximately 2-3 inches, (5-7.5 cm.). Remove the obturator and attach the disposable waste hose to the speculum.

This is accomplished by bracing the back of the left hand against the patient's buttocks, while holding the externally protruding aspect of the speculum tightly with the left hand and using the right hand to attach the waste hose onto the speculum. This method will ensure the speculum position remains fixed and is not inserted further into the rectum.

The therapist now changes hands, and with his right hand holding onto the speculum, he instructs the patient to slowly turn onto his back again, with his knees still bent. The feet should be flat on the table.

SECURING THE SPECULUM

The inserted speculum can now be secured and prevented from slipping out by placing a previously cut strip of towel or absorptive paper (underpad) (2" width and 12" length) between the V formed by the water line tubing and the waste line hose. One end of the strip is placed under the left buttock and the other end under the right buttock. A small towel can also be used for this purpose.

Cover the patient from the waist down with a sheet or gown while exposing the abdomen. Both hoses leading from the patient to the instrument should be visible and accessible to the Therapist at all times.

BEGINNING THE TREATMENT

Set the mixing valve at the desired operating temperature of 100F for 37C. Use temperature gauge as indicator. Set the time on the instrument to 30-45 minutes. Open the water flow control valve slowly while observing the pressure gauge, and allow pre-warmed water to flow at a rate of approximately .5 PSI (water flows into and out of the rectum for approximately 5 minutes.) During this initial flow cycle, the red waste valve remains open. Gentle massage (on empty cycle only) in a clockwise motion with the pads of the finger starting at the left lower quadrant along the colon and working upward and across and then down to the cecum may facilitate the flow of water into that region. A stethoscope may be used to determine if and when the gentle water flow during the initial 5 minutes of the treatment has reached the sigmoid.

FILL CYCLE PROCEDURE

1. Turn flow control valve to 1/8 – 1/4 PSI setting.
2. Place red waste control valve to the “FILL” position.
3. Pressure will gradually rise to the 1-1.5 PSI setting; however, patient may indicate a desire to empty before this time (the slower the fill the more water the patient’s colon will be able to accommodate). Filling cycle to be approximately 30 to 60 seconds depending on the sensitivity of the client. Maximum fill time is 60 seconds. Proceed to empty cycle.

EMPTY CYCLE PROCEDURE

Turn the red waste control valve clockwise to the “empty” cycle, and then adjust the water flow control valve to 2-3 PSI setting, which will facilitate the removal of water and waste material from the patient’s colon. The higher the PSI setting, i.e., 3 PSI, the faster the waste flows from the colon due to a siphoning effect. A PSI setting of three (3) is not suited for close observation of waste flow material. If material is to be inspected, a PSI setting of two (2) or less would be more suitable. In the event that waste material is not released through the waste hose on the empty cycle, squeeze the waste hose rhythmically several times. This will help break up fecal material too large to pass which is lodged in close proximity of the speculum opening.

MONITORING PRESSURE

If the initial cycle is employed and the needle on the pressure gauge rises abruptly to 2 PSI or more, immediately open the red waste control valve and close the water flow control valve, thus preventing any further flow of water. Indication: potential blockage in rectal or sigmoid area. If after several attempts of employing the fill cycle the same response is elicited, continuation of treatment is contraindicated. Refer patient to attending physician.

ABDOMINAL MASSAGE

Repeat the filling and emptying cycle for the balance of the treatment. During the empty cycles, gentle abdominal massage is performed. Abdominal massage is described as a slow, gentle circular palpation (clockwise), utilizing the pads of the fingertips in a dipping motion. The technique starts in the left lower quadrant (iliac crest of pelvis) and proceeds upwards along the descending colon towards the splenic flexure and across the transverse colon to the hepatic flexure. Proceed with this palpation along the ascending colon to the cecum (right lower quadrant). The direction of this procedure is now reversed. NOTE: Do not apply pressure over abdominal aorta (middle – Entire length of abdomen).

TEMPERATURE ADJUSTMENT

A qualified therapist may slowly adjust the master mixing valve to a cooler temperature providing therapeutic benefit for the atonic colon. When working with cooler temperatures, water temperature should not drop below 92F (32.7C) (unless at the direction of a physician) to stimulate contraction, employ the same steps of the fill and empty cycle with warm water is repeated for approximately 10-minutes. Temperature changes from cool to warm must be done gradually so that the patient will not experience any discomfort.

CAUTION:

Throughout the treatment, the gentle abdominal massage should be continued (during the emptying cycle only) for optimum benefits. To massage the intestinal tract when filled with water and the red waste control valve closed, may cause severe discomfort to the patient. With a history of spastic colon, do not fluctuate the water temperature. Also, a woman experiencing her menses should be treated conservatively at 100F or 37C. Pregnancy should be ruled out (history) and physician consent obtained before starting a colon hydrotherapy treatment regimen. Care should be taken where there is evidence of hemorrhoids, and in the case of severe hemorrhoids, treatment should be withheld until a physician treats the hemorrhoids appropriately. Discomfort on the part of the patient is an indication to stop the influx of water, whether or not the pressure has reached the 1PSI setting. In the event there is an increased amount of intestinal gas, the treatment may be more comfortable for the client at the .5 PSI setting. If at any time during the treatment a patient experiences pain (abdominal, chest, etc.), the treatment should be discontinued immediately and patient referred to a physician.

ENDING THE TREATMENT

At the end of the treatment cycle (usually 45-minutes), when the water flows clear, close the water flow control valve, leaving the red waste control valve open. Making sure the patient has finished draining, asks the patient to turn to their left side, and remove carefully the speculum. Raise the speculum (with the waste hose still connected), so that residual water and waste material can drain through the instrument. Disconnect waste hose and discard.

Assist patient in getting up and instruct patient to visit the restroom to evacuate away residual water. The patient may now get dressed.

PREPARE INSTRUMENT AND TABLE FOR NEXT PATIENT

TROUBLE SHOOTING

NO WATER FLOW

- A. In-line Carbon Cartridge is clogged and needs to be replaced
- B. Supply lines may be shut off
- C. No hot or cold water pressure causing master mixing valve to shut off

FLOW OF WATER IS LESS THAN DESIRED

- A. Filters are dirty – replace (particle, in-line carbon)
- B. Supply lines not fully open
- C. Building water pressure not sufficient

WILL NOT MAINTAIN TEMPERATURE – ERRATIC

- A. Master valve may need servicing
- B. Supply lines reversed
- C. Hot water filter dirty – replace both cartridges
- D. Hot water heater is old and not maintaining temperature

FLOW VALVE LEAKING

- A. Tighten valve bonnet
- B. If leaking from water outflow, replace flow control valve

PRESSURE GAUGE WILL NOT RETURN TO ZERO OR IS SLOW

- A. Re-calibrate the pressure gauge by turning small adjustment screw at the 6:00 position on the face of the gauge.

INSTRUMENT WILL NOT DRAIN THE WASTE WATER COMPLETELY

- A. Instrument not installed to proper level of the table
- B. A blockage in the drain
- C. Waste valve not fully open
- D. Trap is too high

INJECTOR WILL NOT SIPHON

- A. Water pressure is very low
- B. Injector has siphoned up some dirt that has clogged it or o-ring is too dirty for a water tight seal.

**FOR DETAILED INSTRUCTION OR TROUBLESHOOTING ASSISTANCE
CONTACT TECHNICAL SUPPORT AT DOTOLO REARCH WESTERN DIVISION
- (888) DOTOLO 1 – (888) 368-6561**

LIMITED WARRANTY

Dotolo Research Corporation, Inc., located in Pinellas Park, Florida, manufacturing in Tolleson, Arizona, does hereby warrant to the purchaser of this Colon Hydrotherapy instrument that it shall be free from defects in material and workmanship for a period of twelve (12) months from the date of purchase when such Colon Hydrotherapy instrument is used in conjunction with a manufacturer approved water filter system AND Dotolo Research disposable speculum kits. Manufacturer warrants Colon Hydrotherapy instrument not used in conjunction with a manufacturer approved water filter system to be free from defects in material and workmanship for period of (90) days from the date of delivery. Warranty is non-transferable.

Manufacturer shall not be liable under this warranty unless the product registration certificate included herewith is completed by purchaser and returned to manufacturer within 30 days of purchase and the product is installed within 30 days of purchase.

Manufacturer shall not be liable under this warranty if the product is repaired or altered by a representative who has not been approved by the manufacturer or if the product has been subject to misuse, negligence, abuse or accident, and the warranty shall not apply to the product made by manufacturer, which has not been operated and maintained in accordance with manufacturer's printed operating instructions, included herewith. If the Manufacturer agrees to replace a part and allows the user to make minor repairs to the instrument, the manufacturer is not responsible for any other cost incurred, except for the replacement of the part.

Failure of purchaser to use the product in accordance with the manufacturer's printed instructions shall operate as a waiver of the warranty and absolve manufacturer of any liability whatsoever.

