

CAUTION: Rx ONLY.



PERIOSONIC Multi-Fluid Irrigator— Model W (D584)

DEVICE DESCRIPTION: The Periosonic Multi-Fluid Irrigator delivers irrigating solutions through an ultrasonic scaler. The device is powered by air and requires no electricity.

INTENDED USE/INDICATIONS:

To permit ultrasonic scaling using an isolated water source, antimicrobial agents or conventional line water. The Periosonic Model W allows you to switch between two irrigating bottles, and in addition, lets you use an external water source. Although designed for use with Parkell's full range of scalers the unit is compatible with any ultrasonic scaler.

CONFORMANCE TO STANDARDS:

Parkell's quality system is certified to ISO9001/ISO13485.

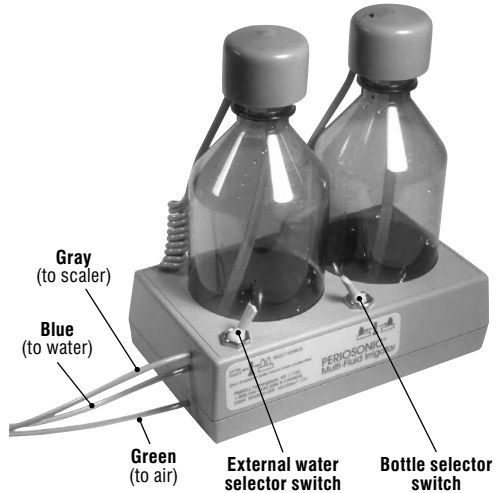
HOW SUPPLIED:

You receive:

- Periosonic irrigator
- Two delivery bottles
- In-line water filter kit
- Small & Large "T" fittings for connection to air source

BEFORE INSTALLATION

The main air and water supply **MUST BE SHUT OFF** in the operatory before the Periosonic is to be installed. **DO NOT** cut or splice any lines if you are unsure of whether the service has been shut off to the line.



The Periosonic Multi-Fluid irrigator is designed to stand on the counter close to the scaler or even on top of the scaler.

The lightweight unit is fitted with non-skid rubber feet. Velcro® may be used to attach it to the top of a scaler.

INSTALLATION

Before proceeding, turn off the water to the scaler or unplug the quick disconnect at the water source.

The Periosonic Multi-Fluid Irrigator connects to your ultrasonic scaler at the inline filter located immediately behind the scaler (Fig 1).



DO NOT attempt to unscrew these connectors if the water supply has not been shut off **OR** if the quick connect for the water supply has been unplugged.

If your scaler already has this filter (All Parkell scalers shipped since June 1997 come with it factory-installed), simply unscrew the water hose at the filter, remove the filter disk and proceed directly to Step 7.

If your scaler does not already have this filter, you must install the connectors that came with your Periosonic Irrigator (Steps 1-6).

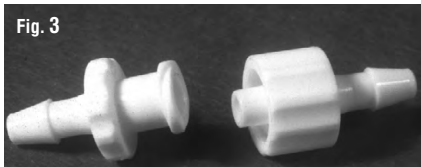
INSTALL THE PLASTIC CONNECTORS.

1. The connectors should be installed approximately 6 inches from the scaler.

2. Carefully cut the water hose with a scalpel or single-edged razor (Fig 2). Take care not to fray the woven sheathing.



3. Slip a clear plastic collar onto the segment of hose connected to the scaler and slide it about an inch up the hose.



Female Connector

Male Connector

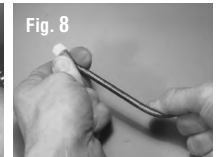
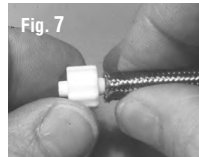
4. The filter kit includes two different plastic connectors. Select the female connector shown in Fig 3, and push its barb into the hose connected to the scaler (Fig 4). (*Hint: A little liquid soap on the barb will make insertion easier.*)



5. Slide the clear plastic collar against the back of the connector by holding the collar with one hand and pulling firmly on the hose with the other (Fig 5). This will stretch the hose and reduce its diameter, allowing the collar to slide up to the connector (Fig 6.) (*Hint: Lubricating the hose with liquid soap will make it easier to slide the collar.*)



6. Install the male connector shown in figure 3 onto the other segment of the hose (Figs 7 & 8.) To do this, repeat Step 5.



7. Fasten the Periosonic's gray tubing (labeled "To Scaler") to the female connector immediately behind the scaler (Fig 9).



8. Connect the Periosonic's blue tubing (labeled "Water") to the length of hose that runs to the water source (Fig 10.) If your scaler already has a pre-installed filter you can either remove one of the two filter disks or connect one filter disk directly to the other.



CONNECT THE PERIOSONIC'S GREEN TUBING TO YOUR AIR LINE.

The irrigator needs at least 25 lbs of continuous air pressure to operate. The maximum pressure must be less than 80 lbs. If your air system has a convenient quick disconnect socket, you can order a plug from Parkell which will connect to the irrigator's air line, and proceed to Step 10. Otherwise, tap into an existing air line as follows:

9. Locate a suitable air line (it must be one that's always pressurized, not a handpiece or foot pedal line) and shut off the air. Make sure the line is not pressurized before continuing.

Two "T" fittings (Fig 11) are supplied with the unit. Select the one that suits your air system.



Fig. 11

10. Carefully cut the air line with a blade install the "T" fitting and connect the irrigator's green tubing labeled "Air" (Fig 12). The tubing can be shortened if necessary.

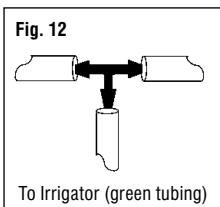


Fig. 12

11. You are now finished. Turn on the air and plug the quick disconnect back into the water supply or turn on water. Check for leaks.

CLEANING AND CARE

Flush the units with water at the end of each day. To do this, fill both irrigator bottles with warm, clean water. Turn the water control of your scaler to high volume and the power to its lowest setting.

Flush the system by using water from both bottles (at least 1 minute per bottle.) Irrigants

left in the unit over an extended period may evaporate leaving sticky residues.

The Periosonic and its tubes can be wiped with virtually any properly diluted germicide. Avoid contact with strong solvents and eugenol-containing dental materials. The bottles can be cleaned using dishwashing detergent and a bottle brush. Additional bottles and caps are available from Parkell.

Note: The plastic bottles will deteriorate over time and therefore should be replaced every three to six months to avoid unexpected rupture.

IMPORTANT: The water/air supply must be shut off to all devices at the end of the day, on weekends, holidays, or when the equipment is left unattended. This will avoid any chance of office damage due to leaks.

USING YOUR PERIOSONIC IRRIGATOR

The Periosonic irrigator will deliver virtually any liquid agent. However, thick viscous solutions should be avoided as they may clog the system. Do not use chlorine bleaches as they may damage the irrigator and your scaler.

Use only Parkell bottles in the irrigator, because other bottles may explode when pressurized. Activate the desired bottle using the control switch to the right (Fig 13). The switch to the left allows you to switch to the external source (Fig 14).



Fig. 13



Fig. 14

FILLING THE BOTTLES:

- 1) Close the white clip to shut off the air line.
- 2) Grasp the gray cap and gently lift bottle from the unit.

- 3) Hold the cap and turn the bottle slowly to unscrew it. **DO NOT TURN THE CAP** as that will tangle and may damage the coiled hose.
- 4.) Fill the bottle with properly diluted irrigating agent or water. Reconnect it to the cap and replace it in the unit. Release the clip on the air line.

HOW TO REPLACE THE FILTER DISK

The filter disk should be replaced when it becomes very dark or so clogged with debris that water flow is impeded.

- 1) Disconnect the system from the external water supply.
- 2) Remove the old filter disk by holding it in one hand and twisting off the hose connectors on either side (Fig 15). (They rotate in opposite directions.)
- 3) Install the replacement filter disk, and tighten the connectors firmly using hand pressure. Reconnect system to the external water supply.

Note: If the filter becomes clogged and you do not have a replacement disk, the hose connectors can be locked together without the filter disk to allow emergency operation.

TROUBLESHOOTING

■ Irrigant does not come through unit

Are the bottles firm when squeezed?

If “NO,” something is preventing pressurization.

- Is the pinch clip closed, sealing the air line?
- Is the air source operating properly?
- Are bottle caps tight?
- Are rubber gaskets under bottle caps intact?
- Is air line kinked?
- Is selector switch set to “irrigant?”

Are the input or output filters clogged?

If so replace filter or temporarily remove the filter and connect the fittings on either side.

Does flow improve when you move selector switch back and forth?

If “YES,” flush unit with warm water to dissolve clogs.

■ External water does not come through unit

- Is water source on?
- Was the water line accidentally connected to air source (or vice versa)?
- Is selector switch set to “EXTERNAL SOURCE”?
- Is water filter clogged?
- Air line has been connected to water source.
- Are any lines kinked?

For service assistance or to order, call Parkell Toll-Free.

- Replacement Filter Disks (D419)
Pkg of 10 disks
- Replacement Bottles (D581) Pkg of 6 bottles

Parkell does not accept liability for any loss or damage direct or indirect or consequential arising out of use of or the inability to use the product described herein. Before using, the user shall determine the suitability of the product for its intended uses and the user assumes all risk.




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