

DDL Reverse Osmosis Water Systems User Manual



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General Application

The Dental Decontamination Ltd [DDL] Reverse Osmosis [RO] Water Systems are suitable for providing deionised water for autoclaves and other sterilization equipment within any environment. Our systems are tailored for each individual business and built to the specifications and standards required by Primary Care Trusts and other organisations.

DDL RO Water Systems are available in three models, DDL1 [non-pumped], DDL2 [pumped] and DDL3 [pumped]. All DDL RO Water Systems provide water for the vast majority of autoclaves and clinical machines requiring deionized water, including all MOCOM models, and are suitable for use in soft, average and hard water areas. In hard water areas or for use with particularly sensitive equipment our unique TAC® system works to ensure you still receive the purest deionised water.

With the DDL RO Water Systems fitting neatly into most cupboard spaces, these stylish and compact systems compliment all decontamination rooms with easy accessible water being dispensed via a countertop tap and/or via a spray style tap on flexible hose.

This manual is for the DDL RO Water systems supplied by Dental Decontamination Ltd .

For further information contact customer services on: 01253 736 355



Options

The deionised water can be dispensed in 2 ways:

- A) A fixed swan neck spout ,single lever tap fitted over an existing sink which is supplied with the system.



- B. Using a hand held spray dispenser on a flexible hose [Optional extra]



Water Testing

It is recommended that the water is tested weekly and a record is kept of the results on the DDL RO Water Quality Log Book.

To test the water follow the below steps:

Step 1: Using a measuring jug, take a sample of the normal tap water.

Step 2: To record the PPM and Temperature, remove the cap off the end of the TDS Meter and press the on button, ensuring the PPM count set at zero.

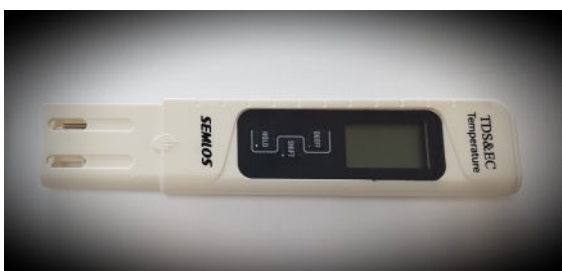
Step 3: Place the TDS Meter into the measuring jug making sure the probes are fully submerged into the water. Leave the TDS Meter to rest for at least 30 seconds. Once the reading has settled, record the PPM and Temperature.

Step 4: Empty any remaining water, ensure to clean and dry the measuring jug along with the TDS Meter.

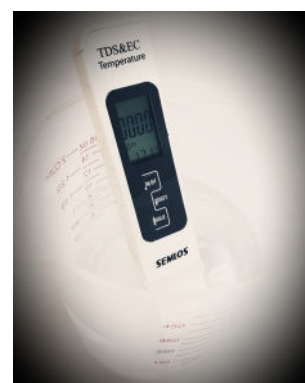
Step 5: Now take a sample of the RO water via the tap and repeat steps 2, 3 and 4 whilst recording the RO water PPM and Temperature.

Step 6: Once complete, ensure to dry the TDS Meter, replace the cap and store in a safe place.

If the TDS Meter reading exceeds 0007PPM, retest the water reading the above steps. If the reading remains the same, contact Dental Decontamination Ltd on: 01253 736 355



TDS Meter





TDS Meter in operation.

DDL Parts & Optional Equipment

DDL 50GPD MEMBRANE FILTER	DDL INLINE SEDIMENT FILTER	
		
Part Number: DDL50GPD	Part Number: DDLISF	
DDL INLINE CARBON FILTER	DDL 1µm FILTER	
		
Part Number: DDLICF	Part Number: DDL1µMF	
DDL CARBON FILTER	DDL DEIONISER FILTER	DDL DOUBLE DEIONISER FILTERS
		
Part Number: DDLCF	Part Number: DDLDF	Part Number: DDLDDF



DDL Parts & Optional Equipment

TDS & EC Meter	DDL Hand Held Spray Dispenser
	
Part Number: DDLTDS	Part Number: DDLHose

DDL 12L Tank	DDL 18L Tank
	
Part Number: DDL12TANK	Part Number: DDL18TANK

DDL 60L Tank	DDL TAC	DDL TAC FILTER
		
Part Number: DDL12TANK	Part Number: DDLTAC	Part Number: DDLTACF

DDL Parts & Optional Equipment

DDL SANITISING KIT	DDL 12W UV ULTRAVIOLET WATER FILTER
 A red plastic carrying case containing a black sanitising pump, a silver cylindrical tank, and several orange and white hoses connected to the pump.	 A cylindrical stainless steel UV water filter with a black power cord and a black control box. The filter has the 'AquaHouse' logo on it.
Part Number: DDLROSANKIT	Part Number: DDLUVF
	DDL RO COUNTERTOP TAP, CHROME
	 A chrome-finished countertop tap with a curved spout and a single-lever handle.
	Part Number: DDLTAP

INSTALLATION

Prior to installation, advanced notification and approval needs to be obtained from your local water board to ensure any Reverse Osmosis Water System adheres to **'The Water Supply [Water Fittings] Regulations 1999, The Water Supply [Water Fittings] [Scotland] Byelaws 2014 and the Water Supply [Water Fittings] Regulations [Northern Ireland] 2009'**.

We recommend all installations are carried out a DDL engineer who is competent and knowledgeable to the DDL systems.

We recommend you contact Dental Decontamination Ltd on 01253 736 355 to book an engineer for installation.

Servicing

All DDL RO water system servicing should be carried out by an approved Dental Decontamination engineer. Any required replacement parts should be approved parts supplied by Dental Decontamination Ltd. Use of replicated parts could deteriorate the water quality, cause malfunction or damage clinical appliances.

As indicated on the DDL RO Service Certificate and as part of an ongoing process we advise that all Reverse Osmosis systems are serviced every 12 months to ensure the PPM is kept under the recommended **0007PPM** along with preventing any potential biofilms and contaminants.

Troubleshooting

We recommend you contact Dental Decontamination Ltd on 01253 736 355 to report any troubleshooting questions, faults or damages.

General Care

1. **DO NOT** leave the RO countertop tap or hand held spray dispenser running as this will cause the filters to depreciate quicker.
2. Should any mains water street maintenance commence, we advise to turn off the DDL RO water system via the dedicated mains water inlet stop tap until works are completed. This will prevent any brown water or loose sediment entering the DDL RO water system causing blockages or a faster depreciation of filters.

Once the mains water street maintenance has been completed, run the sink cold water tap until the water turns clear. Once clear, turn on the dedicated mains water inlet stop tap and allow time for the water to recirculate the RO.

3. **DO NOT** hang items or pull on any of the flexible tubes causing stress on the joints and fixings.
4. If you have a pumped DDL2 or DDL3 RO water system ensure the plug is inserted correctly into the electrical socket at all times.
5. Ensure to follow the **Water Testing** steps as recommended every week and keep a log of all data within the **DDL RO water quality log book**.
6. Always have a DDL RO water system serviced every 12 months or before if necessary and use genuine DDL filters and spare parts.