



# Quantum<sup>®</sup> Cartridge

Cat # QTUM0TEX1 / QTUM0TIX1 / QTUM00TVX

Replacement procedure

## Introduction

- Where used**
- Milli-Q<sup>®</sup> Advantage A10<sup>®</sup> system
  - Milli-Q Integral 3/5/10/15 systems
  - Milli-Q Reference and Milli-Q Reference A+ systems

- In the shipping box**
- Quantum Cartridge
  - Instructions sheet

## Replacing the Quantum Cartridge

**When** The Quantum Cartridge should be replaced when one of the following Alert or Alarm messages is displayed.

- Alert message = REPLACE QUANTUM CARTRIDGE
- Alarm message = MILLI-Q RES < SP, REPLACE QUANTUM

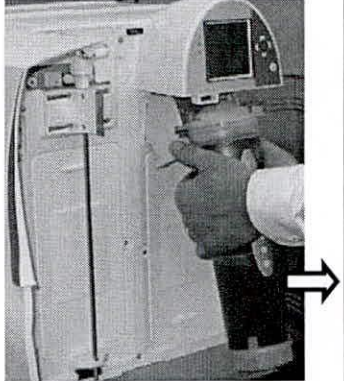
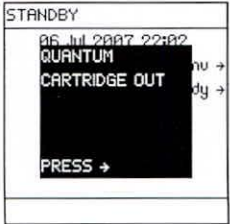
**Removing** Follow the steps below to remove the used Quantum Cartridge.

Step	Action	Diagram
1	Place the Milli-Q System into STANDBY Mode.	
2	<ul style="list-style-type: none"> <li>• Push the Q-POD Plunger (or POD Plunger) down once to depressurise the Milli-Q System.</li> <li>• After water stops being dispensed, push down the Q-POD Plunger (or POD Plunger) again.</li> </ul>	

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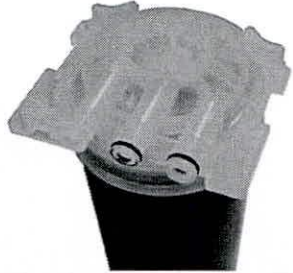

## Replacing the Quantum Cartridge, Continued

### Removing (continued)

Step	Action	Diagram
3	<ul style="list-style-type: none"> <li>• Open the Milli-Q System right door.</li> <li>• Remove the used Quantum Cartridge.</li> </ul>	
4	The system indicates that the Quantum Cartridge is removed in a few moments.	

### Placing

Follow the steps below to install a new Quantum Cartridge.

Step	Action	Diagram
1	<ul style="list-style-type: none"> <li>• Remove the covers on the 2 ports of the Quantum Cartridge.</li> <li>• Wet the O-rings with water.</li> </ul>	
2	<ul style="list-style-type: none"> <li>• Install the Quantum Cartridge until it is fully seated.</li> <li>• Close the right door.</li> </ul>	

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## Replacing the Quantum Cartridge, Continued

### Placing (continued)

Step	Action	Diagram
3	When a new Quantum Cartridge is installed, the LCD looks like this.	
4	Press	

### Rinsing

- The Quantum Cartridge, when newly installed, needs to be flushed.
- This ensures optimal water quality.
- Make sure that the reservoir is at least 80% full of water.

Step	Action	Diagram
1	<ul style="list-style-type: none"> <li>• Locate the clear tubing and the barbed fitting from the Milli-Q System Accessories Bag.</li> <li>• Screw the barbed fitting onto the Q-POD Dispenser (or POD Dispenser).</li> </ul> <p><b>NOTE:</b> Do not use any white tape on the threads of the barbed fitting. An O-ring is located inside the Q-POD Dispenser (or POD dispenser).</p>	
2	<ul style="list-style-type: none"> <li>• Push one end of the clear tubing onto the end of the barbed fitting.</li> <li>• Place the other end of the clear tubing into a sink.</li> </ul>	

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## Replacing the Quantum Cartridge, Continued

### Rinsing (continued)

Step	Action	Diagram
3	The Milli-Q System must be in READY Mode.	
4	<ul style="list-style-type: none"> <li>• Push the Q-POD Plunger (or POD Plunger) down</li> <li>• In a few minutes, water should dispense from the Q-POD Dispenser (or POD Dispenser).</li> </ul>	
5	<ul style="list-style-type: none"> <li>• Dispense water for about 10 minutes.</li> <li>• This flushes out any trapped air in most of the Milli-Q System.</li> <li>• This also rinses off the purification media located in the Quantum Cartridge.</li> </ul>	
6	Leave the Milli-Q System in READY Mode when finished.	

### Manual TOC Curve Check

Only for a Milli-Q Reference A+ system, perform a manual TOC Curve Check. See user manual.