

## CORe Milli-Q Reference Water System – End User Operation.

### Introduction:

The Milli-Q system dispensed ultra-pure 18.2 $\Omega$ ohm water. It is not designed to be used as a substitute for RO (Reverse Osmosis) water that is readily available from labelled taps at many sinks within CORe.

If you are unsure that you need ultra-pure water check with your PI (Principal Investigator) before using the system.

### Operation:

Before dispensing any water check that the system display shows the following parameters:

1. System is in "READY" mode. The main display will show "READY" in the top left corner.
2. System LED is green. If the system LED is green the system is ready to use. If it is yellow or red do not use the system. Contact Science Technician listed in Welcome Package.
3. Resistivity is 18.2 $\Omega$ ohm. The main display will show the current resistivity of the water in the system. If it does not display 18.2 $\Omega$ ohm do not use the system. Contact Science Technician listed in the Welcome Package.

Dispensing water:

1. The dispensing plunger has four dispensing modes: Low, Medium, High and High Locked. The speed at which water is dispensed will depend on how far the plunger is depressed. If put in High Lock mode it will continue to dispense water until the plunger is pressed and released a second time.
2. The hose on the end of the plunger must be held over the sink by the unit to flush out water trapped in it before filling any container. Failure to do this will contaminate water used in research, it is not 18.2 $\Omega$ ohm water. Flush the system into the sink for ~20 seconds before dispensing into bottles/flasks. Only dispense the volume of water required for immediate use.
3. Do not touch the end of the hose or allow it to touch bottles/flasks. It will potentially contaminate the water being dispensed.
4. Once the required volume of water has been dispensed release the plunger to stop the water flow. Continue to hold the hose over the sink to allow residual water in the hose to drain into the sink.
5. Once the hose is drained carefully coil it around the dispenser, ensuring the hose end does not touch any surfaces.