



Qdos Pumps & Hach Analytical Equipment

Operation, Calibration & Preventative Maintenance Schedules





Fluid Technology Group



Company Profile:

 Atlantic Purification Systems Ltd. is a family-owned business, successfully serving the municipal, industrial and commercial markets in Atlantic Canada since 1970. Representing quality manufacturers, APS provides and supports innovative solutions for water and wastewater (systems and analytical equipment), pumps and fluid handling, paint spray and sandblasting, industrial air & filtration, and wholesale water conditioning.

Mission Statement

• Our mission is to honour a tradition of Quality, Integrity & Performance when serving the needs of our markets in Atlantic Canada. These guiding principles will continue to be the driving force behind the success of the company, its employees and the customers we serve.





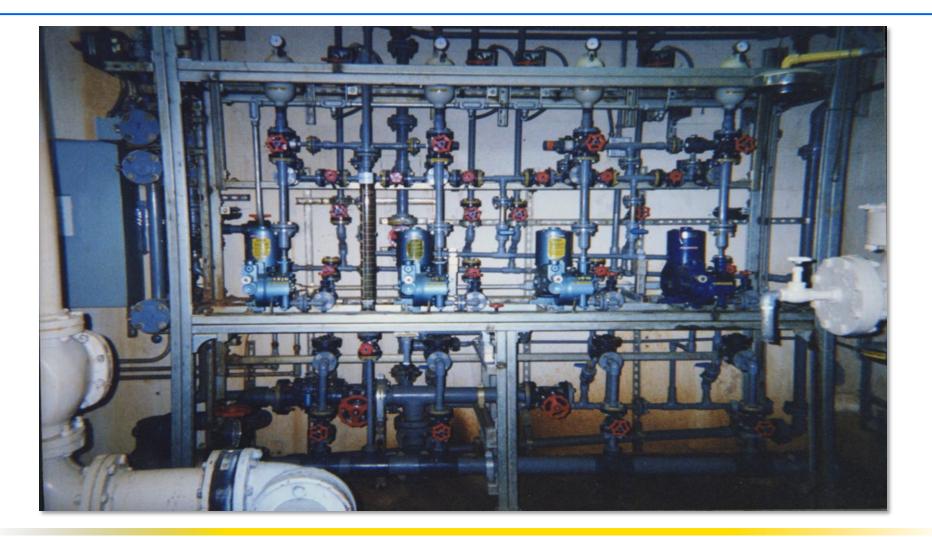
Qdos Series Peristaltic Chemical Metering Pumps



- Positive Displacement
 - ~ Peristaltic
- Cartridge Style
 Pumphead
- General Operation
- Maintenance
- Calibration



Typical piping layout for a diaphragm pump \checkmark





ATLANTIC PURIFICATION SYSTEMS LTD.

Housekeeping – The Basics





- Tubing
 - Min lengths & widths
 - Straight
- Clean
- Set a schedule





Qdos Series Calibration



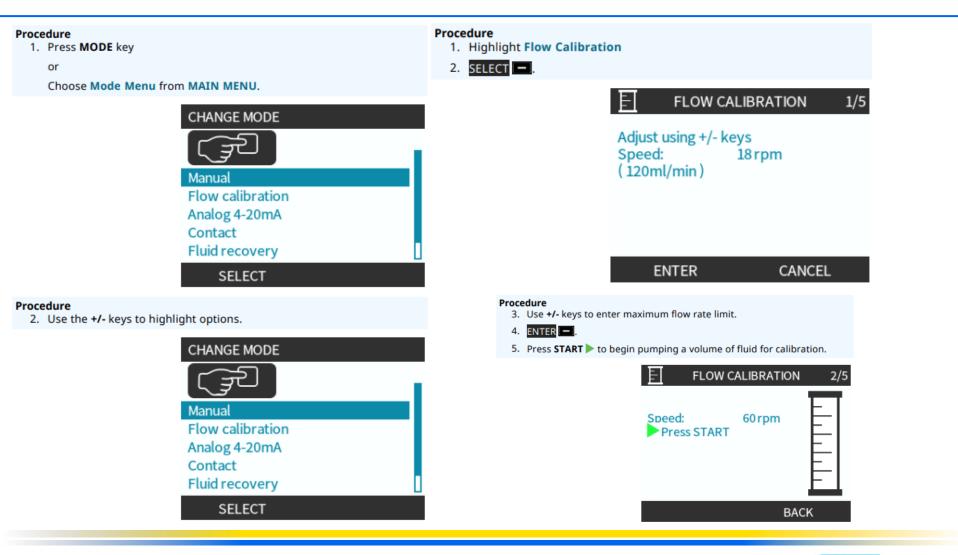
Calibrations are only required for flowrate verification.... Obviously

- After pumphead change
- After pipework modifications
- Periodically to maintain accuracy

MODE > Flow Calibration > Set Flow > Pump a Volume > Enter Actual Volume Pumped

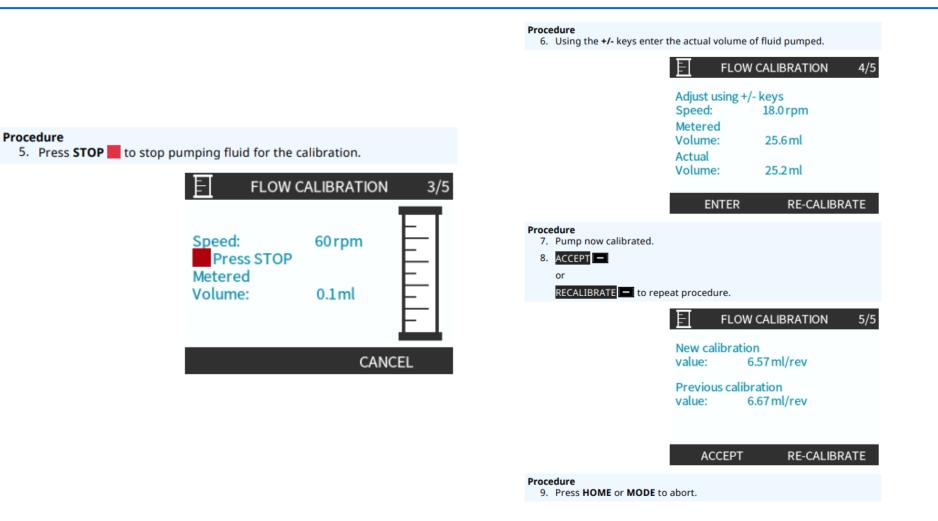


Calibration Procudure – Qdos Universal





Calibration Procudure – Qdos Universal

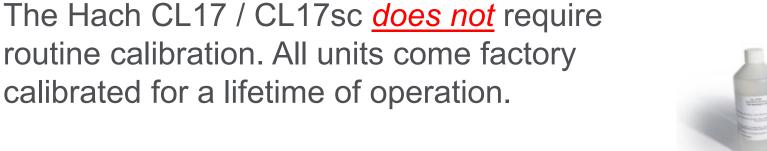




Hach CL17sc & TU5300sc – The Basics







The CL17sc calibration curve is set at the factory for performance to specifications. User adjustment of the factory calibration curve is only recommended in two instances: if required by a regulatory agency for compliance reporting purposes or if a large repair of the analyzer is done.







Hach TU5300sc Calibration



Section 7 Calibration

A WARNING



Chemical exposure hazard. Obey laboratory safety procedures and wear all of the personal protective equipment appropriate to the chemicals that are handled. Refer to the current safety data sheets (MSDS/SDS) for safety protocols.

The instrument is factory calibrated and the laser light source is stable. The manufacturer recommends that a calibration verification be done periodically to make sure that the system operates as intended. The manufacturer recommends calibration as local regulations require and after repairs or comprehensive maintenance work.

Use the optional calibration lid and a vial(s) with a StablCal standard or Formazin standard to calibrate the instrument. Refer to the Calibration lid documentation for more calibration procedures with and without RFID vials, 1-point and 2-point calibrations. As an alternative, use a syringe and StablCal standard or Formazin standard to calibrate the instrument.

Refer to the expanded user manual on www.hach.com to calibrate the instrument and configure the calibration settings.





CL17sc & TU5300sc Maintenance Schedules



7.1 Maintenance schedule

Table 6 shows the recommended schedule of maintenance tasks. Facility requirements and operating conditions may increase the frequency of some tasks.

Table 6 Maintenance schedule

Task	1 month	6 months	As necessary
Clean the cell on page 20	X ²		
Replace the reagent bottles on page 21	x		
Replace the stir bar and tubing harness ³		х	
Clean the screen in the Y-strainer on page 22			x

9.1 Maintenance schedule

Table 2 shows the recommended schedule of maintenance tasks. Facility requirements and operating conditions may increase the frequency of some tasks.

Table 2 Maintenance schedule

Task	1 to 3 months	1 to 2 years	As necessary
Clean the vial on page 23 Note: The cleaning interval is dependent on the water quality.	х		
Clean the vial compartment on page 25			Х
Replace the vial on page 26		Х	
Replace the desiccant cartridge on page 28 Note: The replacement interval is dependent on the ambient humidity, ambient temperature and sample temperature.		X ⁷	
Replace the tubing on page 28			Х



CL17sc

TU5300sc

Questions?







