



ARC^{*} nCS2

Disinfection Procedure Guide

The procedure below outlines the sterilization of internal tubing within the instrument and should not be taken as a complete decontamination of the instrument.

It is our recommendation to add an additional rinse cycle to the shutdown procedure using a sterilization solution (10% bleach) and to manually back flush the solution from the analyte waste bottle (bottle 5).

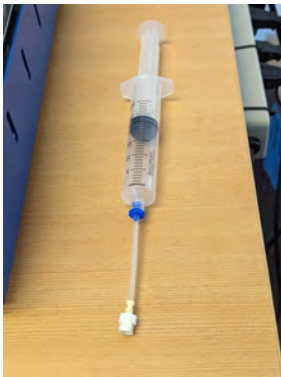
This guide references common procedures and routines used during instrument operation. If you are unfamiliar with the ARC/nCS2, please read the Quick Start Guide or Operation Manual before proceeding.



This protocol is provided as a courtesy to the customer—The customer is responsible for ensuring complete instrument sterilization.

What You'll Need

- 1 A medium sized (~30mL) syringe with tubing and proper fittings
- 2 A prepared sterilizing solution, we recommend 10% bleach
- 3 A small receptacle (i.e. 15 mL conical tube)
- 4 DI water for rinsing
- 5 Kim wipes or paper towels



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1 Perform the shutdown routine

- 1 At the DI water bottle swap prompt, disconnect the buffer bottles and replace with bleach solution filled bottles.
- 2 Continue to the end of the routine – Do not turn off the machine or close the software afterwards.

2 Perform another shutdown routine

- 1 When prompted, swap out the bleach solution with DI water and let the shutdown reach completion – Do not turn off the machine or close the software afterwards.

3 Open the pinch valve for Port 5:

- 1 Click on "Advanced" button under Utilities frame, Figure 1, to open panel.
- 2 Go to "Manual Pressure Control" frame, Figure 2.
- 3 For "P5 OUT", enter a value of '0.0' in the entry and click the 'P5' button. This opens the relevant pinch valve.

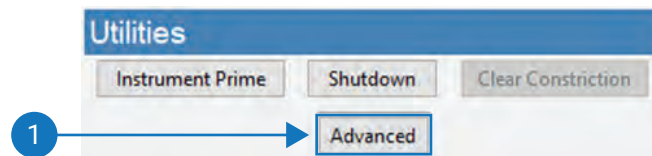


Figure 1: Opening the Advanced Panel

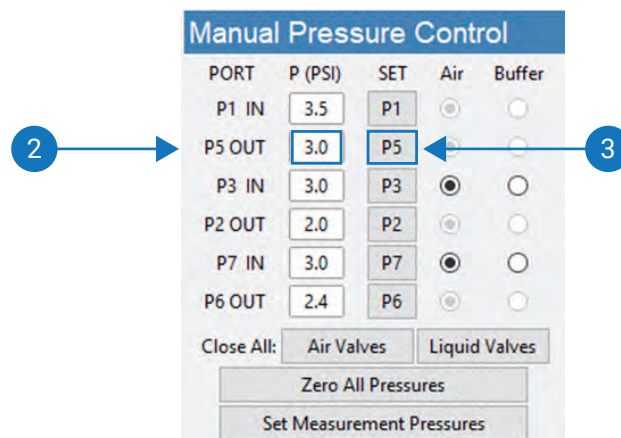


Figure 2: The Manual Pressure Control Panel

4 Go to the Cartridge Interface at the front of the instrument:

- 1 Lift the lever to open the interface and remove the cleaning cartridge
- 2 Put a Kimwipe over the cartridge slot to catch any accidental drips
- 3 Place a receptacle (i.e. 15 mL conical) up against the metal tubes that interface with the cartridge to catch the sterilization solution (bleach) when it drips out of the metal tube. Be careful not to scratch the glass surface of the cartridge slot



Figure 3: Placing the receptacle under the metal tubes

5 Look at the analyte waste bottle (5th bottle on the right)

- 1 The bottles have two tubes that go into the instrument, see Figure 3.
- 2 On the fifth bottle, disconnect the line fitting on the left (Figure 3).
- 3 Fill a 5 mL syringe with bleach solution, connect it to the lower line that goes into the instrument, see Figure 4.



Figure 4: Disconnecting the fifth bottle's fluid line



Figure 5: Connecting the bleach filled syringe to the fifth bottle's fluid line

6 Rinsing the waste analyte fluid line

- 1 Depress the syringe and drive the bleach solution all the way to the front of the instrument – Catch the liquid as it drips out the front.
- 2 Let some liquid stay in the line long enough to sterilize
- 3 Replace the syringe with an air-filled syringe, and blow it dry
- 4 Rinse with a DI-Water filled syringe
- 5 Blow the line dry with an air-filled syringe again

7 Return to the software in the “Manual Pressure Control” frame, Figure 2

- 1 Click Close all ‘Air Lines’
- 2 Click Close all ‘Fluid Lines’

8 Use a Kimwipe to wipe the metal tubes where they contact the cartridge

9 Sterilize the 5th bottle itself

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