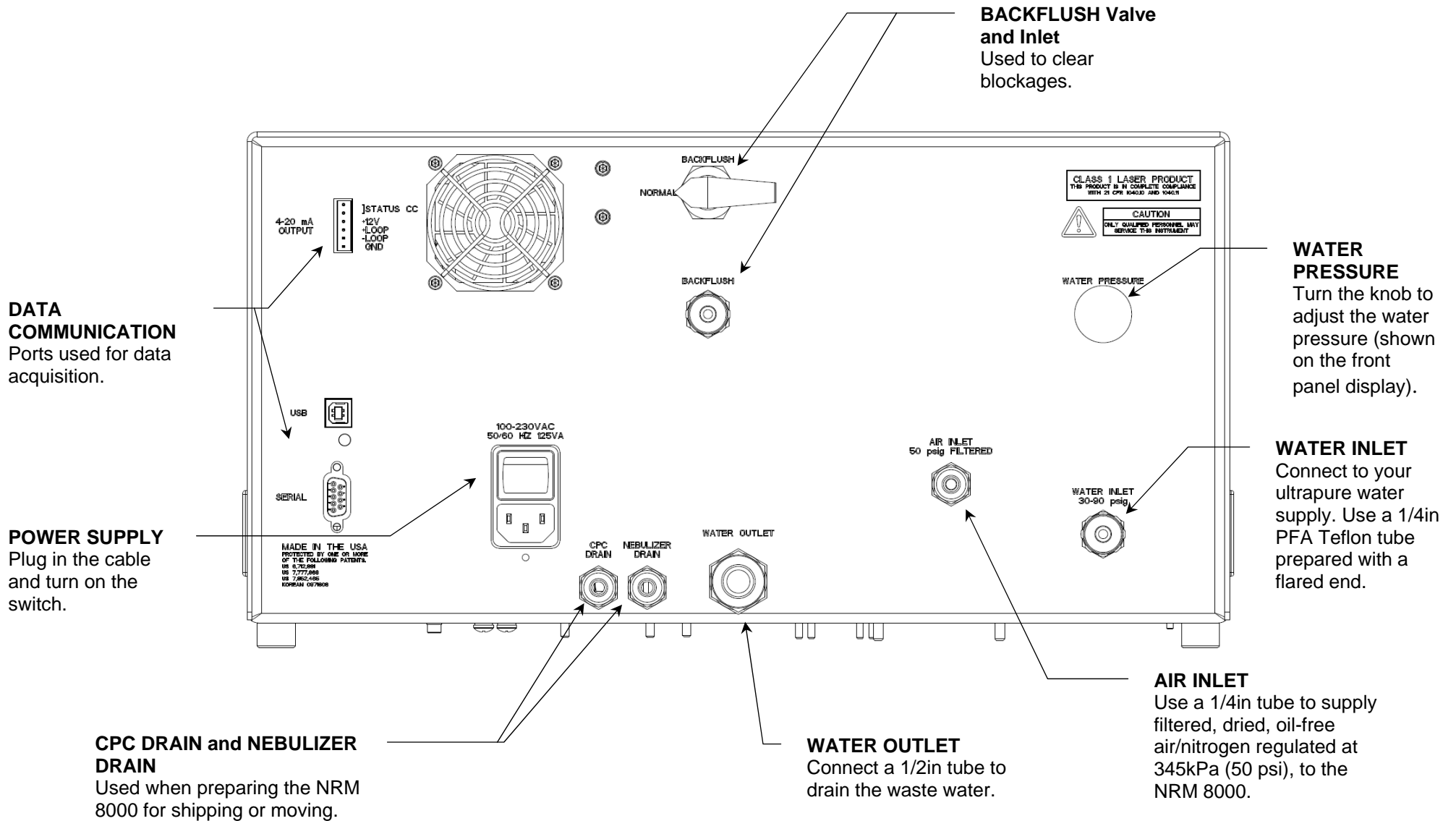


NRM 8000: Quick Installation Guide

Read the NRM 8000 User Manual and follow its detailed instructions to install the NRM at your facility. This Quick Installation Guide is intended to be used for quick reference only.

Make all the connections on the back of the NRM 8000 **before** turning on the instrument.



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Materials and Site Requirements

Be sure you have enough room at the back of the NRM 8000 to perform the installation procedures. Check that you have the following tools, equipment, and site requirements before you begin.

- A bench or instrument cabinet with a level surface at the point of installation.
- Unrestricted air flow around the detector.
- An electrical power supply 115VAC to 230VAC.
- Water from the supply you want to monitor.
- A ¼ in (outside diameter) Teflon PFA tube, flared and fitted with a Flaretek nut, used to deliver the ultrapure water.
- Cleaned dried compressed air, or nitrogen, regulated to 50 psi.
- A ¼ in (outside diameter) plastic tube fitted with a Swagelok nut, used to deliver the compressed air/nitrogen.
- A ½-inch (outside diameter) plastic tube, used to drain waste water from the NRM, and Swagelok nut.
- An adjustable wrench.
- A clean tube cutter.
- Drain for receiving waste water.

Note: No tubing is supplied with the NRM.

Warnings

- During normal operation, do not tilt the NRM 8000 at an angle >10°.
- Drain the NRM 8000 before moving or shipping.
- Do not remove the ceramic wick located behind the wick access port. Unauthorized removal will void any warranty, and necessitate return of the NRM 8000 to the manufacturer.

Installation Instructions

Setting up the NRM 8000 includes the following procedures:

1. **Connecting a compressed air, or nitrogen, supply.** Supply filtered, dried, oil-free compressed air or nitrogen regulated at 50 psi through a ¼ in plastic tube attached to the AIR INLET with a Swagelok nut and ferrule.
2. **Connecting a drain for the waste water.** Drain the waste water through a ½ in plastic tube attached to the WATER OUTLET with a Swagelok nut and ferrule.
3. **Connecting your ultrapure water supply** to the NRM 8000. Ultrapure water must be supplied through a ¼ in flared PFA tube (see instructions below). Connect the tube and turn on the water supply.
4. **Connecting the power supply** and powering on the NRM 8000. Plug in the supplied power cable and switch the power on. The NRM will take 15 minutes to complete its warmup phase. When the warm up is complete, press the DISPLAY button on the front panel once to display the Raw Particle Count and Water Pressure screen. Turn the WATER PRESSURE knob until the pressure reads 25psi.

Preparing the flared PFA tube.

1. Using clean hands and tools, cut the end of a ¼ in PFA tube.
2. Place a Flaretek nut over the tube end and flare the end using either a heat flaring tool or a cold flaring tool.
3. Flush ultrapure water through the tube to clear any debris.
4. Remove the nut and transit plug from the NRM.
5. Insert the prepared tube into the WATER INLET and tighten the nut.
6. Check for leaks. Hand-tighten the nut if necessary.

Refer to the NRM 8000 User Manual for detailed installation procedures.

Fluid Measurement



Technologies, Inc.