

COMPLETE THIS FORM TO INITIATE SUPPLIER SCOUTING

MEPNN Supplier Scouting Opportunity Synopsis

*The submitting organization (MEP Center, requesting company, federal/state agency) agrees to notify NIST MEP of the status of actions taken as a result of this scouting instance within 30 days after receiving a results report. Notification should be via email to scouting@nist.gov, indicating the following:

- Contact with matches identified in report complete and supply contract awarded, process complete
- Contact with matches identified in report complete and no supply contract awarded, process complete
- Contact with matches identified in report complete and supply negotiations underway, process in progress
- Contact with matches identified in report underway; supply negotiations not yet begun; process in progress
- Contact with matches identified in report not yet begun, process in progress
- Contact with matches identified in report will not occur within the next 6-months, process complete

INSERT ITEM NAME HERE

_____ days

Opportunities will be posted for 30 days unless specified

Item to be Scouted

Please describe the item application/ the end use of item.* Provide the item number if applicable: (N95 Mask vs Protective Mask).

Ex: What is it used for? What does the company need it for? For additional guidance....

Supplier Scouting Number (NIST MEP use)

Scouting customer/product [NAICS Code](#), if known

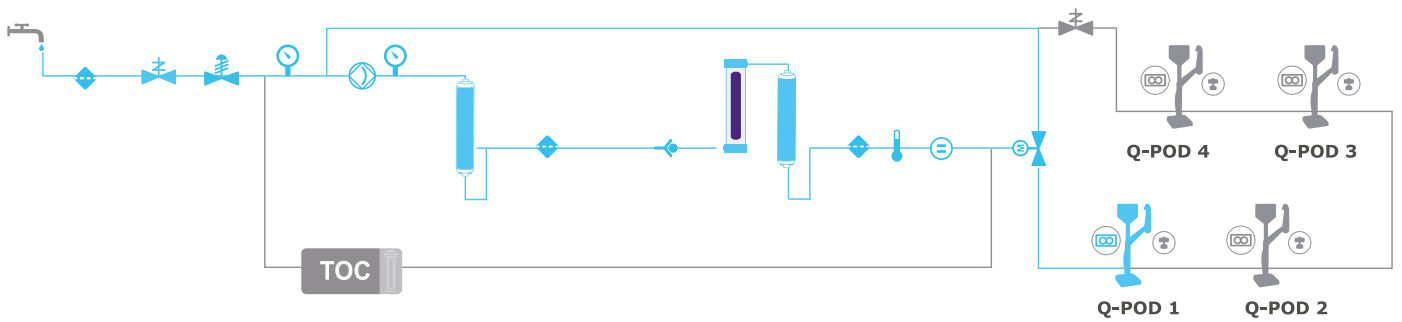
TECHNICAL INFORMATION:	1. Supplier Information	a. Type of supplier being sought*
		<input type="checkbox"/> Manufacturer <input type="checkbox"/> Contract Manufacturer <input type="checkbox"/> Distributor <input type="checkbox"/> Other _____
	2. Summary of Technical Specifications and Performance Requirements:	b. Reason for scouting submission*
		<input type="checkbox"/> 2 nd Supplier <input type="checkbox"/> Price <input type="checkbox"/> Re-shore <input type="checkbox"/> Past supplier no longer available <input type="checkbox"/> New Product Startup <input type="checkbox"/> Other _____
		a. Describe the manufacturing processes (elaborate to provide as much detail as possible).*
		<i>Ex: injection molding, metal casting, electronic assembly;</i>
b. Provide dimensions / size / tolerances / performance specifications for the item.*		
<i>Ex: 16" x 9" sheets; clearance of .005mm;</i>		
c. List required materials needed to make the product, including materials of product components.*		
<i>Ex: Steel plate and rivets; High Density Polyethylene</i>		

BUSINESS INFORMATION:	2. Summary of Technical Specifications and Performance Requirements cont:	<p>d. Are there applicable certification requirements?* <input type="checkbox"/> Yes <input type="checkbox"/> No Please explain</p> <p><i>Ex: Needs to be compliant with Underwriters Laboratory certifications.</i></p>
		<p>e. Are there applicable regulations?* <input type="checkbox"/> Yes <input type="checkbox"/> No Please explain</p> <p><i>Ex: Needs to be compliant with FDA regulations; For additional guidance...</i></p>
		<p>f. Are there any other standards, requirements, etc.?* <input type="checkbox"/> Yes <input type="checkbox"/> No Please explain</p> <p><i>Ex: Needs to be compliant with ASME, IEEE; For additional guidance...</i></p>
		<p>g. Additional Comments: Is there other information that would impact the item's performance or usefulness? Please explain.</p>
BUSINESS INFORMATION:	3. Volume and Pricing	<p>3a. Estimated potential business volume (i.e., # Units Per Day, Month, Year) *:</p> <p><i>Ex: 20 units per week, 150 per month, 5000 units per year;</i></p>
		<p>b. Estimated target price / unit cost information (if unknown, explain) *:</p> <p><i>Ex. \$x.xx per unit, bundle, group;</i></p>
	4. Delivery Requirements:	<p>a. When is it needed by? (Immediate, 30 Days, 6 months, etc.)*</p> <p><i>Ex: Immediate, 2 weeks, 3 months, etc.</i></p>
		<p>b. Describe packaging requirements (i.e., individually/group packaging)*</p> <p><i>Ex: Individually wrapped, palletized, groups of 5;</i></p>
		<p>c. Where will this item be shipped? *</p> <p><i>Ex: city, state; For additional guidance...</i></p>
	5. Additional Comments:	<p>Is there other information you would like to include?</p>

Photos or diagrams of the item (helpful but not required).

Milli-Q® IQ 7000 Flow Schematic

Technical Appendix-1



Feed water



Strainer



Pressure sensor



Check valve



Pump



Pressure regulator



Thermistor



Resistivity cell



Motorized valve



Flow meter



Solenoid valve



Q-POD dispenser



IPAK cartridge



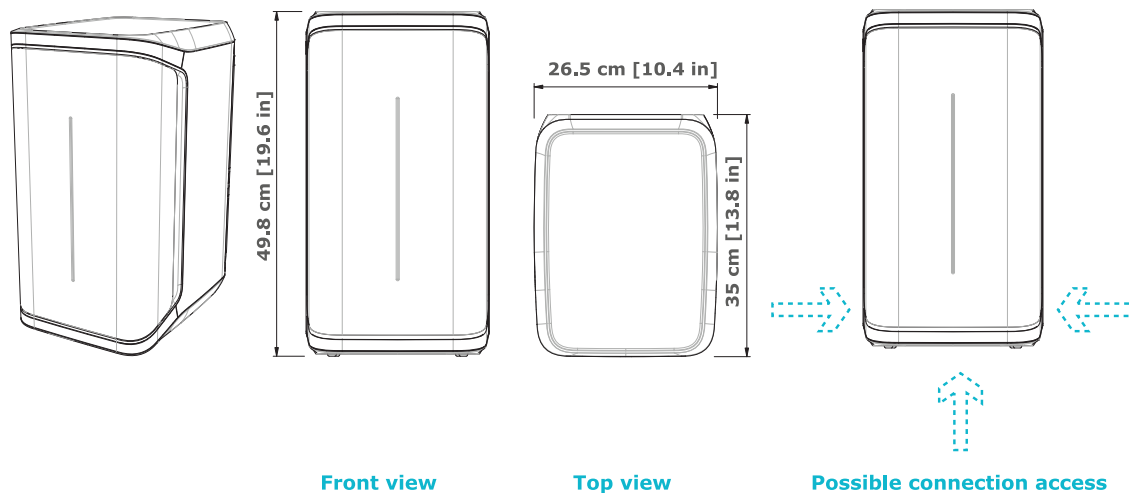
A10 TOC monitor



ech₂o UV oxidation lamp

Production Unit Specifications

Technical Appendix-2



Tubing and port requirements

Item	Description
Feed water port	PE tube dia 6x8 mm, maximum 5 m (16.4 ft) from feed
Water to Q-POD® dispenser and back to production unit	PE tube dia 6x8 mm (inside connector sleeve), maximum length 5 m
Power entry	Connection IEC 13
ON/OFF switch	Available on the unit
Water sensor port	Maximum 3.3 VDC
Tank level adapter port	Maximum 5 VDC
Ethernet port	IEEE P802.3

Electrical connections and specifications

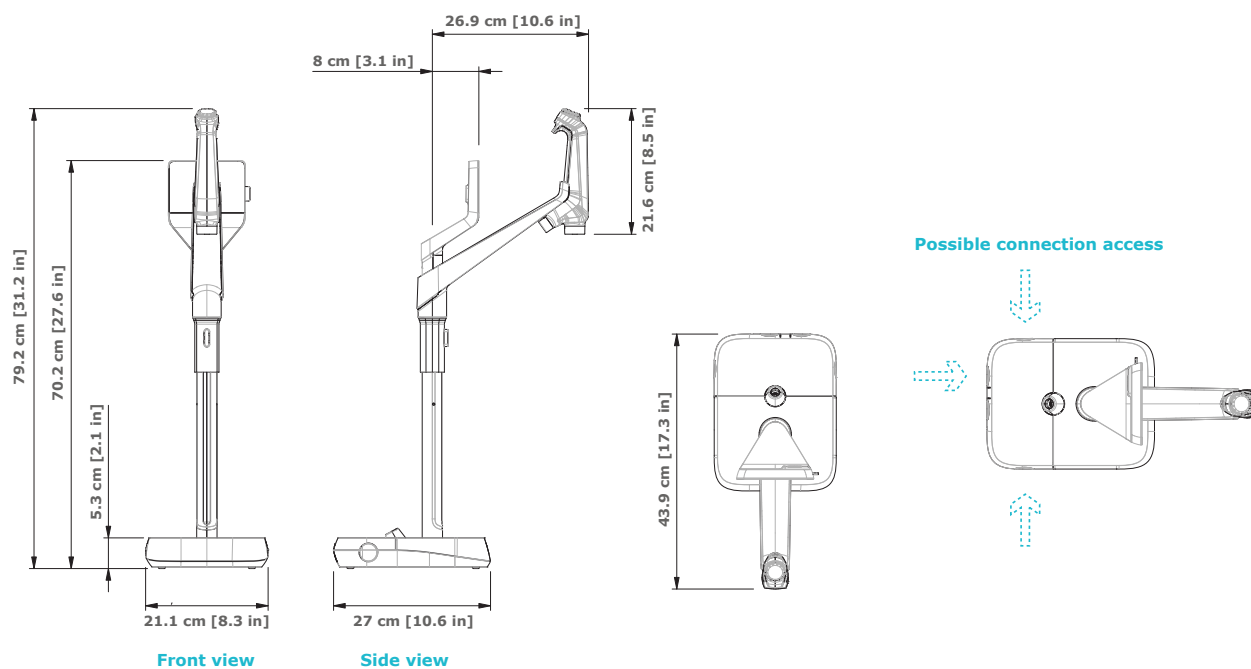
Item	Description
Power source voltage	100 – 240 V ± 10%
Power frequency	50 – 60 Hz at ± 2Hz
Power used	350 VA
Power cord	Length 2.5 m (8.2 ft) Plug: IEC13 female
Operational temperature	4 – 40 °C (39 – 104 °F)
Altitude	3000 m (9842 ft)
RFID frequency	13.56 MHz

Weight (Q-POD not included)

Shipping weight	Dry weight	Operating weight
15 kg (33 lb)	12.46 kg (27.47 lb)	16.06 kg (35.4 lb)

Q-POD® Dispenser Specifications

Technical Appendix-3



Tubing and port requirements

Item	Description
Dispenser tubing length	0.92 m (36.22 in)
Distance from production unit to Q-POD® dispenser	Maximum 5 m (16.4 ft)
Distance between two Q-POD® dispensers (Maximum four Q-POD® dispensers connected in series)	Maximum 5 m (16.4 ft)
Q-POD® dispenser data connection with unit	Ethernet (cable inside connector sleeve)
Q-POD® electrical connection	Q-POD® is powered by the production unit (24 VDC - 28 VDC) (cable inside connector sleeve)
RFID frequency	13.56 MHz
Foot pedal port	3.3 V

Weight

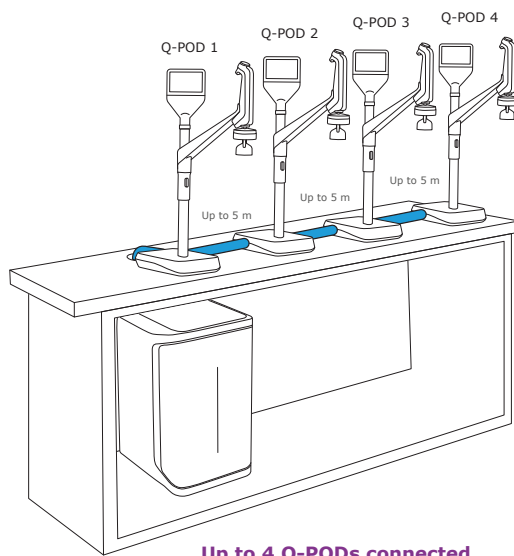
Shipping weight	Dry weight	Operating weight
7.9 kg (17.4 lb)	5.5 kg (12.1 lb)	5.64 kg (12.4 lb)

Screen description & functionalities

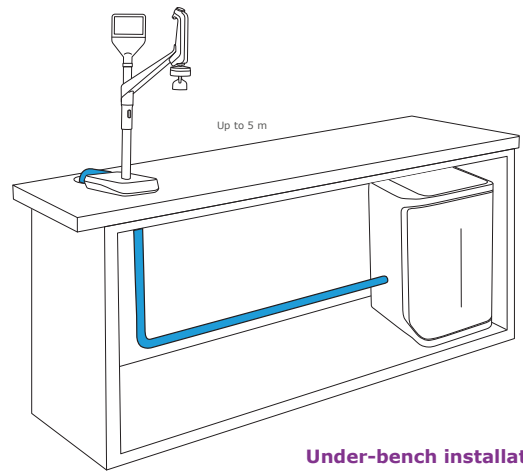
Item	Description
Capacitive touch screen	Size: 5" Resolution: 800 x 480
USB port	USB 2.0 Highspeed standard
Speaker	Impedance: 8 Ω / Max output power: 0.5W
Display in 9 languages	Chinese / English / French / German / Italian / Japanese / Portuguese / Russian / Spanish

Installation Options To Fit Your Requirements

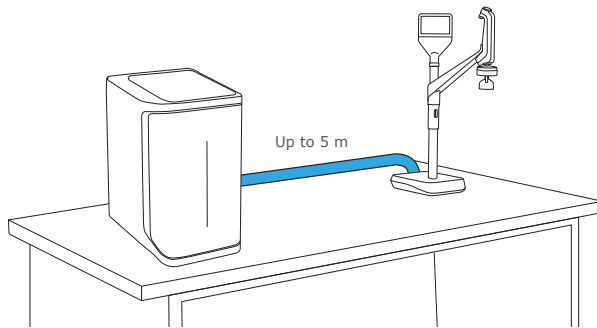
Technical Appendix-4



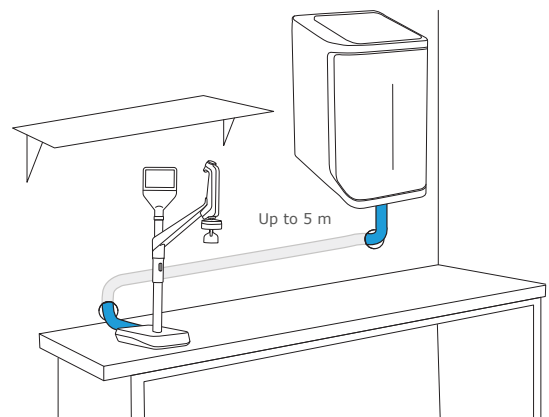
Up to 4 Q-PODs connected



Under-bench installation



Bench-top installation



Wall-mounted installation

Water Specifications International Conformity

Technical Appendix-5

Feed water requirements

Feed water quality	Pretreated water using EDI, DI, RO or distillation technologies
Conductivity at 25 °C	<100 µS/cm
Total Organic Carbon (TOC)	<50 ppb
Pressure range*	Maximum 6 bar
Temperature	5 – 35 °C / 41 – 95 °F

* For pressures between 0 and 0.1 bar, the system will operate, but product flow rate may be lower.

Ultrapure, Type 1 water specifications⁽¹⁾ (from Q-POD dispenser)

Resistivity at 25 °C ⁽²⁾	18.2 MΩ·cm
TOC	≤2 ppb (µg/L) ⁽³⁾ , typically ≤ 5 ppb (µg/L)
Particles ⁽⁴⁾	No particles with size > 0.22 µm
Bacteria	<0.01 CFU/mL ^(4,5) <0.005 CFU/mL ⁽⁶⁾
Pyrogens (endotoxins) ⁽⁵⁾	<0.001 EU/mL
RNases ⁽⁵⁾	<1 pg/mL
DNases ⁽⁵⁾	<5 pg/mL
Proteases ⁽⁵⁾	<0.15 µg/mL
Flow rate	0.05 – 2 L/min

(1) These values are typical and may vary depending on the nature and concentration of contaminants in the feed water.

(2) Resistivity can also be displayed non-temperature-compensated as required by USP.

(3) In the appropriate operating conditions; otherwise typically ≤ 5 ppb.

(4) With Millipak® and Millipak® Gold.

(5) With Biopak®.

(6) With Millipak® Gold installed and used in a laminar flow hood.

International regulation requirements

Declaration of CE and cUL Conformity:

The Milli-Q® IQ 7000 system has been tested by an independent and accredited company for compliance with CE directives related to safety and

electromagnetic compatibility. The report can be consulted on demand. In addition, the Milli-Q IQ 7000 system is built using components and practices recommended by UL and has been cUL marked. The registration can be verified on the UL web site: www.ul.com

We also meet the regulatory requirements of the following organizations:

