

QUANTUM NXT™

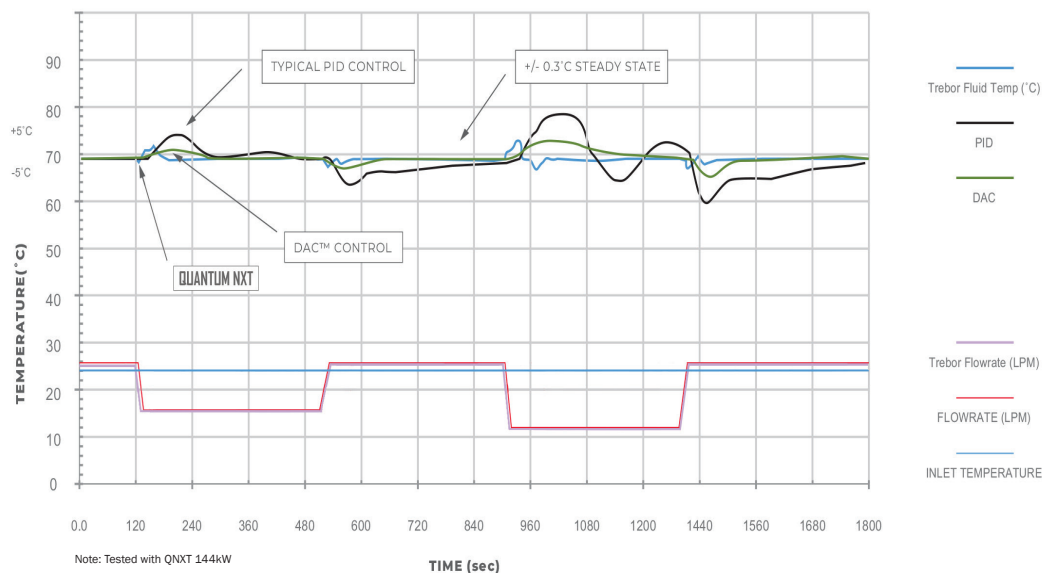
ULTRA-PURE WATER HEATER



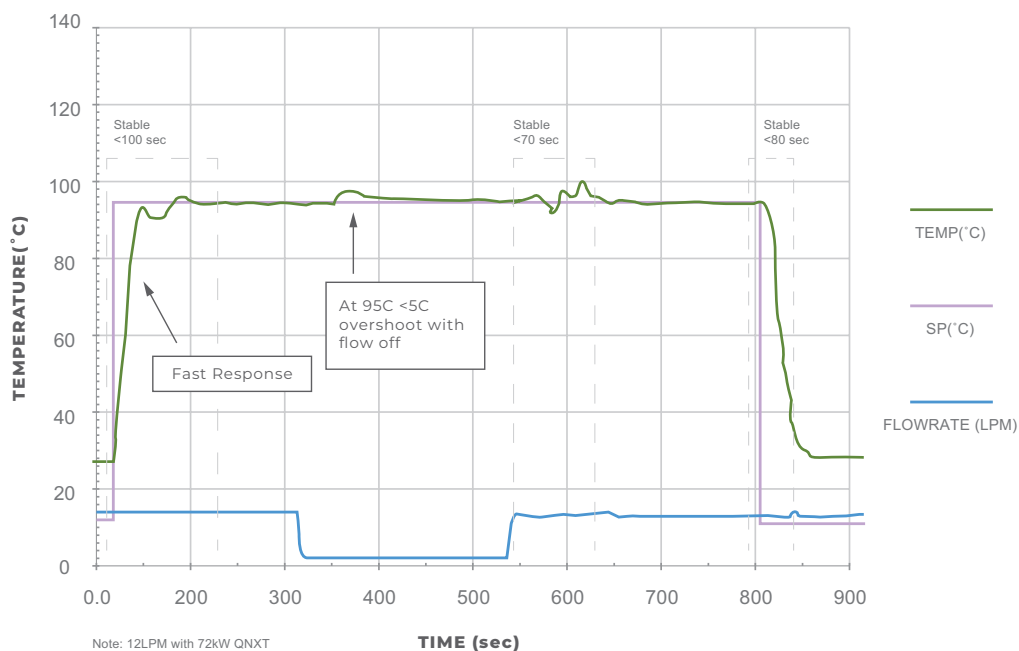
- ▶ **True Eco-Innovation:**
The Quantum NXT™ technology provides both energy and water savings without impacting the demanding requirements of the application.
- ▶ **Leading Edge Technology:**
Patented thin-film on quartz electric resistance heating element provides exceptional temperature response and drastically improved reliability. Our proprietary thin-film on quartz has no metal exposure and eliminates contamination risk in the event of element failure. No external air or nitrogen purge is required with the Quantum NXT™.
- ▶ **Versatile Control Options:**
Multiple communication options are available to meet virtually all unique requirements and protocols. These heaters can be customized to communicate with any wet process tool in the semiconductor industry.
- ▶ **Compact & Convenient:**
The modular element allows for very compact system design and can be changed out in less than 15 minutes when required. LCD color touch screen display provides easy user input and diagnostic feedback.
- ▶ **High Performance:**
Efficient heat transfer and low resident fluid volume produce fast response to changes in flow or temperature set point using multi-loop PID control with zero crossfire SSRs
- ▶ **Ultra Clean Design:**
High purity flow path of GE 214 semiconductor grade quartz, PTFE, and PFA with no elastomer o-rings and no NPT threads or dead-legs to create particle traps.



Quantum NXT™ Performance



Quantum NXT™ Temperature Response Curve



HELPFUL TIP: TO DETERMINE THE OPTIMAL HEATER POWER (kW) OPTION FOR YOUR APPLICATION, PLEASE SCAN THE QR CODE ABOVE.

Power	Voltage			Current (Amps)	# of Heating Modules	Cabinet Size	Weight
20kW	208V			65A	2	Single Door	247 lbs. (112 kg)
40kW	208V			125A	4	Single Door	300 lbs. (136 kg)
60kW	208V			185A	6	Single Door	360 lbs. (164 kg)
80kW	208V			245A	8	Single Door	415 lbs. (188 kg)
30kW		400V		45A	2	Single Door	247 lbs. (112 kg)
60kW		400V		95A	4	Single Door	300 lbs. (136 kg)
90kW		400V		140A	6	Single Door	360 lbs. (164 kg)
120kW		400V		185A	8	Single Door	415 lbs. (188 kg)
150kW		400V		225A	10	Double Door	640 lbs. (290 kg)
180kW		400V		270A	12	Double Door	733 lbs. (332 kg)
210kW		400V		310A	14	Double Door	815 lbs. (369 kg)
240kW		400V		350A	16	Double Door	896 lbs. (406 kg)
36kW			480V	45A	2	Single Door	247 lbs. (112 kg)
72kW			480V	90A	4	Single Door	300 lbs. (136 kg)
90kW			480V	110A	6	Single Door	360 lbs. (164 kg)
108kW			480V	135A	6	Single Door	360 lbs. (164 kg)
120kW			480V	150A	8	Single Door	415 lbs. (188 kg)
144kW			480V	180A	8	Single Door	415 lbs. (188 kg)
180kW			480V	225A	10	Double Door	640 lbs. (290 kg)
216kW			480V	270A	12	Double Door	733 lbs. (332 kg)
252kW			480V	310A	14	Double Door	815 lbs. (369 kg)
288kW			480V	350A	16	Double Door	896 lbs. (406 kg)
Dimensions							
Cabinet Size	Height		Length		Width		
Single Door	72 in (183 cm)		28 in (71 cm)		23 in (58 cm)		
Double Door	72 in (183 cm)		56 in (142 cm)		23 in (58 cm)		



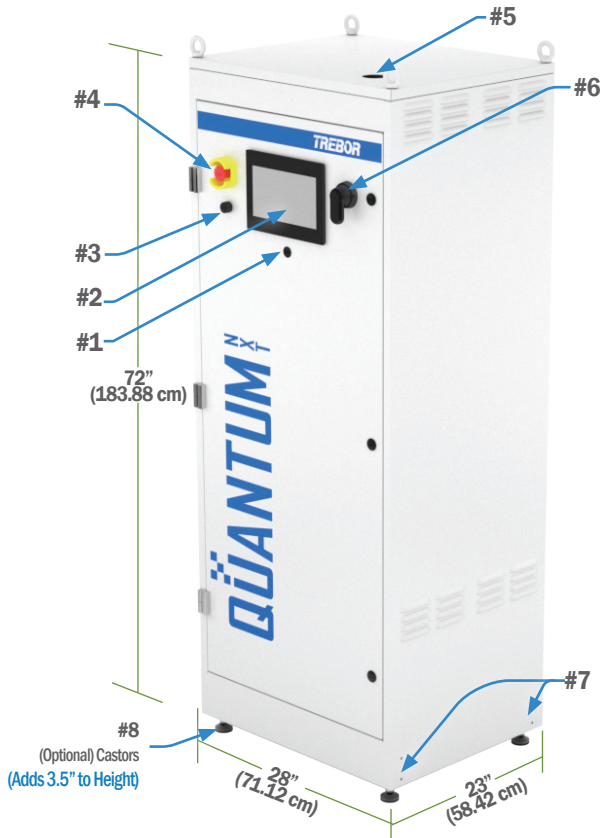
QNXT	144	V480	E	1	F	A1
SERIES	POWER	VOLTAGE	COMMUNICATION	BRANCH MANIFOLD	FEET / SEISMIC	FITTINGS (Inlet, Outlet, Drain)
QUANTUM NXT™	020 kW 030 kW 036 kW 040 kW 060 kW 072 kW 090 kW 100 kW 108 kW 120 kW 144 kW 150 kW 180 kW 216 kW 240 kW 252 kW 288 kW	V208 208V~ V400 400V~ V480 480V~	E - STD ENET S - ENET+SER D - ENET+DIGITAL I/O A - ALL (ENET+SER+I/O) C - CUSTOM	1 - SINGLE OUTLET 2 - DOUBLE OUTLET 3 - TRIPLE OUTLET 4 - QUAD OUTLET	F - STD FEET L - LEVELING CASTERS S - SEISMIC BRACKET W/FEET B - SEISMIC BRACKET W/CASTERS C - CUSTOM	A1 - 3/4" Flare, 3/4" Flare, 3/4" Flare B1 - 3/4" Flare, 3/4" Flare, 3/4" Flare C1 - 3/4" Flare, 3/4" Flare, 3/4" Flare D1 - 3/4" Flare, 3/4" Flare, 3/4" Flare E1 - 3/4" Flare, 3/4" Flare, 3/4" Flare F1 - 1" Flare, 1" Flare, 3/4" Flare G1 - 1" Flare, 1" Flare, 3/4" Flare H1 - 32mm PVDF Socket Fusion In/Out, 3/4" Flare J1 - 32mm PVDF Socket Fusion In, 1" Flare (1.5" Custom Dual Containment), 3/4 Flare
						*Contact For Double Cabinet Options

Example of an order number based on configuration options:

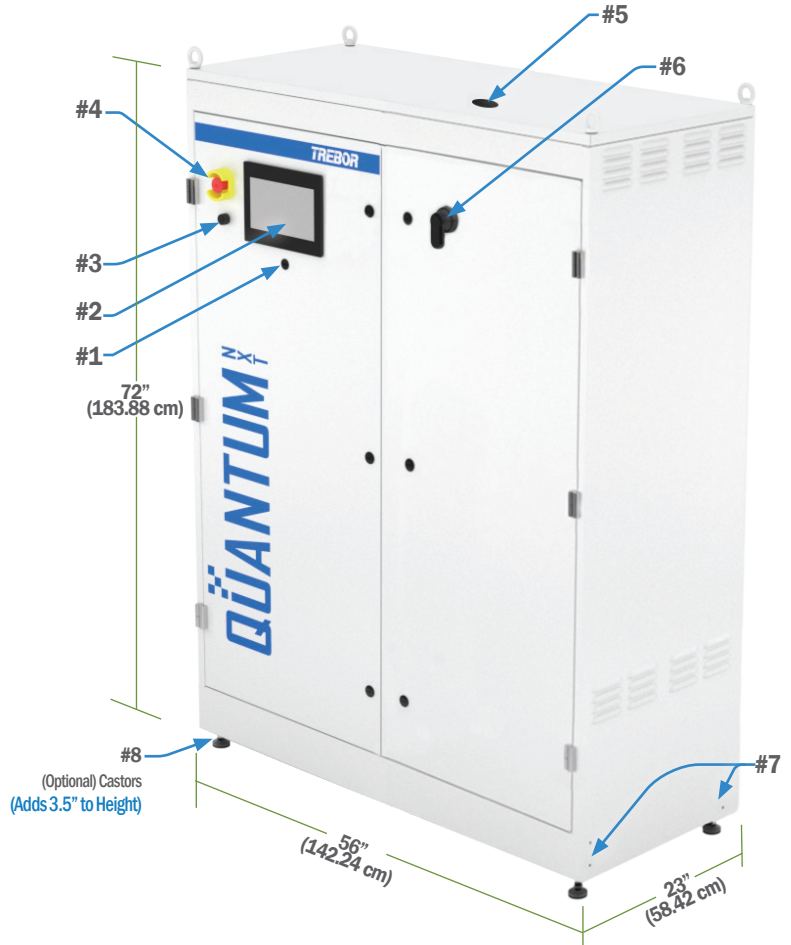
QNXT	144	V480	E	1	F	A1
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Heater Type	Thin-film on quartz electric resistive heating
Voltages	208, 400, 480 Volt; 50/60 Hz
Temperature Limit	95 °C
Temperature Control	± 0.3 °C
Pressure Range	15 to 60 PSI Ultra-Pure Water Supply
Flow Rate	up to 77 LPM (up to 20 GPM); (Multiple output systems available) Trebor heaters do not require a minimum flow rate
Efficiency	>98%
Element Life	>44,000 Hours
Control System	Zero crossfire SSRs with PID Flow Control
Communication Options	Ethernet, Modbus/TCP.
	(Optional) Dry Contact I/O; RS232, Modbus/RTU, RS485; Consult Factory for Other Options
Wetted Surfaces	GE 214 Quartz, PTFE, & PFA
Safety Features	Door Interlocks Low liquid level detection Redundant over temperature protection Resettable overpressure relief valve Open thermocouple detection Liquid spill detection EMO GFI/Earth Leakage
Safety Compliant	SEMI S2 SEMI S8 CE
	
Particle Data	Semi F104 (upon request)
Warranty	24 Months
Filtration (optional)	Defect Reduction
Branched Outlet (optional)	Space Savings & Cost Consolidation
Ground Bonding (optional)	Safety Feature
EMI Straps (optional)	Safety Feature

SINGLE DOOR CABINET



DOUBLE DOOR CABINET



CABINET OVERVIEW

#	External Feature
1	USB Port
2	Color Touch Screen
3	Reset Button
4	Emergency Off Button
5	2" Conduit Main Power Access
6	Main CB Disconnect
7	Anchor Location (Both Sides)
8	Leveling Feet (Adds 1.5" to Height)



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