PROCESS
TECHNOLOGY®

MULTI-LOOP CHEMICAL HEATER

Engineered for your process - manage multiple chambers with one heater! Building off of the popular SHC product line, the Nexus incorporates the same safe indirect heating technology to heat multiple process loops. Using a single heat source, the Nexus improves chamber-temperature matching performance for advanced processing requirements.

NEXUS

FEATURES

Reduced complexity
One set of controls for up to four process chambers.

Small space requirements.

Designed for performance
Allows for precise and stable temperature control for multiple chambers.

Low watt density design for lower surface temperatures.

Engineered for Safety
Heats chemicals and flammable solvents through indirect contact.

Patented purged housing for leak detection.

Advanced Cleanliness
O-ring free and crevice free design eliminates source for contamination.

All PFA wetted surfaces for acids and solvents.

Temperature: Up to 80°C (176° F)		Pressure: Up to 275 kPa (40 PSI)	
Watts: 500W to 2000W		Certifications: CE, UL 499 compliant	
120-600 volts, single phase			

Compatibility

YES	YES	YES	YES	NO
acids	water	bases	solvents	gases

APPLICATIONS

• Semiconductor wafer cleaning

Nexus Multi-Loop Chemical/Solvent Heater

SPECIFICATIONS

Wattages	500 kW to 1400 kW
Voltages	120 volts to 480 volts, single phase
Temperature Range	Up to 80°C (176° F)
Pressure Range	Up to 275 kPa (40 PSI)

Fluid Connections

Inlets:

Low Flow: 6.3mm (¼″) SP300 Nippon Pillar

High Flow: 6.3mm (¼″) SMC Hyperflare

Outlets:

Low Flow: 3.1mm(⅛″) SP300 Nippon Pillar

High Flow: 3.1mm (⅛″) SMC Hyperflare

Safety Features

RTD core sensors

Bi-mettalic over-temp sensor

DIMENSIONS

NEXUS Dimensions		
	Inches	Millimeters
Width	9.25	235
Length	14.25	362
Height	7.64	194

Process Inlets

Process Outlets
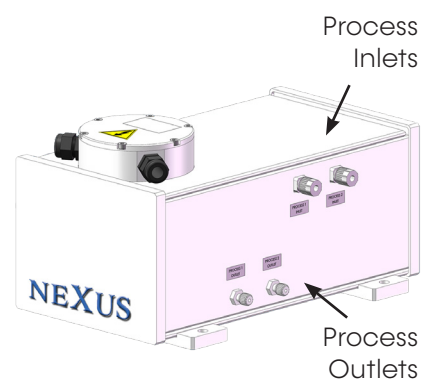
MODEL NUMBER BREAKDOWN

NEX	/	4L	-	1.4	-	6	1	R	Q	H	1	-	R

Nexus Series	/	# flow paths & flow types	-	Wattage	Voltage	Phase	Inlet Connection	Outlet Connection	Sensor Type	TCO Rating	-	Element Type
NEX = Multi-Loop Series		**1L** = 1 path low flow		**.25** = 250	**1** = 208	**1** = single phase	**Q** = 3.1 mm Super 300 Pillar	**Q** = 3.1 mm Super 300 Pillar	**H** = RTD 100	**1** = 90 C		**R** = Resistive
		1H = 1 path high flow		**.4** = 400	**2** = 240		**R** = 6.3 mm Super 300 Pillar	**R** = 6.3 mm Super 300 Pillar				**P** = PTC
		2L = 2 path low flow		**.5** = 500	**3** = 380		**4** = 6.3 mm SMC Hyperflare	**4** = 6.3 mm SMC Hyperflare				
		2H = 2 path high flow		**.75** = 750	**4** = 400		**8** = 3.1 mm SMC Hyperflare	**8** = 3.1 mm SMC Hyperflare				
		3L = 3 path low flow		**.8** = 800	**5** = 415							
		3H = 3 path high flow		**.875** = 875	**6** = 480							
		4L = 4 path low flow		**1** = 1000	**7** = 440							
		4H = 4 path high flow		**1.2** = 1200	**8** = 575							
				1.25 = 1250	**9** = 220							
				1.4 = 1400	**10** = 200							
				1.6 = 1600	**12** = 120							
				2 = 2000	**14** = 600							
					15 = 230							
					16 = 450							