

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.



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 | | | | |
| <input checked="" type="checkbox"/> YES | <input checked="" type="checkbox"/> YES | <input checked="" type="checkbox"/> YES | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| acids | water | bases | solvents | gases |

APPLICATIONS

- Semiconductor wafer cleaning

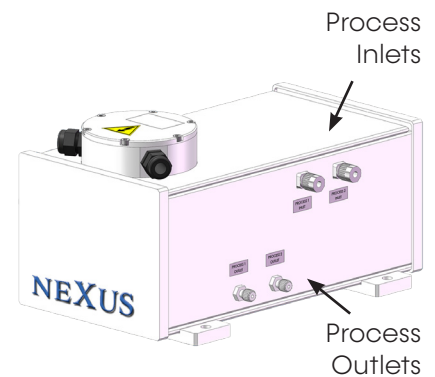
Nexus Multi-Loop Chemical/Solvent Heater

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 | <p>Inlets:</p> <p>Low Flow: 6.3mm (¼") SP300 Nippon Pillar</p> <p>High Flow: 6.3mm (¼") SMC Hyperflare</p> <p>Outlets:</p> <p>Low Flow: 3.1mm(⅛") SP300 Nippon Pillar</p> <p>High Flow: 3.1mm (⅛") SMC Hyperflare</p> |
| Safety Features | <p>RTD core sensors</p> <p>Bi-mettalic over-temp sensor</p> |

DIMENSIONS

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



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 | | | | | | | |