



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 checked="" type="checkbox"/> NO
acids	water	bases	solvents	gases

APPLICATIONS

- Semiconductor wafer cleaning

DATA SHEET

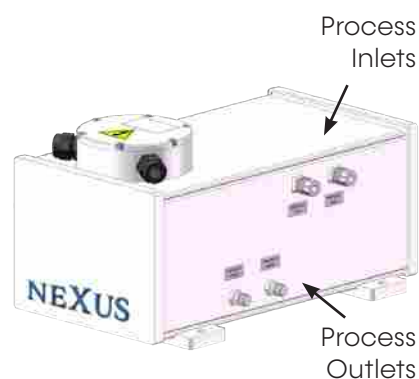
Nexus Multi-Loop Chemical/Solvent Heater

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

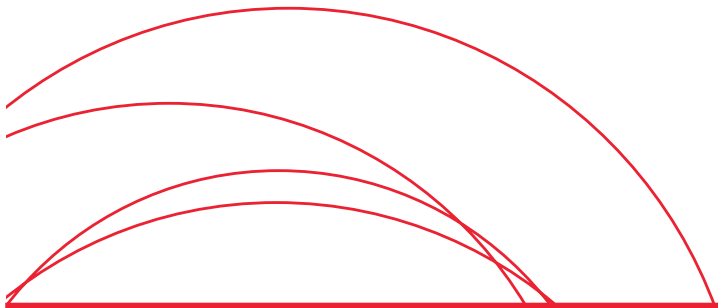
NEXUS Dimensions		
	Inches	Millimeters
Width	9.25	235
Length	14.25	362
Height	7.64	194



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							

HCQ
Quartz Inline Chemical Heater








ULTRA-PURE QUARTZ HEATING

The HCQ Quartz Inline Heater provides a minimal footprint, space-conscious design combined with ultra-pure, high-purity 100% quartz construction. The Isolated heating element virtually eliminates process contamination while multiple plumbing configurations ensure ease of operation.



FEATURES

- Outstanding Cleanliness:**
No ionic or bacterial contamination with 100% high purity quartz construction.
- Easy Maintenance with Minimal Downtime:**
Plug-in heater element is easily replaced in minutes. Fluid connections remain intact, eliminating the need for system re-qualification.
- Reliable:**
Patented purge cooling system significantly extends heater element life versus conventional designs.
- Low Cost of Ownership:**
Heating element can be field replaced without disturbing the plumbing connections or affecting the integrity of the chemistry.
- Secondary Containment:**
PTFE housing acts as a maintenance-free secondary containment vessel to help protect the environment from chemical spills.
- Excellent Responsiveness:**
Halogen lamps provide instantaneous start-up & rapid response with excellent temperature stability under varying flow rates.
- No O-Rings:**
Eliminates process contamination associated with o-rings. Leak-free operation assured.
- No Dead Zones:**
Tangential flow pattern eliminates stagnant zones in the heater. The heater is self-draining & self-venting (upon proper installation).
- Low Pressure Drop:**
Minimal pressure drop for high-circulation applications.

 <p>Temperature: Up to 185°C (365° F)</p>	 <p>Pressure: Up to 345 kPa (50 PSI)</p>
 <p>Watts: 0.75 to 12kw</p>	 <p>Certification: ETL certified to UL499 compliant, CE compliant, Conforms to SEMI S2 standards</p>
 <p>Volts: 208 to 480 volts, single or three phase</p>	

APPLICATIONS

- Semiconductor Wafer Cleaning

SELL SHEET

HCQ Quartz Inline Chemical Heater

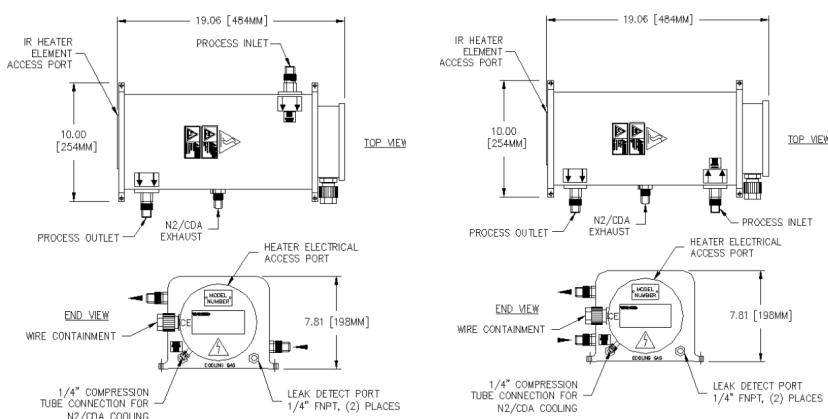
SPECIFICATIONS

Wattages	750 to 12,000 watts .
Voltages	200 volts to 480 volts, single phase or 3 phase. Consult factory for specific wattage/voltage combinations available.
Temperature Limit	Up to 185°C (365° F)
Pressure Rating	Up to 345 kPa (50 PSI).
Inlet/Outlet	19mm (3/4") MNPT flare quartz connections.
Purge Gas	Patented system using 3.5 SCFM (min) clean dry air (CDA) or nitrogen (N ₂) 6.35mm (1/4") O.D. tube connector.
Flow Rate	Up to 100 lpm.
MTTR	10 minutes (with adequate access).
MTBF	In excess of 20,000 hours.
Temperature Accuracy	1° C, depending on operating conditions.
Heating Element	IR halogen lamps.
Housing	100% PTFE with viton o-rings (non-wetted). Conforms to FM material standards.
Safety Features*	Heater housing over-temperature shutoff & alarm ("J" type thermocouple and redundant bi-metallic snap switch). Purge gas verification & interlock. *Requires controller interface.

MODEL NUMBER BREAKDOWN

HCQ 1.5		208		1		1	
HCQ Series	Wattage (kW)	Voltage	Phase	Configuration			
1.5 = 1,500		208	1 = Single Phase	001 = Standard			
2 = 2,000		240	3 = Three Phase				
2.25 = 2,500		380					
3 = 3,000		400					
4 = 4,000		415					
4.5 = 4,500		480					
5 = 5,000		440					
5.5 = 5,500		220					
6 = 6,000		200					
6.75 = 6,750							
7.5 = 7,500							
8 = 8,000							
8.3 = 8,300							
9 = 9,000							
10 = 10,000							
11.2 = 11,200							
12 = 12,000							

DIMENSIONS



DATA SHEET

For more immediate needs please call us at 262-253-4800 and one of your experienced knowledgeable staff will help you!



SUPERIOR INDIRECT HEATING

The SHB/SHC, a low wattage inline chemical/solvent heater, delivers superior indirect heating with temperature stability. Using multiple temperature sensors and self-limiting technology, this heater ensures safe operation during low or no-flow conditions.



SHB/SHC

FEATURES

Engineered for Safety

- Optimized to safely heat chemicals and flammable solvents through indirect contact
- Redundant temperature sensors ensure safe operation
- PTC (self-limiting) heating technology standard

Advanced Cleanliness

- O-ring free and crevice free design eliminates source for contamination
- SHB series: Electropolished 316SS for solvents
- SHC series: PTFE & PFA wetted surfaces for acids and solvents

Designed for performance

- Allows for precise and stable temperature control
- Low watt density design for lower surface temperatures

Temperature: Up to 180° C (356° F)	Pressure: Up to 1379 kPa (200 PSI)			
Watts: 250W to 2000W	CE, ETL (tested to UL823 compliant, UL499 compliant and CSA C22.2)			
120 to 480 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
- Etching
- Inline Chemical Heating

DATA SHEET

SHB/SHC Chemical and Solvent Heater

SPECIFICATIONS

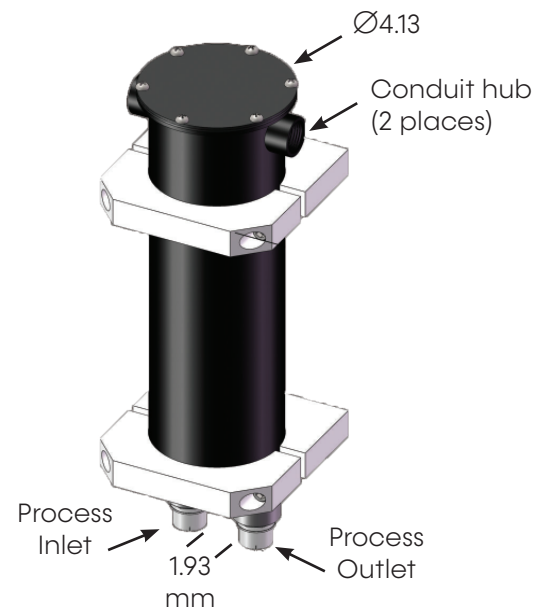
Wattages	250W to 2000W
Voltages	120 volts to 480 volts, single phase
Temperature Range	Up to 180°C (356° F).
Pressure	1379kPa (200 PSI) at 180°C (356° F)
Fluid Connections	3mm, 6mm, 9mm or 12mm. Custom connections available.

MODEL NUMBER BREAKDOWN

SH	C	.875	1	1	V	V	H
Series	Wetted Material	Wattage	Voltage	Phase	Inlet Plumbing Connections	Outlet Plumbing Connections	Element Sensor Type
SH = Solvent	B = 316SS (EP)	.25 = 250	1 = 208V	1 = single phase	O = 5/16" Tube Stub (SHB Only)	O = 5/16" Tube Stub (SHB Only)	K = K-type TC
	C = Fluoropolymer	.4 = 400	2 = 240V		Q = 1/8" Super 300 Pillar	Q = 1/8" Super 300 Pillar	E = E-type TC
		.5 = 500	3 = 380V		R = 1/4" Super 300 Pillar	R = 1/4" Super 300 Pillar	J = J-type TC
		.75 = 750	4 = 400V		T = 3/8" Super 300 Pillar	T = 3/8" Super 300 Pillar	H = 100-Ohm RTD (3-wire)
		.8 = 800	5 = 415V		V = 1/2" Super 300 Pillar	V = 1/2" Super 300 Pillar	R = 1000-Ohm RTD (2-wire)
		.875 = 875	6 = 480V				
		1 = 1000	7 = 440V				
		1.2 = 1200	8 = 575V				
		1.25 = 1250	9 = 220V				
		1.4 = 1400	10 = 200V				
		1.6 = 1600	11 = skip				
		2 = 2000	12 = 120V				
			13 = skip				
			14 = 600V				
			15 = 230V				

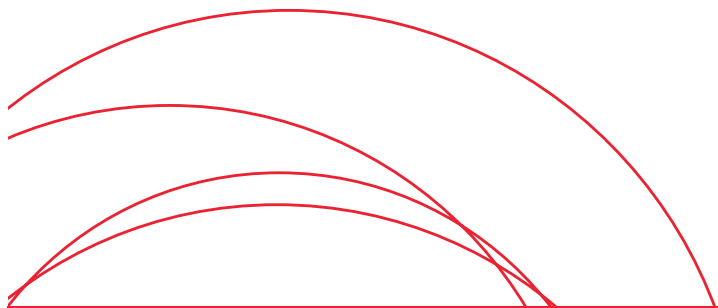
DIMENSIONS

Wattage*	L - Length	
	Inch	mm
250	7.38	187
500	10.13	257
750	13.12	333
1000	16.12	409
1250	19.12	486



DATA SHEET

Frontier Chemical / Solvent Heater



Frontier is designed for heating chemicals and solvents in hazardous operating environments. Suitable for heating a wide variety of flammable and non-flammable chemistries using electropolished stainless steel wetted materials for improved cleanliness. Offers outstanding performance over a wide range of flow and temperature requirements. Available up to 36kW, the Frontier is the most powerful inline solvent heater available.



FEATURES

Engineered for Safety

- Heat source isolated from flammable chemistries
- Certified to UL823 compliant and ATEX
- Suitable for Class I, Div 2 and Zone 1 & 2 hazardous environments

Indirect Heating Design

- Provides an evenly heated surface and reduces surface temperatures and hot spots
- Improves chemical longevity and performance for temperature-sensitive chemicals

Advanced Cleanliness

- Electropolished 316SS wetted surfaces and no o-rings in the flow path minimizes contamination of the process liquid
- Crevice-free design reduces risk of contamination
- Non-cast design maintains quality of electropolished surfaces

Designed for Performance

- More available heating power than other inline solvent heaters (up to 36kW)
- Lower mass for faster response time
- Minimizes fluid pressure drop even at very high flow rates (>60 LPM)

Temperature: Up to 180°C (356° F)	Pressure: Up to 690 kPa (100 PSI)
Watts: 3kW- 36kW, *ATEX Zone 1 & 2, 3-18kW	CE, S2, UL823, CSA22.2, ATEX Ⓜ II 2G Ex eb IIc T2 Gb, ATEX Ⓜ II 3G Ex nc IIc T4 Gc
120 to 480 volts, 3 phase standard), single phase (optional), *ATEX Zone 1 & 2, 200- 480V, Single or 3 Phase	

APPLICATIONS

- Semiconductor
- Sterilization/Cleaning
- Electroless Nickel Plating

COMPATIBILITY				
NO	YES	YES	YES	NO
acids	water	bases	solvents	gases

DATA SHEET

Frontier Chemical and Solvent Heater

APPLICATIONS

- Semiconductor
- Medical Device Cleaning
- Electroless Nickle Plating

SPECIFICATIONS

Wattages	3 kW to 36 kW
Voltages	120 volts to 480 volts, Single phase or 3 phase
Temperature Range	Up to 180° C (356° F).
Pressure Range	689 kPa (100 PSI)
Fluid Connections	12mm, 19mm, or 25mm Custom connections available
Safety Features	Grounded construction Bimetallic TCO Insulated Housing

DIMENSIONS



Wattage	L - Length	
	kW	Inch
3-6	12.63	321
9-12	18.13	461
18-24	29.13	740
36	40.13	1019

MODEL NUMBER BREAKDOWN

Series	Element Type	Wetted Material	Wattage	Voltage	Phase	Plumbing Connections (316SS)	# of Sensors	Overtemp Sensor Type	# of TCO	TCO type	Flow Configuration	Overall Length	Options
F = Frontier	R = Resistive style P = PTC style (comma)	S = 316SS (EP)	3 = 3000 6 = 6000 9 = 9000 12 = 12000 18 = 18000 24 = 24000 36 = 36000	1 = 208V 2 = 240V 3 = 380V 4 = 480V 6 = 415V 7 = 440V 8 = 575V 9 = 220V 10 = 200V 11 = skip 12 = 120V 13 = skip 14 = 600V 15 = 230V	1 = single phase 3 = three phase	-SN50 = 1/2" Non Threaded Tube Stub -SN75 = 3/4" Non Threaded Tube Stub -SN100 = 1" Non Threaded Tube Stub -SV50 = 1/2" Swagelok VCR connections -V75 = 3/4" Swagelok VCR connections -SF50 = 1/2" Sanitary Flange -SF75 = 3/4" Sanitary Flange -SF100 = 1" Sanitary Flange	1 3	K = K-type TC E = E-type TC H = 100-Ohm RTD (3-wire) R = 1000-Ohm RTD (2-wire)	1 3	1 = 232°C TCO. For applications up to 125°C 2 = 268°C TCO. For applications between 125-200°C 3 = Non-Hermetically sealed 270°C TCO 4 = Non-Hermetically sealed 232°C TCO (for applications up to 125°C) 5 = Non-Hermetically sealed 288°C TCO (for applications up to 200°C) <small>*Are not UL 823</small>	L = Low flow range: (0-30) lpm M = Medium flow range: (20-80) lpm H = High flow range: (60-1) lpm	1 = 12.63" Overall Length 2 = 18.13" Overall Length 3 = 29.13" Overall Length 4 = 40.13" Overall Length	Blank = No Options X_# = With Wire (specify length in inches and conduit position (ex. X180A) NE = Non-electropolished ## = TBD as needed #### = Custom Clean req

DATA SHEET

For more immediate needs please call us at 262-253-4800 and one of your experienced knowledgeable staff will help you!



BEST IN CLASS CHEMICAL HEATER

The TIH offers unmatched performance and reliability with the ability to heat a variety of chemicals up to 210°C. This heater is suitable for either single pass or recirculating applications. Delivers best-in-class performance over a wide range of flow and temperature requirements. The TIH is the most durable and long-lasting inline chemical heater available!



TIH

FEATURES

Designed for Performance and Safety

- High-temperature configuration available to heat chemicals up to 210°C
- Multiple plumbing layouts available to better facilitate installation into a variety of tool configurations
- Grounded electric heating elements
- Redundant temperature sensors for safe operation
- Optional O-ring free construction minimizes contamination

Durable Constuction

- Patented purge design removes chemical permeation to extend service life
- All fluoropolymer-wetted surfaces withstand virtually any wet chemistries
- Heavy-wall PTFE chamber and heater sheath for high temperature/pressure applications

Temperature: Up to 210°C (410° F)	Pressure: 689 kPa (99.93 PSI) at 25°C (77° F), 296 kPa (42.93 PSI) at 180°C (356° F)			
Watts: 1kW to 18kW				
200 to 600 volts, Single phase or 3 phase	CE, UL compliant, SEMI S2			
Compatibility				
<input checked="" type="checkbox"/> YES acids	<input checked="" type="checkbox"/> YES water	<input checked="" type="checkbox"/> YES bases	<input type="checkbox"/> NO solvents	<input type="checkbox"/> NO gases

APPLICATIONS

- Semiconductor wafer cleaning
- Solar/Photovoltaic Wafer Cleaning
- Inline chemical heating

DATA SHEET

TIH In-line Chemical Heater

SPECIFICATIONS

Wattages	1kW to 18kW
Voltages	200 volts to 600 volts, single phase or 3 phase. 12kW & larger require 3 phase.
Temperature Range	Up to 210° C (410° F).
Pressure Range	689 kPa (99.93 PSI) at 25°C (77° F) 296 kPa (42.93 PSI) at 180°C (356° F)
Fluid Connections	6 to 25mm flared 12 to 25mm Super 300 Type Pillar® Other connections available, consult factory
Wetted Surfaces	PFA and PTFE fluoropolymer No wetted "O" rings
Dimensions	225mm (8.86 inch) x 508mm (20 inch) x 147mm (5.79 inch)
Element Purge	Small amount of clean dry air (CDA) or N2 gas flows between the grounded element & PTFE sheath. Removes chemical permeation and minimizes ionic contamination for longer life.

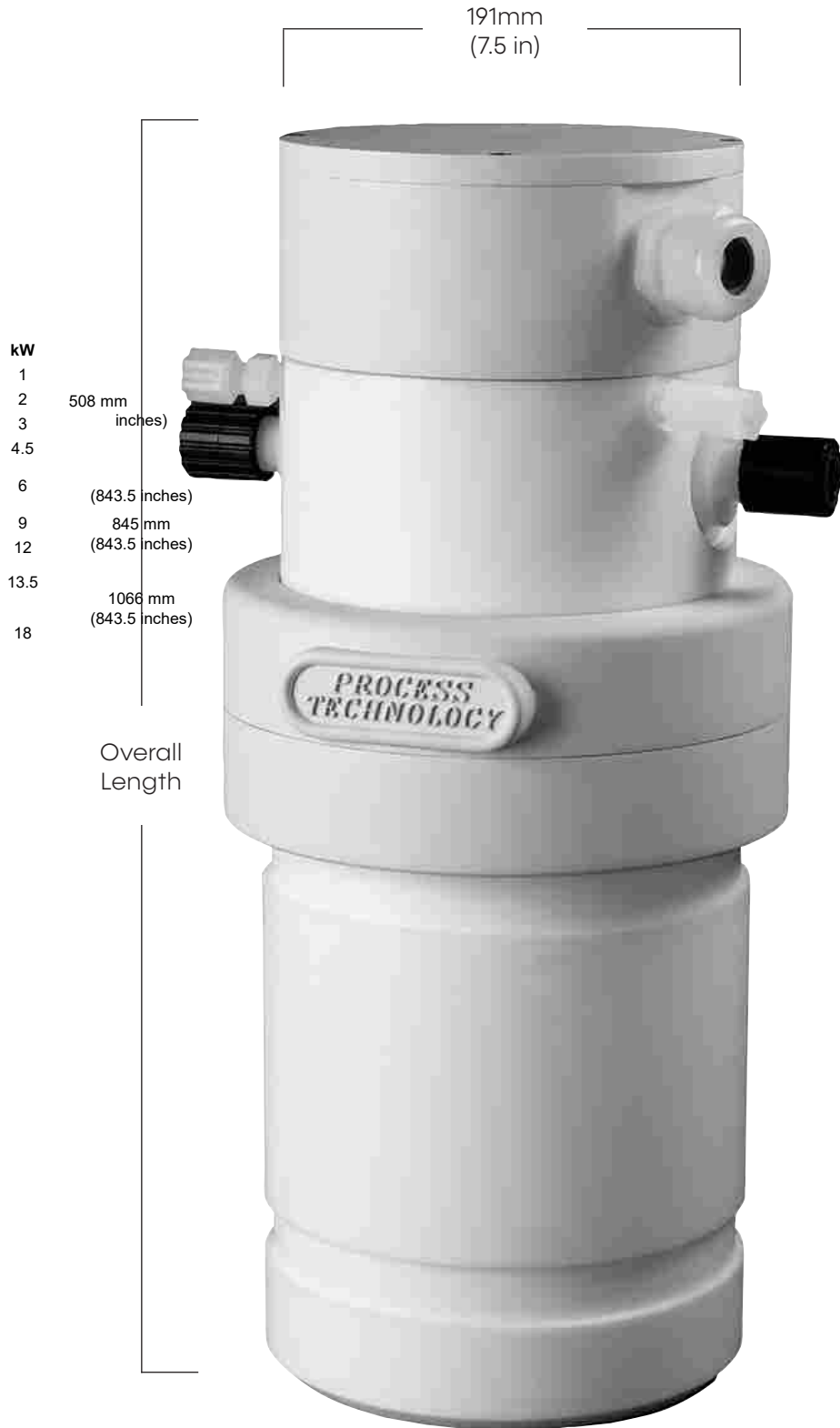
MODEL NUMBER BREAKDOWN

TIH	6	3	1	B	A	S	R	R
TIH series	Wattage, kW	Voltage	Phase	Inlet and Outlet Connections	Drain Connection	Plumbing Configuration	Process sensor type	Overtemp sensor type
	01 thru 18	1 = 208V	1 or 3	A = 1/2 inch Flared	O (or 0) = No Drain	S = Straight (180° opposed inlet, outlet, center-bottom drain)	J = Type J thermocouple	E = Type E thermocouple
		2 = 240V		B = 3/4 inch Flared	A = 1/2 inch Flared	R = Bottom side inlet, rotated 90° to right of outlet (center-bottom drain)	K = Type K thermocouple	K = Type K thermocouple
		3 = 380V		C = 1 inch Flared	B = 3/4 inch Flared	L = Bottom side inlet, rotated 90° to left of outlet (center-bottom drain)	H = 100-Ohm RTD (2-wire)	H = 100-Ohm RTD (2-wire)
		4 = 400V		S = 3/8 inch Flared	S = 3/8 inch Flared	E = Bottom side inlet, rotated 180° from outlet (center-bottom drain)	R = 1000-Ohm RTD (2-wire)	R = 1000-Ohm RTD (2-wire)
		5 = 415V		T = 3/8 inch Super 300 Pillar	T = 3/8 inch Super 300 Pillar	A = Bottom side inlet, directly below outlet (center-bottom drain)	O = No process sensor	
		6 = 480V		U = 25mm union	V = 1/2 inch Super 300 Pillar	B = Bottom inlet center of bottom, (standard no drain, side bottom drain if required)		
		7 = 440V		V = 1/2 inch Super 300 Pillar	W = 3/4 inch Super 300 Pillar	C = Straight (side-drain, below inlet)		
		8 = 575V		W = 3/4 inch Super 300 Pillar	Y = 1/4 inch Super 300 Pillar	D = Straight (side-drain, below outlet)		
		9 = 220V		X = 1 inch Super 300 Pillar	Z = 1/4 inch Flared	H = Horizontal design (similar to B, but with drain on lower side, opposite outlet)		
		10 = 200V		4 = 20mm union	4 = 20mm union	Other configurations = issue new plumbing designation		
		14 = 600V						
		15 = 230V						
		16 = 450V						

DIMENSIONS

VERTICAL CONFIGURATION	
kW	LENGTH
1	463 mm (18.23 inches)
2	
3	
4.5	667 mm (843.5 inches)
6	
9	870 mm (843.5 inches)
12	870 mm (843.5 inches)
13.5	1022 mm (843.5 inches)
18	1073 mm (843.5 inches)

HORIZONTAL CONFIGURATION	
kW	LENGTH
1	508 mm (20 inches)
2	
3	
4.5	
6	629 mm (843.5 inches)
9	845 mm (843.5 inches)
12	845 mm (843.5 inches)
13.5	1066 mm (843.5 inches)
18	





Lufran Chemical Series Heater

Featuring the fusion of two successful products, the Lufran Chemical Series offers the safe heating capabilities of Frontier (inline chemical heater) in a complete turn-key heating system. With stainless steel wetted materials this heater is suitable for either single pass or recirculating applications for heating a variety of chemicals. Offers outstanding performance over a wide range of flow and temperature requirements. A complete high wattage turn-key heating solution.



Temperature: Up to 180°C	Pressure: Up to 689 kPa (100 psig)			
Watts: 36kW thru 108kW	Certifications: UL499 compliant, SEMI S2/S3 and CE certification (pending)			
Volts: 208 to 600 V, single or three phase				
Compatibility				
<input type="radio"/> NO acids	<input checked="" type="radio"/> YES water	<input checked="" type="radio"/> YES bases	<input type="radio"/> NO solvents	<input type="radio"/> NO gases

NEW!

FEATURES

Complete (turn-key) System

- Only plumbing and main power required
- Allows for fast and easy installation
- Space saving design minimizes footprint requirements

Suitable for Chemical Heating

- Indirect heating provides an evenly heated surface
- Low watt density design reduces surface temperatures and hot spots
- Improves chemical longevity and performance for temperature-sensitive chemicals

Designed for Performance

- More available heating power than other inline chemical heaters
- Lower mass faster response time
- Minimizes fluid pressure drop even at very high flow rates (>60 LPM)
- Crevise-free design eliminates dead-zones

PID Temperature Control

- Provides precise and stable temperature for improved process consistency and yields
- Minimizes temperature fluctuations with flow rate changes

APPLICATIONS

- Solar/Photovoltaic
- Medical Device Cleaning
- Semiconductor
- Electroless Nickle Plating

ChemHeat High-Purity | In-Line Chemical Heater



NEW - SMALL FOOTPRINT CHEMICAL HEATER

Best-in-class heating for wet-process chemistries. Designed to support advanced Ultra High-Purity (UHP) requirements. ChemHeat flow path utilizes all fluoropolymer wetted materials, an o-ringless sealing design, and the capability to detect any breach in the fluid path. Suitable for all non-flammable chemistries in either single pass or recirculating flow applications.



ChemHeat

FEATURES

Innovative Design for Ultra-High-Purity (UHP)

- Cleanroom assembled
- Chemistry contained within PTFE tubing to eliminate environmental exposure
- No wetted o-rings
- Patented purge technology detects breaches in the fluid path, prevents chemical permeation and extends heater life (MTFB).

Modular & Configurable

- Reduced tool design space requirements
- Easily retrofits to existing tools
- Customized inlet/outlet options available

Low Internal Volume

- Fast heat-up
- Reduced chemistry costs
- Precise and stable temperature control

Safety & Reliability

- Internal grounding clear of the fluid path
- Lower surface temperatures
- Extended life of heater due to patented purge protection

APPLICATIONS

- Semiconductor Wet Processes
- Filtration
- Sterilization/Cleaning
- Surface Finishing

Temperature: Up to 203°F (95°C)	Pressure: Up to 475 kPa (69 PSI) at 95°C (203°F)			
Watts: 2kW to 6kW	Certifications: CE, UL 499, CSA C22.2 #88, Semi S2			
Volts: 120 to 480 volts, Single phase or 3 phase				
Compatibility				
<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> NO
acids	water	bases	solvents	gases

DATA SHEET

ChemHeat In-line High Purity Chemical Heater

SPECIFICATIONS

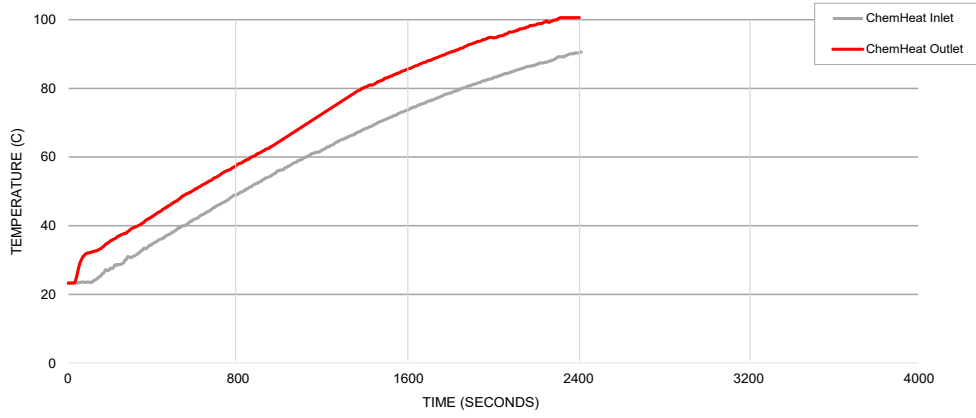
Wattages	2kW to 6kW	
Voltages	120 volts to 480 volts, single phase or 3 phase	
Temperature Range	Up to 203°F (95°C).	
Pressure	475 kPa (69 PSI) at 203°F (95°C) for 12.7mm (1/2 inch) FLARETEK® 475 kPa (69 PSI) at 203°F (95°C) for 19.05mm (3/4 inch) FLARETEK® 324 kPa (47 PSI) at 203°F (95°C) for 25.4mm (1 inch) inlet/outlet FLARETEK® 475 kPa (69 PSI) at 203°F (95°C) for All Super 300 TYPE PILLAR®	
Fluid Connections	Inlet/Outlet Types/Sizes FLARETEK® 12.7mm (0.5 inch), 19.05mm (0.75 inch), or 25.4mm (1.0 inch) SUPER 300 TYPE PILLAR® (300 SP) 12.7mm (1/2 inch), 19.05mm (3/4 inch), or 25.4mm (1 inch) Custom inlet/outlets also available	Drain 9.5mm (0.375 inch), or 12.7mm (0.5 inch) flared, or Super 300 Type Pillar®
Wetted Surfaces	PFA and PTFE fluoropolymer No wetted "O" rings	
Dimensions	225mm (8.86 inch) x 508mm (20 inch) x 147mm (5.79 inch)	
Watt Density	≤ 9.5 /in ²	
Safety Features	Element temperature sensor Choice between Type E, J, K thermocouple, 100-Ohm RTD, or 1000-Ohm RTD (2, 3, or 4 wire) Internal ground plane Patented purge protection and leak detection	

Click Here to Contact Us!



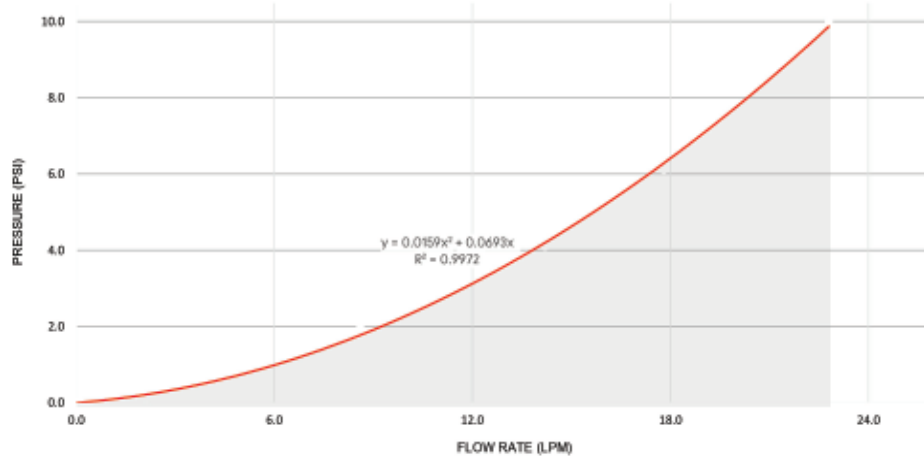
GORDON HATCH CO. INC.
—Representing quality products since 1941—

ChemHeat HEAT-UP TIME - 40 Liter Bath, 6KW (480V)



HEAT-UP CURVE

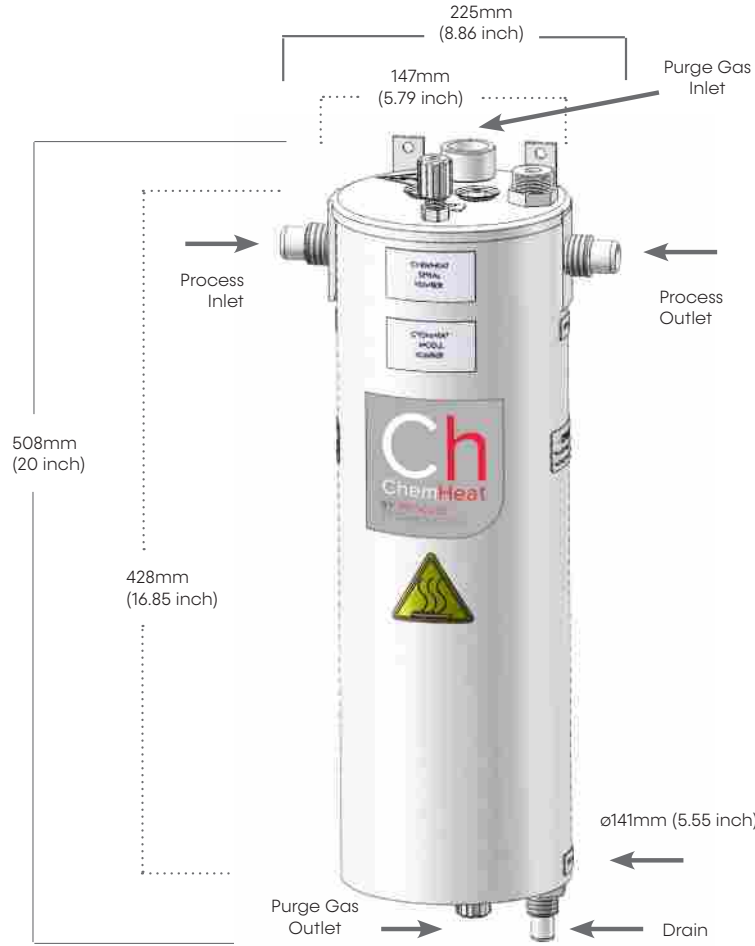
ChemHeat PRESSURE DROP 6kw - 3/4 I/O Fittings



PRESSURE DROP

For more immediate needs please call us at 262-253-4800 and one of your experienced knowledgeable staff will help you!

DIMENSIONS



ChemHeat Model Number Description

MODEL NUMBER BREAKDOWN

CH 2 - 6 1 A A E - O -

Series	Wattage	Voltage	Phase	Inlet/Outlet Connection	Drain Connection	Element Sensor Type	Process Sensor Type	Options
CH = ChemHeat Series	2 = 2000	1 = 208	1 = single phase	A = 1/2 inch Flared	A = 1/2 inch Flared	E = Type E thermocouple	O = No Sensor (standard)	Blank = No Option
	3 = 3000	2 = 240	3 = three phase	B = 3/4 inch Flared	V = 1/2 inch Super 300 Pillar	J = Type J thermocouple	E = Type E thermocouple*	X## = Longer wire length (inches)
	4 = 4000	3 = 380		C = 1 inch Flared	S = 3/8 inch Flared	K = Type K thermocouple	J = Type J thermocouple*	## = Custom design
	5 = 5000	4 = 400	V = 1/2 inch Super 300 Pillar	T = 3/8 inch Super 300 Pillar	H = 100-Ohm RTD (2-wire)	K = Type K thermocouple*	CB = PP bracket	
	6 = 6000	5 = 415	W = 3/4 inch Super 300 Pillar		R = 1000-Ohm RTD (2-wire)	H = 100-Ohm RTD (2-wire)*		
		6 = 480	X = 1 inch Super 300 Pillar			R = 1000-Ohm RTD (2-wire)*		
		7 = 440						
		9 = 220						
		10 = 200						
		12 = 120						
		15 = 230						
		16 = 460						

* add \$ for process sensor

DATA SHEET

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