

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

 Watts: 2kW to 6kW	 Pressure: Up to 475 kPa (69 PSI) at 95°C (203°F)			
 Volts: 120 to 480 volts, Single phase or 3 phase	 Certifications: CE, UL 499, CSA C22.2 #88, Semi S2			
 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

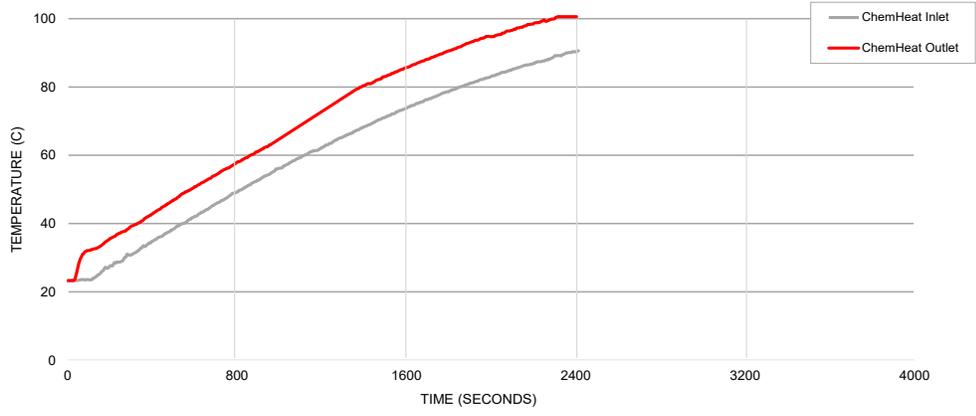
ChemHeat In-line High Purity Chemical Heater

SPECIFICATIONS

Wattages	2kW to 6kW	
Voltages	120 volts to 480 volts, single phase or 3 phase	
Pressure	475 kPa (69 PSI) for 12.7mm (1/2 inch) FLARETEK® 475 kPa (69 PSI) for 19.05mm (3/4 inch) FLARETEK® 324 kPa (47 PSI) for 25.4mm (1 inch) inlet/outlet FLARETEK® 475 kPa (69 PSI) 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	

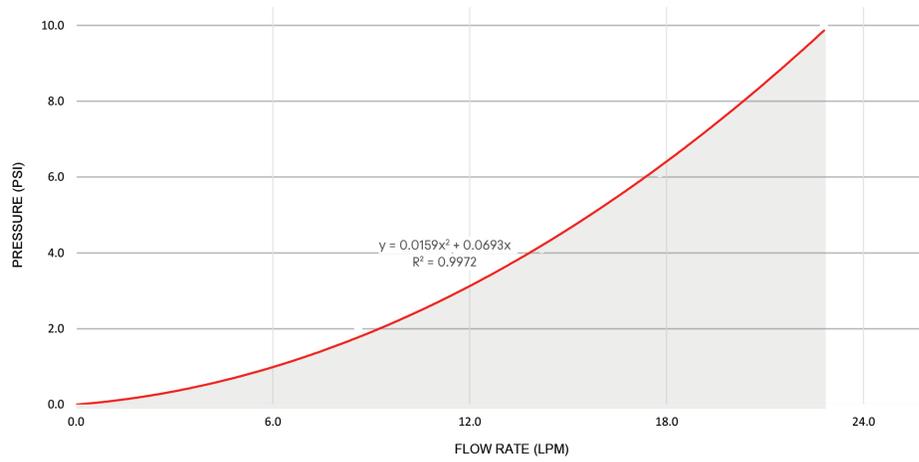
ChemHeat HEAT-UP TIME - 40 Liter Bath, 6KW (480V)

HEAT-UP CURVE

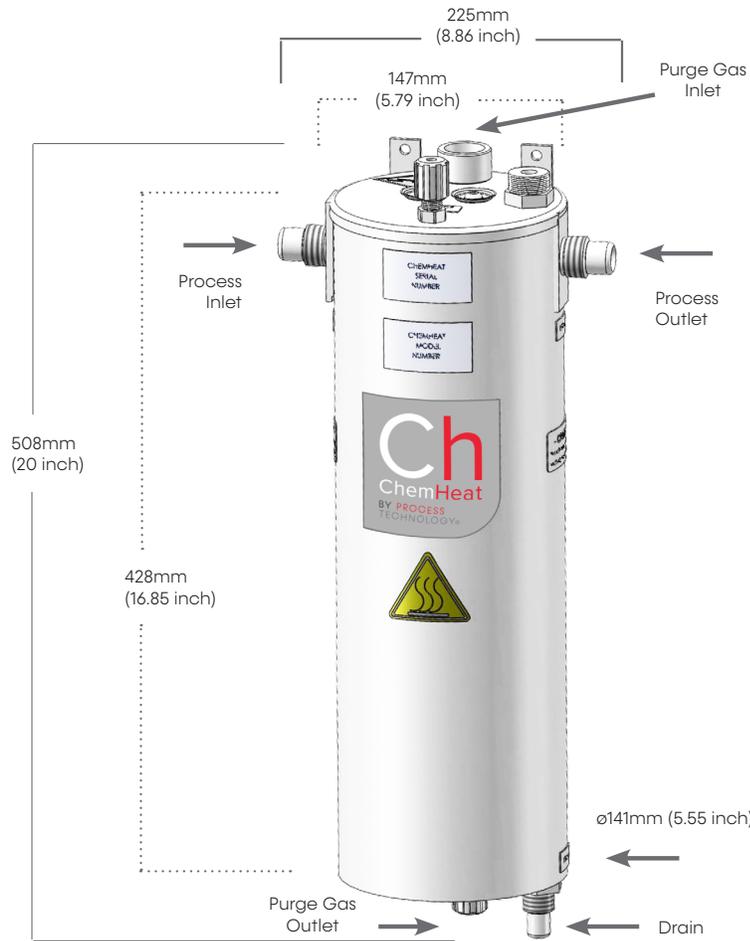


ChemHeat PRESSURE DROP 6kw - 3/4 I/O Fittings

PRESSURE DROP



DIMENSIONS



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