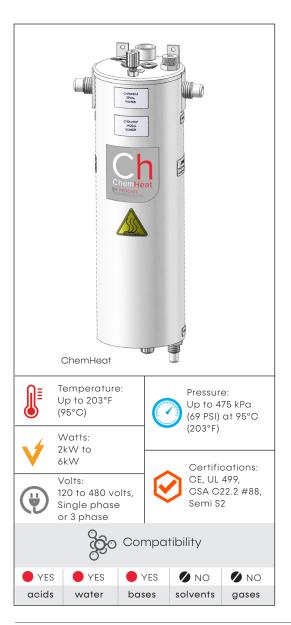
ChemHeat High-Purity | In-Line Chemical Heater



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.



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

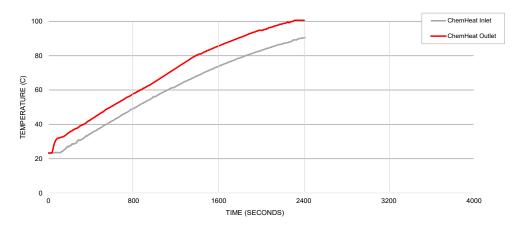
- Semiconductor
 Wet Processes
- Filtration

- Sterilization/Cleaning
- Surface Finishing

ChemHeat In-line High Purity Chemical Heater

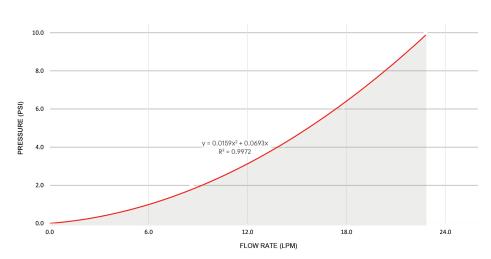
SPECIFICATIONS

Wattages	2kW to 6kW						
Voltages	120 volts to 480 volts, single phase or 3 phase						
Temperature Range	e 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	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	$\leq 9.5 / in^2$						
Safety Features	Element temperature sensor Choice between Type E, J, K ther or 1000-Ohm RTD (2, 3, or 4 wire) Internal ground plane Patented purge protection and leak						

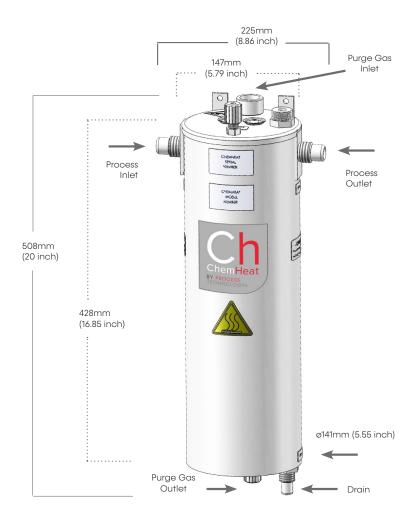


ChemHeat PRESSURE DROP 6kw - 3/4 I/O Fittings

PRESSURE DROP



DIMENSIONS



ChemHeat Model Number Description

MODEL NUMBER BREAKDOWN

СН	2	- 6	1	Α	Α	Е	- 0	-
Series	Wattage	- Voltage	Phase	Inlet/Outlet Connection	Drain Connection	Element Sensor Type	- Process Sensor Type	- Options
3 = 30 4 = 40 5 = 50	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			•		* add \$ for process sensor	
		9 = 220						
		10 = 200						
		12 = 120						
		15 = 230						
		16 = 460						