



CRES SF INLINE HEATERS

Ultra Pure DI | RO | CIP-Air | Gas | N2 Heaters

SIMPLE, ECONOMICAL & POWERFUL



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INFINITY THERMAL

CRES-SF INLINE HEATERS

ULTRA FAST • COMPACT • SAFE

CRES-SF Heaters are the Lowest Cost, Lowest Watt Density (8-32 watts/sq inch), rapid response units available in all pure heater classes. Heaters are electrically isolated, NOT exposed filament resistance wire in Media Stream or Ultra High Watt Density heaters, which direct enormous temperatures in a small area causing huge temperature gradients between element and media, shedding particles and scorching.

ULTRA PURE DI/RO | CIP-AIR | GAS | N₂ HEATERS
SIMPLE, ECONOMICAL & POWERFUL
CRES-SF Heaters—Sanitary/DIN/VCR/Compression, etc



BENEFITS OF LOW WATT DENSITY INCLUDE



Fully clean polished Stainless Steel surfaces. Units are not "hair dryer" style Ni-Chrome wire water/air heaters in the media stream, all units are 316L sheathed elements.



Media Integrity Maintenance- there are no concerns of degrading or scorching your media with incredibly Hot Surfaces.



Element Longevity- Lower Watt Density means that your heater does not work as Hot/Hard as high watt density elements, Hi Watt Density Elements >60WSI.



Operator and Process safety- Low Watt Density Elements ensure brief periods of No-Flow or uncontrolled process conditions do not turn into serious process/personnel events.



Speed of Response— The incredibly high surface area contact ensures immediate response similar to what you would see with open coil elements or incredibly High Watt Density units.

FEATURES AND BENEFITS

COMPACT AND LIGHT WEIGHT

- ✔ Ultra pure DI/RO/N₂ heaters fully sheathed no-exposed filament in liquids or gas streams.
- ✔ Small, high powered heaters with safe heating surface areas.
- ✔ Compact with incredibly low watt density.
- ✔ Replace large standard heaters with CRES a fraction of the size.

ULTRA LOW WATT DENSITY (8 TO 32 WATTS/SQ IN)

- ✔ Will not shed contaminants into process (>60 watts/sq in)
- ✔ Ultra fast On-Demand response heaters.
- ✔ Clean for all critical and non critical pharma/bio/semi applications.

STANDARDS

- ✔ Fully stainless steel construction 304L-316L
- ✔ Low to High Pressure 150 standard - 10,000 psi custom
- ✔ Electrical enclosure NEMA4 standard, Exp Proof available.



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ULTRA FAST • COMPACT • SAFE

CRES-MF Heaters

All standard fittings/flanges available



SF-Units come with optional full drain capabilities

TECHS AND SPECS

- ✓ Housing 316L SS construction Pharma/Semi Grade
- ✓ Element 316L SS construction Pharma/Semi Grade
- ✓ Wattage/Surface Area = Watts per square inch (WSI)
10 kw heater = 8 WSI 32 kw heater = 32 WSI
- ✓ Units will not burn out with short periods of nonsubmergence or no flow
- ✓ Units rated to 150 psig standard, custom to 10,000 psig+
- ✓ Std. Size from 24" - 40" long | Weigh from 12 lbs - 32 lbs
- ✓ Standard Wattages - 10,000 watts - 300,000 watts
- ✓ All units come standard with TC measuring MEDIA temp

PROCESS CONTROLS (AVAILABLE FOR ALL HEATERS)

Turn key control systems come with micro processor based Process/PID temperature control solid state power controls, tuned and ready for operation direct from factory.

Power disconnects are provided with all of our 480 volt control systems. The systems provide +/-1 control capability with stable flow. The controllers can accommodate all types of thermocouple sensors or RTD's. Temperature controllers can be tuned for every individual process giving you the most stable and uniform control for any process. We will match your heater with the correct control system at your request.



SPECIFICATIONS

- ✓ Compact heaters up to 10kW–300kW
- ✓ Process temperatures to 600° C (1200° F)
- ✓ Low to high operating pressures—Std 150psig
- ✓ Optional finishes, electro-polished, passivated and bright annealed
- ✓ All standard fittings, sensors and certifications
- ✓ Standard type k t/c or 100 Ω Plat RTD 3 wire

APPLICATIONS

- ✓ Critically Clean high polish requirement systems
- ✓ Semiconductor, Pharma, Lab, Food Service: Water, DI Water, N2
- ✓ Clean Room applications
- ✓ Bio-tech, sterilization and plastics industries
- ✓ Purification
- ✓ Humidity generation
- ✓ Metal, poly and ceramic parts cleaning



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ULTRA FAST • COMPACT • SAFE

Part Number	Watts	Volts	Phase	Amps	Dim "A" In	Dim "B"	Dim "C"	Dim "D"	Dim "E"	Watt Dens	Num. Heaters
CRES-SF-12-0010-K	1000	120	1	9	12	2	1/2"	1	1.25	9	1/2"
CRES-SF-12-0020-K	2000	120	1	18	12	2	1/2"	1	1.25	18	1/2"
CRES-SF-21-0040-K	4000	208	1	19	24	4	1	2	1.75	18	1
CRES-SF-21-0060-K-3P	6000	208	3	17	24	4	1	2	1.75	18	1
CRES-SF-21-0080-K-3P	8000	208	3	22	24	4	1	2	1.75	24	1
CRES-SF-48-0080-K-3P	8000	480	3	10	24	4	1	2	1.75	24	1
CRES-SF-21-0100-K-3P	10000	208	3	28	24	4	1	2	1.75	26	1
CRES-SF-48-0100-K-3P	10000	480	3	12	24	4	1	2	1.75	22	1
CRES-SF-21-0120-K-3P	12000	208	3	33	30	4	1	2	1.75	18	1
CRES-SF-48-0120-K-3P	12000	480	3	15	30	4	1	2	1.75	18	1
CRES-SF-21-0150-K-3P	15000	208	3	42	30	4	1	2	1.75	22	1
CRES-SF-48-0150-K-3P	15000	480	3	18	30	4	1	2	1.75	24	1
CRES-SF-21-0200-K-3P	20000	208	3	56	30	4	1	2	1.75	28	1
CRES-SF-48-0200-K-3P	20000	480	3	24	30	4	1	2	1.75	28	1
CRES-SF-48-0240-K-3P	24000	480	3	29	30	4	1	2	1.75	32	1
CRES-SF-48-0300-K-3P	30000	480	3	36	40	4	1	2	1.75	22	1
CRES-SF-48-0360-K-3P	36000	480	3	43	40	4	1	2	1.75	28	1
CRES-SF-48-0480-K-3P	48000	480	3	58	40	4	1	2	1.75	30	1
CRES-SF-48-0540-K-3P	54000	480	3	65	40	4	1	2	1.75	32	1
CRES-SF-48-0600-K-3P	60000	480	3	72	40	4	1	2	1.75	22	2
CRES-SF-48-0720-K-3P	72000	480	3	87	40	4	1	2	1.75	28	2
CRES-SF-48-0960-K-3P	96000	480	3	115	40	4	1	2	1.75	28	2
CRES-SF-48-1200-K-3P	120000	480	3	144	40	4	1	2	1.75	30	3
CRES-SF-48-1440-K-3P	144000	480	3	173	40	4	1	2	1.75	32	3

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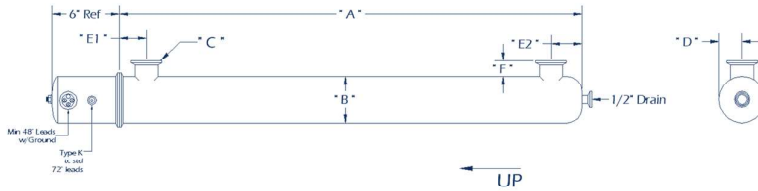
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SIMPLE, ECONOMICAL & POWERFUL

CRES SF Heaters—Sanitary/DIN/VCR/Compression, etc

ULTRA FAST • COMPACT • SAFE

BETA-TC HEATER
WITH SANITARY FLANGES



STOCK MODELS: (all standard v voltages available and any custom wattages)



REQUEST A QUOTE ▶

INFINITY THERMAL Purity, Safety and Economy

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STANDARD INLINE HEATER PRODUCTS



CLEAN WATER | AIR HEATERS

STANDARD CLEAN INLINE HEATER—ECONOMICAL/CLEAN/POWERFUL

- ✔ Clean Air/N₂ gas heaters. Cryo-1200 deg F (ULTRA LOW WATT DENSITY)
- ✔ Clean Water/DI/CIP heaters. 32-212 deg F
- ✔ For all non-critical Pharma, Semiconductor, Industrial, Food applications.



SANITARY WATER | AIR HEATERS

SANITARY CLEAN—INLINE HEATERS—ECONOMICAL/PURE/COMPACT

- ✔ Critical Air/N₂ gas heaters. Cryo-1200 deg F (ULTRA LOW WATT DENSITY)
- ✔ Critical Clean Water/DI/CIP heaters. 32-212 deg F
- ✔ For all Direct Contact Pharma, Semiconductor, Industrial, Food applications. Where media purity and maintenance is crucial. Ultra low watt densities ensure the safety of your media, your process and personnel.



ULTRA PURE WATER | AIR HEATER

ULTRA PURE—INLINE HEATERS—ECONOMICAL/ULTRA PURE/RELIABLE

- ✔ Clean Air/N₂ gas heaters. Cryo-1200 deg F (ULTRA LOW WATT DENSITY)
- ✔ Clean Water/DI/CIP heaters. 32-212 deg F
- ✔ For all Direct Contact Pharma, Semiconductor, Industrial, Food applications. Where media purity and maintenance is crucial. Ultra low watt densities ensure the safety of your media, your process and personnel.



FULL TEMPERATURE | PROCESS CONTROLS

ECONOMICAL CONTROL UNITS AVAILABLE AS STANDARD WITH EACH UNIT OR STAND-ALONE PRODUCT.

- ✔ Solid state power controls—PID Temperature Control— Fully wired and Tuned from Factory, Available in Standards from NEMA4 to EXPLOSION PROOF CLxDIVx.

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EXCLUSIVE INLINE HEATER PRODUCTS



CLEAN STAINLESS STEAM GENERATOR

ECONOMICAL/COMPACT/PURE

- ✔ Clean steam generator Atm-150psi (+600 psi)
- ✔ Replace standard conventional stainless boilers for the price of comparable carbon steel units.
- ✔ From Food to Medical Processing.



ULTRA PURE STAINLESS STEAM GENERATOR

ECONOMICAL/ULTRA PURE/COMPACT

- ✔ Clean steam generator Atm-150psi (+600 psi)
- ✔ Replace standard conventional stainless boilers for the price of comparable carbon steel units.
- ✔ From Food to Medical Processing.



HIGH PRESSURE AND EXPLOSION PROOF (XP, ATEX)

ECONOMICAL/ULTRA PURE/COMPACT

- ✔ Clean steam generator Atm-150psi (+600 psi)
- ✔ Replace standard conventional stainless boilers for the price of comparable carbon steel units.
- ✔ From Military to Mining Semi Conductor.



EMERGENCY SHOWER | EYE WASH

ECONOMICAL—FULLY ISOLATED HEATER ELEMENTS NOT EXPOSED
FILAMENT/WIRE IN WATER STREAM.

- ✔ Tepid water heaters from 10kw- 300Kw all stainless steel construction, low watt density Construction.

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