

Simple, Economical, Powerful

Compact, precise heating for all applications

Industrial - Food Semi Conductor and Pharma

CRES-SEW Heaters are inexpensive, full stainless steel construction, 316L sheathed ultra low watt density heating elements. The size of the CRES-SEW is incredibly compact, these units do NOT have plastic housings or exposed filament resistance wires submerged directly in the water stream. All of our elements are made in the United States with our patented heater designs. The INFINITY designs are not products purchased from China manufacturers with our Logo placed on them, they are made from scratch in the US.

All Infinity heaters are manufactured below 32 watts per square inch (wsi) vs standard water heater elements 60-90 wsi, or open coil elements from 600-1200 wsi. The tremendous efficiency of the CRES-SEW relies on incredibly high Stainless Steel surface areas to impart the energy quickly and precisely into the water stream, tremendous surface areas operating at lower temps, rather than incredibly small surface areas operating at incredibly high temps. This allows to the unit to survive even in the harshest conditions, un-primed firing, low-sporadic flows, high temps etc.

Each Infinity SEW heater is designed for CONTINUOUS DUTY, there is no fear of creeping build up failure from plastic components or excessive contaminate exposure from exposed coils.



CRES-SEW Heaters—Threaded/Flanged/Sanitary/
DIN/VCR/Compression, etc.



FEATURES AND BENEFITS:

Compact and Light Weight

- 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 contaminates into process (+60 watts/sq in)
- Ultra fast On-Demand response heaters
- Clean for all critical and not critical pharma/bio/semi applications

Standards

- Fully stainless steel construction 304L-316L
- Low to High pressure 150 standard, 10kpsi custom
- Electric enclosure NEMA₄ standard, Explosion proof available

Contact Infinity: 508.434.1600

Infinity Thermal Corp | 306 Sturbridge Rd | Charlton MA 01507 | www.InfinityThermal.com | Sales@InfinityThermal.com

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+
- Size from 24" -40" long | Weight from 12 lbs -32 lbs
- Standard Wattages 10,000 watts - 300,000 watts
- All units come standard with TC measuring MEDIA temp




SPECIFICATIONS

- Compact heaters up to 10kW - kW 600kW
- Process temperatures to 600° C (1200° F)
- Low and 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

CRES-SEW Heaters

All standard fittings/flanges available



SEW-Units come with optional full drain capabilities 

PROCESS CONTROLS

Turn key control systems come with micro processor based Process/PID temperature controller, 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 degree 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.

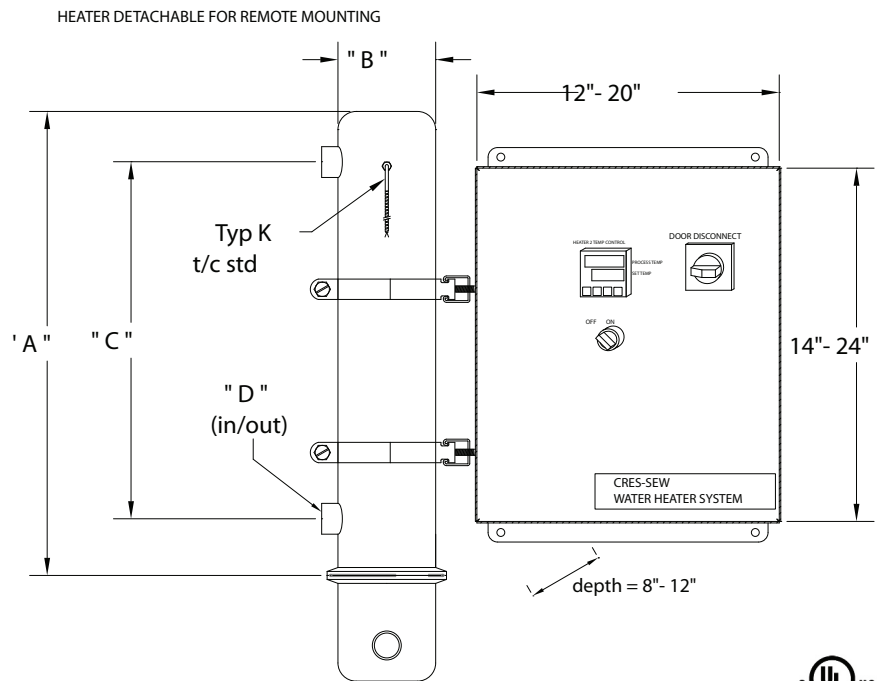
APPLICATIONS

- Clean applications requiring compact, inexpensive efficiency.
- Semiconductor, Pharma, Lab, Food Service: Water, DI Water, N2
- Safety Showers/EyeWash, DI Water cleaning, CIP, Point of Use
- Bio-tech, sterilization and plastics industries
- Purification
- Lab use, explosion proof, high pressure
- Metal, poly and ceramic parts cleaning

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- Full stainless steel heater standard.
- Enameled steel control box standard:
Stainless steel available.
Explosion proof available.
- **Customize:** Power, Voltage, Phase, I/O Fittings, Sensors, Process controls, Communications, etc.
- NEMA 4X and remote mount heater standard.



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

Model	Watts	Volts	Phase	Dim "A"	Dim "B"	Dim "C"	Dim "D"	Watt Dens	Weight
CRES-SEW-208-0100-K-3P	10,000	208	3	24 in	4 in	18"	1 fnpt	8 wsi	48 lbs
CRES-SEW-48-0180-K-3P	18,000	480	3	24 in	4 in	18"	1 fnpt	16 wsi	50 lbs
CRES-SEW-48-0240-K-3P	24,000	480	3	24 in	4 in	18"	1 fnpt	24 wsi	52 lbs
CRES-SEW-48-0360-K-3P	36,000	480	3	24 in	6 in	20"	1¼ fnpt	32 wsi	52 lbs
CRES-SEW-48-0480-K-3P	48,000	480	3	36 in	6 in	30"	1¼ fnpt	24 wsi	62 lbs
CRES-SEW-48-0600-K-3P	60,000	480	3	36 in	6 in"	30"	1½ fnpt	32 wsi	64 lbs
CRES-SEW-48-0720-K-3P	72,000	480	3	36 in	6 in	30"	1½ fnpt	32 wsi	64 lbs
CRES-ILB-48-0960-K-3P	96,000	480	3	36 in	6 in	30"	2 fnpt	24 wsi	78 lbs
CRES-SEW-48-1200-K-3P	120,000	480	3	36 in	6 in	30"	2 fnpt	32 wsi	80 lbs
CRES-SEW-48-14400-K-3P	144,000	480	3	36 in	6 in	30"	2 fnpt	32 wsi	80 lbs

- All standard voltages available including low voltage apps from 12 volts to 600 volts
- Custom in/out configurations available, with all standard industry fittings available
- Watt densities available to meet DI Water quality requirements for any power levels <32wsi

INFINITY FULL LINE OF PRODUCTS

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.

EXCLUSIVE INLINE 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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Request a Quote: