

Poseidon™ Stainless Steel Ultra-Pure Heating System

Sanitary Design for Ultra High Purity Fluid Applications

Heateflex can provide a complete turnkey system for your heating needs in the form of the Poseidon. Featuring sanitary fittings throughout the system, Poseidon reduces particle entrapment and provides a clean solution for your heating requirements. Complete with multiple heating modules and a fully integrated control system, this heater provides precise temperature control while maintaining high process purity. The Poseidon can heat fluids throughout a facility or at the Point-of-Use, perfect for applications in the pharmaceutical and medical device industries.



SSDI Poseidon
High-Purity Heating System

HIGH-PURITY

- **100% 316L Stainless Steel Wetted Surfaces**
- **32µin Roughness Average** finish reduces wear; lessens probability of particle entrapment

SANITARY DESIGN

- **Sanitary Fittings** throughout system reduces particle entrapment

PLUG AND PLAY

- **Heater and Controls** in NEMA rated enclosure
- **Ready for Use System:** just connect facility plumbing and electrical

PRECISE TEMPERATURE CONTROL

- **Fully Integrated PID Control** maintains $\pm 1^{\circ}\text{C}$ temperature accuracy
- **Electric Heating Elements** provide high-temperature efficiency with a fast temperature response time

FACILITY DATA

POWER	24 - 144 kW
VOLTAGE	200 - 480 VAC 3-phase (dependent on power)
WETTED SURFACE	316L SS, Electropolished
INPUT/OUTPUT	1/2" Tube (options available)
MAX TEMPERATURE	95°C
PRESSURE RATING	60 PSI at 95°C
STANDARD FLOW	20 GPM

VERTICAL OR HORIZONTAL DESIGN

- **The SSDI (vertical)** provides the heaters and controls in a single enclosure
- **The SPDI (horizontal)** provides the heaters and controls in two enclosures with gravity draining capability

SAFETY FEATURES

- **Over-Temperature Thermocouple** regulates heater temperature by limiting amount of heat produced
- **Process Thermocouple** ensures fluid temperature is accurately maintained
- **Flow Interlock** ensures the heaters will not activate without meeting the minimum flow requirement
- **Ground Wire Protection** for both user and heater

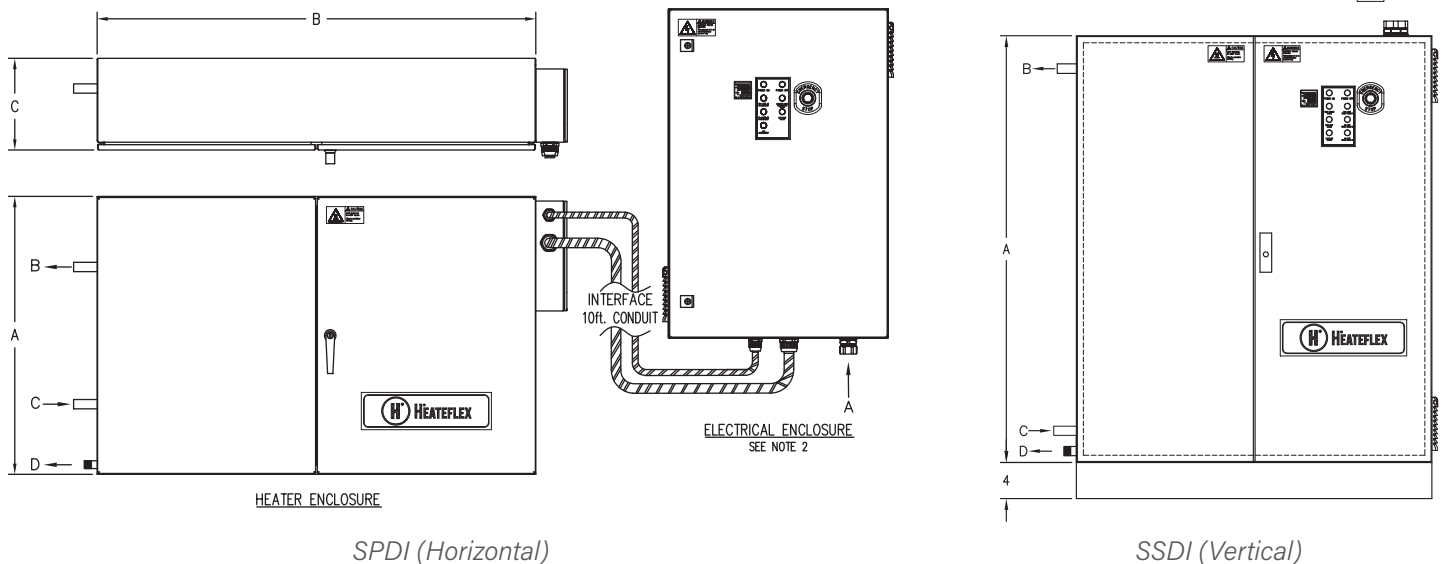
OPTIONAL FEATURES

- **ASME BPE Design and Certificates**
- **Stainless Steel Enclosure** for sanitary environments
- **Communications** between controller and external user interface
- **System Drainage** options including valves and N2 gravity push

KW	VOLTAGE	DIMENSIONS (H x W x D)	
		SSDI	SPDI**
24	208 - 480	46" x 32" x 12"	30" x 48" x 10"
48	208 - 480	48" x 40" x 12"	30" x 48" x 10"
72	208 - 480	48" x 40" x 12"	30" x 48" x 10"
96	208 - 480	48" x 48" x 12"	30" x 48" x 10"
96	380 - 480	48" x 40" x 12"	30" x 48" x 10"
120	380 - 480	48" x 48" x 15"	36" x 48" x 12"
144*	380 - 480	48" x 40" x 12"	36" x 48" x 12"

*Controls are in separate enclosure for both models

**Electrical cabinet size varies based on kW and voltage



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