

Tank Heater

The esPRO® Tank Heater series are great for heating high purity chemicals and DI water in storage and supply tanks to a constant temperature. These heaters are ideal for use in the semiconductor, pharmaceutical, and biomedical industries. The Tank Heaters provide clean heat evenly and efficiently within the liquid volume. Furthermore, they are compact and highly customizable to fit into any size of storage tanks or recirculation tanks. Moreover, wetted surfaces feature all-PFA materials, and may be used in tanks made of PVDF, PFA, or quartz.

ULTRAPURE PFA (TEFLON®) WETTED SURFACES

RELIABLE HEATING OF HARSH CHEMICALS

MAXIMUM 180°C HEATING CAPABILITY

MAXIMUM POWER IN A SMALL FOOTPRINT

LOW WATT DENSITY; ≤ 4 WATTS/IN²

GROUND WIRE WITH TANTALUM OR PLATINUM TIP

CUSTOM DESIGNED FOR EASY INTEGRATION

MULTIPLE STACK CONFIGURATION AVAILABLE

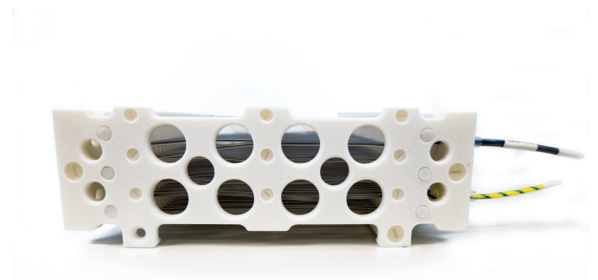
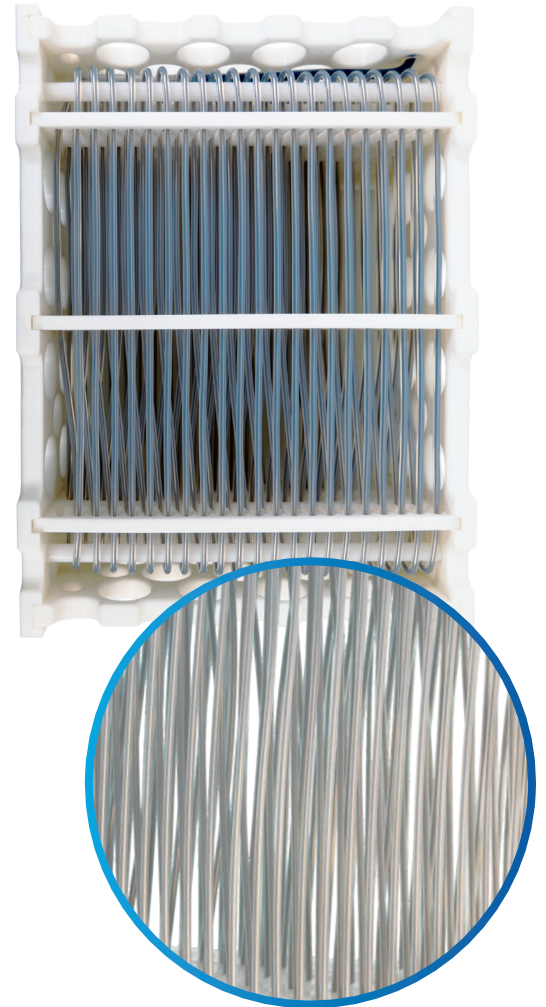


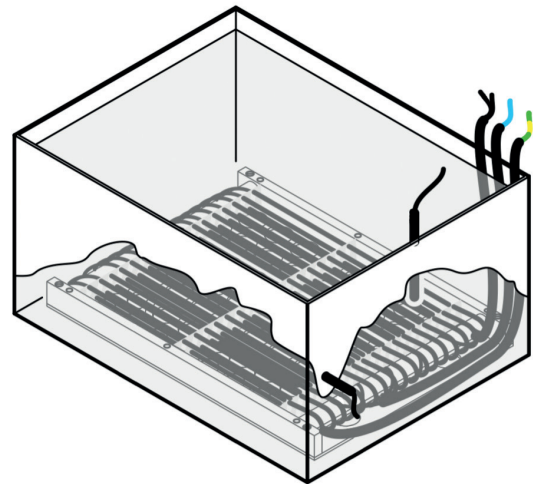
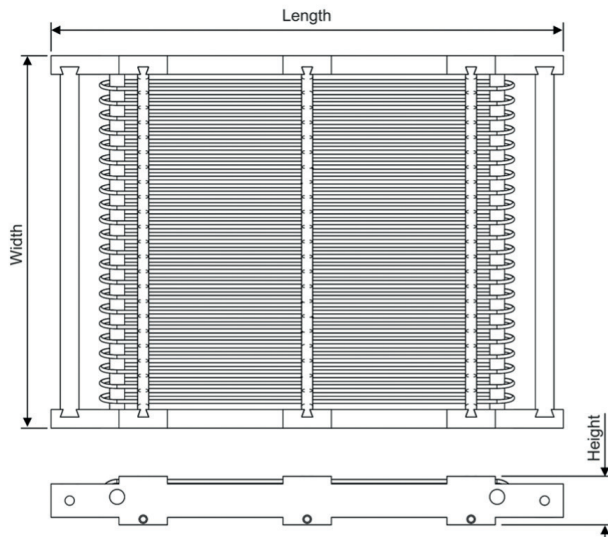
Figure 1: Side view of the esPRO® Tank Heater

The heat source is placed directly in the liquid to eliminate any heat loss. The heater's low mass and large surface area provide the fastest temperature response time. The displacement volume is minimal due to its open design.

Features

- Ultrapure PFA wetted surfaces
- Maximum 180°C heating capability
- Low Watt Density; ≤ 4 watts/in²
- Maximum power in small footprint
- Power range from 1 - 40 kW, 100 - 500 VAC, single heater element or delta wired 3-heater elements
- Ground wire with Tantalum or Platinum tip
- Custom designed according to specifications and tank sizes for easy integration and maintenance
- Multiple stack configuration available
- Embedded Heater Over-temperature sensor included by default. Additional liquid overtemperature and process temperature control sensors are available

Technical drawings



The dimensions (length x width x height) of our Tank Heater can be customized.