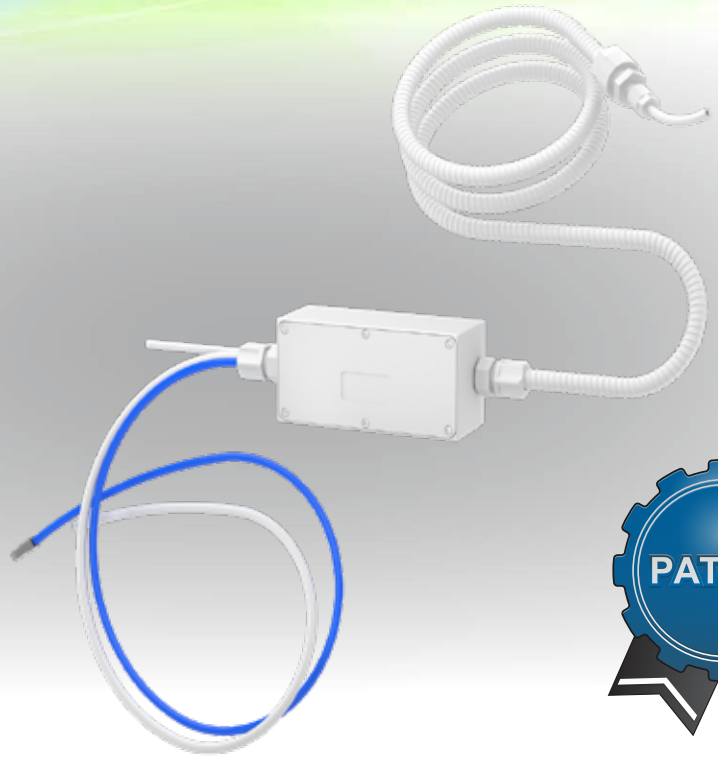
PRODUCT DATA SHEET

UF-SERIES HEATER

Ultra-Pure Flexible Chemical Heater

- PATENTED HEATING TECHNOLOGY
- INDUSTRY LEADING RESPONSE TIME
- HIGH PURITY FLUID PATH
- NO N2 PURGING REQUIRED
- CONFIGURABLE FOR LIQUID OR GAS



PATENT

The UF-Series Heater is unlike any other heating system in the market. Developed from Trebor's thin film knowledge this new heater provides the industry's fastest response times and tightest process control. This new patented, flexible heating technology is designed to be placed in locations with limited space availability. The UF-Series Heater offers the potential to replace existing PFA fluid paths by shaping and routing the flexible inline system. Featuring a flexible design, this heater is well-suited for Point-of-Use (POU) applications and can easily be integrated into existing chemical dispense systems. The UF-Series Heater can also be configured for either liquid or gas applications. This new and cutting edge heater combines ultra high-purity materials, fast response times, a crevice-free design and customized configurations to provide an ideal solution for any application.

This is PURE INNOVATION.

VOLTAGE
208 VAC

POWER
700W

MAX TEMPERATURE
248 °F (120 °C) Fluid
320 °F (160 °C) Element

MAX PRESSURE
30 PSIG (2 BAR)

CERTIFICATIONS
CE, Semi S2 & S8

TREBOR®

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FEATURES & BENEFITS

- **High Purity Fluid Path:**
  High purity flow path constructed entirely of high purity Naflon PFA-HG tubing with no elastomer o-rings or dead-legs to create particle traps.
- **Leading Edge Technology:**
  Patented flexible heating technology provides exceptional temperature response and improved reliability over other designs.
- **Flexible Design:**
  Heater can easily be integrated and installed into existing chemical delivery systems and routed around installed structures.
- **Superior Process Control:**
  Efficient heat transfer and low resident fluid volume produces faster responses to changes in flow or temperature set point.
- **Dual Containment Fluid Path:**
  Provides a safer system in the event of a leak in the process fluid path and reduces the possibility of a leak in the event of improper handling.

SIZING FORMULA

Required W = 70(LPM Flow)(Temp Delta °C)

Conversion Calculations:
LPM = GPM*3.8
°C = 5/9(°F - 32)

Heater Sizing Formula Example

Ambient water temp = 65°C
Desired process temp = 70°C
Temperature delta = 5°C

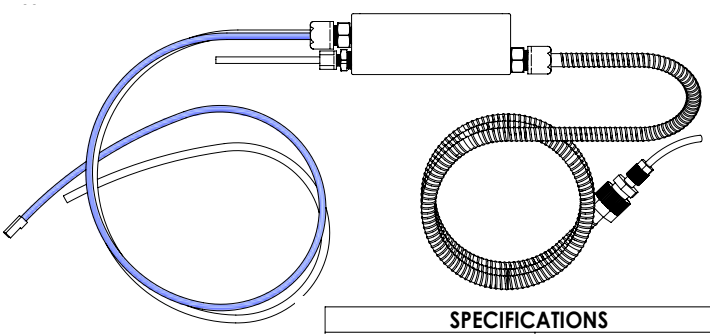
Required W = 70(2 LPM)(5 °C) = 700 W

Trebor recommends a 700 W heater for this application.

POTENTIAL HEATER CONFIGURATIONS

MODEL	UFP Chemical Heater ≤120° C ≤ 2 LPM UFP Gas Heater ≥ 120° C ≤ 4 SCFM	
CONFIGUR-ATIONS	007V208S 700W, 208 VAC, Single φ	
HEATER LENGTH	02	2 Meters
MATERIAL TYPE	G L	Gas Liquid
COMMUN-ICATION	E S	Ethernet Serial

DIMENSIONAL DRAWING



WIRE CHART

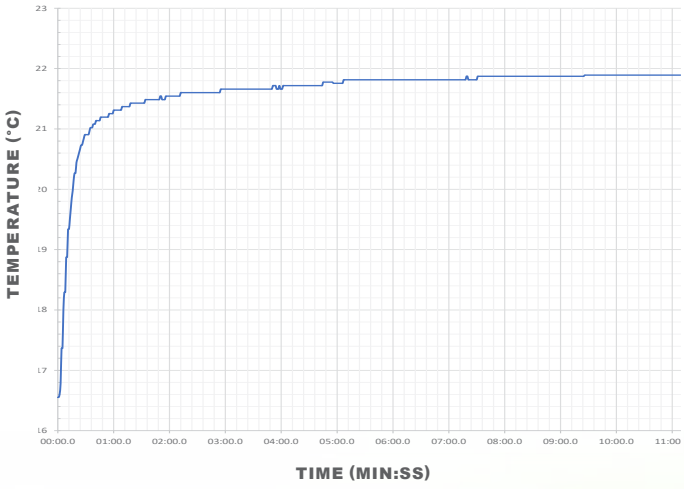
BLACK	L
WHITE	N
GREEN	GROUND
BLUE RJ45	COMMUNICATION (MODBUS TCP)

SPECIFICATIONS

MAX POWER	700W
MAX CURRENT	4A
VOLTAGE	208VAC
CONTROL BOX - L X W x H - IN(mm)	6 X 2.9 X 2.3 (152 X 74 X 58)
HEATED TUBE - L X D - FT (M)	6 X .66 (1.8 X .017)
COMMUNICATION CABLE - FT (M)	15 (4.5)
POWER CABLE - FT (M)	15 (4.5)
INLET TUBE - L X D - IN (mm)	24 X 1/4 (610 X 6.4)
OUTLET TUBE - L X D - IN (mm)	24 X 1/4 (610 X 6.4)

TEMPERATURE RESPONSE CHARTS

145°C ELEMENT, 1.7LPM, WATER, 700W FULL POWER RAMP TIME



120°C ELEMENT, 2SCFM, AIR @ 10PSIG SUPPLY, RAMP TIME