

ProJet Inline Steam Injection Water Heater

ProJet™ Inline Water Heater is designed to supply on demand hot water heating for industrial & utility applications.

The unique 2-stage self-modulating steam flow control design, maintains high steam flow velocity through a wider range of operation. This assures complete condensation of steam in the water, for precise temperature control, stable vibration free operation, and reliable heating performance.

The radial multi-port steam jet diffuser provides uniform heating of the water flow.

Self cleaning design reduce chance for scale & mineral build-up.

Energy saving using both the latent & sensible heat of the steam for 100 energy transfer.

Designed for use with external steam control modulating valve.

Interchangeable steam injectors if your heating requirements should change.



Patent Pending

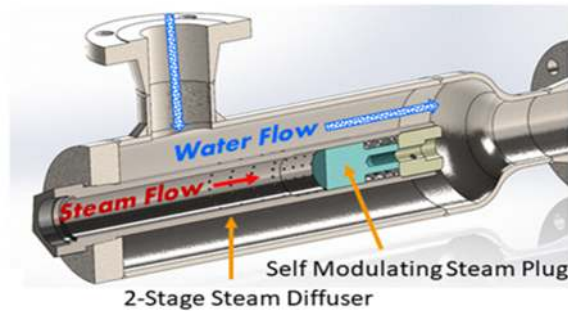


Fig. 1 – Internal View

Common Water Heating Applications ...

- On demand hot water
- CIP Cleaning
- Jacketed Kettle Water Heating
- Plant Sanitation Hot Water
- Vegetable & Potato blanching
- Boiler Feedwater Heating
- Reverse Osmosis Water Systems
- Vegetable & Fruit Can Topping
- Hose Station Hot Water Tank Supply
- Hot Water Tank Supply
- Meat & Poultry processing
- Centrifuge or Filter Washing
- Jacketed reactor heating
- Central Hot water system OEM's

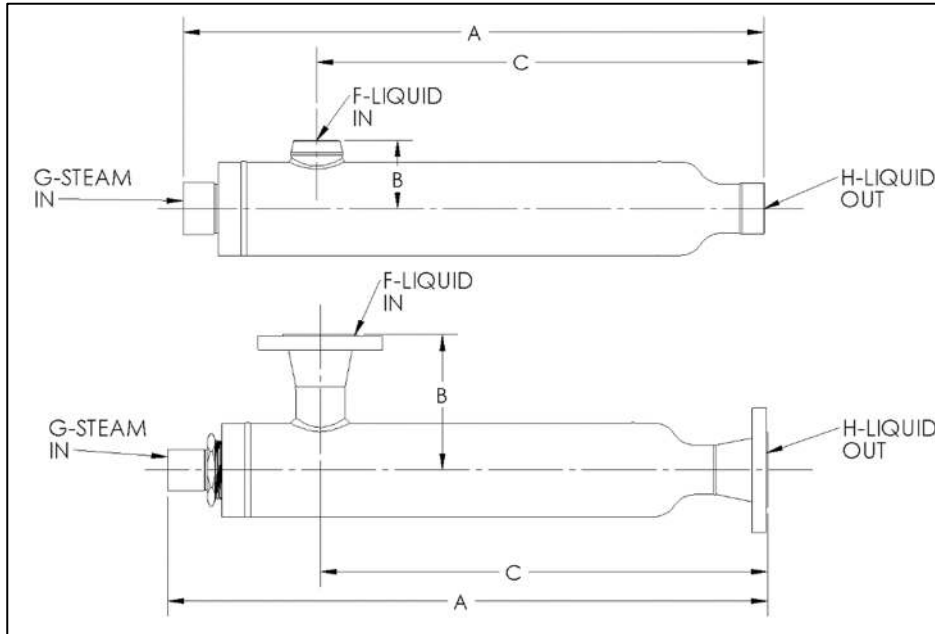
| Liquid Body | | Available Steam Injectors | | | |
|-----------------------|----------------|---------------------------|-------|-------|-------|
| Water Connection Size | Max Flow (gpm) | G750 | G1000 | G1500 | G2000 |
| 1.0" | 33 | Yes | Yes | --- | --- |
| 1.5" | 68 | Yes | Yes | Yes | --- |
| 2.0" | 120 | Yes | Yes | Yes | Yes |
| 3.0" | 270 | Yes | Yes | Yes | Yes |
| 4.0" | 485 | Yes | Yes | Yes | Yes |

Flowrates shown above based on water flow at 15 fps

| ProJet™ Steam Injector Steam Flow & Heating Capacities | | | | | | | |
|--|------------------|----------------------|-----------|----------------------|-----------|----------------------|-----------|
| Injector Size | Steam connection | Steam Flow Max (pph) | BTU/hr | Steam Flow Max (pph) | BTU/hr | Steam Flow Max (pph) | BTU/hr |
| Model | | 150 psig | | 100 psig | | 60 psig | |
| G750 | 0.75" | 2,120 | 2,100,000 | 1,550 | 1,570,000 | 1,020 | 1,080,000 |
| G1000 | 1.0" | 3,450 | 3,500,000 | 2350 | 2,400,000 | 1480 | 1,500,000 |
| G1500 | 1.5" | 5,380 | 5,450,000 | 3,900 | 3,370,000 | 2570 | 2,600,000 |
| G2000 | 2.0" | 8,900 | 8,900,000 | 6030 | 6,150,000 | 3900 | 3,900,000 |

Heating capacity of btu/hr shown is based on max steam flow shown at identified steam pressure.

| Specifications – ProJet™ Industrial Inline Heater | | |
|---|----------------------------|-----------------------|
| Liquid Body Rating: | Psig/°F (Barg/°C) | 150/400 (10.3/204) |
| Materials of Construction: | Liquid Body – Carbon Steel | ASTM A105, A106, A516 |
| | Liquid Body – Stainless | ASTM A312, A240, A182 |
| Materials of Construction: | Steam Injector Internals | 316 SS |
| Design Standard: | | ASME B31.1 |
| Connection Rating: | NPT Threaded | ANSI B1.20.1 |
| Connections Rating: | Flanged | ANSI B16.5 |



| ProJet™ Heater Dimensions & Weights | | | | | | | |
|-------------------------------------|------------|------|-------|-------------|----------|----------|------------------|
| Model | Dimensions | | | Connections | | | Weight Lbs/Kg |
| | A | B | C | F | G | H | |
| G7510 | 26 | 2.8 | 19 | 1.0" NPT | ¾" NPT | 1.0" NPT | 21 lb (9.5 kg) |
| G7515 | 26" | 2.8 | 18 | 1.5" NPT | ¾" NPT | 1.5" NPT | 22 lb (9.9 kg) |
| G7520 | 28.9" | 6.5" | 21.6" | 2.0" RFF | ¾" NPT | 2.0" RFF | 42 lb (19 kg) |
| G7525 | 28.9 | 6.8" | 21.6" | 2.5" RFF | ¾" NPT | 2.5" RFF | 49 lb (22 kg) |
| G7530 | 31" | 7.8" | 24" | 3.0" RFF | ¾" NPT | 3.0" RFF | 79 lb (36 kg) |
| G7540 | 31.3" | 8.0" | 24.3" | 4.0" RFF | ¾" NPT | 4.0" RFF | 89 lb (41 kg) |
| G1010 | 25.6" | 2.9" | 18.9 | 1.0" NPT | 1.0" NPT | 1.0" NPT | 22 lb (9.9 kg) |
| G1015 | 26" | 2.8 | 18 | 1.5" NPT | 1.0" NPT | 1.5" NPT | 24 lb (11 kg) |
| G1020 | 28.7" | 6.5" | 21.6" | 2.0" RFF | 1.0" NPT | 2.0" RFF | 43 lb (20 kg) |
| G1025 | 28.7" | 6.8" | 21.6" | 2.5" RFF | 1.0" NPT | 2.5" RFF | 49 lb (22 kg) |
| G1030 | 31" | 7.8" | 24" | 3.0" RFF | 1.0" NPT | 3.0" RFF | 80 lb (36 kg) |
| G1040 | 31.3" | 8.0" | 24.3" | 4.0" RFF | 1.0" NPT | 4.0" RFF | 90 lb (41 kg) |

Note – Dimensions are for estimating and will be confirmed at time of order.

For more information, please contact ProSonix at 800-849-1130 or info@psxllc.com