



maxi.
therm™
beyond steam™

MAXI-THERM'S™

Heavy duty
instantaneous
steam water
heater

WILL ACTUALLY
SAVE YOU
MONEY





Our industry-leading hot water solution is designed to reduce the growth and transmission of Legionella and other opportunistic bacteria in building water systems, while eliminating the risk of scald injury and temperature fluctuations.

Maxi-Therm™ has eliminated the control valve on the steam inlet creating a quieter, smaller and less expensive system to maintain as no thermal stress will occur by modulating steam supply.

This patented design comes with our notorious heavy-duty frame, anchor pads and forklift channels for optimal transportation and safety. Whether your needs are for Domestic Hot Water applications, or the Food and Beverage industry Maxi-Therm™ has a solution for your application.



Major Applications

- Domestic Hot Water
- Clean in Place (CIP)
- Food & Beverage Process
- Emergency Showers
- Booster Heater
- Process Water



Features

- Vertical flooded heat exchanger with subcooling condensate capability, greatly reducing the amount of flash steam in the return system.
- Generates up to 6% energy saving and reduction in carbon footprint.
- Control panel and electrical disconnect are prewired, pretested and preconfigured to your specifications.
- Maximum steam pressure design 150 psig, maximum operation steam pressure 30 psig.
- Automatic cold position on electric shut-down.
- Capacity starting at 15 gpm.
- Steam pressure at 30 psig and lower.
- No condensate pump needed when condensate back pressure is lower than steam supply pressure (\$).
- Compact vertical design, small footprint (please refer to Product Data chart p.6)
- 3-way electronic blending valve made with grade 304 stainless steel.
- All VFFF's are equipped with our EBV digital valve.

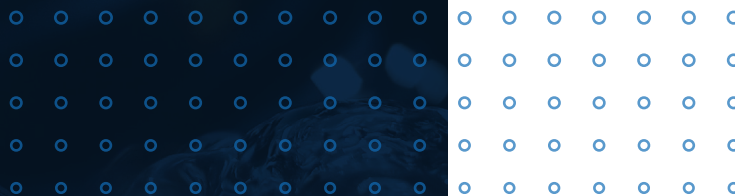
Benefits

- Heaters are fully packaged and only require a connection to steam, condensate return, water and 120VAC service.
- Shell & tube heat exchanger is built according to TEMA-C standards resulting in lower life cycle cost (LCC).
- Standard ASME stamped at 150 psig, optional up to 600 psig. No steam safety relief valved required. (\$)
- NPT connections included for easy descaling. (True Clean-in-Place Capability- provides two readily accessible CIP threaded fittings. All piping remains intact during cleaning.)
- No control valve on steam inlet making it very quiet and smooth while in operation.
- No thermal stress caused by modulating steam supply.
- Removable jacket insulation included for; heat exchanger, steam trap and control valve.
- Heavy-duty frame, anchor pads and forklift channels for optimal transportation and safety.

Current industries utilizing

Maxi-Therm water heaters

	EDUCATION
	HEALTHCARE
	FOOD AND BEVERAGE
	PHARMA & BIO-TECH
	NUCLEAR
	PROCESS
	CHEMICAL
	GOV & MILITARY
	MANUFACTURING
	COMMERCIAL



Food & Beverage

Process Application

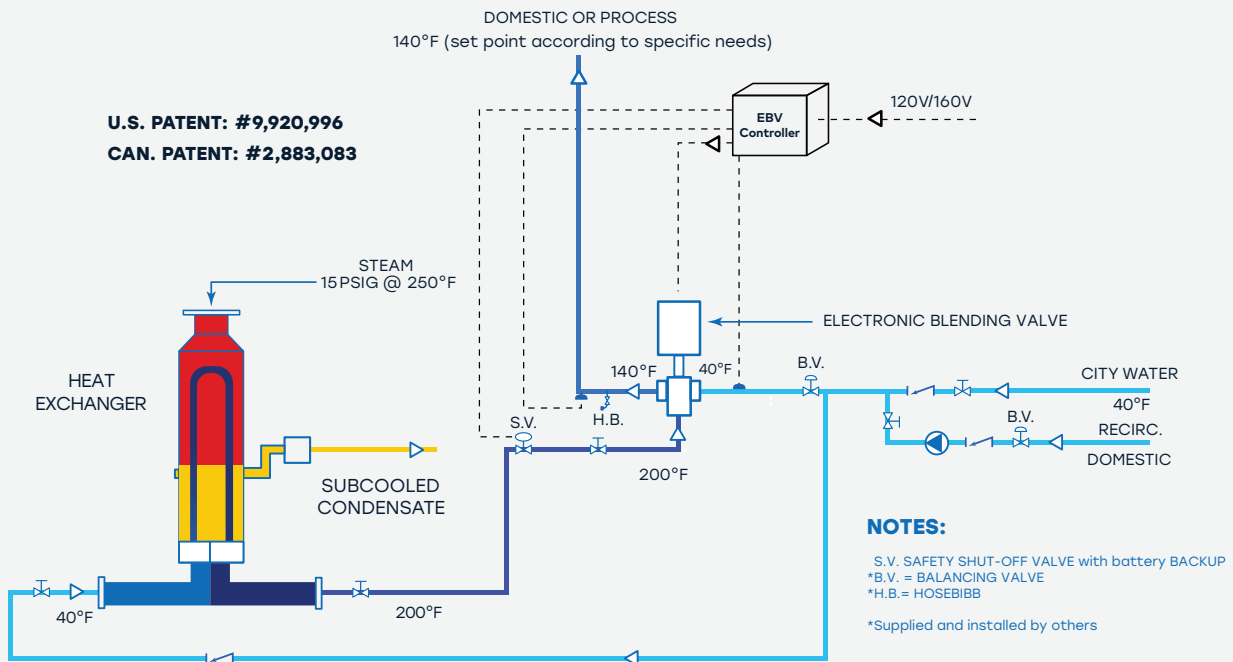


Heating reverse osmosis water to 190F for food processing application, using 15 psig steam, without the need for a condensate return pump.

Options

- Copper, cu/ni or stainless steel tubes.
- Single wall or double wall tubes.
- Bacnet or Modbus protocol.
- Additional safety shut-off valve.
- Additional electronic blending valve preinstalled as back-up.
- Steam pressure reducing valve.
- Food grade piping on water side (stainless steel).

Technical Diagram



Technical Specs

- BACnet IP and MS/TP communication for BMS or EMS management
- Food & beverage industry: 316L stainless steel.
- Conforms to:

» ASSE 1017

» CALIFORNIA LEAD FREE PLUMBING LAW

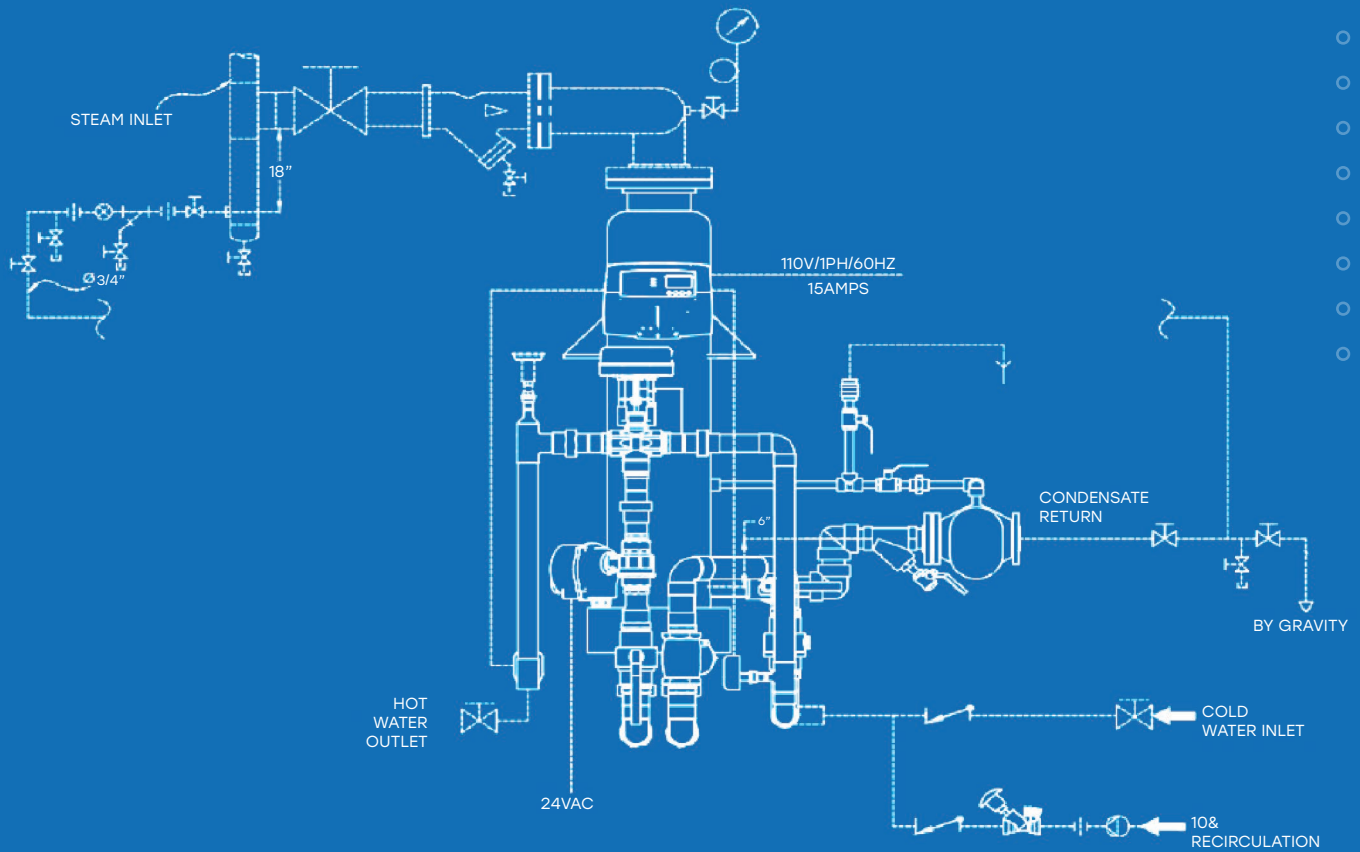
» CSA B 125.3 (NSF/ANSI 61 SECTION 8)

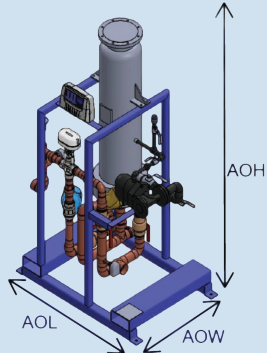


Instantaneous Steam Water Heater

Capacity Table

Model	Steam Pressure (PSIG)	5	10	15	30
VFFF-30G	Max. Capacity (GPM from 40 to 140°F)	26	32	41	41
	Steam Consumption @ above load (lbs/h)	1345	1647	2061	2035
VFFF-60G	Max. Capacity (GPM from 40 to 140°F)	50	60	75	75
	Steam Consumption @ above load (lbs/h)	2580	3063	3817	3768
VFFF-90G	Max. Capacity (GPM from 40 to 140°F)	74	101	120	128
	Steam Consumption @ above load (lbs/h)	3767	5131	6106	6406
VFFF-120G	Max. Capacity (GPM from 40 to 140°F)	114	132	158	180
	Steam Consumption @ above load (lbs/h)	5846	6739	8015	9044



Product Data					
Model	Dimensions may vary and will be confirmed on purchase order.	VFFF-30G	VFFF-60G	VFFF-90G	VFFF-120G
	Condensate Outlet (in)	1.25	1.5	2	2
	Cold Water Inlet (in)	2	2	2.5	3
	Hot Water Outlet (in)	2	2	2.5	3
	Steam Inlet (in)	3	4	6	8
	Recirculation (in)	1	1	1	2
	OAL-Overall Length (in)	39	39	45	46
	OAW-Overall Width (in)	26	26	35	35
	OAHO-Overall Height (in)	75	76	78	81
	Approximate Weight (lbs)	750	920	1330	1730

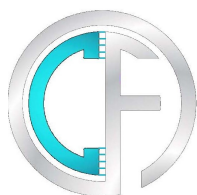
For capacities lower than 30 gpm or higher than 120 gpm and/or steam pressures greater than 30 psig steam, please consult factory at sales@maxi-therm.net

**No condensate pump needed when
condensate back pressure is lower than
steam supply pressure (\$).**

HOW
you're covered:

Parts	Our limited warranties
Heat Exchanger	10-year
Valves, sensors, controller, steam traps, etc.	24-months after shipping or 18-months after start-up (whichever comes first).
U.S. PATENT # 9,920,996	CANADIAN PATENT # 2,883,083
Innovation never stops at Maxi-Therm.	

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