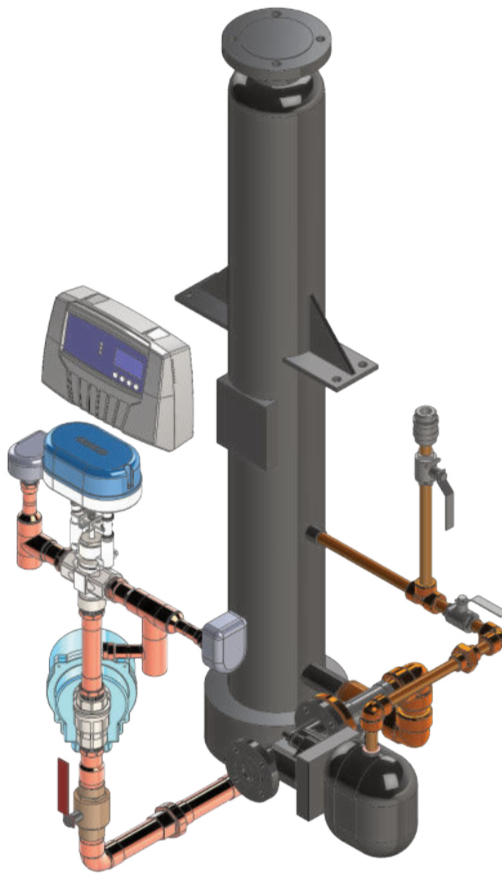


VFFF-D Instantaneous Steam Water Heater



Features

- Vertical flooded heat exchanger with subcooling condensate below 212°F, resulting in a 0% flash return system
- 5% to 8% energy savings and reduction in carbon footprint
- Control panel prewired, pretested and preconfigured for your application
- Automatic cold position on electric shut-down
- Capacity from 15 to 250 US gpm
- Electronic Blending Valve 3-way control valve:
 - ASSE International Standard 1017
 - CSA GROUP NSF/ANSI 61-2016
 - BACnet IP and MS/TP communication for BMS or EMS management
- Stability set point at 4°F
- Steam pressure at 30 psig and lower
- Considered an instantaneous steam water heater

VFFF-D Instantaneous Steam Water Heater



Major Applications

- Domestic hot water
- Emergency showers
- Clean in Place (CIP)
- Booster heater for kitchens
- Food & beverage process

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:

- Tubes are copper, cu/ni or stainless steel
- Double or single wall tubes (Not applicable on stainless steel)
- Sanitary 3A construction
- Mechanical self-contained blending valve (no electric, no pneumatic) for easier installation
- BACnet or Modbus protocol
- Additional safety shut-off valve on over temperature
- Flow meter providing actual gpm
- Second electronic blending valve preinstalled as back-up

VFFF-D Instantaneous Steam Water Heater



Features and benefits

- Patented flooded design generates on average 5% energy savings over other brands
- Shell & tube heat exchanger is built according to TEMA-C standards resulting in lower life cycle cost
- No condensate pump needed as long as the condensate backpressure is lower than the steam supply pressure
- Provided with connections for easy descaling.
- Easy install and simple operation
- Very small footprint
- Very low maintenance
- Depending on the application, unit can operate up to 50 psig steam supply. Contact Factory.
- 3-way electronic blending valve made in 304 stainless steel
- No control valve on the steam inlet
- No thermal stress caused by modulating steam supply
- Very stable operation, no noise
- Heavy duty frame for transportation and easy install
- Standard ASME stamped at 150 psig, optional up to 600 psig
- No steam safety relief valve required

VFFF-D Instantaneous Steam Water Heater

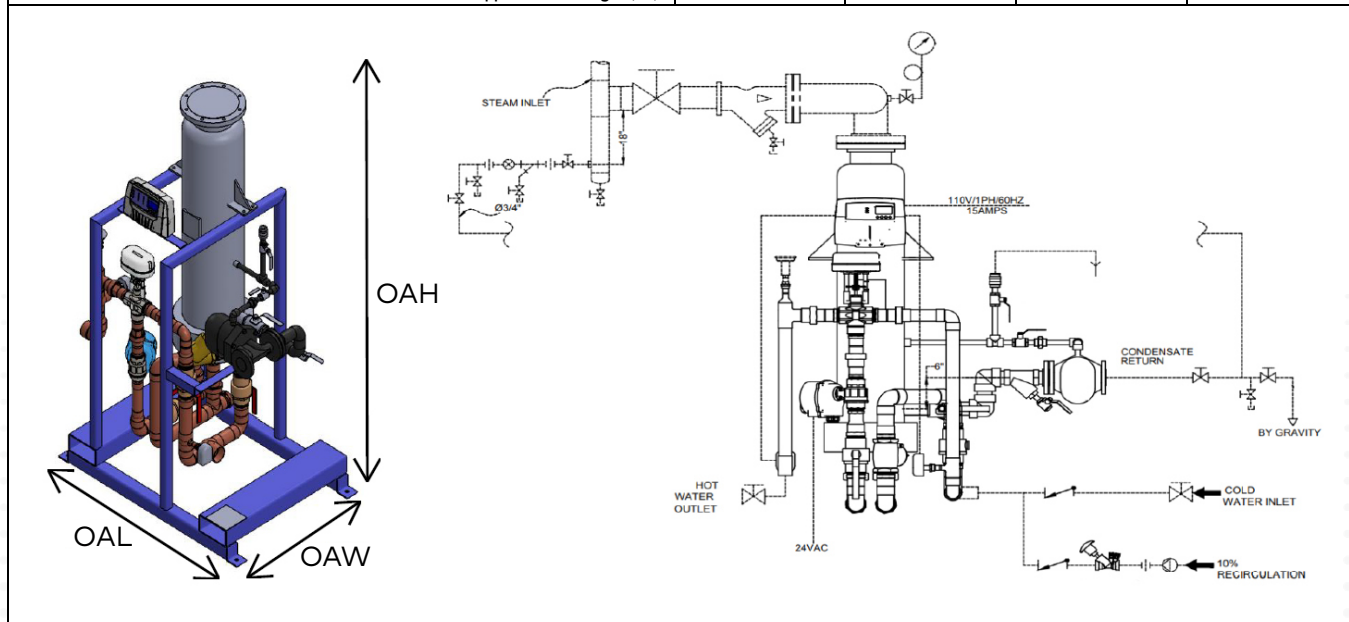


Capacity Table

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)	1 345	1 647	2 061	2 035
VFFF-60G	Max. Capacity (GPM from 40 to 140°F)	50	60	75	75
	Steam Consumption @ above load (lbs/h)	2 580	3 063	3 817	3 768
VFFF-90G	Max. Capacity (GPM from 40 to 140°F)	74	101	120	128
	Steam Consumption @ above load (lbs/h)	3 767	5 131	6 106	6 406
VFFF-120G	Max. Capacity (GPM from 40 to 140°F)	114	132	158	180
	Steam Consumption @ above load (lbs/h)	5 846	6 739	8 015	9 044

Products Data

Model	VFFF-30G	VFFF-60G	VFFF-90G	VFFF-120G
Condensate Outlet (in):	1	2	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
OA H - Overall Height (in):	75	76	78	81
Approximate Weight (lbs):	750	920	1 330	1 730



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

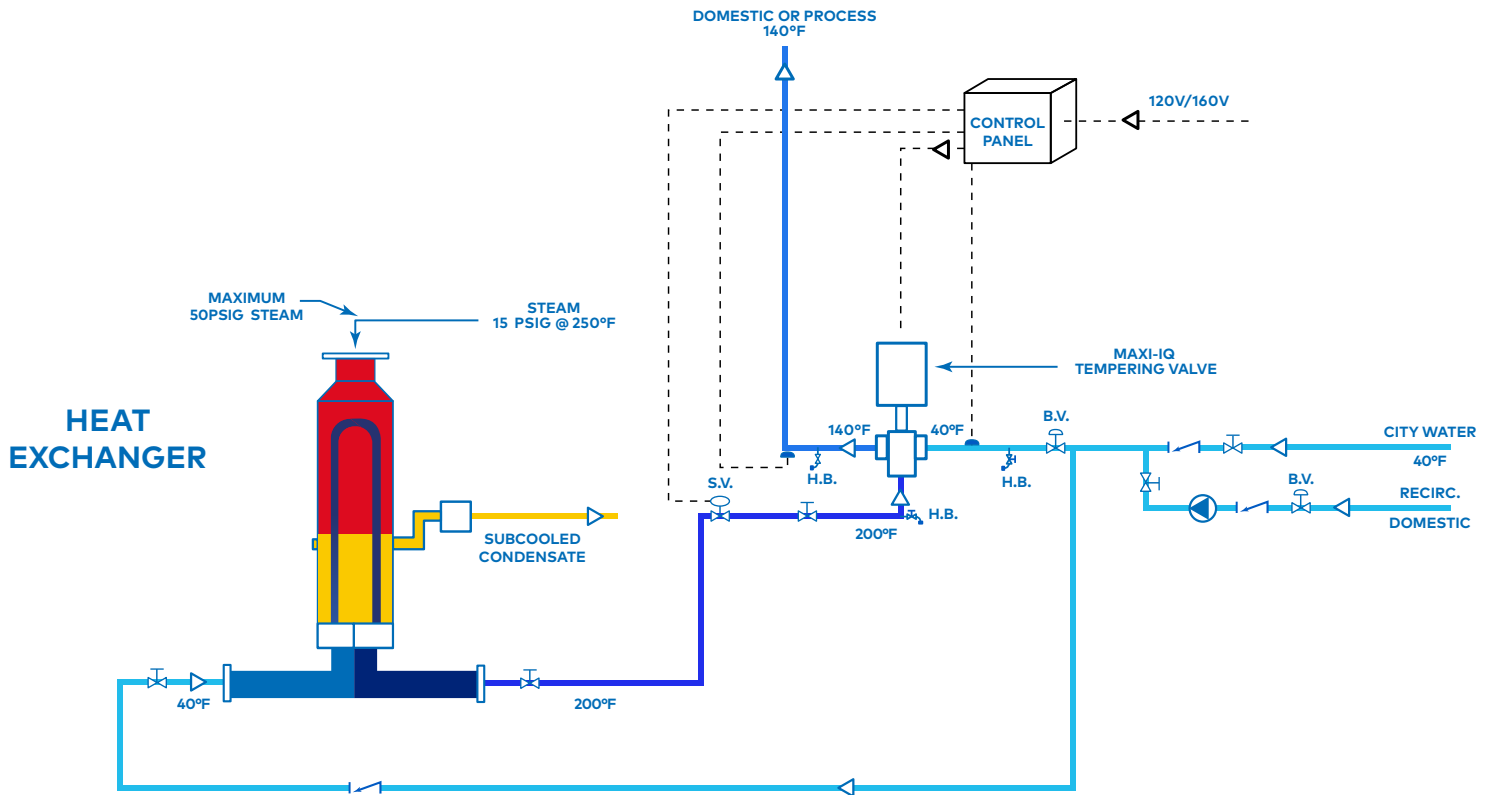
VFFF-D Instantaneous Steam Water Heater



Technical Diagram

U.S. PATENT: #14/631,932

CAN. PATENT: #2,883,083



NOTE: B.V. = BALANCING VALE
S.V. = BATTERY BACK UP
2-WAY SAFETY VALVE
H.B. = HOSE BIBB
SAFETY SHUT-OFF VALVE