Taylor-Wharton
Equipping The Hydrogen Infrastructure

Steam Heated Vaporizers

Description:

The tank, vaporizer coil and cover are manufactured from stainless steel. The tank has an automatic steam control valve that maintains the water temperature. The steam control equipment includes the main control valve with bypass line and isolation valves, strainer and steam trap.

The steam is blended with the water using steam to water mixers (injectors) these ensure optimal heat transfer to the water. These mixers also create turbulence inside the tank that provides excellent heat transfer to the vaporizer coil. The tank is fitted with an auto fill water make up with manual bypass, with overflow, vent and drain.

Options:

- Insulated tank
- Low water temperature switch/alarm
- Low temperature shut down or alarm on process stream
- Low water level switch/alarm
- Pressure build coil
- High temp shut down/alarm

MODEL	CAPACITY Nm^3/hr	STEAM CONSUMPTION
SHV 1000	1000	290 kg/hr
SHV 2000	2000	580 kg/hr
SHV 4000	4000	1160 kg/hr
SHV 5000	5000	1450 kg/hr
SHV 6000	6000	1740 kg/hr
SHV 10000	10000	2900 kg/hr

This range consists of six standard models up to flow rates of 10000 Nm3/hr of oxygen, nitrogen and argon. Systems are available to unlimited capacities and will be designed to meet specific parameters.

Capacities are based on oxygen/nitrogen at 10 – 12 barg with a water temperature of 45 deg C and a gas exit temperature of approx. 20 deg C. Steam consumption is based on steam between 5 and 6 barg.

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