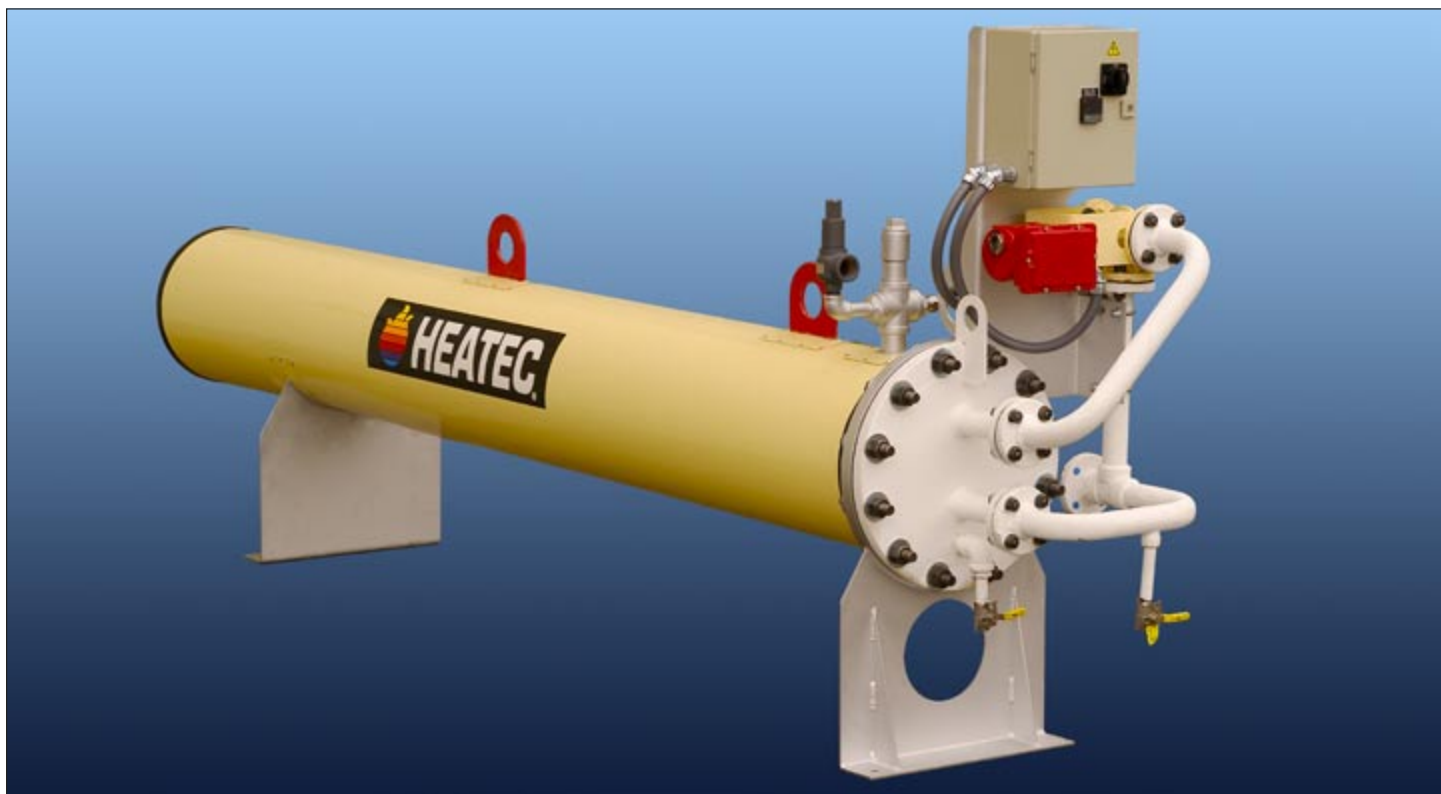


HEATEC BULLETIN

Product news from Heatec Inc., an Astec Company 5200 Wilson Road, Chattanooga, TN 37410 Phones 423-821-5200 800-235-5200 www.Heatec.com



Heatec unveils newly designed preheater

Heatec announces its newly designed heavy-fuel preheater. The preheater raises the temperature of heavy fuel more efficiently than previous models. It also maintains uniform, constant temperature while using less energy. Another major improvement is its removable coil bundle for easy cleanout.

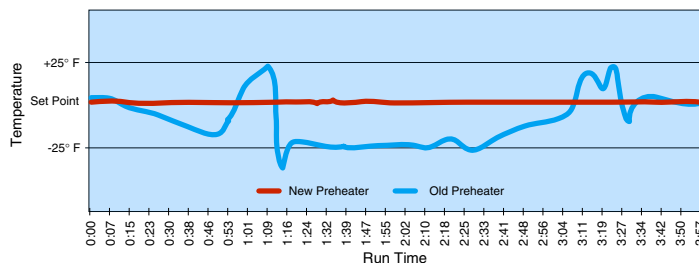
New modulating controls allow the preheater to maintain uniform, constant temperature (see graph). As heat demand increases, flow of thermal fluid (hot oil) into the preheater increases proportionally. Similarly, as heat demand decreases, flow of thermal fluid into the preheater also decreases proportionally. The flow of thermal fluid is regulated by a valve that is automatically controlled by a digital controller.

The preheater uses serpentine coils of finned pipe. The fins are serrated and increase the heat-transfer area of the pipe about 800 percent more than bare pipe. The serrations also increase efficiency by increasing the turbulence of the heavy fuel flowing around the fins. This turbulence increases the efficiency of heat transfer.

The entire coil bundle can be removed by unbolting the head and sliding it out. This allows easy access to the pre-

heater shell for cleanout of sludge and debris left by heavy fuel. A drain valve on the front head facilitates draining water that may accumulate in the shell.

The preheater is designed to raise the temperature of heavy fuel up to 100 degrees F at a flow rate of 1,000 gallons per hour. As an option, it can be built to ASME code. It has a smaller footprint than earlier models.



Graph shows new preheater's typical modulating control compared to non-modulating control on older preheaters.



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