

# Why Use A "Vacuflo Heating System" ?

Vacuflo Steam Heaters use 5 to 7% less actual STEAM to produce the same BTUS as Conventional Steam Exchangers due to the Higher Latent Heat per LB of Vacuum Steam Versus Positive Pressure Steam

Example:

Latent Heat per lb at 10" Vacuum 982 BTUs per lb

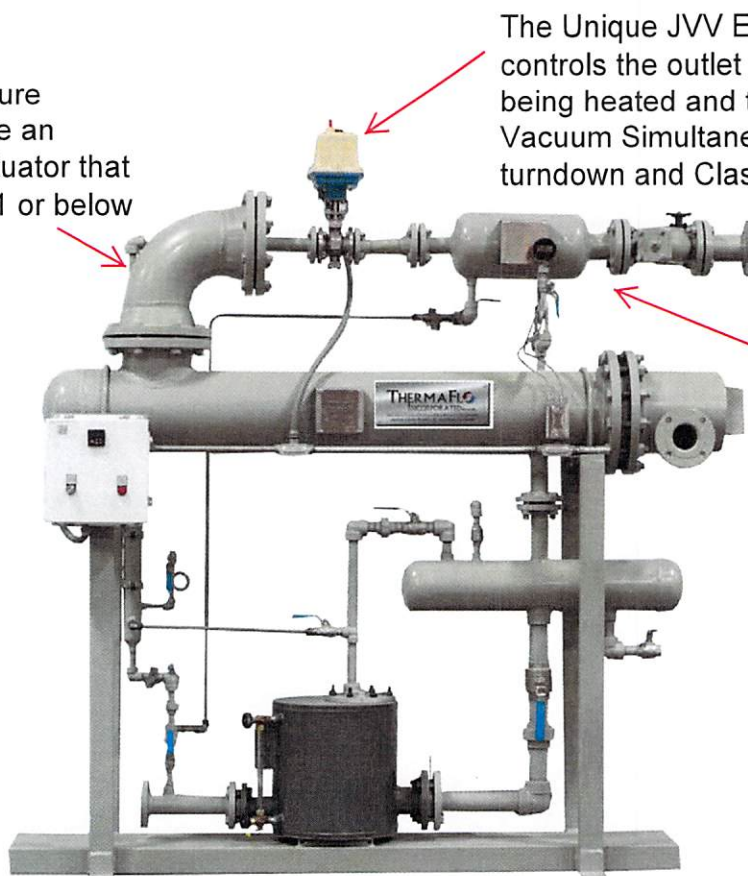
Latent Heat per lb at 15 psig 945 BTUs per lb

Steam Required to Heat 400 GPM at a 40F Rise using 15 psig Steam: 8,465.60 lbs/hr (Assuming 100% Steam Quality) Normal Quality 80 to 85%

Steam Required to Heat 400 GPM at a 40F Rise using Vacuum Steam: 8146.63

(Vacuflo Steam Conditioner Steam Quality 98% Min) Savings of 318.97 lbs/hr plus the Vacuflo Saves an additional 338.62 lbs/hr of Flash Steam that a 15 psig system generates in normal operation! Savings of \$20,000.00 yearly in Energy!

As a Standard Feature Vacuflos incorporate an internal noise attenuator that drops the DBA to 81 or below for quite operation



The Unique JVV EC800 Steam Control Valve controls the outlet temperature of the fluid being heated and the shell pressure to a Vacuum Simultaneously with 100:1 flow turndown and Class 6 Dead Tight Shutoff

Steam Conditioner ensures steam quality and the maximum heat transfer in BTUs/per lb. Conventional systems use more steam for the duty due to poor non conditioned quality

In many installations steam PRV Stations are Totally Eliminated with Vacuflo and its Pressure control Temperature control system that allows up to 150 psig steam to be piped directly to the inlet and controlled in a Vacuum in the shell at the point of use!

Vacuflo Heat Transfer Systems do not allow AIR to be absorbed into the condensate return as we see in the conventional steam trap to vented return pump type system. Air and Lower Condensate Temperatures attack and corrode condensate piping systems. The Closed Loop Vacuflo eliminates this!

Electric Condensate Pumps and Associated Flash Tanks and Vent Line holes cut in through roofs are eliminated with the Vacuflo and its Vacuum POP Closed Loop Return System

ASME Code Complete Construction 150 psig  
ASME Hartford Steam Boiler Third Party Inspection  
Complete Material Control QC  
Made in USA



[www.thermafloengineering.com](http://www.thermafloengineering.com) 704-940-1228  
Manufacturing Facilities: 1228 Fair Avenue  
Newberry, South Carolina 29108 USA