



Shippensburg Pump Company, Inc.

BOILER FEED • CONDENSATE • DEAERATOR • VACUUM

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Why Use A Vacuum Pump?

Installing a vacuum pump in steam condensate return system removes the air efficiently out of return piping. This enables the condensate to return more rapidly to the boiler feed unit or condensate vacuum unit. This reduces energy consumption and cuts boiler room operating costs.

Performance of heating units can be significantly improved as well. Entrapped condensate in heating units or in the return piping is removed when a vacuum is created. Those units not in use are partially evacuated allowing the steam to more quickly fill these units when the supply valve is turned on.

Advantages of vacuum systems can be summarized as follows:

- Efficient air removal. Air removal is important because air acts as an insulator preventing efficient heat transfer, thereby impairing the flow of steam through the system.
- Minimizes wasted BTUs by enabling the condensate to return faster to the boiler maintaining sensible heat. This reduces energy costs.
- A freer flow of steam through the system can reduce the piping size at least one pipe size over the size required by a comparable gravity return system. This lowers installation costs significantly.
- Lower boiler operating costs can be achieved when boilers operate at lower pressures.

Shipco® offers cast iron vacuum chambers for applications requiring longer life and durability at a competitive price. Our vacuum pumps are energy efficient, operate quietly, and very dependable.

Shipco® pumps are built to work in rigorous boiler room conditions and are virtually maintenance free when compared to other close-tolerance vacuum producers. For over 25 years, our multi-jet design has proven to be an effective and reliable means of removing air and lifting condensate in return systems.

Sincerely,

Shipco® Marketing and Sales Department