

Thermo Compressors

Thermo Compressors are jet pumps which work with the same principal of ejectors but provide higher efficiency. The high pressure motive entrains the low pressure medium and results an intermediate pressure at discharge. Thermo compressors usually equip with manually or automatically controlled spindles that allow them to work properly when suction or discharge parameters including the pressure or flow change.

We recommend you Kara high efficiency Thermo-Compressors to recirculate or boost lower-pressure steam, so venting of significant quantities of low-pressure steam to the atmosphere which happens abundantly in industrial plants can be prevented. Recovery of the latent heat content of low-pressure steam reduces the boiler load, resulting in energy and fuel cost savings.

<u>General Usage</u>	<u>Typical Applications in Industries</u>
To increase the pressure of low-pressure mediums, specifically when suction or discharge operating conditions change.	<ul style="list-style-type: none"> ❖ <u>Paper production</u> ❖ Making <u>rubber tires and tubes</u>. ❖ To boost the pressure of <u>flash steam from a condensate receiver</u>. ❖ Handle liquefied petroleum gases and air for <u>gas, electric, and chemical industries</u>. ❖ <u>Coal gasification</u>. ❖ Compress the vapor to make it reusable in discharge of <u>dryers, stills, strippers and deodorizers</u>. ❖ <u>Food and Pharmaceutical industry</u>

<u>Advantages</u>	
	<ul style="list-style-type: none"> ❖ Increased energy efficiency ❖ No rapidly rotating parts ❖ Low maintenance cost ❖ working with all types of fluids ❖ Long lifetime ❖ Safe and reliable operation ❖ Manufactured from various materials ❖ Simple Construction

<u>Applicable Materials</u>	<u>Different Types</u>
<ul style="list-style-type: none"> ❖ Stainless Steel ❖ Carbon Steel ❖ PTFE ❖ Hastelloy 	<ul style="list-style-type: none"> ❖ Without regulating spindle ❖ Supplied with manually-controlled spindle ❖ Supplied with automatically-controlled spindles

<u>Design Codes/ Standards</u>	<u>Quality Assurance</u>
<ul style="list-style-type: none"> ❖ HEI Standard for Steam Jet Vacuum Systems ❖ ASME Sec.VIII ❖ ASME B.31.1 ❖ ASME B.31.3 	

Kara Thermo-Compressors Advantages:

- ❖ Custom design
- ❖ Performance Test at shop
- ❖ Ability to produce with different types of materials proportional to corrosive/erosive medium or environment

Specifications of one Type

Previous Projects

Equipment photos / Operation photos / Applications photos