



# Fulton SYSTEMS

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# THERMOCOMPRESSORS

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As paper machines speed up, more blow through steam is required to evacuate condensate from the dryers. Thermocompressors provide the mechanism to recycle this blow through steam. The recycled steam is returned to the steam header, thereby optimizing energy efficiency. In the process, complete system flexibility is achieved by allowing each dryer section to operate independently of other sections. Recirculating steam reduces steam loss to the heat exchanger or atmosphere and allows minimum pressure in all dryers. When drying capabilities exceed demands, this reduces the need and frequency of shutting off dryers. With over ninety years in the steam and condensate systems business, Fulton Systems' Thermocompressors have a long history of proven quality and performance.



## TYPICAL CONFIGURATIONS

### **RECIRCULATING DRYER SECTIONS**

Thermocompressors recompress blow through steam for re-use. This arrangement permits each dryer group to be operated independently. Higher steam pressures resulting in more drying capacity, energy conservation, and greater operating flexibility are some of the benefits of recirculating Thermocompressors.

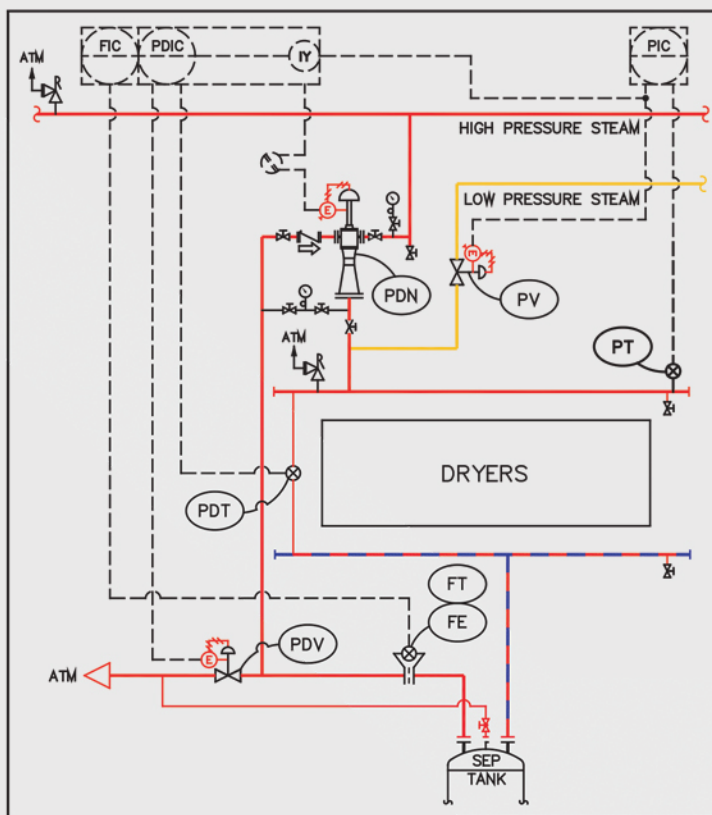
### **BOOSTING STEAM PRESSURES**

Done by recompression of low pressure steam to a higher pressure using a Thermocompressor. This application is beneficial for situations where there is an abundance of low pressure steam and a shortage of higher pressure steam.

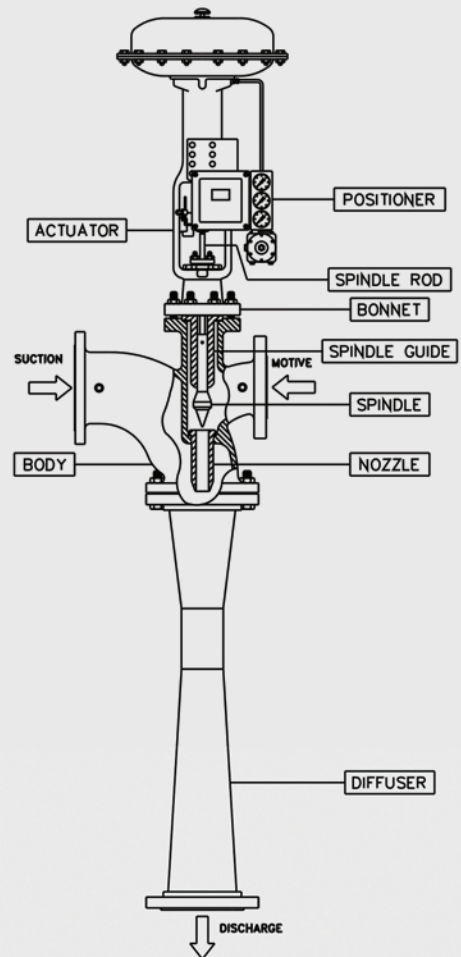
## YANKEE BLOW THROUGH STEAM

Can be as much as 50% of the steam supplied to the Yankee. A recirculating Thermocompressor recompresses the blow through steam for re-use in the Yankee.

Typical Application and Control



Fulton  
Thermocompressor



5-2005 FSI-101

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