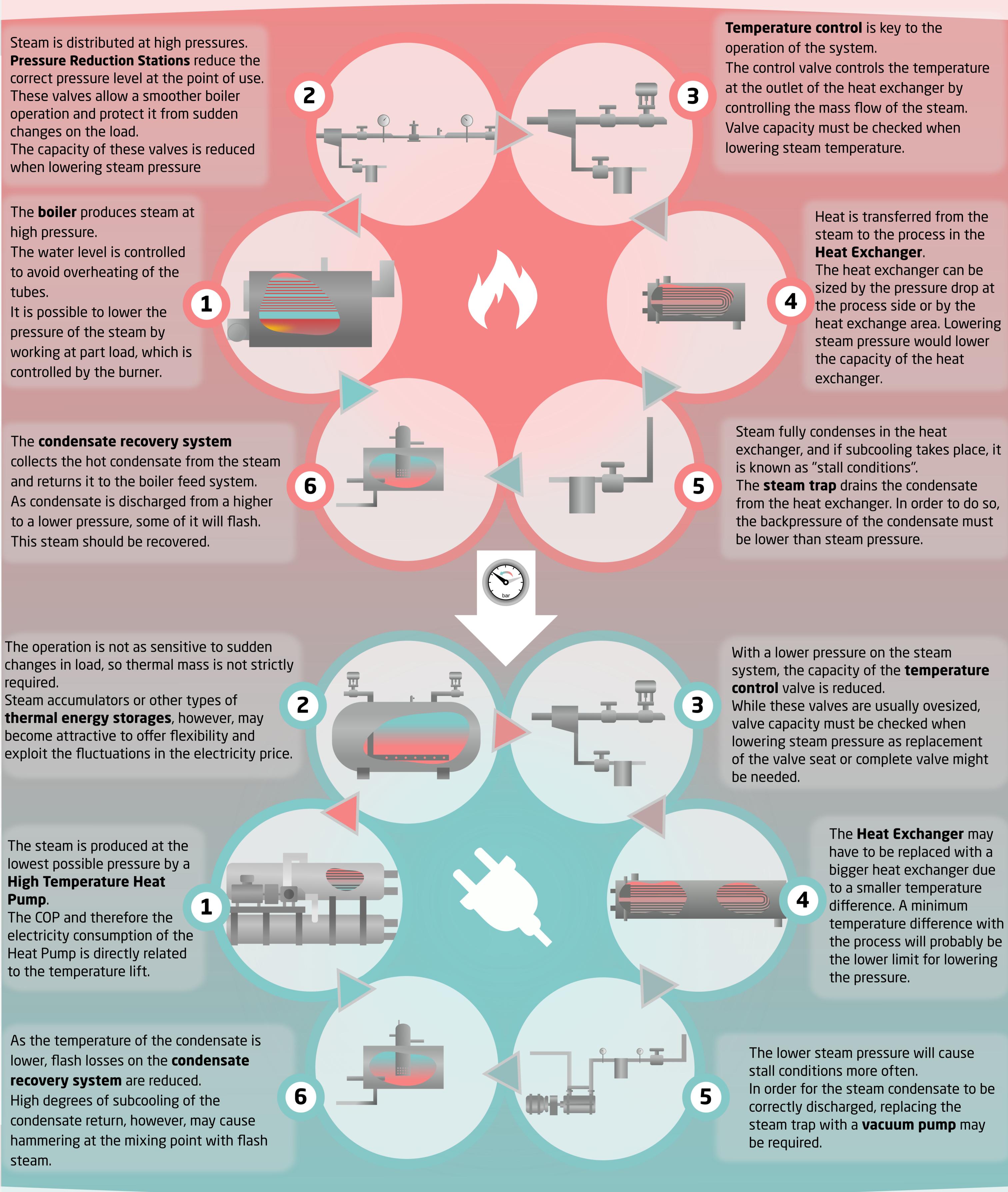
From boiler-based to Heat-Pump-based Industrial Steam Systems

Replacement of gas-fired boilers with High Temperature Heat Pumps in existing steam systems may be an economically attractive option to achieve electrification of industrial processes. In order to do so, it may be desirable to reduce the pressure of steam. This infographic presents the limitations and constraints that are necessary to consider in order to effectively replace the boiler with a Heat Pump by lowering the steam pressure of the system.



When lowering the pressure of steam all of the different elements of the system have to be studied in detail. A comprehensive description of the system and data on all of the components have to be gathered in order to study the economic viability and the lower limits on steam pressure. This study is key to effectively and efficiently integrate a High Temperature Heat Pumps into existing systems.

