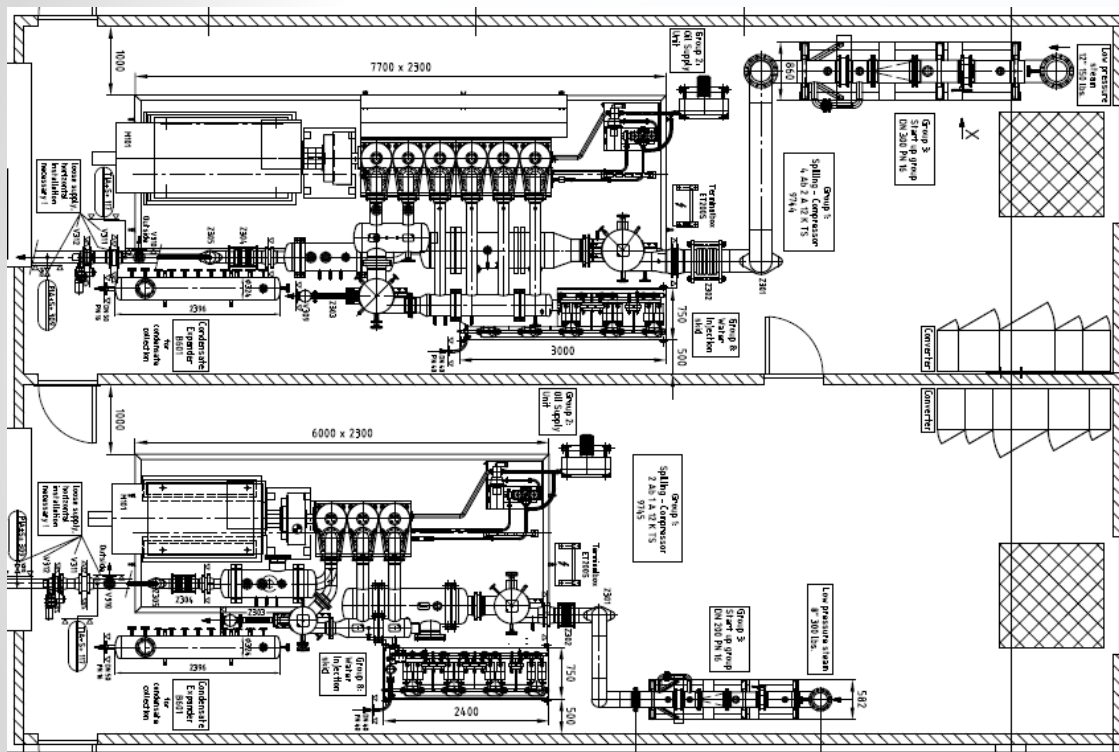


Example

Steam Compressor in Chemical Industry



Year of Manufacture : 2017
Country: UK
Customer: Chemical Industry

Application : Recycling of
LP steam into
HP steam for
process heating

Inlet Steam: 5 bar_a
Outlet Steam: 19.5 bar_a
Steam Flow Rate: 11.5 + 5.5 t/h

El. Power Demand: 1,500 + 750 kW_{el.}
Heat Load Steam_{out}: 8 MW_{th} + 4 MW_{th}

COP: ~5.3

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Example

Steam Compressor in Paper Industry



Year of Manufacture: 2016
Country: Sweden
Customer: Paper Industry

Application: Steam recycling
at paper pulp
drying with
overpressure
steam dryer

Inlet Steam: 3.2 bar_a
Outlet Steam: 16 bar_a
Steam Flow Rate: 2 x 8 t/h

El. Power Demand: 2 x 1,325 kW_{el.}
Heat Load Steam_{out}: 2 x 5,600 kW_{th}

COP: ~4.2

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Example

Steam Compressor in the Power Sector



Year of Manufacture: 2015
Country: Germany
Customer: El. Power Producer

Application: Lignite drying by using cleaned and recompressed steam dissipating from the product

Inlet Steam: 3.3 bar_a
Outlet Steam: 12 bar_a
Steam Flow Rate: 5.2 t/h

El. Power Demand: 580 kW_{el.}
Heat Load Steam_{out}: 3,600 kW_{th}

COP: ~6.3

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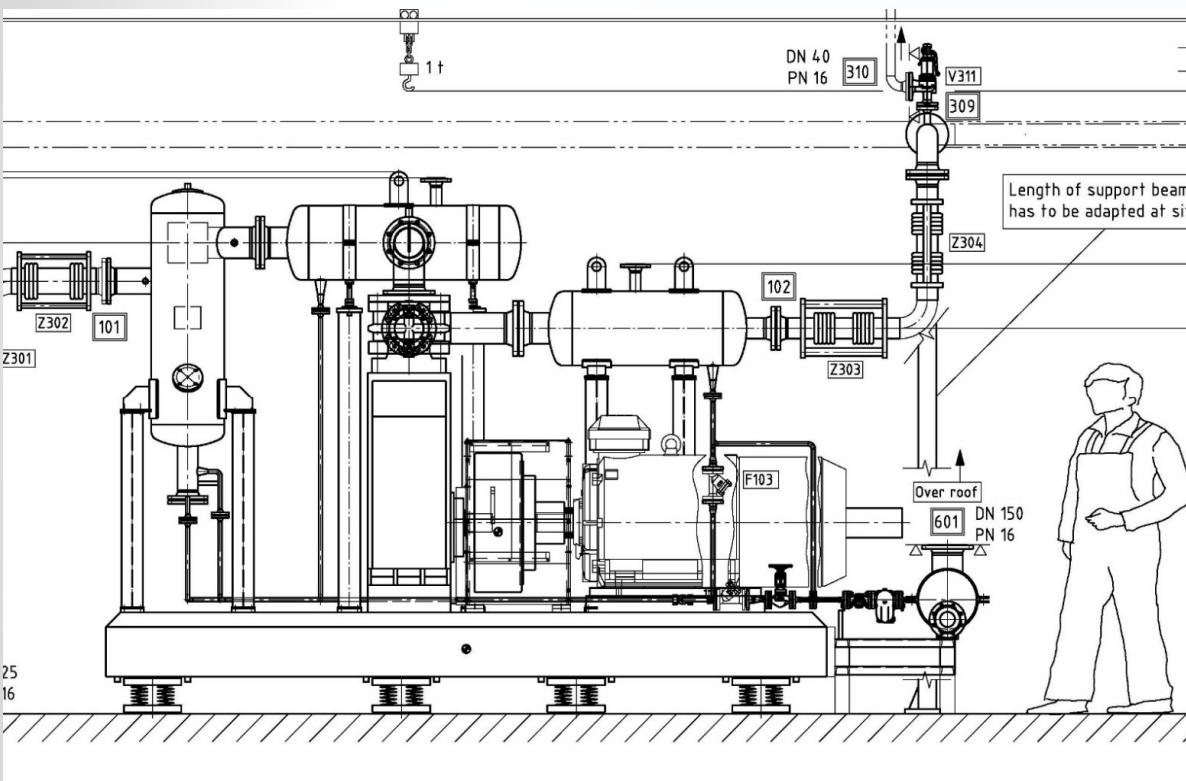
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Example

Steam Compressor in Food Industry



Year of Manufacture: 2013
Country: Mongolia
Customer: Dairy

Application: Pressure increase from district heating pressure level to process steam pressure level

Inlet Steam: 4.5 bar_a
Outlet Steam: 9 bar_a
Steam Flow Rate: 2.5 t/h

El. Power Demand: 170 kW_{el.}
Heat Load Steam_{out}: 1,750 kW_{th}

COP: ~10.3

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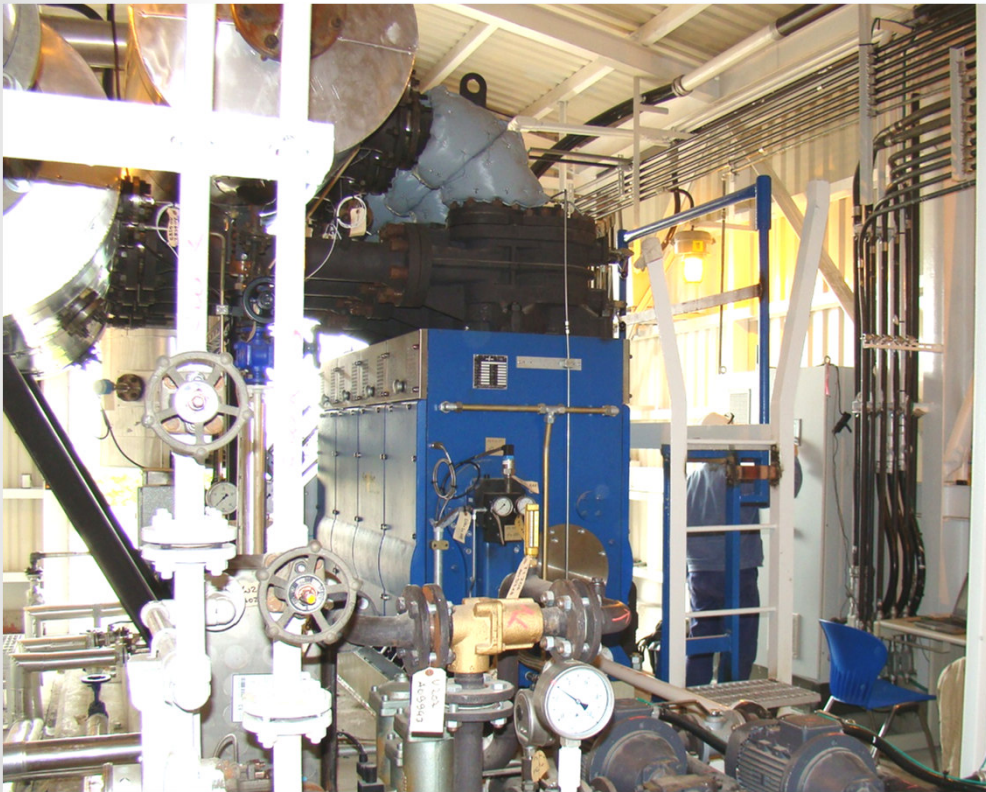
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Example

Steam Compressor in Petrochemical Industry



Year of Manufacture: 2009
Country: Taiwan
Customer: Petrochemical Industry

Application: Recycling of
LP steam into
HP steam for
process heating

Inlet Steam: 9 bar_a
Outlet Steam: 21 bar_a
Steam Flow Rate: 12 t/h

El. Power Demand: 1,000 kW_{el.}
Heat Load Steam_{out}: 8,400 kW_{th}

COP: ~8.4

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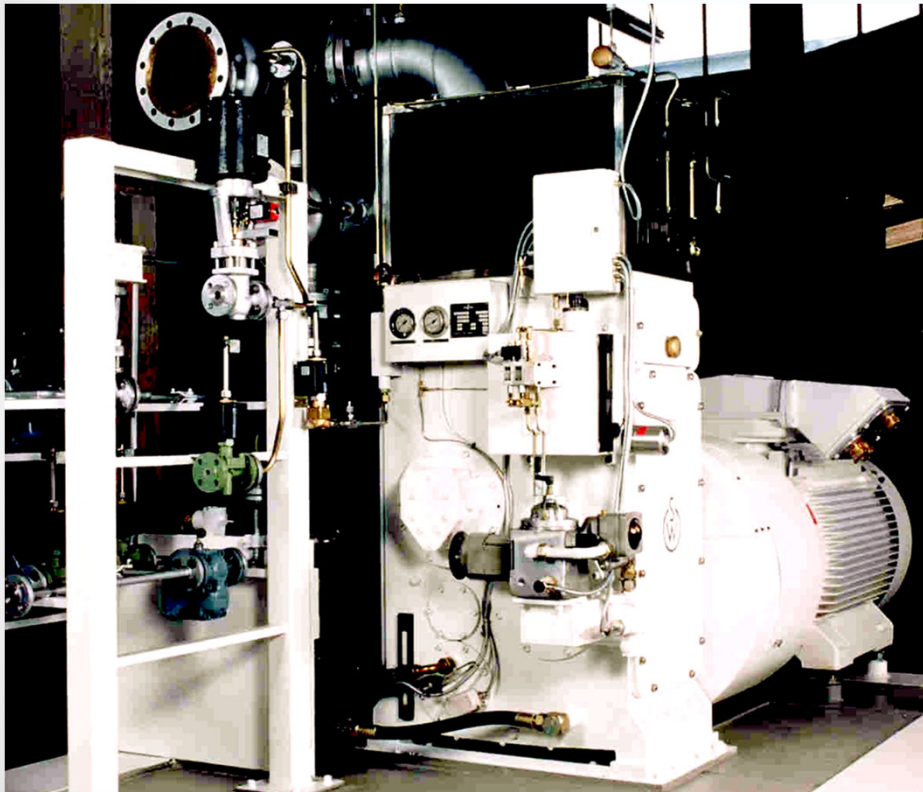
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Example

Steam Compressor in Micro Chip Industry



Year of manufacture: 1998
Country: Germany
Customer: Micro Chip Industry

Application: Recycling of
LP Steam for
supplying
HP steam for
cleaning purposes

Inlet Steam: 4 bar_a
Outlet Steam: 8 bar_a
Steam Flow Rate: 3 t/h

El. Power Demand: 190 kW_{el.}
Heat Load Steam_{out}: 2,100 kW_{th}

COP: ~11

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