

Hibon Positive Displacement Blowers ATEX SNS 806 B1 unit is used in France for Energy recovery process of gas to fuel steel furnaces.

Application

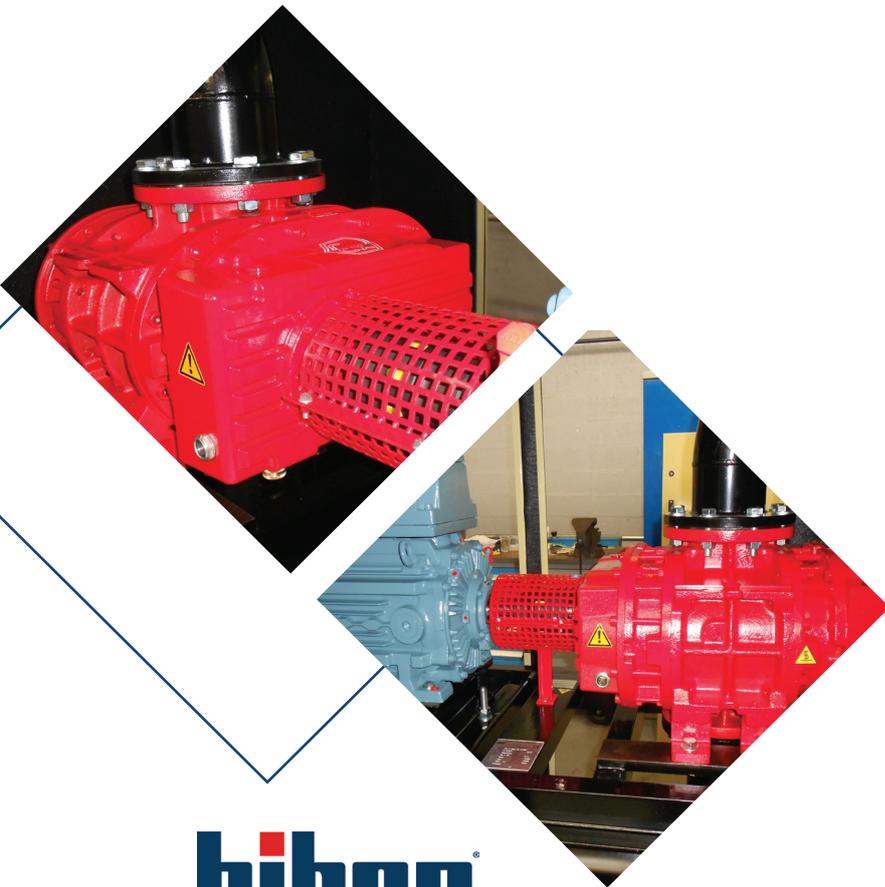
The blower is mounted on a system of recirculation of the atmosphere (nitrogen-hydrogen mixture) of an annealing furnace. The mixture consists of hydrogen and nitrogen (amount of hydrogen variable from 0 to 100% depending on the quality of the sheet to be treated). There may be small amounts of CO, CO₂, CH₄, ... gas from the treatment carried out in the furnace.

The goal is to get the hot mixture to the furnace (1100 ° C), to cool in a heat exchanger so that it reaches a temperature of 40 ° C. It is then sent to the inlet of the dryer by means of a blower through filters and exchangers

Solution

Blower type: SNS 806 B1 AD with enclosure

- Gases: H₂+N₂
- Inlet Pressure: 1050 mbar abs
- Outlet Pressure: 1250 mbar abs
- Differential pressure: 200 mbar
- Flow: 200 Nm³/h
- Blower speed with speed variation: 903 –2443 RPM
- Blower shaft absorbed Power: 7.7-8.94 kW
- ATEX Zone 2 Cat.3 EX II 3G c IIC T=160°C



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