



CASE STUDY

Process Positive displacement blower SVH50 in INOX packaged and equipped with frequency converter used for a mechanical steam compression (Unit of concentration of heavy metals).

Customer

GRAPHOCOLOR (Annecy in FRANCE) manufactures anodized aluminum components, decorated and stained aluminum packaging, elements for the perfume industry, cosmetics and pharmacy. It is a subsidiary of the American group AptarGroup.

Application

Mechanical steam compression : The purpose of this application is to concentrate effluents from a aluminum treatment unit. Mechanical compression of steams provided by a the hibon SVH50.

Solution

Hibon Positive displacement blower SVH50 in INOX with frequency converter

Fluid	100% Water steam	
Pressure	1013 mbar	
Altitude	0 meter	
Temperature	100 °C	
Density	0.598 kg/m ³	
Differential Pressure	1813 mbar	
Theoretical flow	1188 kg/h	550 kg/h
Speed blower	1216 tr/min	858 tr/min
Blower shaft power	90 kW	63 kW
Outlet temperature	117 °C	117 °C
Water injection flow	95 kg/h	71 kg/h
Outlet temperature without water injection	230 °C	300 °C
Outlet Saturation temperature after water injection	117 °C	117 °C
Injection water temperature	30 °C	30 °C
Motor power	132 kW	



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