

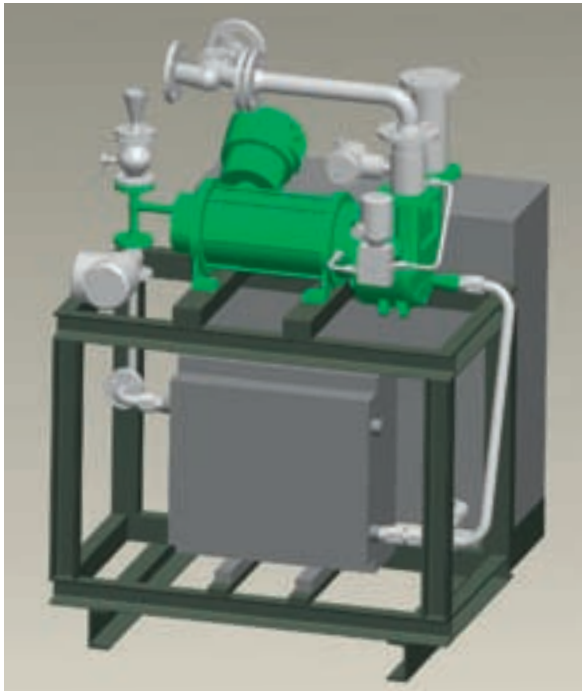
INFOSHEET

ACHEMA 2009

HeDyVac



HeDyVac – Hermetic Dynamic Vacuum pump



Liquid Ring Vacuum Pumps with Speed Control

The **HeDyVac** concept is available in conventional or hermetical design, independent from sealing – from size 125 over the whole size range (until end of 2009).

No more bypass or – Pressure control over speed control

The liquid ring vacuum pump of the series **HeDyVac** by HERMETIC-Pumpen GmbH is the first machine which can be controlled from 0 to 100 %. The suction capacity can be adapted directly and fully automatically to the volume flow occurred. The bypass is no more necessary and thus oversized motors, energy loss by bypass control and additional installation and piping work will be avoided. Due to the modified operating liquid supply of the **HeDyVac** liquid ring vacuum pump, the suction capacity can be reduced to zero by speed control without becoming instable, normal liquid ring vacuum pumps are becoming instable in lower speed range. No bypass piping and no control valve will be required. The pump itself controls the vacuum.

Suction capacity 0 – 130% – Faster to operating pressure

The variable control allows precise adaptation to the requirements and always offers maximum possible suction capacity. So pumping times considerably can be minimised, an important advantage for example in Batch processes. [see figure 1]

Saving of energy –

As fast as necessary, as economically as possible

By speed control up to 70 % of the energy can be saved. Adaptation to latest requirements and new technologies as well as integration into the process make pump and systems even more compact and thus enable easy installation and also replacement of existing systems. [see figure 2]

Direct integration into the process control system

Due to this new construction and the possibility of speed control, the pump can be integrated directly into the process control system and adjusted to the required pressure. Absolutely in line with the process – for different processes at different pressures.

Integrated design

The supplied / assembled frequency converter is properly adapted to the requirements of the pump and demands from our customers: already pre-parameterised and besides “Plug and Play” in the process control system it also allows easy and safe operation at site.

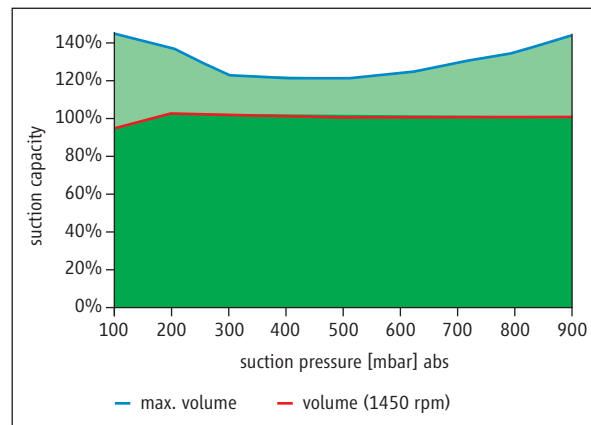


Figure 1: Increased maximum suction capacity

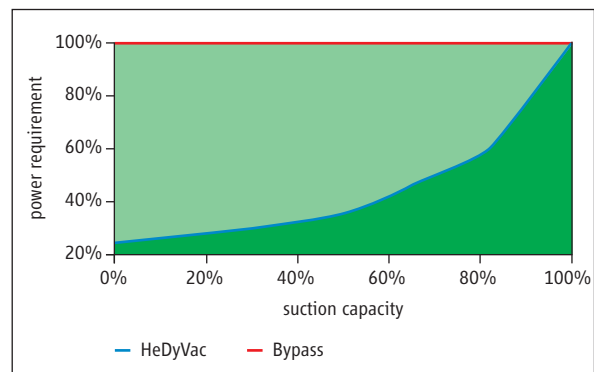


Figure 2: Power saving by speed control