

Are Oil-Lubricated Sliding Vane Vacuum Pumps

Wasting Your Time & Money?

Some of the Reasons Why:

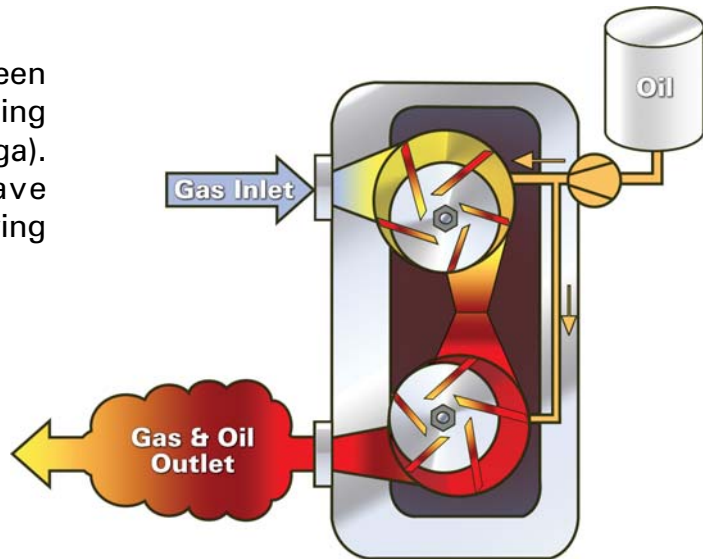
- **Cannot handle liquid carry-over**
- **Oil contamination**
- **High noise level**
- **High life-cycle cost due to oil consumption and disposal**
- **High internal temperatures**
- **Extensive care & maintenance -
Regular repair and low MTBF
(mean time between failure)**



SIHI^{dry} Has the Solution!

Two stage, once through oil, sliding vane pumps

Oil-lubricated sliding vane pumps have been used for many years in applications requiring vacuum levels between 1 and 38 mmHg (Hga). All of these sliding vane designs have similar maintenance problems. The following disadvantages have been experienced:



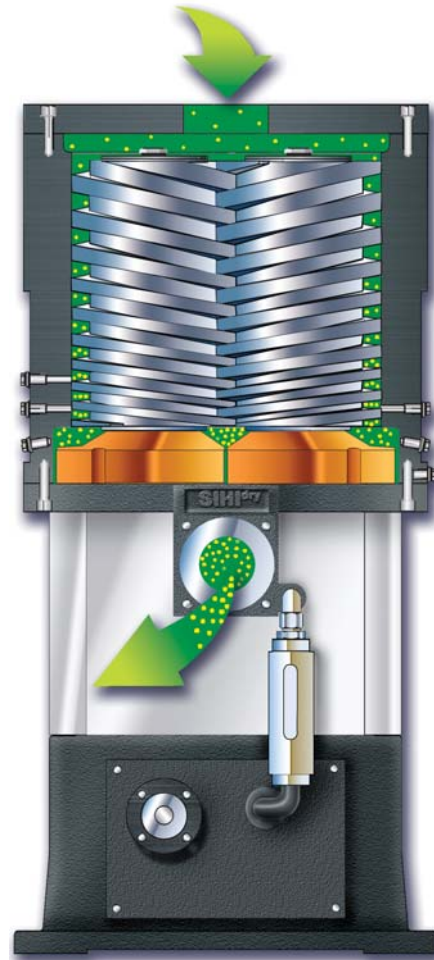
- Sensitive to liquids in the vapor stream so they need very efficient vapor/liquid separators.
 - Solids in the gas stream must be avoided
 - Improper operating temperature is a major concern. If the unit is too cold, condensation can occur, resulting in corrosion.
 - Liquid condensation will dilute the protective film & cause the pump to lock up.
 - If the system contains oxygen, solvent vapors passing through the pump could ignite.
 - The oil selection can be a problem. It must be compatible with any process vapors it will contact.
 - Maintenance of sliding vane pumps requires special tools and training therefore manufacturers discourage in house repairs.
 - Mechanical seal replacements.
- ◆ **High operating costs of oil-lubricated sliding vane pumps increase production costs**

The **SIHI**^{dry} Solution

Why use the **SIHI**^{dry} ?

The **SIHI**^{dry} is a dry running vacuum pump specifically designed for use within the chemical process industry and is being used to replace the oil-lubricated sliding vane pumps.

- **SIHI**^{dry} is available without mechanical seals
- **SIHI**^{dry} is completely dry, and needs no lubricating fluids
- **SIHI**^{dry} has non-contacting rotors and no wearing parts
- **SIHI**^{dry} requires no regular service
- **SIHI**^{dry} is quiet, robust and reliable!
- **SIHI**^{dry} due to it's design, is very forgiving to process upsets



As part of evaluating the **SIHI**^{dry} offering...

- ◆ you will recognize the operating cost advantages of **SIHI**^{dry}:
- ◆ no purchase, disposal, storage, fill & drain cost for expensive special oils
- ◆ no acoustic enclosures to protect against noise
- ◆ no mechanical seals to maintain or replace
- ◆ minimal cost for replacement parts and maintenance (preventative maintenance recommended after 20,000 hours)

**These savings can approach
\$40,000 to \$50,000 per year!**

SIHI^{dry} – the simple replacement

We offer ...

Compact dry vacuum technology for most common sizes.

◆ **small installation footprint!**

SIHI^{dry} provides the optimum price/performance relationship for direct replacement of oil-lubricated sliding vane pumps.

◆ **existing control panel can be used!**

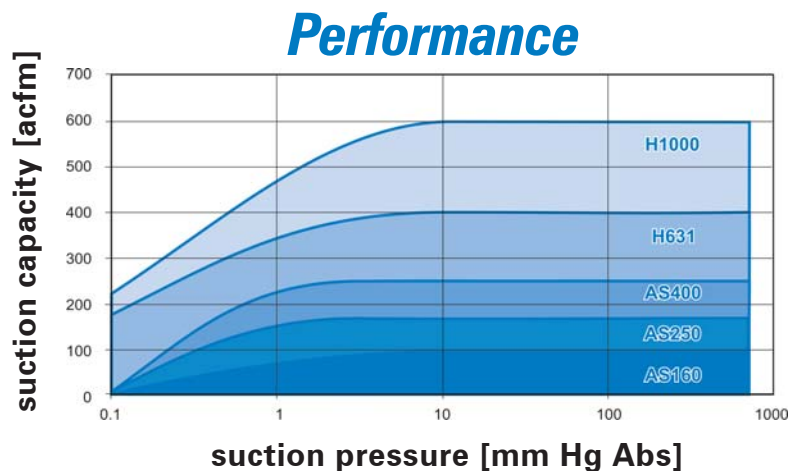
Further control options available, as standard, including variable speed, and full control, for simple plant integration.

◆ **high flexibility with validated processes!**



Our advice ...

Please consult our vacuum experts for a simple solution. We offer the facts needed to make an educated and reliable process decision.



SIHI^{dry} ... simple, reliable, & dry



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