

DHS 065 VSD⁺ and DHS 100 VSD⁺

ATLAS COPCO DRY SCREW VACUUM PUMPS

General description

Atlas Copco has developed a new dry screw vacuum pumping solution which is air cooled and certified "Class Zero" according ISO 8573-1 standard. The design hosts an aluminium pump body and screw rotors enclosed in a sound insulating canopy with built-in inverter and Elektronikon MK5 controller.

Suitable for a wide range of applications from food packaging to vacuum bagging and industrial parts cleaning and drying – the DHS VSD⁺ series offers a clean, durable and reliable solution.

The core of the DHS VSD⁺ features a screw element made out of aluminium enclosed in an extruded aluminium body. The benefit of these materials is a cool running pump which only requires air cooling, reducing the heat load exhausted in your workplace. Another advantage of the non-contact dry screw technology is the power efficiency and high performance.



DHS 065 - 200 VSD⁺

CLEAN

Atlas Copco is committed to creating a cleaner environment: for the world as a whole and in your workplace. The DHS VSD⁺ series of air cooled dry screw vacuum pumps contributes to this in several ways;

- It eliminates the use of oil
- It lowers the heat load in your workplace

The DHS VSD⁺ features a belt transmission that will gear up your production process for the future. The belt ensures easy servicing but best of all there is no requirement for a gearbox and oil bath. The DHS VSD⁺ is a Class Zero machine: it is 100% oil free.

This means no risk of contamination of your process and zero need for expensive oil filters.

The DHS VSD⁺ runs on air. At least, it's cooling mechanism does. Forget oil or cooling water, we use air to keep it cool.

CLEVER

This air cooled dry screw vacuum pump is backed with clever innovations that maximize performance and minimize costs.

At the top of the list is its Variable Speed Drive. This technology matches the pump's performance to your process' demands. It only runs when needed, leading to low lifecycle costs. The variable speed technology takes an axe to your energy consumption.

The DHS VSD+ is a brain box. Its compact canopy is filled with clever designs. The new screw profile for example features a variable pitch rotor design gives this small-scale vacuum solution serious pumping power.

It delivers best in class performance, resulting in better pump down times than traditional oil sealed vane pumps.

The intelligent Elektronikon MK5 controller allows remote monitoring, extensive external control choices through digital in and outputs and it manages the pumps optional purge gas system. Intelligence is truly in this machine's DNA.

COMPACT

The DHS VSD+ won't take up much of your valuable floor space. It's clever design consists of only 50 different parts. Many of those in sturdy and durable aluminium, all of them designed to make maintenance easy and the noise reducing canopy ensures a quiet operation.

The easy plug and play installation means that this versatile pump is a turn-key solution that guarantees peace of mind. Atlas Copco's range of DHS VSD+ vacuum pumps is proof that the best things come in small packages.

Scope of supply

The DHS VSD+ range of vacuum pump systems come equipped with the following as standard:

- Element, gearbox and drive train all mounted on a common base frame
- Vibration reducing feet
- Integrated exhaust silencer for noise reduction
- Inlet non-return check valve preventing reverse rotation of the pump and isolation from the process stream when not running
- Electric motor that is inverter rated

The canopy / enclosure features:

- Strong internal chassis and external panels power coated finish
- Ventilation ducts and fans
- Simple to remove cover and internal chassis designed to facilitate easy access to the pump

The control system features:

- The world renown Atlas Copco Elektronikon Mk5 user interface and controller
- Pressure band control by utilizing a vacuum transducer to monitor the process duty point
- Easy to manage maintenance schedules through its simple to operate menus
- Ability to be expanded to multi-pump control plus the opportunity to upgrade to remote management

To summarize

A one-stop-shop solution to a vacuum systems need. Atlas Copco's reputation for building quality and technically innovative and superior products extends throughout its vacuum pump and systems range.

Our solution offers:

- Complete flexibility and controllability for accurate pressure band control
- 100% oil-free "Class Zero" certified
- Plug-and-play design
- One control system, remote management possible
- Compact, clean and clever design
- More cost effective than traditional systems
- More efficient cooling and temperature control