DHS 3000 VSD+

Advanced dry screw vacuum pump

The DHS 3000 VSD⁺ dry screw vacuum pump is designed to deliver performance and efficiency for demanding industrial applications. Its high-efficiency motor, combined with a patented asymmetrical rotor profile, enables energy savings compared to conventional vacuum screw pumps, lowering operational costs without compromising output.

With an integrated intelligent controller and variable speed drive, the DHS 3000 VSD⁺ continuously adapts to process requirements, providing the exact vacuum level needed at every stage. This ensures stable performance, optimized energy use, and reduced wear on components, extending the lifetime of the system.

For operations looking to improve process reliability while reducing energy consumption, the DHS 3000 VSD⁺ provides a proven, efficient and sustainable solution.

Performance meets savings with the DHS 3000 VSD⁺

High efficiency motor

The DHS VSD⁺ is equipped with high efficiency IE4 motor for low energy consumption and a cooling flow system for optimal functioning.

Reliable motor gear box

Power transmission from motor to pump element is done with a gearbox for optimal energy efficiency. Cooled oil flow ensures long lifetime of transmission gears.

Plug and Play solution

The DHS VSD⁺ is delivered as a complete plug-and-play unit, ready for seamless integration into your installation.

Low noise and maintenance

The DHS VSD⁺ features a fully enclosed canopy with silenced doors and baffled air inlets. Its oil-free technology reduces maintenance costs.

User-friendly controls

The DHS VSD⁺ has our Elektronikon® MK5 Touch controller which allows you to manage pressure setpoint control, PI regulation, temperature and pressure switch.

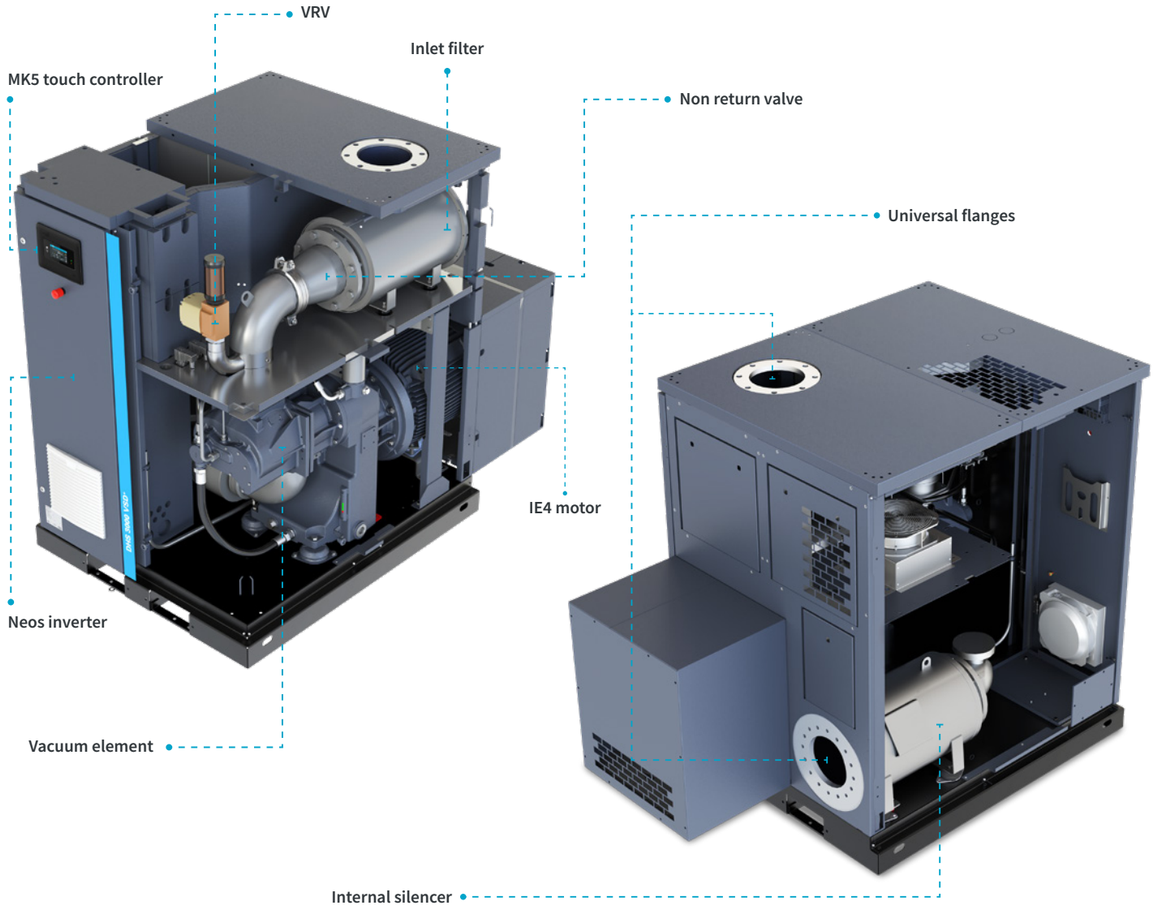
Protective air inlet filter

The DHS VSD⁺ comes with a paper filter that protects elements from dust and particles, resulting in a longer lifetime with the lowest pressure drop possible.

Neos inverter for variable flow

The Neos inverter is a best-in-class integrated variable speed drive (VSD) for superior energy efficiency. It automatically adjusts speed according to process demand.

A look inside the system



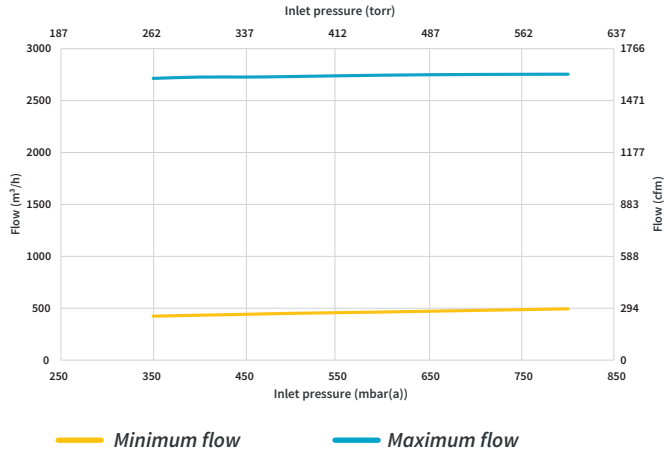
Applications

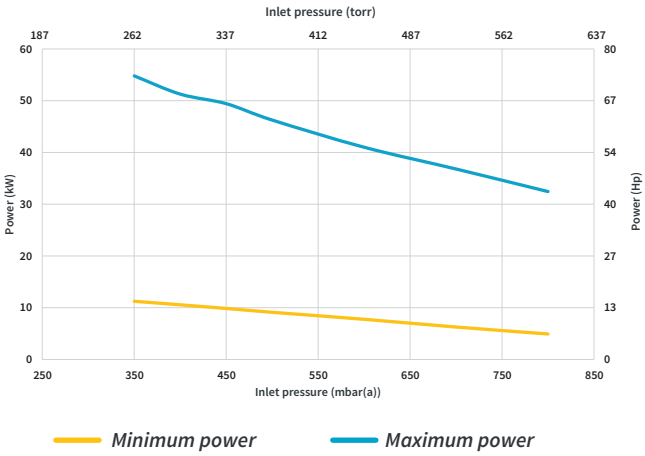
- Paper converting
- Tobacco
- Conveying (Plastic / Dust)
- Pick and place
- House vacuum

Technical specifications

	Units	DHS 3000 VSD+
Air inlet temperature	°C (F)	20 (68)
Cooling medium inlet air temperature	°C	20
Exhaust back pressure	bar (g)	0
Maximum air inlet temperature	°C	40
Maximum effective working pressure	mbar(a) (torr)	1000 (750)
Maximum ambient temperature	°C	40
Relative air humidity maximum	%	95
Maximum compressed air outlet temperature	°C	180
Ultimate pressure	mbar(a) (torr)	350 (262)
Maximum displacement	m^3/hr (cfm)	2760 (1624)
Maximum sound pressure level with tolerance	dB(A)	83
Drive motor installed power	kW (hp)	55 (74)
Canopy	L x W x H mm (inch)	2030 x 1250 x 1740 (80 x 49 x 69)
Weight net mass	kg (lbs)	1390 (3064)
Connection inlet & outlet	-	PN10 DN200 flange

Performance curves





Service solutions

Preventive Care

Complete service with our Preventive Care plan

Maximize lifetime of your vacuum pumps

Cost-effective approach

Reliability meets non-stop productivity

Atlas Copco AB

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