

Atlas Copco

**Dry technology.  
Made simple.**

**DSS 065**

**Dry Scroll vacuum pump**





## We believe in dry technologies

At Atlas Copco, customer focus is a key factor of our success. When we contribute to the productivity of our customers, it propels us forward and is the driving force in everything we do.

One of the hallmarks of customer-focused innovation is simplicity. A vacuum pump that offers lower lifecycle costs, higher productivity, less energy consumption, simple operation and control and also easy maintenance.

## DSS Scroll vacuum pump

The Atlas Copco DSS scroll vacuum pump is a noteworthy addition to Atlas Copco's formidable industrial dry pump range. With only one moving part and oscillating scroll design, the all-aluminum construction of the DSS scroll vacuum pump is robust, oil-free, highly efficient and low maintenance.

Ideal for vacuum generation across the rough vacuum range, it is a welcome fit to any production floor due to its simple and elegant design. It is a dry and durable pump for stable vacuum at low to medium flow rates working from atmospheric pressure to 1.5 mbar(a) / 1.13 Torr.

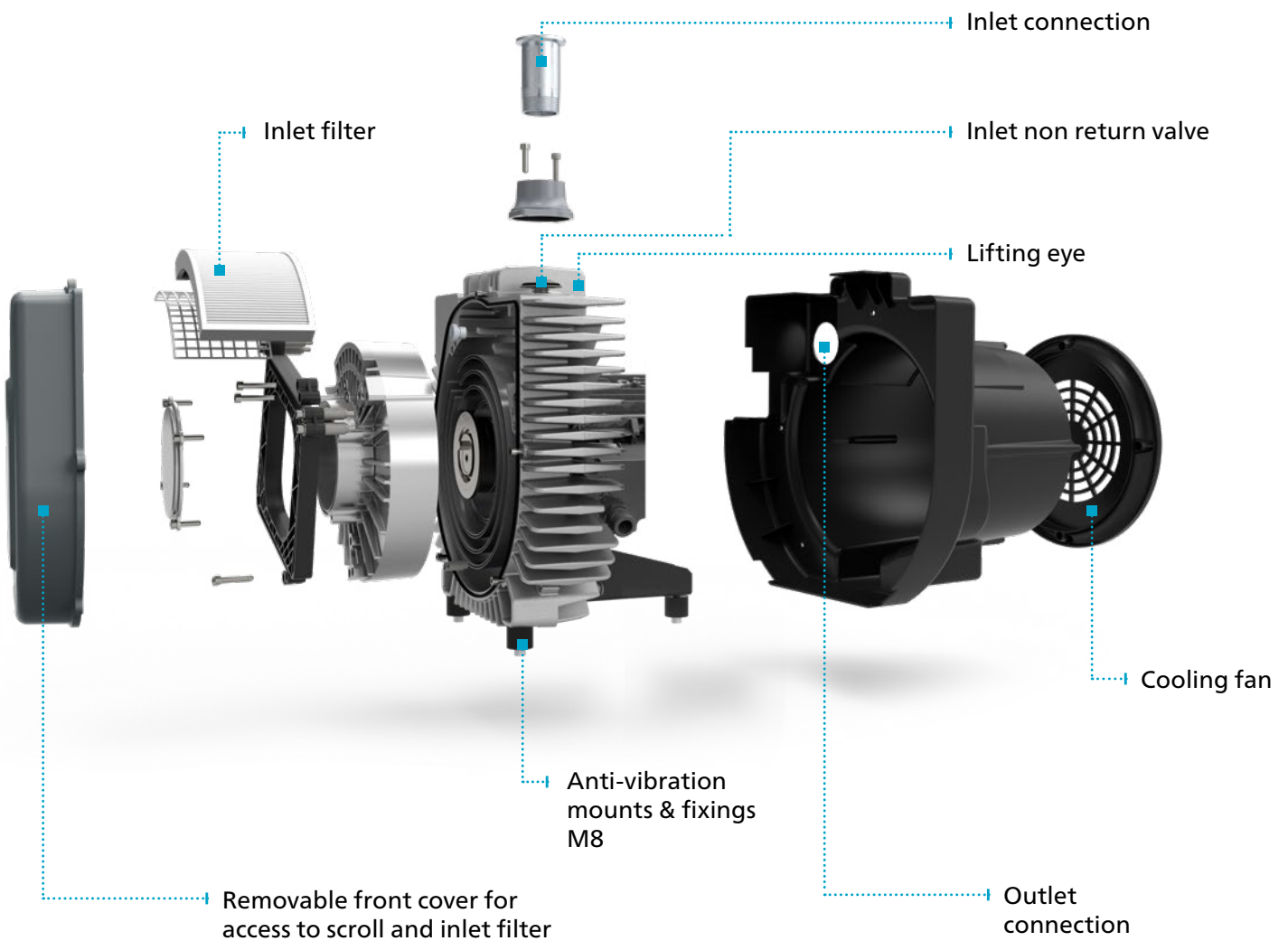
### The DSS is available in:

**DSS 065** - 65m<sup>3</sup>/hr (40cfm) pumping speed @ 50 Hz



# Design and internal mechanism

The mechanism of a scroll vacuum pump uses two interleaved spiral-shaped scrolls or spirals to pump gases. The design is simple, yet effective. One of the scrolls is fixed, while the other orbits without oscillating, thereby compressing pockets of gas between the scrolls. The Atlas Copco DSS scroll vacuum pump operates on the same principle. With only one moving part and manufactured with high quality materials, the pump is a low-maintenance machine with an extended lifetime.



# Features and benefits



## Clean

- Class 0 certified according to ISO 8573-1
- Dry and oil-free vacuum technology
- No oil required for sealing or cooling
- No touching parts, oil filters or exhaust filters



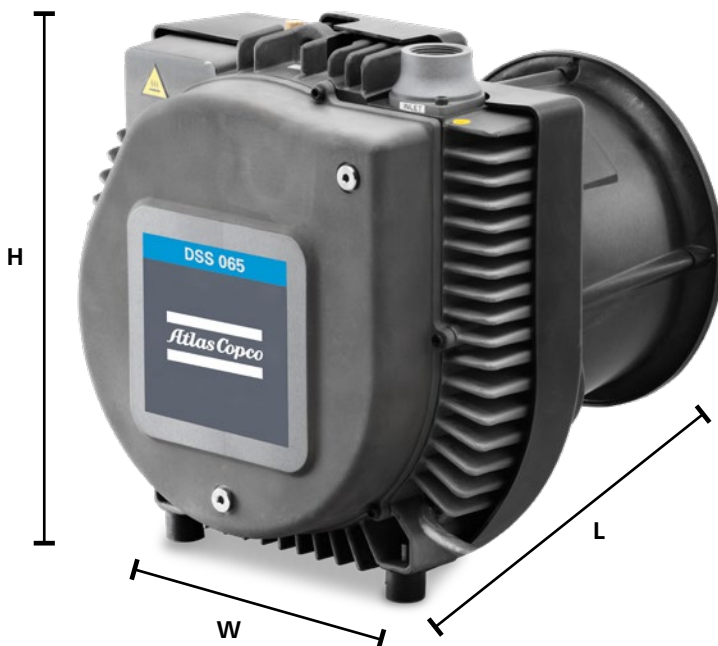
## Performance

- Complete controllability with the ability to be inverter driven
- Unique gas porting and gas ballast features
- Low service and maintenance costs



## Robust Design

- Simple, clean and modern design that is compact and rugged
- Removable front cover for access to scroll and inlet filter
- Inlet non-return valve



## Dimensions

Length	446 mm
Width	447 mm
Height	435 mm

# Applications

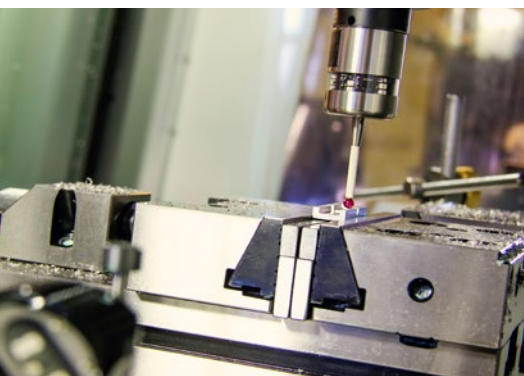
- Food packaging
- Thermoforming
- Food processing
- Food drying
- Medical systems
- Vacuum impregnation
- Central house vacuum
- Pick and place
- CNC clamping
- Laboratory vacuum



## Performance curves

### Speed curves (DSS 065)





## Technical specifications

DSS 065	
Max pumping speed (m <sup>3</sup> /h)	72 @ 50 Hz
Max pumping speed (ACFM)	42 @ 50 Hz
Ultimate vacuum level (mbar) / (Torr)	1.5 mbar(a) / 1.13 Torr
Nominal motor power (kW)	1.5
Nominal motor power (hp)	2
Inlet (Inch)	G 1 ¼"
Outlet (Inch)	G 1 ¼"



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