

# GHS OIL SEALED ROTARY SCREW VACUUM PUMPS

The GHS 350 VSD+, GHS 585 VSD+, GHS 730 VSD+ and GHS 900 VSD+ are a range of air cooled; oil sealed screw variable speed vacuum pumps. These pumps are the newest innovation on the market in terms of efficiency, environment, reliability and sustainability.



## Benefits

### High Efficiency Cuts Costs

The GHS VSD+ series of vacuum pumps consume around 50% less energy than alternative technologies. They are the most energy-efficient oil-lubricated vacuum pumps on the market in the capacity range where other technologies, such as oil vane technology, start to become mechanically inefficient (typically >175 ACFM) and expensive in terms of Capital Expenditure.

### Energy Savings

Variable speed drive and set-point control, not typical features of a vacuum pump, lead to significant energy savings. Set-point control allows optimizing the energy you use to maintain your process vacuum level and maximize efficiency and performance. The minimum flow will be delivered to match your required vacuum level or speed. Nothing is wasted! Additionally, a smart inlet valve provides modulating vacuum control in conjunction with the VSD to minimize energy consumption.

### Easy, Fast Installation Saves Time and Money

The GHS VSD+ Series has one of the smallest footprints on the market. The package is no larger than the footprint of a standard pallet. Everything you need is delivered in a single, neat enclosure. With the inlet, discharge and electrical connections all located on the top of the machine, this provides a simple Plug-and-play installation.



### Comfortable, Clean Working Environment

The GHS VSD+ Series offers one of the lowest noise levels among vacuum pumps available on the market today. The market-leading oil retention means that the quality of the discharge air is optimal. This contributes to employee well-being, as this air is often breathed in. Also, this helps avoid oil spills on the factory floor, which commonly occur with conventional oil-lubricated pumps. The result is a significantly cleaner working environment.

### Low Failure Rate and Low Costs

The GHS VSD+ Series is designed for easy and infrequent maintenance: no vanes, no vane chatter, and no vane wear. Mean Time Between Failure rates are extremely low and no water is needed.



### Stay Connected



A **SMARTLINK** is available to keep you effortlessly informed of pump performance and maintenance requirements. You can subscribe to the Service, Uptime or Energy version. Then the interventions are planned at the best time, abnormal parameters are detected early or you can benefit of energy monitoring.

### Long-Lasting Components

The oil lubricated screw adapted for vacuum use is highly efficient and has outstanding performance that you come to expect from Atlas Copco. The element life is significantly longer other vacuum technologies. The oil separator is designed for the most efficient oil coalescing with the lowest back pressure, which means less energy consumption. This coupled with the patented design that never allows the filter media to be overloaded, contributes to a long oil separator life.

### Optimal Flexibility

Unique water handling capability provides you with the versatility and flexibility you need. An electronically controlled gas ballast and temperature management allows optimal adaptation to your specific process. The humid version can handle 100% water vapor at pressures above 29" HgV. The gas ballast is automatically switched and pre and post purge cycles are provided and controlled within the package. A cleaning cycle can also be adopted during shut down periods.

[www.atlascopco.com/en-us/vacuum-solutions](http://www.atlascopco.com/en-us/vacuum-solutions) • Ph: (866) 546-3588 • [NACustomerCare@vt.atlascopco.com](mailto:NACustomerCare@vt.atlascopco.com)

### Hot-cool Zone Canopy

The GHS VSD+ Series features a canopy with a hot-cool design. It isolates all heat producing and temperature critical components (motor, oil separator, and element) from all other components. As cool running means higher reliability, this feature extends the lifetime of electronic components and leads to a longer Mean Time Between Failure. The cooling fan is a latest generation fan designed by Atlas Copco providing low noise and energy efficiency.

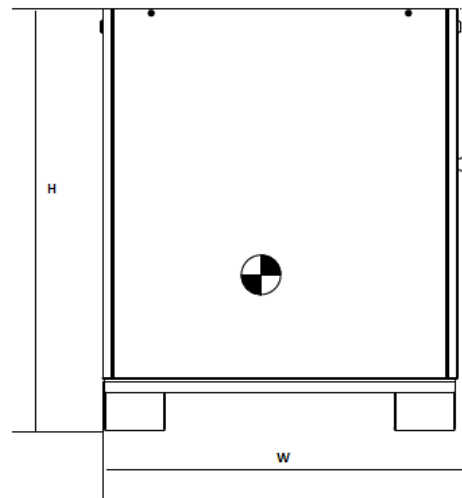
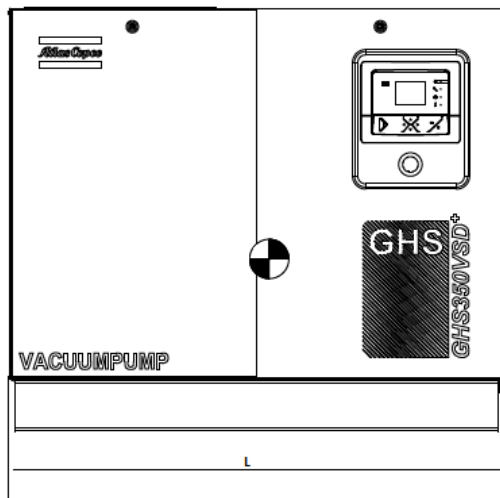
### Versions to Match Your Application

*Standard* – Ideal for general applications where you need to maintain a pressure set-point.

*Humid* – Suitable for high water content duties, for applications such as plastics, clay molding, drying pipelines, salad cooling, freeze drying etc. The unit provides tighter and higher temperature control through additional control logic.

### Specifications

|   | GHS 350VSD+                        | GHS 585VSD+                        | GHS 730VSD+                        | GHS 900VSD+                        |
|---|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Nominal Pumping Speed (ACFM/m <sup>3</sup> /hr) | 230/391                            | 330/561                            | 430/731                            | 510/867                            |
| Vacuum level ("Hg(V)/mbar(A))                   | 29.9/0.5                           | 29.9/0.5                           | 29.9/0.5                           | 29.9/0.5                           |
| Motor Power (HP/KW)                             | 7.5/5.5                            | 10/7.5                             | 15/11                              | 20/15                              |
| Ambient Temperature (°F/°C)                     | 32 to 115°F/ 0 to 46°C             | 32 to 115°F/ 0 to 46°C             | 32 to 115°F/ 0 to 46°C             | 32 to 115°F/ 0 to 46°C             |
| Inlet connection (in)                           | DN80/3" NPT                        | DN80/3" NPT                        | DN80/3" NPT                        | DN80/3" NPT                        |
| Weight (lb/kg)                                  | 1210/550                           | 1210/550                           | 1232/560                           | 1255/570                           |
| Dimensions (in/mm) L*W*H                        | 51" * 35" * 43'/ 1295 * 889 * 1092 | 51" * 35" * 43'/ 1295 * 889 * 1092 | 51" * 35" * 43'/ 1295 * 889 * 1092 | 51" * 35" * 43'/ 1295 * 889 * 1092 |
| Oil Capacity (Gal)                              | 4.2                                | 4.2                                | 4.2                                | 4.2                                |
| Noise Level dB(A)                               | 51-65                              | 51-68                              | 51-73                              | 51-76                              |



### Pumping Speed vs Pressure

