AshAir
Compressed Air & Vacuum

Screw Vacuum Pumps

QSV

VARIABLE SPEED DRIVE

5.5 - 37 kW

Quincy
COMPRESSOR
vacuum

The Quincy QSV Series Vacuum Pumps for All Applications

QSV Series – Industrial, variable speed, vacuum pumps:

- Power: 5.5 - 37kW
- Capacity: 483 - 1811m³/h
- Minimum inlet pressure: 0.35 mbar
- Steady, reliable system vacuum
- The whole package with electric control system

Typical QSV Applications

Holding, Lifting, and Moving Applications:

- Board testing
- Pneumatic conveying
- Printing and binding
- Envelope manufacture
- General packaging
- Woodworking

Forming and Shaping Applications:

- Plastics (e.g. bath tubs, shower trays)
- Packaging materials (e.g. thermoformed parts)
- Glass items
- Wood/lamination

Preserving Applications:

- Meat packaging (flat, vacuum packs, controlled atmosphere packaging)
- Poultry packaging
- Modified atmosphere packaging
- Canning
- Freeze drying

When a Clean Environment is Essential:

- Heat treatment, nitriding and metallurgy
- Altitude simulation
- Drying and general evacuation duties
- Surgical suction
- Laboratory systems

At Ash Air, it isn't just about the products. We're passionate about performance and service, with more than 40 qualified engineers working throughout the country providing unsurpassed compressed air solutions.

Broad product portfolio of robust compressors & tools

Decades of experience & innovation since 1979

24/7 service support with back up and hire equipment

"We are committed to being the easiest company to deal with in the air compressor and vacuum industry. Anywhere, Anytime. 24/7."

Energy Saving Solution

- 10,200 serviceable units
- 3.4 MWh potential yearly energy savings identified by leak detection
- 6015 kW combined power of VSD compressors installed
- 54.5 km AIRnet piping installed
- 6 MWh saved with AIRnet and VSD each year
- 4.2 MTon CO_2 emissions eliminated each year

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QSV Rotary Screw Vacuum Pumps

Quincy Compressor: Vacuum Technology for Tough Applications

Industrial vacuum applications require tough, efficient vacuum pumps that can withstand the strenuous pressures of these intense working environments.

There are many compelling reasons to consider using Quincy's QSV series rotary screw vacuum technology:

Reason #1 – Efficiency

Compare delivered m^3/h (cubic metre per hour) input horsepower to any other design and you will find that Quincy rotary screw vacuum pumps outperform all industry standards.

Reason #2 – Life Cycle

QSV vacuum products are designed with compressor duty bearings in a compressor service airend. This translates into extended product life and lower cost of ownership.

Reason #3 – Controls

Get the best energy savings available through our AirLogic® controller, Variable Speed Drive, and the dual function modulating valve. Total control and superior value.

Reason #4 – Packaging

These vacuum pump packages are supplied standard with full electricals, inlet filtration, base frame and controls. Connect to the system, plug it in and go.

Benefits of CVS (Centralised Vacuum System)

1

Energy savings

- Dedicated pumps are very often oversized for the demand (selected to match the faster cycling time)
- Energy savings in air conditioning (generally the efficiency of an air conditioning system is 3. That means that to remove for example 15kW of heat, you need a cooling system using 5kW of electricity)

2

Reducing the number of vacuum pumps

- Lower investment demand (selected to match the faster cycling time)
- Reduce maintenance costs
  - Save spares and consumables
  - Save time in maintenance

3

Easy maintenance

- Good accessibility
- Save time

QSV Rotary Screw Vacuum Pumps

Long-Lasting Components

The oil separator is designed for highly efficient oil coalescing with ultra low back pressure, which means less energy consumption. This contributes to a long oil separator life which is double that of a comparable oil-sealed vane vacuum pump. Another contribution to oil separator life is the patented design that prevents the filtration media to be overloaded, so they last much longer. This is great news for your maintenance budget.

High Efficiency Cuts Costs

These vacuum pumps consume approximately 50% less energy than alternative technologies. They are among the most energy-efficient oil-lubricated vacuum pumps on the market in the capacity range where some other technologies (e.g. oil sealed vane) start to become inefficient mechanically and cost wise and expensive in terms of Capital Expense.

Robust Canopy Features "Hot-Cool" Zones

The QSV Series features a canopy with a "hot-cool" design. It isolates all heat producing and temperature critical components (motor, oil separator, vacuum pump) 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 Before Maintenance (MTBM).

Optimal Flexibility

A unique water handling capability provides you with the versatility and flexibility you need to tackle humidity applications.

Vacuum Pump

- Highly efficient oil-sealed rotary screw
- Outstanding performance
- Robust design
- Pump life is significantly longer than screw compressors and vane pumps

Easy, Fast Installation Saves Time

- Space-saving – The QSV Series has one of the smallest footprints on the market: no larger than the footprint of a standard pallet
- Everything you need is delivered in a single, neat enclosure
- Plug-and-play installation

Airlogic® MONITORING SYSTEM

Airlogic® is a state-of-the-art monitoring system for your vacuum pumps. It is simple and comprehensive, and leads to energy savings. It can also integrate your plant management system thanks to a remote monitoring option.

Easy to Use

- 3.5-inch high-definition color display with clear pictograms, 32 language settings
- Additional LED indicator for service
- Graphical display of key parameters (day, week, month)

Comprehensive

You get all the information for the everyday management of your vacuum pump, as well as the alarms, safety shutdowns and maintenance:

- Monitoring: Vacuum pump operating status, recording of running/stopped hours, programmable timers, temperature/pressure read-outs, set point control and other settings.
- Safety: Warning indications, fault and shutdown indications.
- Service: Service operations, remote control (optional).

Plant Management System

Airlogic® installed on different vacuum pumps can be monitored in cascade. Remote monitoring can be added as an option (Modbus and Profibus protocols).

Optional Intelligent Monitoring System

Airlogic® is a flexible solution for data monitoring. It's easy to install and customize and user-friendly. Central vacuum systems and individual machines are connected to your engineering team. SmartLink brings system relevant data to your mobile phone, smartphone and PC.

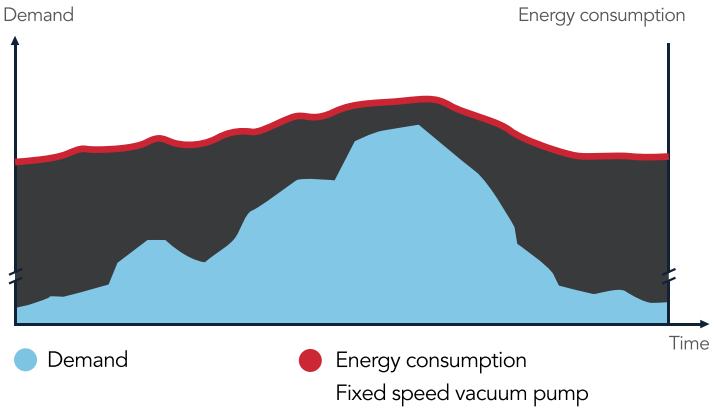
Whenever you have access to the Internet, it is possible to display the information you need; from machine alarms and faults to visualized representations of demand and load for your complete site vacuum installations. This allows you to respond quickly to changing circumstances. Service calls can be efficiently planned and production losses minimized. SmartLink is flexible and delivers as much or as little info as you choose.

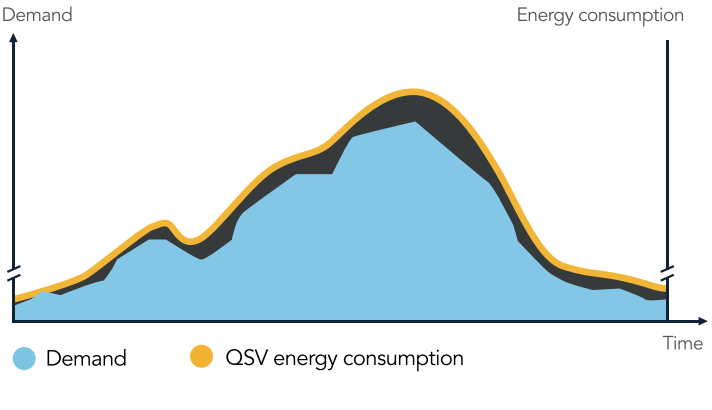
Features (ICONS - Intelligent Connectivity System)

- Logging + download service data for the last 30 days (Excel, Word, PDF)
- Requirement of machine-related services (service spare parts) directly via web portal
- SMS/email notification (service, failures and warnings)
- Online trend graph showing: status display

QSV for 50% Average Energy Savings

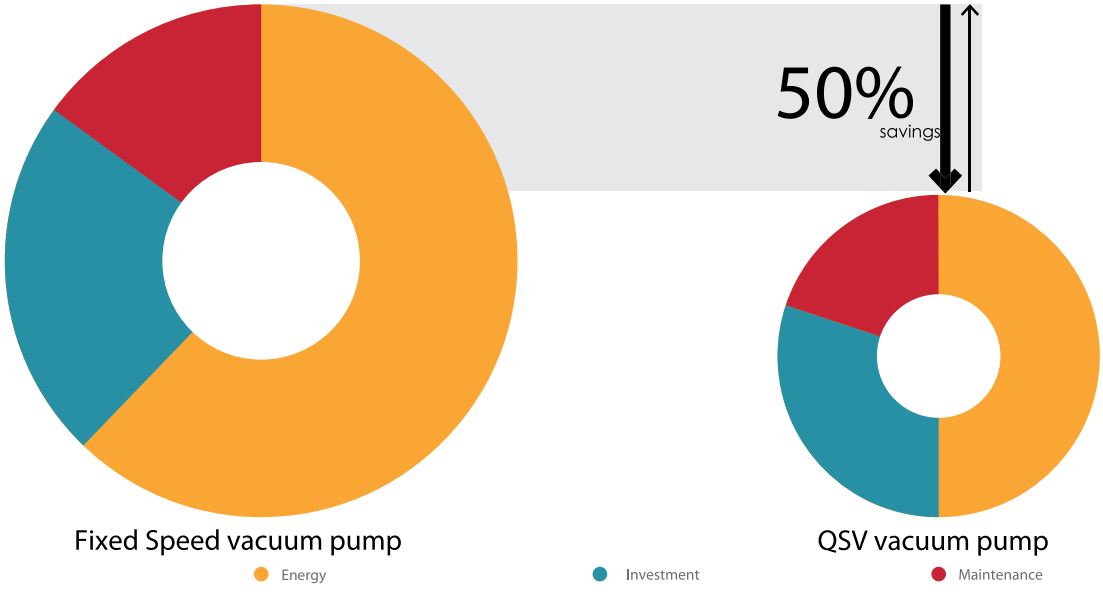
In almost every production environment, the need for vacuum fluctuates depending on different factors such as the time of day, week or even month. Extensive measurements and studies of demand profiles show that there are many substantial variants with regards to the demand.





Why Quincy Variable Speed Drive Technology?

- On average 50% energy savings with an extensive flow range (20-100%)
- Graphic controller controls the motor speed and high-efficiency frequency efficiency frequency inverter
- Eliminates peak current penalty during start-up of stop-start machines
- EMC Compliance to directives (2004/108/EG)



** Based on measurement performed with the Vbox energy audit tool.*

Standard

This machine focuses on delivering the exact performance you demand, at the minimum possible lifecycle cost. Ideal for applications where you need to maintain set vacuum level (a set point).

Humid

Suitable for high water content duties, for applications such as plastics, clay molding, drying pipelines, salad cooling, freeze drying etc.

This fast evacuation version enables faster cycle times – meaning more production. It's ideal for meat, cheese and chicken packaging, as well as cooling, freeze drying and general vessel evacuation applications.

Boost version for fast cycling machines are available in 205-430 and 750-930 sizes and come with upgraded motors.

QSV 205-1100 Technical Data

Model	Power (kW)	Nominal Capacity (m^3/h)	Ultimate vacuum (mbar)	Fluid Capacity (L)	Noise (dBA)	Permissable Ambient Temperature Range °C	Inlet	Outlet Connection Size	Dimensions			Weight (kg)	Boost Option
									Length (mm)	Width (mm)	Height (mm)		
QSV-205	5.5	483	0.5	16	51-65	0-46	DN80	DN60	1266	934	1083	500	Y
QSV-345	7.5	607	0.5	16	51-68	0-46	DN80	DN60	1266	934	1083	500	Y
QSV-430	10	784	0.5	16	51-73	0-46	DN80	DN60	1266	934	1083	510	Y
QSV-530	15	877	0.5	16	51-76	0-46	DN80	DN60	1266	934	1083	520	N
QSV-750	22	1341	0.35	40	65-75	0-46	DN150	DN100	1420	1590	1470	1058	Y
QSV-750 BOOST QSV-930	30	1615	0.35	40	65-79	0-46	DN150	DN100	1420	1590	1470	1058	Y
QSV-930 BOOST QSV-1100	37	1811	0.35	40	65-80	0-46	DN150	DN100	1420	1590	1470	1073	N

ISO21360-2:2012
Multiple pump controllers and other essential vacuum accessories are available as options or accessories.
Electrical/canopy specification: 380/460V 50/60Hz IP54 canopy CSA/UL.
220V/575V are available on request.
Available fluids include Synthetic and food grade.

Quincy Compressor is your headquarters for high-quality, reliable vacuum pump units that are the product of nearly 100 years of unrivaled industry expertise. Quincy vacuum pumps are used by companies across the United States and around the world due to their uncompromising reliability and unbeatable performance.

They're also backed by superior 24-hour service and support from our extensive worldwide distributor network. There are various Quincy vacuum pump models to choose from, ensuring you'll be able to find the right one for your applications.

Quincy COMPRESSOR vacuum


Piston Compressors


Screw Compressors


Nitrogen & Dryers


Portable Compressors & Generators


Air Tools


Vacuum Pumps

Ash Air: Compressed Air Solutions Specialists

The team at Ash Air is passionate about the performance of their products and services, with more than 40 qualified engineers working throughout the country providing unsurpassed compressed air solutions. We look after New Zealand's air compressors and vacuum pumps, from the smallest to largest companies. 9,500+ businesses have trust us to set-up, upgrade, and look after their compressed air systems.

We are available 24/7 when and where you need us, with 13 strategically located service centres in New Zealand, so you'll never be caught without the back up you need.