

QSVI Rotary Screw
Vacuum Pumps



QSVI Rotary Screw Vacuum Pumps

Quincy Vacuum Series | Rotary Screw Vacuum Pumps | 25-200 HP



Quality Comes in All Shapes and Sizes— But Just One Color.

Optional Equipment

- Power Failure Restart Module
- Auto Dual Control
- 200, 230 or 575 Volt Operation
- 50 Hz, 380 Volt Service
- NEMA 4 Control Panel
- TEFC Motors
- Premium Efficiency Motors
- Sound Enclosures
- Remote Coolers
- Remote Filtration Packages
- Standard Vacuum Accessories
- Customized Packages

QSVI Standard Equipment

- Positive Flow Lubrication/Seal Liquid Pump
- UL Listed Control Panel
- Modulating Inlet Valve
- Magnetic Motor Starter
- Full Flow, 12 Micron Filter and Strainer
- NEMA Motor, 3-Phase, 460 Volt
- Temperature Regulating Valve
- Air-Cooled or Water-Cooled
- Fluid Level Sight Glass
- Separator Pressure Indicator
- Quin-Syn Lubricant
- Temperature, Vacuum and % Capacity Guages
- Filter Element Indicators
- High Temperature Shutdown System

Accessories

Quincy supplies many of the accessories that are used to complement a QSVI vacuum pump installation including:

- Inlet Filtration Packages
- Vacuum Receivers
- Check Valves and Ball Valves
- Oil Mist Exhaust Filters
- Vacuum Gauges
- Centrifugal Separators
- Multiple Vacuum Pump Controllers

Typical QSVI Applications

Medical/Dental: Hospital Central Systems, Surgical Suction, Laboratory Central Systems.

Printing and Paper: Book Binding, Newspaper, Magazines, Printing and Labeling Systems, Degassing Adhesives.

Woodworking: CNC Cutting and Routing, Loading/Unloading Systems.

Rubber and Plastics: PVC Pipe Manufacture, Plastic Thermoforming, Extruders, Mold Degassing, Material Handling.

Food Processing: Poultry Processing, Coffee, Packaging, Cheese Processing, Vacuum Cooling of Produce.

Meat Packing: Vacuum Packing of Fresh Meat, Filling and Sealing Machinery.

R&D Systems: Central Laboratory Vacuum, Vacuum Drying and Distillation Systems.

Electronics: Conveying, Picking and Placing Components, Circuit Board Manufacture, Central Vacuum Systems.

Pharmaceutical: Degassing of Pastes and Powders, Vacuum Filling, Suction Filtering.

Material Handling: Automatic Test Equipment, Material Pick and Place, Bulk Material Transfer, Vacuum Conveying.

Quincy QSVI Series

Quincy Compressor: The Leader In Industrial Vacuum Technology

- Pioneers of rotary screw vacuum technology
- Developed the modulating vacuum inlet valve
- Introduced the era of efficient, long-life vacuum pumps for industrial applications

No Other Vacuum Technology Can Compare

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 QSVI series rotary screw vacuum technology:

REASON #1 – EFFICIENCY. Compare delivered ACFM per input horsepower to any other design and you will find that Quincy rotary screw vacuum pumps outperform all industry standards.

REASON #2 – LIFE CYCLE. QSVI 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. The modulating inlet valve provides a dual function. One, to protect site vacuum level, and two, energy savings. Both these functions translate into dollar savings.

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.

The Winning Combination

No other technology offers all these advantages in one package and no other technology is supported with as strong a service and support network. As a vacuum pump user, you benefit from the combination of powerful features and unparalleled support.

The Quincy QSVI Series Vacuum Pumps – 25 to 200 HP

Versatility

- Delivered Capacity: 365 ACFM to 3,000 ACFM
- Full Capacity From Atmospheric Pressure to Maximum Vacuum
- Attainable Base Vacuum Level of 29.9" HgV (0.5 torr)
- 400,000 Hour Airend Design Life
- Operational Savings on Water Consumption

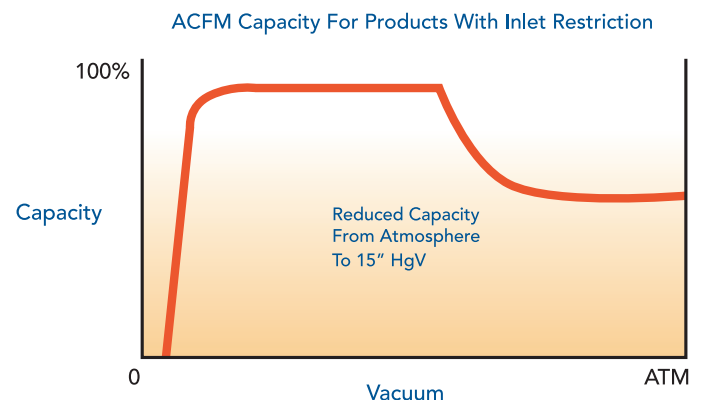
No Restrictions On Inlet Volume For Pumpdown

Special airend porting on QSVI products allows for full delivered capacity from atmospheric pressure to full vacuum. This means better protection for your system from sudden demand events.

Competitive models utilize inlet restrictions that decrease the available capacity during system pumpdown. If system vacuum suddenly falls, other vacuum pumps have to protect themselves from over powering the drive motor. QSVI products protect your system by maintaining full flow at any vacuum level.

No Seal Water Requirements

QSVI products all come standard as air-cooled machines and utilize no seal-water flow for normal operation. This means that you save money on water consumption and sewer charges. Note that there are additional savings on cooling tower operation if tower water is used.



QSVI Series: 25 HP to 200 HP

- Leader In Energy Savings
- 365 ACFM to 3,000 ACFM
- Direct Drive, Air-Cooled
- Completely Packaged System

Large Vacuum Capacity for Large Applications

All Quincy direct drive vacuum pumps are designed to deliver enough volumetric capacity to meet the biggest applications. These vacuum pumps are the flagships of the Quincy vacuum product. Each vacuum pump is a stand-alone system that automatically adjusts delivered flow with the required demand capacity.

Continuous Operation

Every Quincy QSVI series pump is designed to run continuously over the course of its lifetime. Vacuum airends are designed with the same tapered roller bearings as heavy-duty compressor airends making long service life a natural outcome. If applications require load/no load operation or on/off controls, the QSVI can be modified to accommodate those systems.

Efficient Separation System

All Quincy vacuum pumps utilize a high-tech sealant/lubricant to seal the compression chambers within the vacuum airend, to lubricate mechanical bearings and to provide cooling and heat rejection. Discharge air that has been entrained with lubricant passes through a multi-stage separation system to clean the air discharge from each vacuum pump. The ratio of media surface area to volume flow is the highest in the industry.

Heavy Duty Inlet Filtration

In any given application, byproducts from the process will eventually make their way to the vacuum pump. All QSVI products are supplied with a heavy-duty inlet filtration system to separate particulate contamination prior to the inlet of the vacuum pump. All inlet filter elements are designed for easy cleaning or changing when servicing is required. Five micron element ratings are standard on all QSVI products.



Quincy Helps You Do More. For Less.

When you purchase a Quincy vacuum pump, you're investing in proven, long-term performance. As our customer, you'll appreciate the minimized downtime, reduced maintenance costs and energy efficient operation of the industry's low cost of ownership leader. Plus, we back it all with a rock-solid warranty.

For more information on the QSVI Series or other vacuum pump solutions, contact your Quincy representative or visit us online at QuincyCompressor.com.



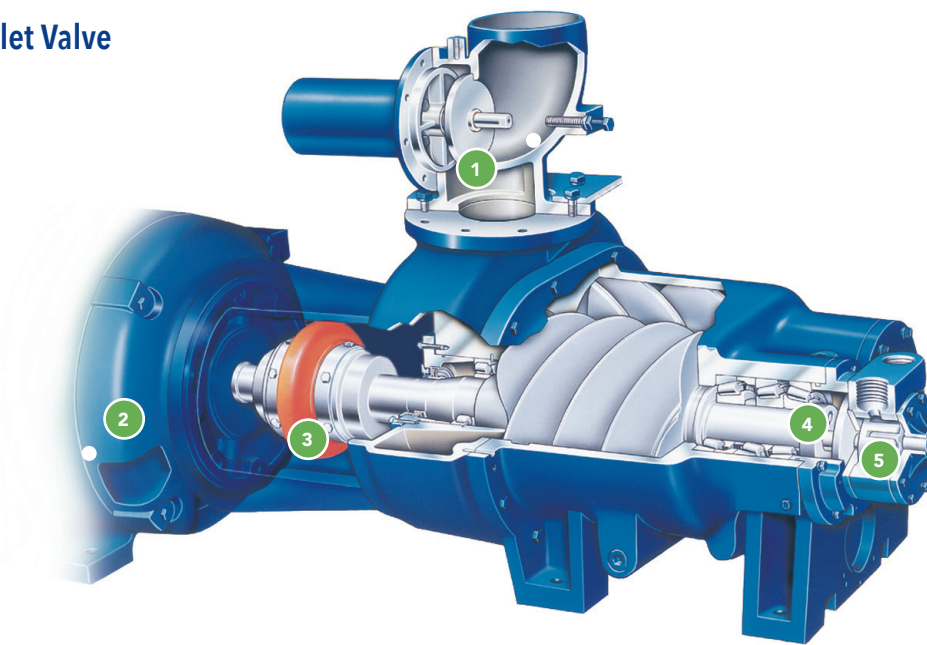
QSVI Series: 25 HP to 200 HP

Vacuum Technician Specifications

QSVI Series - Rotary Screw Vacuum Pumps

Model	QSVI-25	QSVI-40	QSVI-50	QSVI-75	QSVI-100	QSVI-200
Nominal Capacity ACFM	365	550	730	980	1500	3000
Horsepower	25	40	50	75	100	200
Base Vac Level HgV (Torr)	29.9 (0.5)					
Inlet Connection	4	5			8	
Dimensions inches (mm)	78x48x59 (1980x1220x1500)			96x56x73 (2440x1420x1850)	108x60x85 (2740x1525x2160)	120x76x96 (3050x1930x2440)
Weight lbs (kg)	2360 (1075)	2434 (1100)	2434 (110)	3975 (1800)	6300 (2865)	8100 (3685)

Modulating Inlet Valve

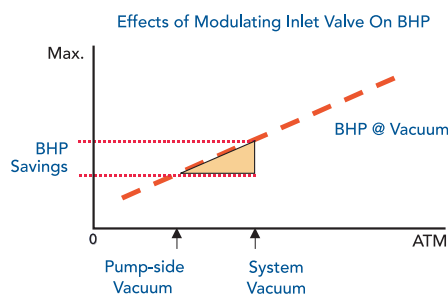


Modulating Inlet Valve

All QSVI vacuum pumps are supplied with modulating inlet valves as standard. A modulating inlet valve allows for precise process control by keeping the supply vacuum level constantly within tolerance. This means that you do not need any additional vacuum level control.

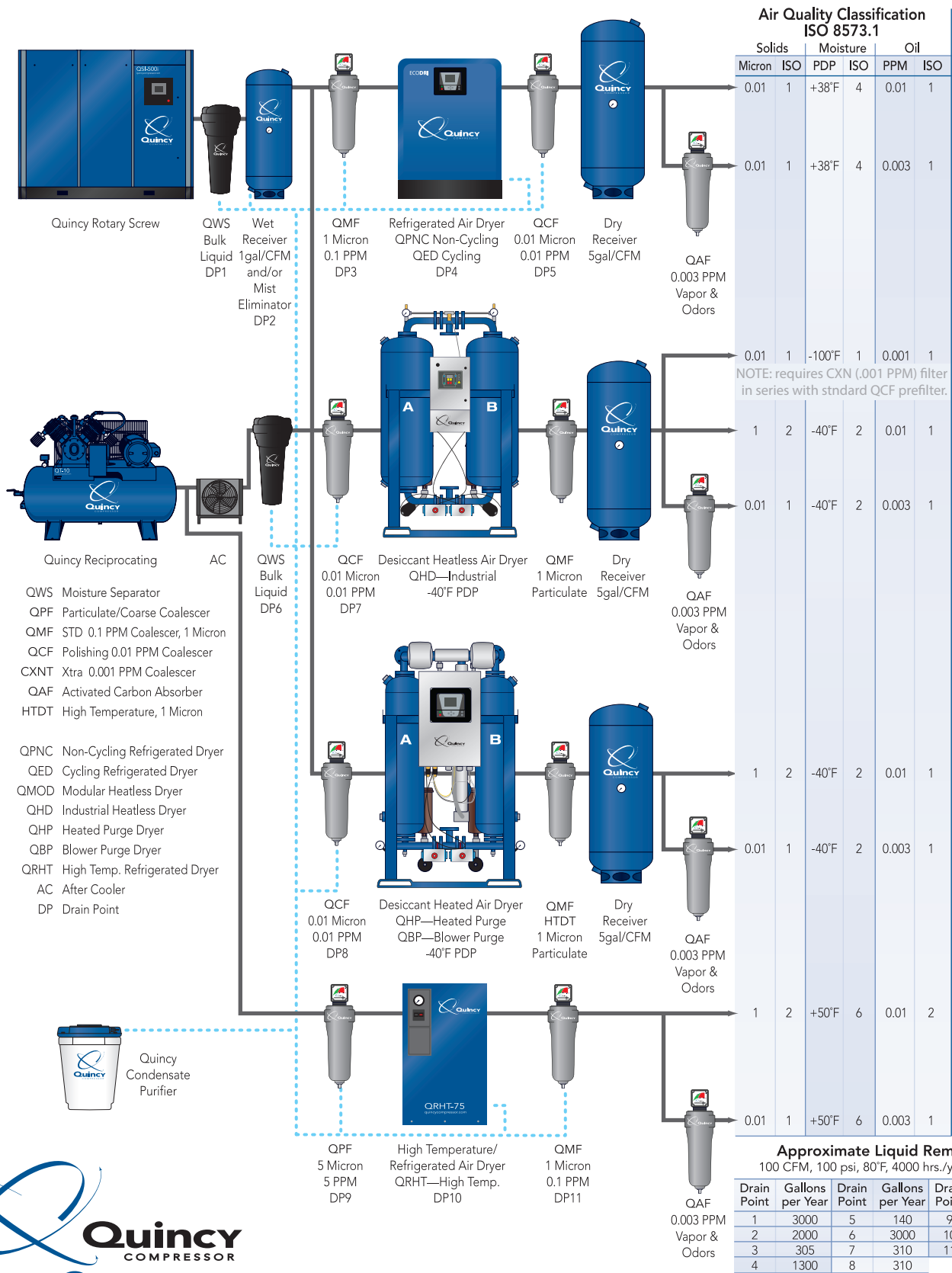
An additional benefit to the modulating inlet valve is energy savings. As demand decreases, the modulating inlet valve closes and pump-side vacuum level increases. As pump-side vacuum increases, motor brake horsepower decreases allowing for energy savings. This control system works far better than using a vacuum breaker or allowing the system vacuum level to increase without control.

The modulating inlet valve is completely field adjustable so you can easily change your vacuum level with changing system or application demands. If an application requires no control at all, the inlet valve controls can be set to allow for maximum vacuum level.



- 1 Modulating inlet valve maintains consistent vacuum
- 2 Heavy-duty, direct-drive motor for long, efficient life
- 3 Flexible coupling for less vibration and easy maintenance
- 4 Triplex bearings extend pump life to 5-8 times greater than other vacuum pumps
- 5 Positive displacement oil pump ensures excellent lubrication at all vacuum levels

Compressed Air Systems Best Practice



Air Quality Classification ISO 8573.1

Micron	Solids		Moisture		Oil	
	Micron	ISO	PDP	ISO	PPM	ISO
0.01	1		+38°F	4	0.01	1
0.01	1		+38°F	4	0.003	1
0.01	1		-100°F	1	0.001	1
1	2		-40°F	2	0.01	1
0.01	1		-40°F	2	0.003	1
1	2		-40°F	2	0.01	1
0.01	1		-40°F	2	0.003	1
1	2		+50°F	6	0.01	2
0.01	1		+50°F	6	0.003	1

Approximate Liquid Removal

100 CFM, 100 psi, 80°F, 4000 hrs./yr., 2 PPM

Drain Point	Gallons per Year	Drain Point	Gallons per Year	Drain Point	Gallons per Year
1	3000	5	140	9	300
2	2000	6	3000	10	4320
3	305	7	310	11	120
4	1300	8	310		



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