

QSI 250-350 HP



# Quincy QSI

Quincy QSI 1175 - 1500 | Rotary Screw Air Compressors  
250 - 350 Horsepower

# Quincy QSI 250-350 HP



**1 Trouble-Free Operation**  
Heavy-duty intake filter for quiet, trouble-free operation.

**2 Reliability**  
Generously sized coolers ensure reliable operation in ambient temperatures as high as 115°F/46°C with aftercooler approach as low as 3°F/16°C.

**3 Easy Flow**  
Axial flow inlet housing.

**4 Maximum Efficiency**  
Rugged QSI airend with triplex bearings for maximum efficiency and operating life.

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

## Quincy Has the Compressed Air Solution for Your Application.

Since 1920, Quincy's trademark blue compressors have been hard at work building our company's reputation for quality and performance in the world's most demanding applications and harshest environments.

## We're Still Making History.

Today, you'll find that same leadership in Quincy's next-generation compressed air solutions that feature everything from smart controls to green technologies. We know that your company is counting on our reputation, that's why every Quincy product is designed, constructed and proven to deliver exceptional customer value before it is worthy of wearing the Quincy name.

## Our Promise to You.

As a customer, you can always count on Quincy for a low cost of ownership through stable air pressure, easy maintenance and longer equipment life. And we back it all with one of the strongest warranties in the industry. No shortcuts and no substitutions— that's the quality of Quincy.

## Unparalleled Performance

The Quincy QSI® rotary screw compressor combines around-the-clock dependability with one of the most efficient, positive displacement airends available. Oversized rotors, low RPMs,

and the Power\$ync® advanced controller ensures maximum air production using minimum horsepower, which means bottom-line productivity.

Backed by a ten-year airend warranty, the Quincy QSI features an exclusive Triplex bearing arrangement, a triple lip shaft seal, and boasts an airend life of more than 130,000 hours. This is the standard of True Blue Reliability that perpetuates the value of Quincy.

The Quincy QSI airend is the result of over 30 years of proven performance and machining expertise. Starting with a state-of-the-art rotor profile, each rotor is measured using a polar coordinate measuring machine with an allotted tolerance of 0.0005 of an inch. Beyond a highly efficient rotor profile and unparalleled precision manufacturing standards, Quincy rotors are oversized – almost 62% larger than most competitors. The Quincy QSI is designed to turn these oversized rotors at a slow 1,800 rpm. This means long compressor life and increased efficiency. Every Quincy QSI features a direct coupling drive and C-faced motors with a flanged connection to the airend on models through the Quincy QSI 1000. This flanged drive system ensures a permanent alignment and a simple drive system.

An oversized, heavy-duty inlet filter and oversized fluid and aftercoolers are standard on the Quincy QSI. With these and other standard features designed to work in harsh operating conditions, the Quincy QSI is truly one of the most reliable compressors available.



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All normal maintenance items are conveniently located at one end of the machine for easy serviceability. Quincy uses a 12-micron absolute fluid filter with a special micro-fiberglass media to provide the best protection for the airend and bearings. The QSI line of compressors uses aftercoolers capable of a 3-10 degree approach at standard conditions. This means more moisture is removed by the aftercooler, improving dryer efficiency and air quality.

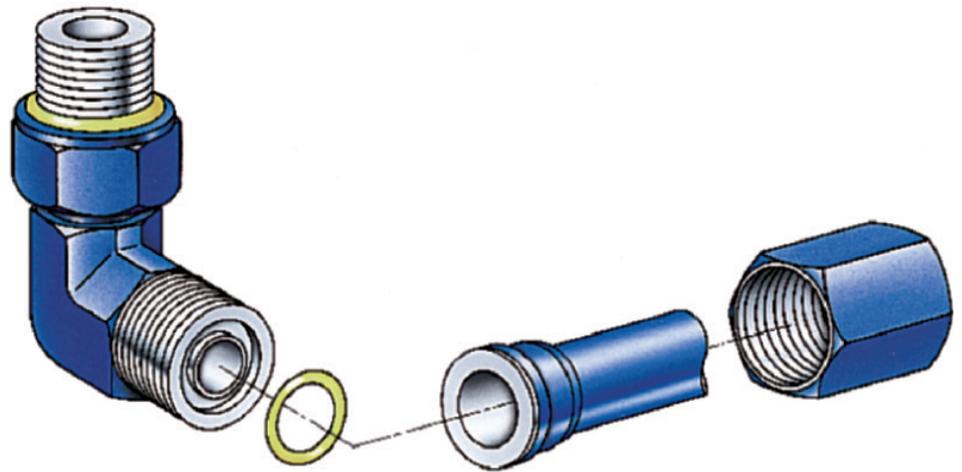
Quincy's air/fluid separator design and engineered fluids combine to produce fluid make-up rates of less than 3 ppm and downstream carryover rates of 1 ppm or less. The unit uses a rugged canopy with a powder coated finish which reduces sound levels as low as 73dBA. The QSI has two control options that make the unit easy to operate.

## SAE O-Ring Fittings

We've designed the Quincy QSI® with far fewer potential leak points than other compressors in its class. One such feature is the use of castings in place of discharge piping. Another is the use of SAE o-ring fittings on all fluid pipe joints over 1/4" in diameter. These connections are superior to standard pipe fittings, and are used extensively for trouble-free installation and operation in the hydraulic and fluid power industries.



Quincy Compressor proudly builds each one of its flagship QSI product lines at its factory headquartered in Bay Minette, Alabama. As a American-based air compressor manufacturer, Quincy makes high quality equipment assembled by a 200+ workforce right here on the Gulf Coast. With nearly a century of experience, you can count on Quincy to deliver performance, reliability and top-notch after-the-sale-support through an extensive distribution and direct store network.



## Royal Blue Warranty

When it comes to reliability, everyone is making the same promise. But when it comes to keeping the promise, Quincy Compressor stands alone with our exclusive ten-year airend warranty that covers both parts and labor. Reliability is about confidence, performance, and trust – every day. Our warranty program is how we're keeping our promise of True Blue Reliability for the next ten years.\*



\* Applicable to machines 150 PSIG and below

## Standard Features

- Triplex discharge end bearings
- Full-flow fluid pump
- Axial flow inlet housing
- 460 or 575 volt, 3-phase, 60hz, 1800 rpm motor
- Wye-Delta magnetic starter, mounted and wired, 460 volt
- Flexible dropout coupling with OSHA guard
- Heavy-duty structural steel base
- Two-stage air/fluid separation
- Full-flow, 12-micron fluid filter
- Heavy-duty intake filter
- Q-Control microprocessor
- Factory fill – QuinSyn family of synthetic fluids
- 5-degree approach aftercooler with pre-piped moisture separator and trap
- Package discharge check valve

## Safety Devices

- UL listed electrical controls
- High pressure unload switch
- High pressure relief valve
- Dual probe, high air/fluid temperature shutdown system
- Control line filtration with auto drain
- Power-on light
- Emergency stop button
- Safety oil fill cap

## Optional Equipment

- Full metal canopy
- Low sound canopy
- TEFC motors\*
- Solid-state reduced voltage starter
- Salt water coolers
- Lifting bails
- Phase monitor
- Auto-dual control with modulation
- Load/no load control
- PowerSync variable displacement airend
- Remote coolers
- Systems package
- Customized configurations

\*Note: If a specific motor efficiency is required, please consult the factory.

## Quincy Helps You Do More. For Less.

When you purchase a Quincy compressor, 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 Quincy QSI's or other air compression solutions, contact your Quincy representative or visit us online at [QuincyCompressor.com](http://QuincyCompressor.com).

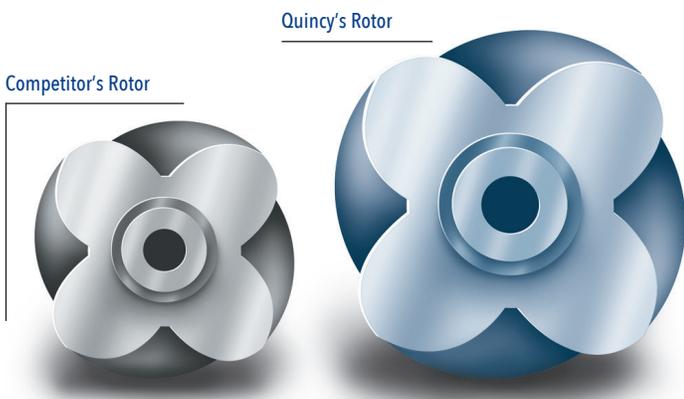


# Quincy QSI 250-350 HP

## Legendary Airend Durability & Reliability

Rotor diameter, length, and speed determine the ACFM that can be produced. Logically, this means that a smaller airend with smaller rotors must turn faster than a larger airend with larger rotors to produce the same ACFM.

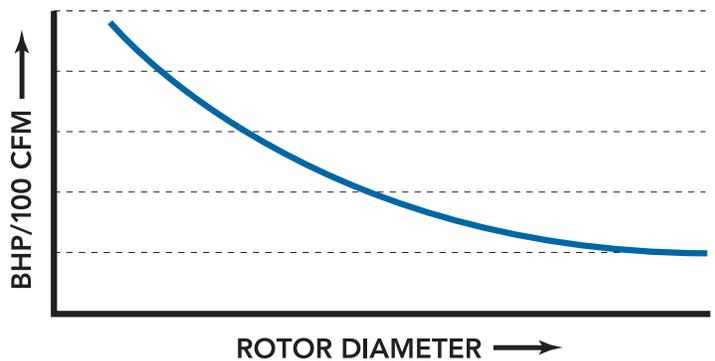
Larger rotors turning slower produce more ACFM per brake horsepower. The clearance between rotors is known as the "leakage path." Smaller rotors have a much greater "leakage path" than larger rotors. In addition, the faster the rotors are turning, the greater the drag coefficient. Combined with gear or belt friction, these smaller airend inefficiencies add up to increased power consumption.



Quincy's rotors are 62% larger and ensure more ACFM per brake horse power and reduce power consumption.

The airend is the most expensive component of your compressor to replace and it determines a majority of your operating costs. The bottom-line - the Quincy QSI oversized airend can save you thousands of dollars in maintenance and energy costs.

## Larger Rotor / Greater Efficiency



As rotor diameter size increases, brake horsepower per 100 ACFM requirements generally decline.



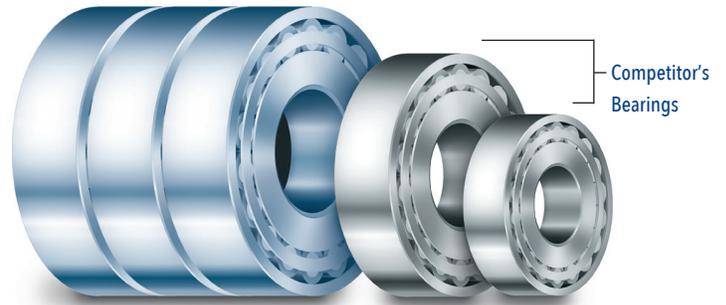
Manufactured in Bay Minette, Alabama  
Performance You Demand.  
Reliability You Trust.

## Engineered Superiority

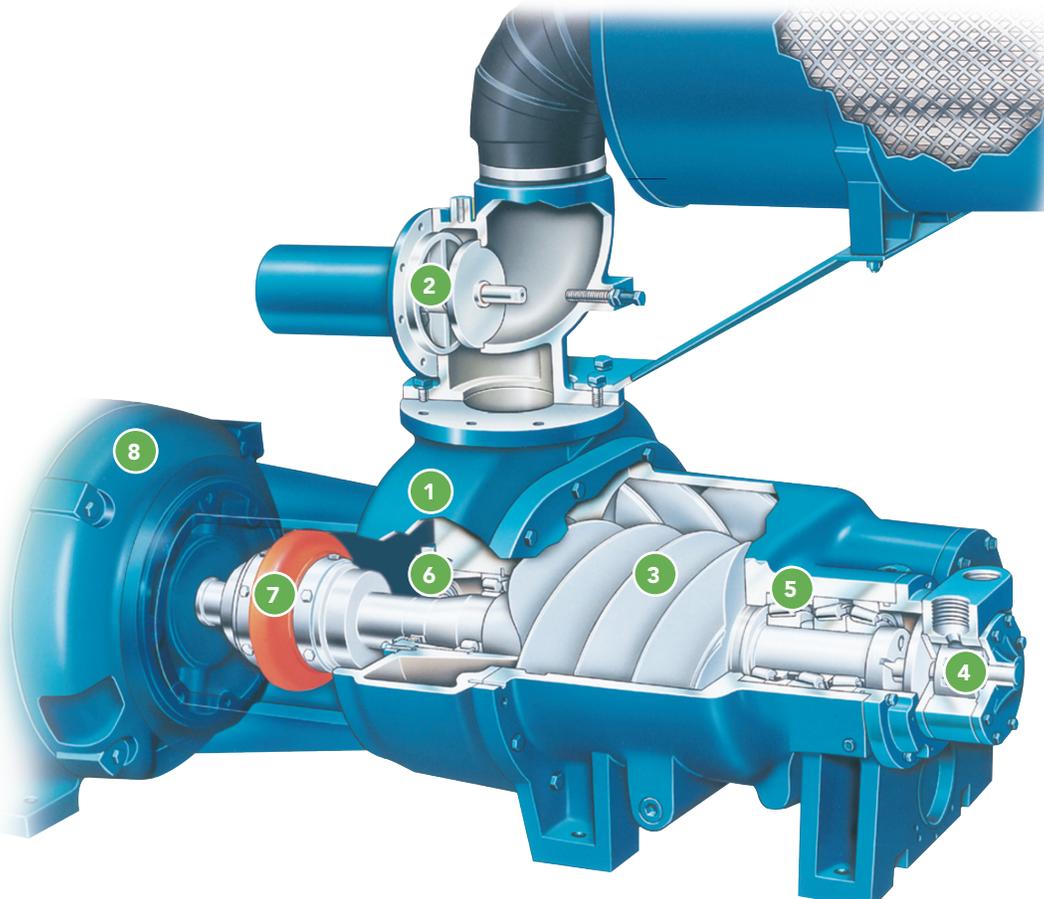
As you might expect, Quincy's oversized rotors allow for oversized bearings – over 56% larger than most competitors. But more importantly, the Quincy QSI features an exclusive Triplex bearing arrangement. This superior “three bearing” arrangement is designed to deliver over 130,000 hours of operation, which exceeds the average life expectancy of competing compressors.

In addition, the Quincy QSI uses a positive displacement gear-type fluid pump to lubricate both the rotors and the bearings. This pump is driven by the rotor shaft, so as soon as the compressor starts, lubrication begins instantly. During unloaded operation, the pump works with the positive closure inlet valve allowing reservoir pressure to be relieved, reducing unloaded brake horsepower to as low as 13.5% of full load.

Quincy Triplex Bearings



Quincy's Triplex bearings are over 56% larger than most competitors, delivering over 130,000 hours of operation.



- 1 Easier Flow**  
Axial Flow Inlet.
- 2 Air-Tight Valve**  
Positive Closure Inlet Valve.
- 3 Efficient Design**  
High-efficiency, Large Rotor Design.
- 4 Maximum Use**  
Gear Type Fluid Pump.
- 5 Steel Bearings**  
Triplex Bearings.
- 6 Maximum Durability**  
Triple Lip Shaft Seal with Scavenge Back to Airend.
- 7 Flexible**  
Flexible Dropout Coupling.
- 8 Quincy Built**  
Standard NEMA Frame Motor.

# Quincy QSI 250-350 HP

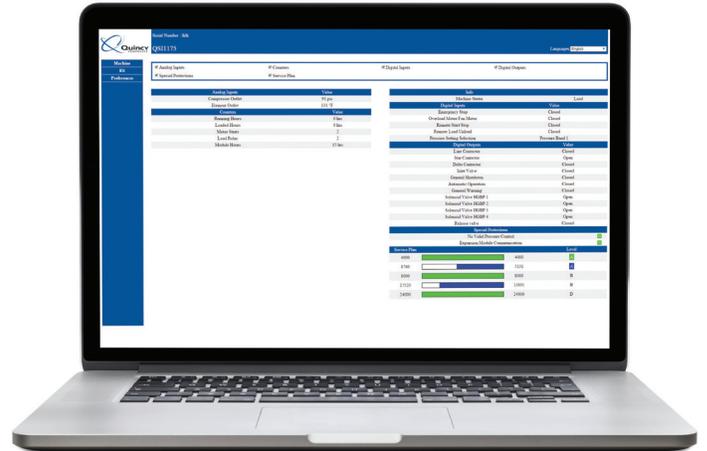
## Q-Control Advanced Monitoring, Controls and Networking Capability

The Q-Control combines the latest controller technology with Quincy's cutting edge and market leading compressor controller software. The resulting package provides a broad range of customer benefits, including improvements on user interface; overall reliability and uptime as well as energy reductions through improved control algorithms. Optimizing and staying connected to the compressed air system has never been easier due to the new on-board tools which include networking, basic remote monitoring and cellular connectivity services.



## Q-Control Online Visualization

Monitor your compressors with the new Q-Control over your local area network (LAN). Monitoring features include warning indications, compressor shutdown and maintenance scheduling, all possible with the free online compressor status visualization.



## Built-In Intelligence

- Full-color 5.7" display
- Networking up to 6 compressors\*
- Online visualization via Ethernet connection
- Real-time trending on controller screen
- Day/week organizer
- Dual pressure band
- Graphic service plan indicator

## Protection

- Predictive graphic service plan
- Pre-warnings

## Optional

- Remote pressure sensor
- \*Consult manual for configuration constraints

## Q-Connect Cellular Connectivity Hardware

Q-Connect is a monitoring service that provides an online service performance dashboard, service logging, machine service status and monthly service emails at no charge to the customer (RightTime). The cellular hardware device (ICONS) ships standard with every Q-Control. Additional paid features including text message, email and maintenance pre-alerts are available through the connectivity program (UpTime).



Control allows networking up to 6 compressors.



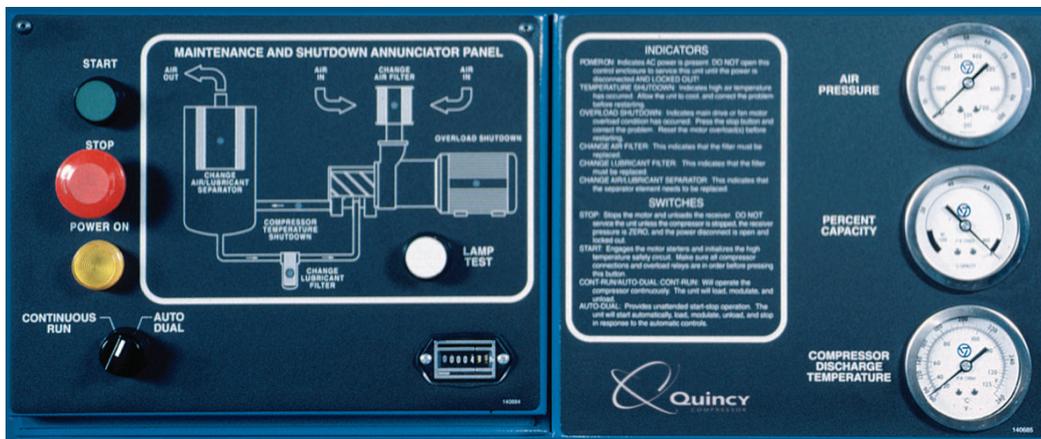
## Optional Gauge Control Panel

The Quincy QSI is both reliable and functional. A selector switch on the control panel allows the user to select auto-dual control or continuous run control. In the auto-dual mode, the compressor will load, unload, and modulate in response to system demand. If there is no system demand during the pre-set time delay, the compressor will shut down the main drive motor and, on air-cooled units, the fan motor. The compressor then goes into a "stand-by" mode and continues to monitor system pressure. As soon as the system pressure drops, the controls will react by restarting the compressor.

Continuous run operation can be selected if typical plant operations include frequent, brief periods of no air usage. In continuous run, the control circuitry bypasses the timer and the compressor does not shut down. This control method prevents excessive restarting and extends the motor life in certain applications. The gauge control

panel has a maintenance and shutdown annunciator panel to indicate various service and shutdown conditions. A graphic display showing the compressor schematic has amber lights to indicate the need to service the air filter, fluid filter, and separator element. Red lights indicate shutdown conditions for high air or fluid temperature, and drive or fan motor overload. These indicators are designed to allow easy remote sensing of all service and shutdown conditions.

All gauges are 2-1/2", stainless steel backed and bezeled, with silicon-dampened dashpot movements. They provide the reliability and service life of liquid-filled gauges, without the possibility of liquid leaks. Temperature and pressure gauges have both English and metric scales.



Quincy's exclusive percent capacity gauge details the compressor load level. When load levels are low, the Quincy QSI can be shut down with confidence, unlike competitive machines that may be left on-line because load levels are unknown.

## Additional Gauge Control Panel Features

- Start button
- Red mushroom stop button with twist lock
- Power-on light
- Lamp test button for annunciator panel
- Discharge air pressure gauge
- Percent capacity gauge
- Hour meter
- Compressor discharge temperature gauge

## True Life Cycle Cost = Purchase Price + Energy Costs + Parts and Service + Additional Factors

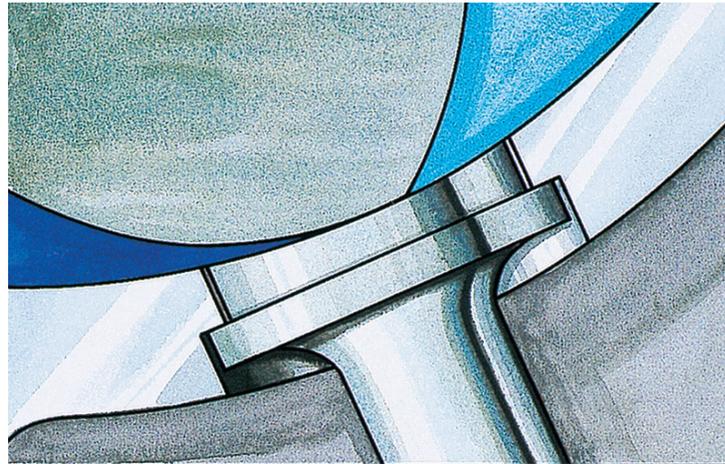
- **Purchase Price**  
This is the “upfront” portion of your investment. Over time, the impact of this expense becomes less significant, especially in units that run with minimal downtime over a long life.
- **Parts and Service**  
This cost can vary depending on the type of unit purchased and the application it performs. In all cases, this expense can be calculated by considering the cost and schedule of regular maintenance as a baseline. High stress or demanding applications should also consider the availability of genuine replacement parts and the cost of repairing or replacing key components.
- **Energy Costs**  
Over the operating life of your compressor, energy is the greatest share of your true life cycle cost. Additionally, energy expenses often fluctuate and these price changes can directly impact your overall profitability. Consider placing an emphasis on units that come with more energy efficient features to help minimize the impact of energy costs throughout your compressor’s operational life.
- **Additional Factors**  
In addition to purchase price, parts/service and energy costs, you should also consider any applicable factors based on the needs of your application and configuration of your compressor.

# Quincy QSI

## Variable Capacity Control

The Quincy Q-Control with patented Power\$ync® lift valves is a unique design that gives the compressor the ability to function as a base-load machine and a part-load machine.

When you don’t need the entire (full load) capacity of the compressor, the QSI Q-Control quickly decreases the air flow output so you’re not wasting energy making compressed air that you don’t need. The QSI does this by using specially designed lift valves, operated by the Q-Control with Power\$ync®. These lift valves adjust automatically to match the demand of your application!



Only QSI’s Power\$ync® lift valves are contoured to prevent blow-by and increase efficiency.

## Optional Power\$ync® Variable Capacity Control\*

- Quincy features patented Power\$ync® lift valves on the airend
- Programmable logic controller with full-color 5.7” display
- Network 6 machines outfitted with compatible controls
- Provides superior energy savings at part load requirements
- Allows your base-load machine to function as a trim machine!

\* For more information, please see our QSI Power\$ync brochure.

## Variable Displacement Lift Valves

- Machined directly into the airend housing to prevent air leaks (blow-by)
- Contoured to sit directly against rotor
- Double-acting for rapid response and control
- Actuated with internal air pressure, no additional power required
- Superior to VSD machine above 80% load

## Quincy QSI 250-350 Performance Data HP

### 110 PSIG Full Load

@ 110 PSIG (7.58 BAR) – Full load pressure, 125 PSIG (8.62 BAR), Maximum pressure

Model	Full Load	M3/min @ 7.58 BAR	Motor HP/rpm	Rotor Diameter in/mm	Unit Length in/mm	Unit Width in/mm	Unit Height in/mm	Weight lbs/kg
QSI-1250	1269	35.93	250/1800	12.64/321	132/3353	80/2032	89.25/2267	10300/4682
QSI-1500	1521	43.07	300/1800	12.64/321	132/3353	80/2032	89.25/2267	10500/4773

@ 125 PSIG (8.62 BAR) – Full load pressure, 140 PSIG (9.65 BAR), Maximum pressure

Model	Full Load	M3/min @ 7.58 BAR	Motor HP/rpm
QSI-1250	1255	35.54	300/1800
QSI-1500	1504	42.59	350/1800

### 125 PSIG Full Load - Low Horsepower\*

@ 125 PSIG (8.62 BAR) – Full load pressure, 140 PSIG (9.65 BAR), Maximum pressure

Model	Full Load	M3/min @ 7.58 BAR	Motor HP/rpm	Rotor Diameter in/mm	Unit Length in/mm	Unit Width in/mm	Unit Height in/mm	Weight lbs/kg
QSI-1175	1175	33.27	250/1800	12.64/321	132/3353	80/2032	89.25/2267	10300/4682
QSI-1400	1400	39.64	300/1800	12.64/321	132/3353	80/2032	89.25/2267	10500/4773

### High Pressure

@ 175 PSIG (12.07 BAR) – Full load pressure,  
190 PSIG (13.10 BAR) Maximum pressure

Model	QSI 1250
ACFM @ 175 PSIG	1216
M3/min @ 12.07 BAR	34.43
HP	350

\* PowerSync not available on these models.

\* Unit performance measured according to ISO 1217, Annex C, Edition 4:2009.

