QSI Power$ync® Series

Rotary Screw Variable | Displacement Compressors

50-300 Horsepower
Power$ync®
Variable Capacity

Variable Displacement Compressors

When your compressed air demand (the “load”) is greater than 80% of the capacity of your compressor, you’re saving money using the QSI Power$ync. In fact, the QSI Power$ync is over 10% more efficient above 80% load than competitive variable speed drive (VSD) compressors. Not only will you be receiving the highest quality compressed air efficiently, you’ll be saving money too!

Quincy QSI Power$ync vs. VSD Compressors

- The QSI Power$ync can act as a full load and part load machine
- The QSI Power$ync is 10% more efficient above 80% load than a VSD
- VSD compressors are optimized for <80% loads
- VSD compressors add 4-5% to the hp consumption at full load
- VSD compressors require air circulation to remove the heat generated by the drive, making them very sensitive to ambient conditions

Percent Power vs Load

<table>
<thead>
<tr>
<th>% Full Load BHP</th>
<th>100%</th>
<th>90%</th>
<th>80%</th>
<th>70%</th>
<th>60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Full Load CFM</td>
<td>50%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Power$ync
- Poppet
- Turn/Spiral Valve
- Throttled Inlet

QSI-245i to QSI-500i color touch screen interface can control and sequence up to 6 QSI compressors.

- Full-color 5.7” display
- Remote control input/output
- Day/Week organizer
- Dual pressure band
- Graphic service plan indicator
Located in the USA

Quincy Compressor proudly builds each one of its flagship QSI product lines at its factory headquartered in Bay Minette, Alabama. As an 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.

QSI air compressors come with Quincy’s industry leading 10-Year Royal Blue Warranty.
New QSI Serviceability

Quincy compressors are designed with you in mind. Working closely with our customers, we’ve designed our Quincy QSI’s to be both dependable and easy to maintain over an extended life of your equipment.

Lower Maintenance Costs

Helpful design features “constant view” fluid monitoring, single panel access to consumable components and a spin on filter to speed maintenance tasks.

Reduced Downtime

Genuine Quincy replacement parts are readily available ensure efficient and reliable performance with minimal downtime.

10-Year Royal Blue Warranty

Every Quincy QSI comes with our standard “Royal Blue” warranty.

Power$ync® Variable Capacity

The QSI Power$ync

The Quincy QSI Power$ync® with patented 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 Power$ync® quickly decreases the air flow output so you’re not wasting energy making compressed air that you don’t need.

The compressor is able to vary the output using specially designed lift valves, operated by Q-Control with Power$ync®. These lift valves adjust automatically to match the demand of your application!

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 Variable Speed Drive machine above 80% load
Patented Quincy PowerSYNC®
Lift Valve Design

Efficient and Reliable
Q-Control microprocessor controls the valves to adjust the airend capacity to match demand for stable pressure.
- Contoured valves eliminate blow-by
- Actuated with internal air pressure
- Double-acting for fast, positive control
- Patented design exclusive to Quincy

Engineered Solution
All other variable displacement compressors lose efficiency by design.
- Leak points between valve and rotor
- Reduced efficiency by up to 4%
- Complex control mechanisms are unreliable
- External pneumatic control

Outperforms the Competition
Quincy’s PowerSYNC variable displacement is over 10% more efficient than variable speed drive above 80% capacity.
- PowerSYNC has no drive losses
- Runs load/unload below 50% capacity
- VSD’s add 4-5% to the motor power at full load
- PowerSYNC lowers operating costs

Manufactured in Bay Minette, Alabama
Performance You Demand.
Reliability You Trust.
PowerSYNC® Variable Capacity Control

Your “Best Practice” for Energy Savings

Optimize Your Compressed Air System:
- Reduce Energy Consumption
- Stabilize System Pressure
- Enhance Product Consistency
- Improve Plant Productivity

It’s the application of the patented Quincy Efficiency Quotient (EQ®) that allows us to quickly and accurately define the potential energy savings in your plant. And it’s the profitable results that will make Quincy your “Best Practice” partner for energy savings.

A Performance and Financial Analysis

In order to stay competitive in the global market, you need partners who offer proven “Best Practice” solutions. More than promises of energy efficiency, you need revenue accountability – and Quincy’s “Best Practice” standards for compressed air deliver profitable results.

Best Practice Standards

<table>
<thead>
<tr>
<th>Industry Examples</th>
<th>Compressor kWh per Industry Metrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Can Manufacturing</td>
<td>258 kWh per 100,000 cans</td>
</tr>
<tr>
<td>Foam/Plastic Cup Manufacturing</td>
<td>290 kWh per thousand cups</td>
</tr>
<tr>
<td>Pulp and Paper Mill wo/Woodyard</td>
<td>115 kWh per ton of paper</td>
</tr>
<tr>
<td>Corrugated Box Plant</td>
<td>640 kWh per million sq. ft.</td>
</tr>
<tr>
<td>Rubber Products Manufacturing</td>
<td>1088 kWh per 1000 tires</td>
</tr>
</tbody>
</table>

The generation of compressed air accounts for 10% of the total industrial energy used in the United States. Our “Best Practice” standards allow you to compare your facility to the most efficient compressed air systems in similar industries.

Cost Savings Opportunity

<table>
<thead>
<tr>
<th>EQ Rating</th>
<th>50 HP System</th>
<th>100 HP System</th>
<th>500 HP System</th>
</tr>
</thead>
<tbody>
<tr>
<td>85%</td>
<td>$ 3,552</td>
<td>$ 7,103</td>
<td>$ 35,516</td>
</tr>
<tr>
<td>75%</td>
<td>$ 5,327</td>
<td>$ 10,655</td>
<td>$ 53,274</td>
</tr>
<tr>
<td>65%</td>
<td>$ 7,991</td>
<td>$ 15,982</td>
<td>$ 79,911</td>
</tr>
</tbody>
</table>

Note: Calculated @$0.05 /kWh.

Quincy’s Commitment to Efficient & Competitive Industry in America

Efficiency is critical to success in the global marketplace and Quincy’s commitment to efficiency is leading to innovative solutions that give American industry a competitive edge.

Quincy’s extensive distributor network understands the global challenges you face everyday. And because Quincy’s distributors are independent businesses with ties to your community, they are committed to your success.
Air Treatment Products

**Quincy Filters**
- Particulate
- Coalescers
- Absorbers
- Moisture Separators
- High temperature design available
- High pressure design available
- 5 micron to 0.01 micron particulate removed
- 5 ppm to 0.003 ppm liquid carryover
- 1/4" to 3" NPT aluminum housings
- 3" to 12" flanged steel housings
- Delta P gauge
- Auto drain
- Color-coded glass filled nylon end caps
- Push-to-fit element design
- Low pressure drop/high efficiency
- 10-year housing warranty

**Quincy Drains**

**QMAT - Electronic No Loss Drains**
- Reliable
- Robust
- Save energy
- Low maintenance
- Flexible

**ETD - Electronic Timer Drains**
- Simple
- Reliable
- Affordable
- 1/4" and 1/2" NPT
- Large 7/16" orifice

**Pneumatic - No Loss Drains**
- Save energy
- Demand activated
- Low profile
- See-through vessel
- 1/2" full port ball valve
- Large capacity
- Ideal for oil/water separators

**Quincy Condensate Purifiers**
- Replaces the old gravity separators
- Removes all compressor lubricants, including polyglycol emulsions
- Lightweight, easy change, disposable filter cartridge
- Versatile size range allows for single or multiple-unit configurations
- Clean, carbon-free filter media

**Quincy Refrigerated Air Dryers**
- QPHT high-temp, QED cycling, QPNC non-cycling
- Environmentally friendly refrigerants
- Two-valve balanced system on all units
- Low pressure drop heat exchangers
- Microprocessor control
- Easy access, powder-coated cabinets
- Fully instrumented
Compressed Air Systems Best Practice

Air Quality Classification

<table>
<thead>
<tr>
<th>Micron</th>
<th>Solids</th>
<th>PPM</th>
<th>Moisture</th>
<th>PPM</th>
<th>Oil</th>
<th>ISO</th>
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<tbody>
<tr>
<td>0.01</td>
<td>1</td>
<td>+36°F</td>
<td>4</td>
<td>0.01</td>
<td>1</td>
<td>ISO</td>
</tr>
<tr>
<td>0.01</td>
<td>1</td>
<td>-100°F</td>
<td>1</td>
<td>0.001</td>
<td>1</td>
<td>ISO</td>
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NOTE: Requires CXN (.001 PPM) filter in series with standard QCF pre-filter.

Approximate Liquid Removal

<table>
<thead>
<tr>
<th>Drain Point</th>
<th>Gallons per Year</th>
<th>Drain Point</th>
<th>Gallons per Year</th>
<th>Drain Point</th>
<th>Gallons per Year</th>
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<tbody>
<tr>
<td>1</td>
<td>3000</td>
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<td>300</td>
<td>3</td>
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<td>4</td>
<td>1300</td>
<td>4</td>
<td>310</td>
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