



The Science of Compressed Air

Quincy QST/B



QUINCY QST and QSB SERIES
ROTARY SCREW AIR COMPRESSORS
15-50 HP

QUINCY QST/B SERIES

ROTARY SCREW COMPRESSORS 15 • 20 • 25 • 30 • 40 & 50 HP



LARGE ROTORS MEAN LONGER LIFE AND BETTER EFFICIENCY

Quincy QST and QSB series of rotary screw air compressors are equipped with large-diameter, high-efficiency rotors. Large rotors mean the QST and QSB can run at slower speeds for extended air end life and quiet, economical operation. For added economy, these units feature a continuous run, "load/no load" control system. The QST and QSB are completely user-friendly: Every feature has been designed with your convenience in mind. For instance, the QST offers the system flexibility of a tank-mounted unit, while the QSB base-mount is ideal for installations where space is tight and those where air storage is not a concern.

Quincy designed the QST/QSB with fewer external piping connections, so maintenance concerns are reduced. Easy serviceability is assured with quick-change separators, quick-release cabinet latches, and convenient access to routine maintenance areas.

The QST and QSB are manufactured in Bay Minette, Alabama in one of the most technologically advanced compressor plants in the world. They're precision-engineered, quality-built, and ready to perform in virtually all applications. The QST and QSB are two more reasons why Quincy compressors are undeniably the world's finest.

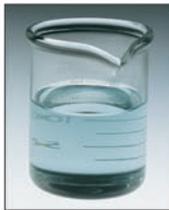
QUINCY QST/B SPECIFICATIONS & ENGINEERING DATA

CFM at various pressures*						
Horsepower	15	20	25	30	40	50
100 psi	62	86	115	140	186	235
125 psi	48	73	105	121	162	206
150 psi	-	64	87	109	136	187

Approximate shipping weight of base unit (lbs)						
Horsepower	15	20	25	30	40	50
Base-mounted	1300	1400	1500	1500	1600	1700
Tank-mounted	1600	1700	1800	1800	2000	2200

Approximate dimensions**				
	Base-mount w/o cabinet	Base-mount w/cabinet	Tank-mount w/o cabinet	Tank-mount w/cabinet
Height	45"	45"	75"	75"
Width	34"	42"	34"	42"
Length	64"	64"	80"	80"

We reserve the right to change specifications without liability, without advance notice, and without incurring any obligation for products previously or subsequently sold.
*Consult factory for 50-cycle performance data.
**See the QST and QSB factory certified drawings for exact dimensions.
Must be used with proper filtration for breathing air applications to meet OSHA 29CFR1910.
Performance rated in accordance with CAGI/PNEUROF PN2CPTC2 test code.



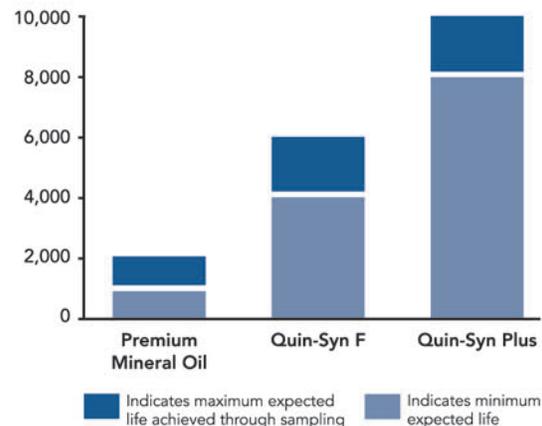
QUIN-SYN synthetic lubricants are technically perfect for Quincy compressors. Uniquely formulated for the Quincy products you trust, Quin-Syn will help keep them running smoothly for years to come.

Quincy offers a free lubricant system analysis program to all Quin-Syn users. Be sure to ask your distributor for details.

NON-TOXIC

All Quin-Syn products are non-toxic and not considered hazardous under OSHA Hazardous Communication Standard 21 CFR1910.1200. They carry no hazardous labels or warnings under that standard.

EXPECTED LUBRICANT LIFE at normal operating conditions



QUINCY AIREND WARRANTY



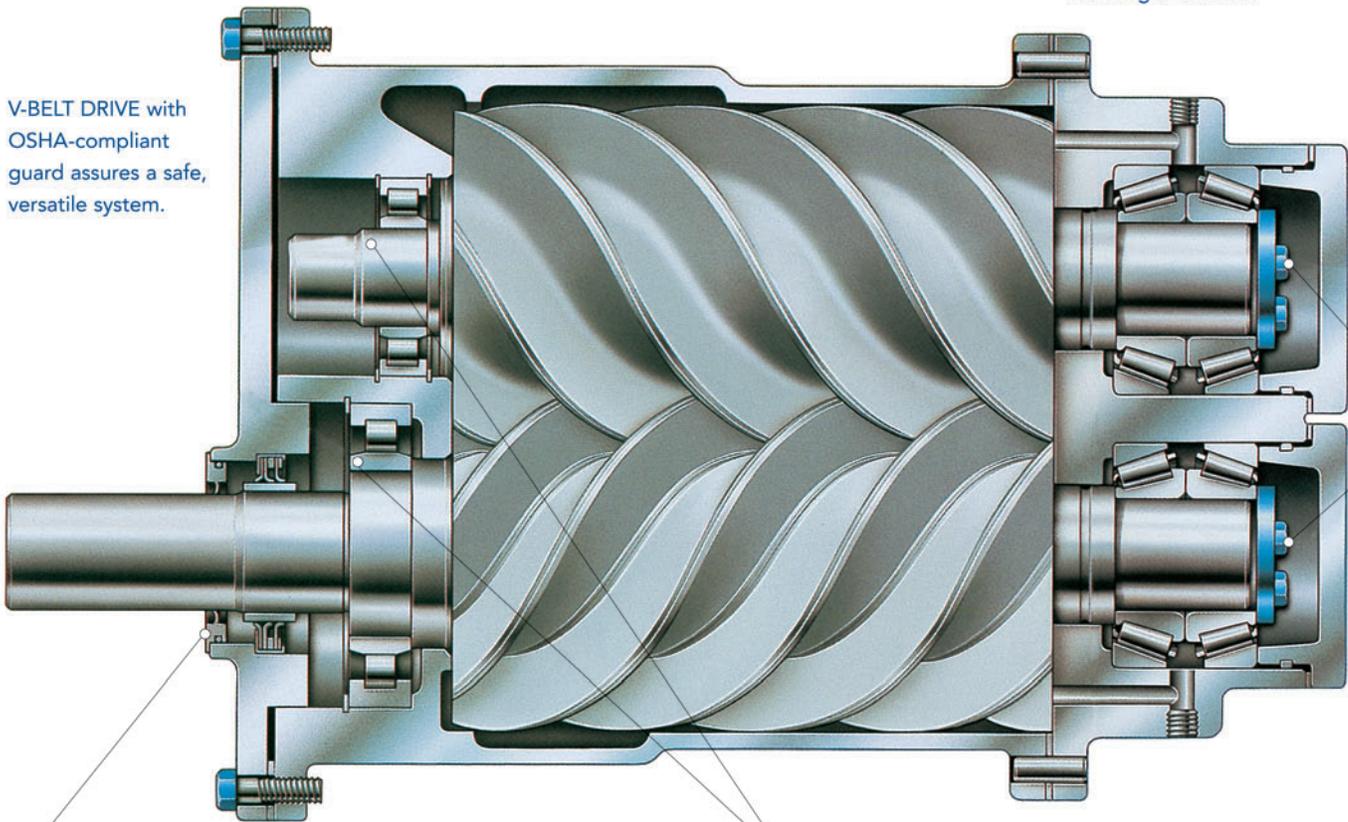
When it comes to reliability, everyone is making the same promise. But when it comes to keeping the promise, Quincy Compressor stands alone. This is why we have introduced our exclusive five- and 10-year airend warranties that cover both parts and labor. Reliability is about confidence, performance, and trust - every day. Our warranty program is how we're keeping our promise of reliability for the next five or 10 years.

INSIDE THE QST/B

Large, 127mm rotors mean slow-speed operation for maximum airend life and quiet, economical operation.

BACK-TO-BACK DUPLEX TAPERED ROLLER BEARINGS on the discharge end supply superior radial and axial load-carrying capability for reliability and long airend life.

V-BELT DRIVE with OSHA-compliant guard assures a safe, versatile system.



TRIPLE-LIP SEAL with scavenge system.

OVERSIZED CYLINDRICAL ROLLER BEARINGS on suction end carry radial load and add to compressor reliability.

OTHER STANDARD FEATURES

- Cast-iron construction
- Across-the-line full voltage starters
- Factory fill of Quin-Syn full synthetic lubricant (food grade available at no extra charge)
- Spin-on, 12-micron absolute, micro-fiberglass lubricant filter with full-flow bypass
- Lubricant thermal valve
- Air discharge check valve
- Air/oil reservoir safety valve
- Control line filter (with auto-dual control)
- High Air Temperature (H.A.T.) shutdown protection

OPTIONS

- Modulation with percent capacity gauge
- Auto-dual control
- Remote-mounted separator indicator
- Air filter indicator
- Heavy-duty intake filter
- NEMA 4
- 200, 230, or 575 volt motors
- 50 cycle
- TEFC and high-efficiency motors
- Wye-Delta reduced voltage starting
- Low sound enclosures
- Water-cooled oil cooler and aftercooler
- Lead/lag control

QUALITY FEATURES PERFORMING QUALITY FUNCTIONS

Easy-to-read instrument panel features large, 2-1/2" dampened movement analog gauges for air discharge pressure and temperature, and separator differential pressure. Other standard indicators include power light, hour meter and selector switch.

Full enclosure for cool, quiet, safe operation – also allows easy installation of heat recovery ducting.

Combination over/under aftercooler and fluid cooler

is designed to capture maximum cooling air flow, allowing operation in ambient temperatures up to 115° F with a 15° F approach. Single-piece design allows easy, efficient cleaning.



Continuous run with total closure inlet valve minimizes operating costs by incorporating load/no load controls.

Belt-drive tensioning is maintained through a heavy-duty, easily adjustable motor platform.

Computer-driven test equipment checks static and rotating parts before assembly, using Statistical Process Control (SPC) to assure close tolerances for maximum airend quality and efficiency.

Optional electronic controls with modulation and auto-dual control. Maintenance indicators monitor machine functions for your peace of mind.

ARE YOU COMPARING APPLES TO ORANGES WHEN IT COMES TO SEPARATION SYSTEMS?

Lubricant carryover can be measured in two ways. The first method measures the lubricant carryover downstream from the aftercooler, moisture separator, and drain trap. The amount of carryover is normally stated in parts per million (ppm) and is typically in the 3-5 ppm range. Most compressor manufacturers publish carryover rates based on this information, and while it is a relatively accurate measure of downstream lubricant carryover (relative because the effectiveness of the moisture separator and trap at lubricant removal will vary with the ambient air conditions), it measures only 1/3 to 1/4 of the actual lubricant passing through the separation system.

Lubricant make-up, the second method and the one Quincy has traditionally used, measures the total amount of lubricant lost in both the downstream air system and through the moisture separator and trap. This method provides a much more accurate account of lubricant loss.

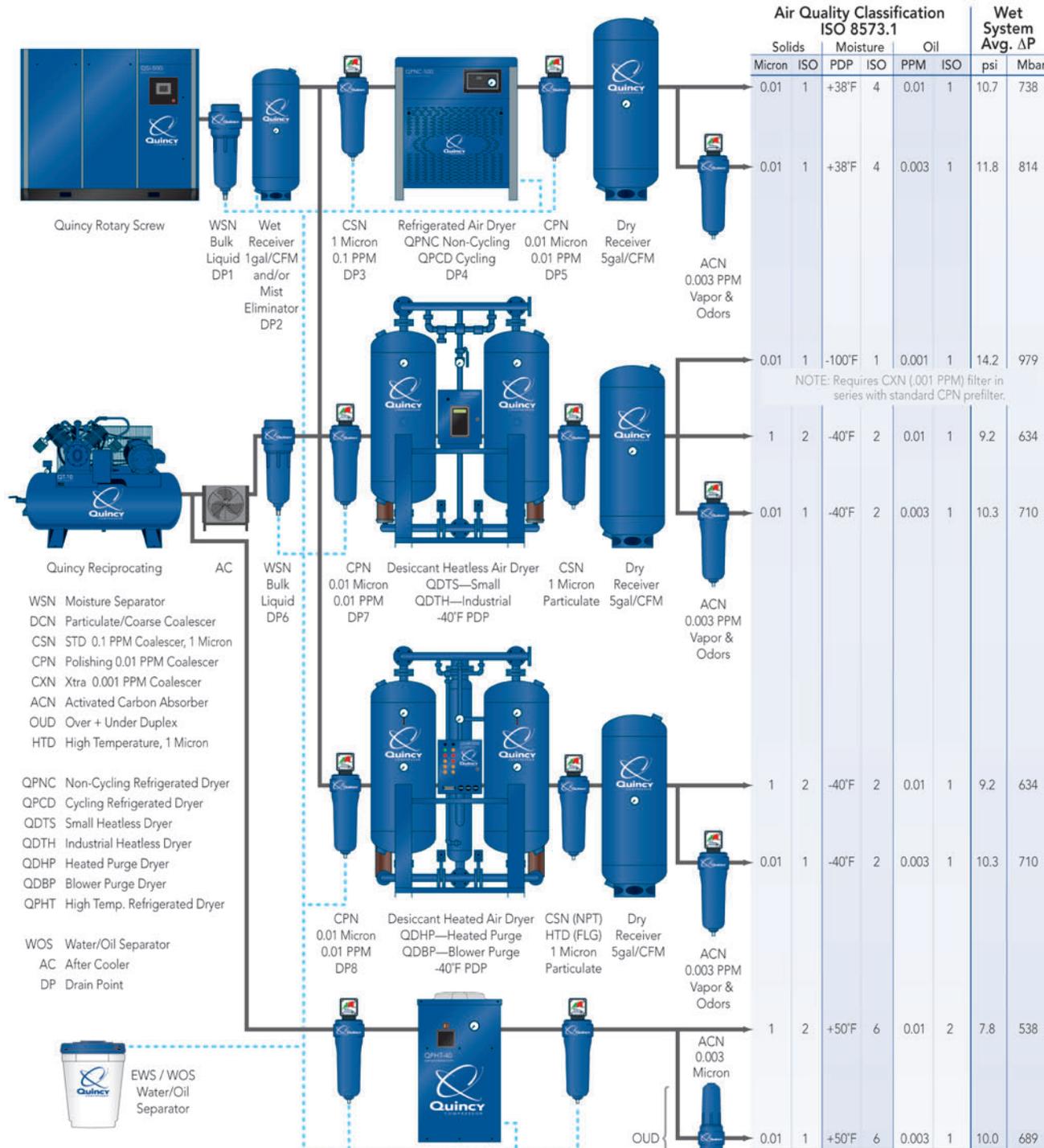
Don't be misled. Quincy's QST and QSB product use a unique, highly efficient separation system and molded media separator element that keeps lubricant make-up under 3 ppm and, remarkably, lubricant carryover under 1 ppm.

So be sure you're comparing apples to apples. When we say low lubricant carryover, that's exactly what we mean – by anyone's definition.

COMPRESSED AIR SYSTEMS BEST PRACTICE



The Science of Compressed Air



Air Quality Classification ISO 8573.1						Wet System Avg. ΔP	
Solids		Moisture		Oil		psi	Mbar
Micron	ISO	PDP	ISO	PPM	ISO		
0.01	1	+38°F	4	0.01	1	10.7	738
0.01	1	+38°F	4	0.003	1	11.8	814
0.01	1	-100°F	1	0.001	1	14.2	979
1	2	-40°F	2	0.01	1	9.2	634
0.01	1	-40°F	2	0.003	1	10.3	710
1	2	-40°F	2	0.01	1	9.2	634
0.01	1	-40°F	2	0.003	1	10.3	710
1	2	+50°F	6	0.01	2	7.8	538
0.01	1	+50°F	6	0.003	1	10.0	689

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		

- WSN Moisture Separator
- DCN Particulate/Coarse Coalescer
- CSN STD 0.1 PPM Coalescer, 1 Micron
- CPN Polishing 0.01 PPM Coalescer
- CXN Xtra 0.001 PPM Coalescer
- ACN Activated Carbon Absorber
- ODD Over + Under Duplex
- HTD High Temperature, 1 Micron
- QPNC Non-Cycling Refrigerated Dryer
- QPCD Cycling Refrigerated Dryer
- QDTS Small Heatless Dryer
- QDTH Industrial Heatless Dryer
- QDHP Heated Purge Dryer
- QDBP Blower Purge Dryer
- QPHT High Temp. Refrigerated Dryer
- WOS Water/Oil Separator
- AC After Cooler
- DP Drain Point

Member of
CAGI
 Compressed Air
 and Gas Institute
 www.cagi.org

COMPRESSED AIR CHALLENGE

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