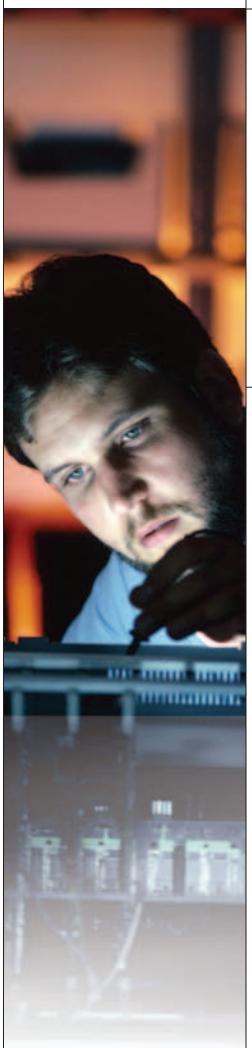
Quincy COMPRESSOR

Performance You Demand. Reliability You Trust.

Oil-less Compressors

QUINCY QRD SERIES
SINGLE-STAGE, 2-20 HP
TWO-STAGE, 5-30 HP
OIL-LESS RECIPROCATING
COMPRESSORS

OIL-LESS COMPRESSORS



QUINCY QRDS, SINGLE-STAGE

- Clean, oil-less air
- Quincy dependability
- High-efficiency, clean air

CLEAN, OIL-LESS AIR

When you need up to 100 psig of clean air for your hospital, laboratory, pharmaceutical, or bulk material application, you need absolutely clean air. Your system won't tolerate the smallest hint of oil – exactly why we built the Quincy QRDS.

With 2-20 hp models built to deliver up to 100 psig, every Quincy QRDS utilizes Teflon™ industrial technology to minimize friction while operating without using a single drop of oil. They also employ graphite gaskets, so the Quincy QRDS series of compressors comply with EPA health standards.

QUINCY DEPENDABILITY

With years of proven performance, you can depend on Quincy for the long haul. Install a Quincy QRDS, hook up all the connections, and let it run. We warrant the Quincy QRDS for up to three years or 10,000 hours when operated at 100 psig.

HIGH-EFFICIENCY, CLEAN AIR

The Quincy QRDS single-stage, air-cooled compressors feature operating speeds in the 855-1020 rpm range – running slower and cooler than competing models. This ensures higher compression efficiency, lower maintenance and longer service life.

The Quincy QRDS also eliminates the cost and problems of water and sewage associated with the use of liquid ring pumps.

Hospitals, pharmaceutical and food processing companies, laboratories, and dental offices all rely on Quincy QRDS compressors for clean, oil-less air. Quincy stands for reliability and lower costs over a longer life. Quincy has been setting the standard for air compressor reliability and quality since 1920. That's the proven value of the Quincy QRDS.

QRDS-7.5 Simplex Tank Mount
(shown with optional starter)

STANDARD FEATURES, BASIC COMPRESSOR

- Cast-iron crankcase and main bearing carrier for strength and durability
- One-piece ductile iron connecting rods for strength and rigidity
- Totally sealed, prelubricated bearings for long life
- Hard-coat anodized and precision-honed aluminum cylinders and aluminum heads with deep fins for efficient heat dissipation
- Aluminum pistons facilitate heat dissipation and balancing
- All-polymeric reinforced PTFE piston and rider rings for low friction and precise piston orientation
- Hard-coated and Teflon™ impregnated valve plates for long life
- Stainless steel reed valves for long life, high efficiency, and low clearance volume
- Integral counterweights on ductile iron crankshaft for smooth operation
- Large-diameter ductile iron pulley for high inertia rim and smooth operation
- Lubricated and sealed needle bearings for the piston pin
- Free-floating piston pin designed for all connecting rods
- HAT switches in head

STANDARD FEATURES, TANK AND BASE MOUNTED UNITS

- EPAct high efficiency motors, 230/460 volt
- OSHA-style beltguard
- Pressure switch for start-stop control set 80-100 PSIG
- Inlet filter/silencer
- Discharge check valve
- Hour meter

STANDARD FEATURES, TANK MOUNTED UNITS

- ASME receivers (Cal OSHA 462-M approved)
- ASME coded pressure relief valves
- Manual tank drain and service valve

OPTIONS

- 200, 230, 460 and 575 volt magnetic starter panel
- TEFC motor
- Solenoid dual control (2-20 hp)
- Intake muffler
- Isolation pads
- Electric tank drain
- Galvanized receiver
- NEMA 4 controls
- Automatic alternating duplex control panels

MAINTENANCE SCHEDULES (Factory Packages Only)

The compressor is designed for maintenance-free service for three years, or the following hours of operation when operating at the listed cut-out pressure:

100 PSIG ..... 10,000 Hours

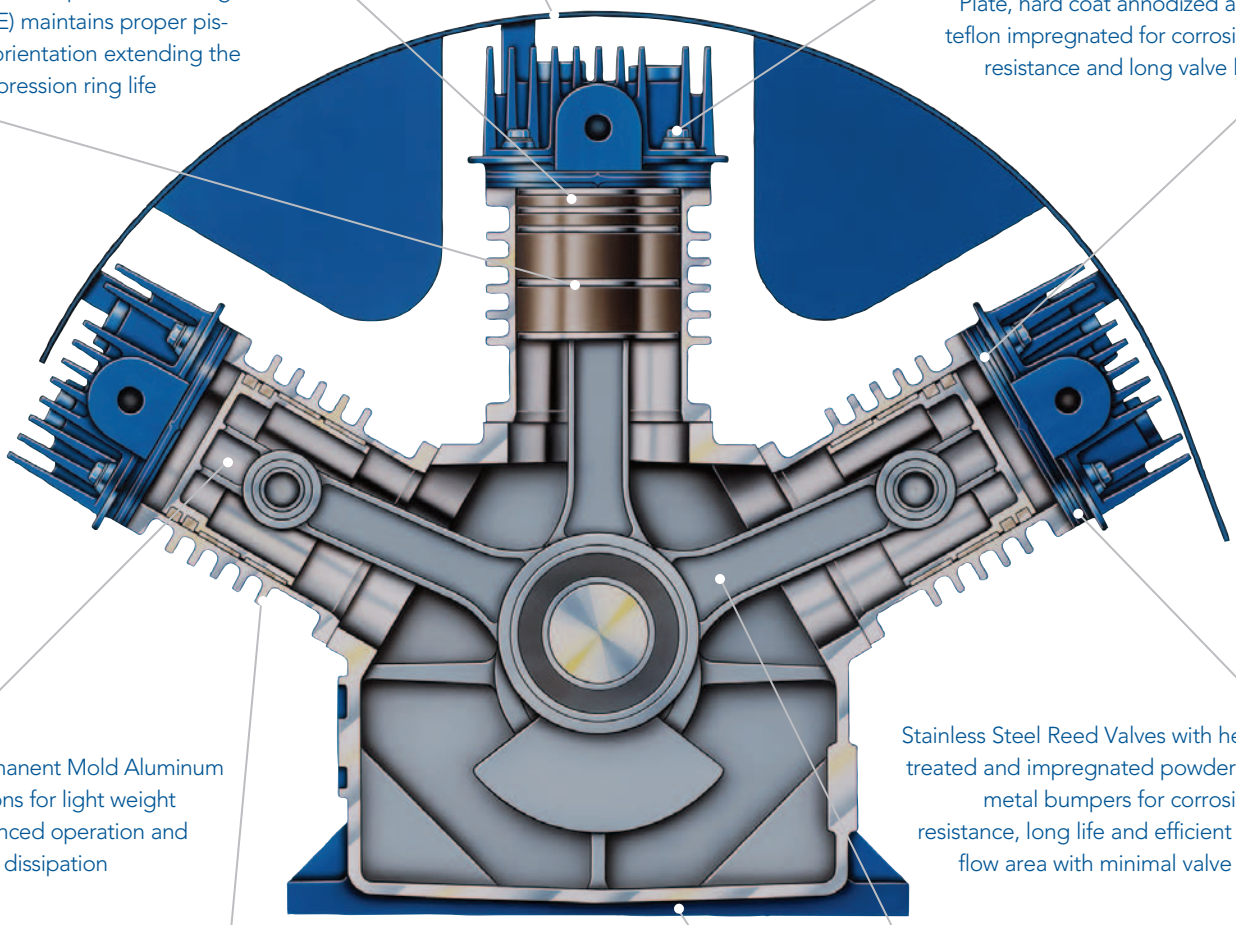
The maintenance schedule applies to the compression and rider rings, low-presure and high-pressure wrist pins, connecting rod, main shaft sealed bearings and the valve assembles.

We reserve the right to change specifications without liability, without advance notice, and without incurring any obligation on products previously or subsequently sold.

Must be used with proper filtration for breathing air applications to meet OSHA 29CFR1910.134 or FDA 21 CFR178.3570.

OIL-LESS COMPRESSORS

QUINCY QRDS, SINGLE-STAGE



Teflon-Composite Compression Rings (PTFE) eliminate the need for lubricant

Air Shroud for Fan Blast control for optimum cooling

Two Piece Cylinder and Head that bolt onto the crankcase for easy serviceability

Teflon-Composite Rider Ring (PTFE) maintains proper piston orientation extending the compression ring life

Die Cast Aluminum Valve Plate, hard coat annodized and teflon impregnated for corrosion resistance and long valve life

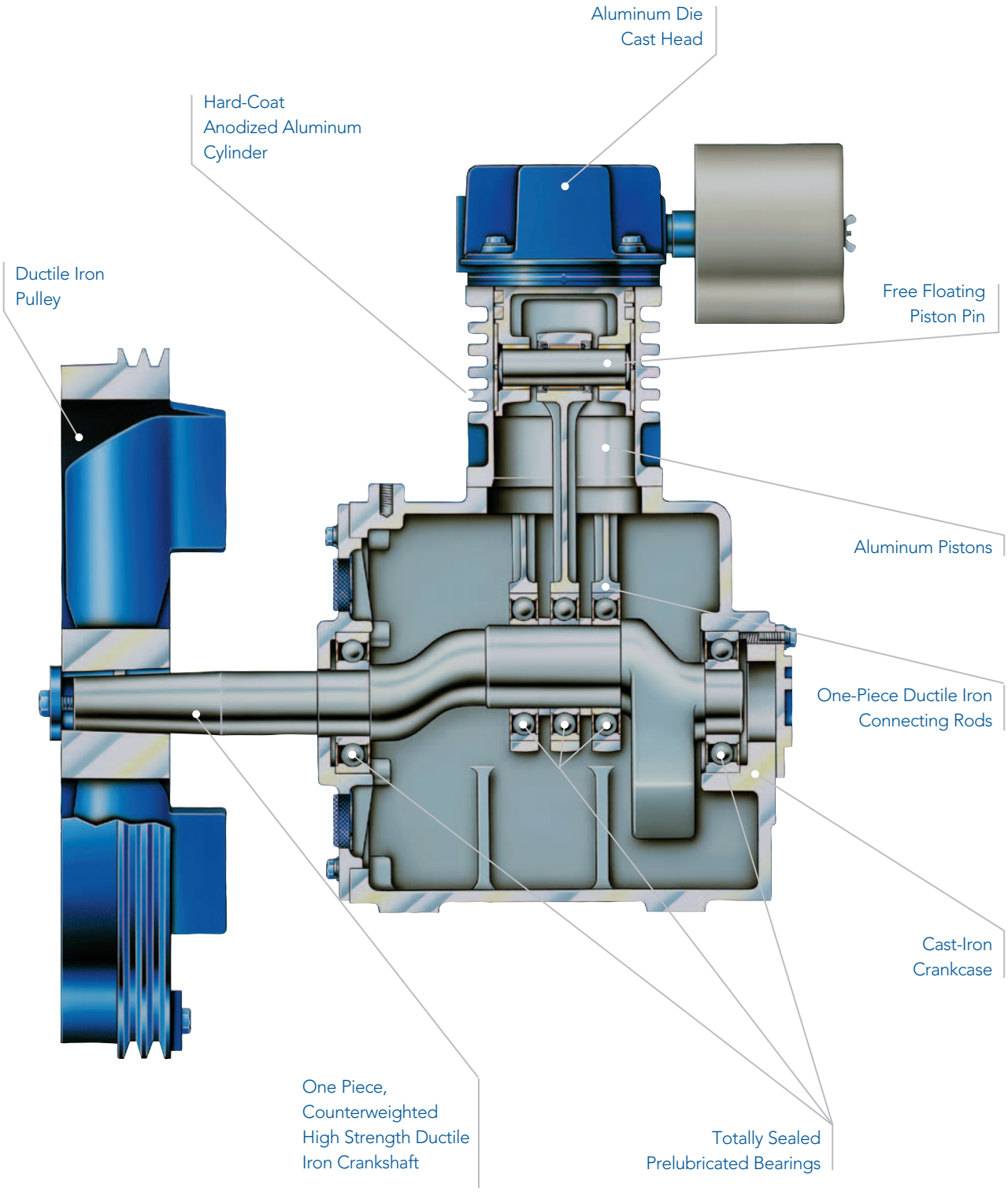
Permanent Mold Aluminum Pistons for light weight balanced operation and heat dissipation

Stainless Steel Reed Valves with heat treated and impregnated powdered metal bumpers for corrosion resistance, long life and efficient air flow area with minimal valve lift

Permanent Mold Aluminum Cylinder with hard coat annodized cylinder bores for efficient compression and optimum compression ring seating

Cast Iron Crankcase and Main Bearing Carrier for machining integrity and superior durability

One Piece High Strength Ductile Iron Connecting Rods, pressed onto the crankshaft for a precise fit


Aluminum Die
Cast Head
Hard-Coat
Anodized Aluminum
Cylinder
Ductile Iron
Pulley
Free Floating
Piston Pin
Aluminum Pistons
One-Piece Ductile Iron
Connecting Rods
Cast-Iron
Crankcase
One Piece,
Counterweighted
High Strength Ductile
Iron Crankshaft
Totally Sealed
Prelubricated Bearings

OIL-LESS COMPRESSORS

QUINCY QRDS - SINGLE-STAGE SPECIFICATIONS

Model No.	HP	No. of Cylinders	Bore & Stroke (in)	SCFM/RPM 75 PSI	SCFM/RPM 100 PSIG	Weight (lbs)
QRDS-2	2	1	4.00x2.00	7.4/786	6.1/735	149
QRDS-3	3	1	4.75x2.00	11.8/843	10.1/786	151
QRDS-5	5	1	5.25x2.00	18.6/1065	17.2/1065	155
QRDS 7.5	7.5	2	4.750 x 2.375	33.5/950	28.5/859	275
QRDS 10	10	2	5.250 x 2.375	42.2/956	36.3/864	280
QRDS 15	15	3	4.750 x 2.375	53.0/1020	51.0/1020	415
QRDS 20	20	3	5.250 x 2.375	69.0/1020	65.1/1020	450

All performance data meets CAGI/PNEUROP PN2CPTC2 acceptance test codes for electrically packaged displacement air compressors.

See QRDT 2-stage for 25 & 30 horsepower

QUINCY QRDS - SINGLE-STAGE DIMENSIONAL INFORMATION

2 AND 3 CYLINDER

HP	Height (in)	Width (in)	Length** (in)	Weight* (lbs)
Base Mount				
7.5	32.32	28.44	49.41	630
10	32.32	28.44	49.91	670
15	33.91	30.25	51.12	895
20	33.91	30.25	52.22	970
Simplex 80 Gallon Tank Mount				
7.5	50.89	26.44	67.58	830
10	50.89	26.44	67.58	870
Simplex 120 Gallon Tank Mount				
7.5	59.82	29.81	73.07	1080
10	59.82	29.81	73.07	1120
15	58.90	29.79	75.33	1345
20	58.90	29.79	75.33	1420
Duplex 120 Gallon Tank Mount				
7.5	55.63	52.34	72.07	2565
Duplex 240 Gallon Tank Mount				
7.5	65.82	52.89	89.12	2370
10	65.82	52.89	89.12	2450
15	67.02	57.00	92.08	2900
20	67.02	57.00	92.08	3050

30 PSIG is the minimum discharge pressure

SINGLE CYLINDER

HP	Height (in)	Width (in)	Length** (in)	Weight* (lbs)
Base Mount				
2	30.8	27.0	36.4	356
3	30.8	27.0	36.4	378
5	30.8	27.0	36.4	402
Simplex 60 Gallon Vertical Tank Mount				
2	78.1	23.9	35.3	446
3	78.1	23.9	35.3	468
Simplex 80 Gallon Vertical Tank Mount				
2	75.6	24.6	36.5	478
3	75.6	24.6	36.5	500
Simplex 80 Gallon Horizontal Tank Mount				
5	49.7	24.5	66.1	524
Simplex 120 Gallon Horizontal Tank Mount				
5	75.3	30.00	39.6	634
Duplex 120 Gallon Horizontal Tank Mount				
2-5	58.2	38.7	70.6	750

Approximate dimensions in inches.
* Weights will vary with optional equipment.
** Length includes 1" NPT ball valve on 2, 3 & 4 cylinder. 3/4" NPT ball valve on single cylinder.

QUINCY QRDT, TWO-STAGE

- Clean, oil-less air
- Quincy dependability
- Setting the oil-less standard

QRDT-10 Duplex Tank Mount

CLEAN, OIL-LESS AIR

When your application requires clean air, "nearly clean" isn't clean enough. You need absolutely clean air without a hint of oil. To meet that standard, you need a compressor that operates without any oil – not a single drop – exactly why we built the Quincy QRDT.

The QRDT will supply the oil-less air that hospitals, laboratories and pharmaceutical applications require. What's more, the QRDT uses graphite gaskets, so the compressor complies with EPA health standards.

QUINCY DEPENDABILITY

With years of proven performance, you can depend on Quincy. A cast iron crankcase, ductile iron crankshaft, totally sealed bearings and deep cylinder fins for cooling are all signs of a solid machine that's built to last.

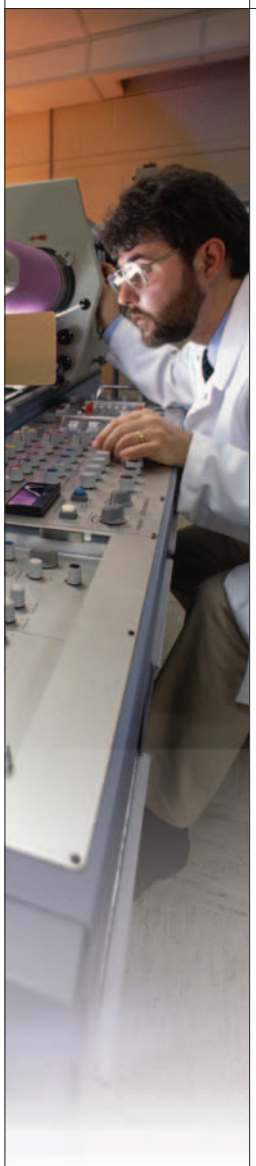
Every Quincy QRDT is engineered for up to three years maintenance-free operation (see maintenance on page 9).

SETTING THE OIL-LESS STANDARD

Satisfying your need for oil-less compressed air doesn't have to mean a high up front expense. That's obvious when you consider Quincy's QRDT line of two-stage oil-less reciprocating compressors.

The Quincy QRDT is a two-stage, air-cooled compressor with pressure capability up to 150 psig. Standard equipment includes an air-cooled intercooler with 15º F approach aftercooler on 20, 25, and 30 horsepower units. With operating speeds in the 780-1020 RPM range, the Quincy QRDT runs cooler than competing single-stage oil-less compressors. The result is higher compression efficiency, lower maintenance costs and longer service life.

With a QRDT, you get oil-less air at a lower initial purchase price and cost of ownership than a rotary screw. But don't be surprised at the quality and value – after all, Quincy Compressor has been setting the standard for air compressor reliability and quality since 1920. That's why hospitals, pharmaceutical and food processing companies, laboratories, and dental offices all rely on Quincy for clean, oil-free air.



QUINCY QRDT, TWO-STAGE

STANDARD FEATURES, BASIC COMPRESSOR

- Cast-iron crankcase and main bearing carrier for strength and durability
- One-piece ductile iron connecting rods for strength and rigidity
- Totally sealed, prelubricated bearings for long life
- Hard-coat anodized and precision-honed aluminum cylinders and aluminum heads with deep fins for efficient heat dissipation
- Aluminum pistons facilitate heat dissipation and balancing
- All-polymeric reinforced PTFE piston and rider rings for low friction and precise piston orientation
- Hard-coated and Teflon™ impregnated valve plates for long life
- Stainless steel reed valves for long life, high efficiency, and low clearance volume
- Integral counterweights on ductile iron crankshaft for smooth operation
- Integral counterweights on ductile iron crankshaft for smooth operation
- Large-diameter ductile iron pulley for high inertia rim and smooth operation
- Lubricated and sealed needle bearings for the piston pin
- Patented free-floating piston pin designed for both the high-pressure rod and low-pressure rod
- HAT switches in head
- Air-cooled intercooler
- Integral air-cooled 15°F approach after cooler (20-30 hp models)
- Solenoid Dual Control

STANDARD FEATURES, TANK AND BASE MOUNTED UNITS

- EPAct high efficiency motors, 230/460 volt
- OSHA-style beltguard
- Pressure switch for start-stop control set 110-125 PSIG
- Inlet filter/silencers
- Discharge check valve
- Hour meter

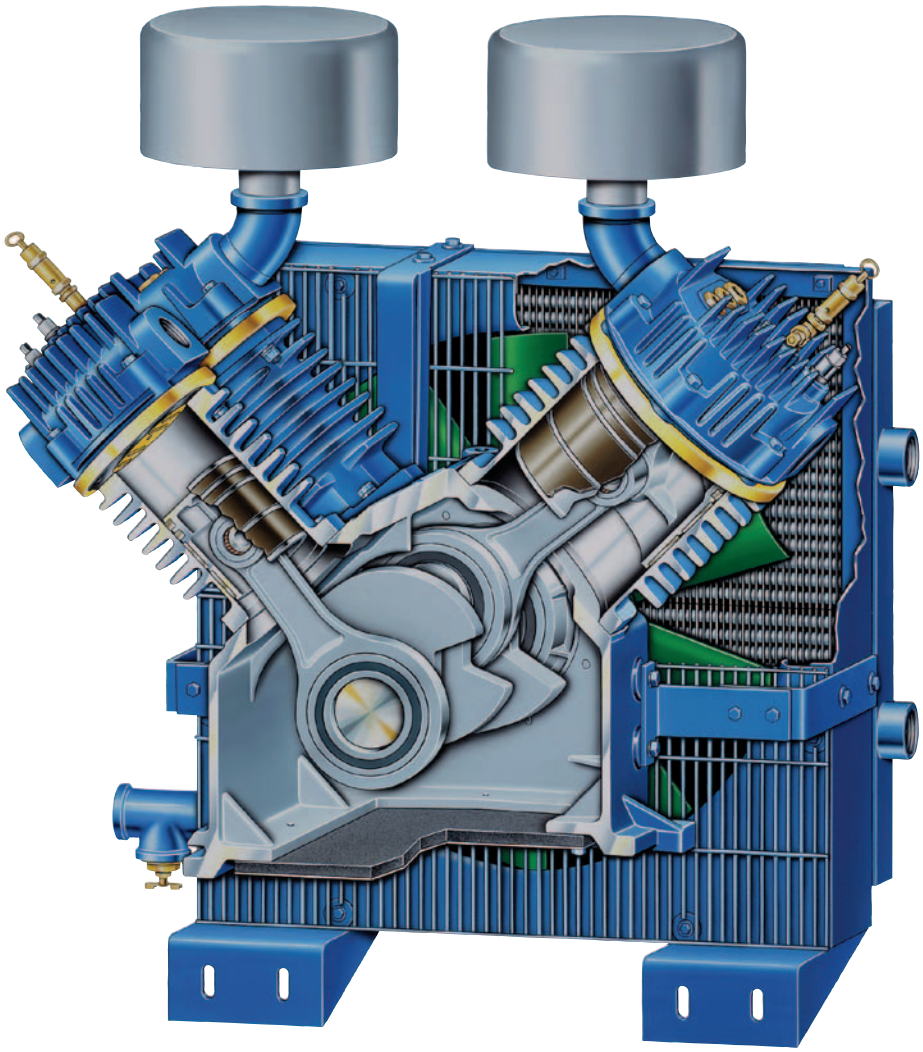
STANDARD FEATURES, TANK MOUNTED UNITS

- ASME receiver (Cal OSHA 462-M approved)
- ASME coded pressure relief valve
- Manual tank drain and service valve

OPTIONS

- 200, 230, and 460 volt magnetic starter panel
- TEFC motor
- Intake mufflers
- Isolation pads
- Electric tank drain
- Galvanized receivers
- NEMA 4 controls
- Automatic alternating duplex control panel

QRDT-30 Base Mount



MAINTENANCE SCHEDULES (Factory Packages Only)

The QRDT compressor is designed for maintenance-free operation for three years or the following hours of operation when operated at the listed maximum pressures:

100 PSIG ..... 10,000 Hours
125 PSIG ..... 8,000 Hours
150 PSIG ..... 6,000 Hours

This maintenance schedule applies to the compression and rider rings, low-pressure and high pressure wrist pins, connecting rods and main shaft sealed bearings, and the valve assemblies.

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Must be used with proper filtration for breathing air applications to meet OSHA 29CFR1910.134 or FDA 21 CFR178.3570.

OIL-LESS COMPRESSORS

QUINCY QRDT - TWO-STAGE SPECIFICATIONS

Model No.	HP	No. of Cylinders	Bore & Stroke (Inches)	CFM FAD/RPM 100 PSIG	CFM FAD/RPM 125 PSIG	CFM FAD/RPM 150 PSIG	Weight (lbs)
QRDT-7.5	5	2	5.25x4.00x2.375	19/731	17/676	16/621	295
QRDT-7.5	7.5	2	5.25x4.00x2.375	25/1005	24/950	22/895	295
QRDT-15	10	3	5.25 x 4.00 x 2.375	38/780	37/780	37/757	450
QRDT-15	15	3	5.25 x 4.00 x 2.375	50/1020	50/1020	50/1020	450
QRDT-30	20	4	7.12 x 4.00 x 3.00	81.5/705	79/705	72/645	735
QRDT-30	25	4	7.12 x 4.00 x 3.00	100/870	92/825	87/780	735
QRDT-30	30	4	7.12 x 4.00 x 3.00	115/1020	104/930	100/903	735

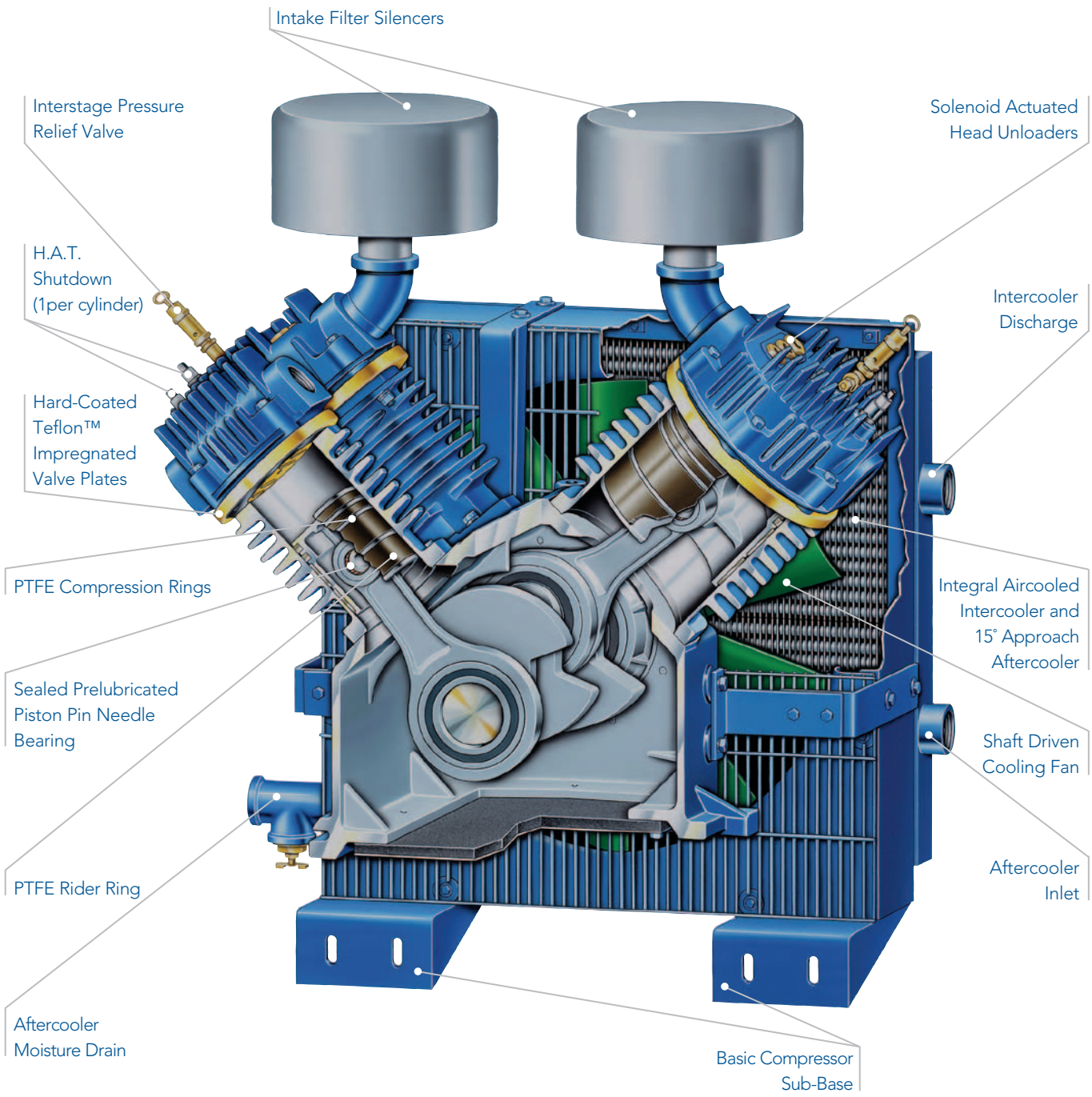
All performance data meets CAGI/PNEUROP PN2CPTC2 acceptance test codes for electrically packaged displacement air compressors.

QUINCY QRDT – TWO-STAGE DIMENSIONAL INFORMATION

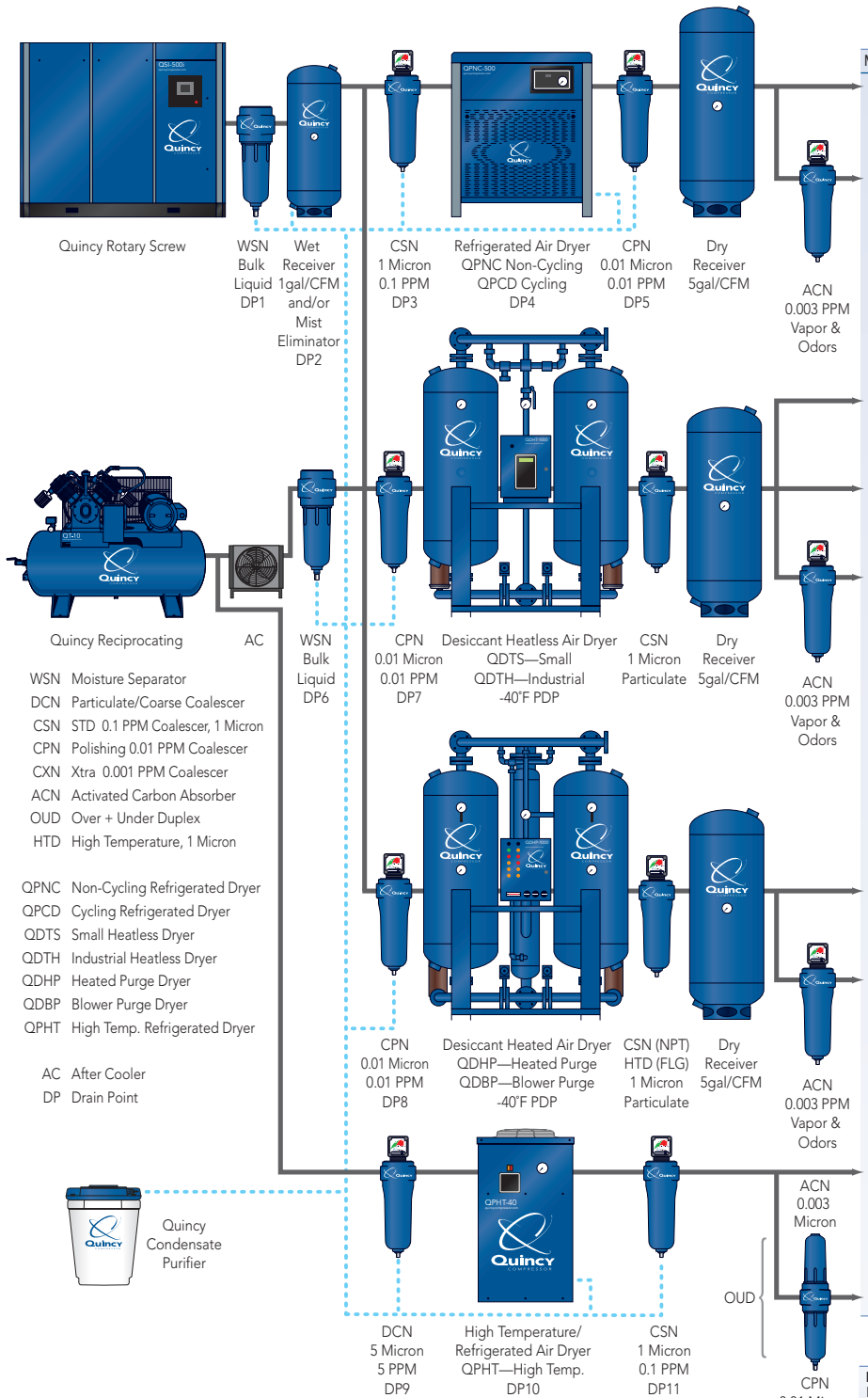
HP	Height (in)	Width (in)	Length** (in)	Weight* (lbs)
Base Mount				
5	28.13	28.44	49.16	680
7.5	28.13	28.44	49.16	690
10	33.91	30.25	51.06	840
15	33.91	30.25	51.06	925
20	41.79	43.47	62.00	1295
25	41.79	43.47	62.00	1400
30	41.79	43.47	62.00	1440
Simplex 80 Gallon Tank Mount				
5	46.89	26.65	67.58	860
7.5	46.89	26.65	67.58	870
Simplex 120 Gallon Tank Mount				
10	61.41	31.38	73.07	1290
15	61.41	31.38	73.07	1375
Simplex 200 Gallon Tank Mount				
20	75.29	43.47	77.0	1980
25	75.29	43.47	77.0	2085
30	75.29	43.47	77.0	2125
Duplex 120 Gallon Tank Mount				
5	55.63	52.34	72.07	2550
7.5	55.63	52.34	72.07	2565
Duplex 240 Gallon Tank Mount				
10	67.41	54.95	81.38	2790
15	67.41	54.95	81.83	2960

Approximate dimensions in inches.
* Weights will vary with optional equipment.
** Length includes 1" NPT ball valve.

QRDT - FOUR CYLINDER CUTAWAY



COMPRESSED AIR SYSTEMS BEST PRACTICE



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
OUD 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

AC After Cooler
DP Drain Point

Air Quality Classification ISO 8573.1						Wet System Avg. DP	
Solids		Moisture		Oil			
Micron	ISO	PDP	ISO	PPM	ISO	psi	Mbar
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
NOTE: Requires CXN (.001 PPM) filter in series with standard CPN prefilter.							
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		

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

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