



Oil-Free Compressors

Quincy QOF Series | Oil-Free | Air Compressors | QOF 2-30 HP



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

Pure Oil-Free Air.

As there is no metal-to-metal contact between the compression scrolls, there is no need for oil lubrication in the compression chamber. Therefore, the scroll compression principle guarantees high-quality, oil-free air. As a result, the QOF compressor is oil-free in every way.

Energy Efficiency.

The QOF scroll compressors, standard equipped with IE3 Premium efficiency motors, are suited for sensitive applications which require flexibility and energy efficiency. Unloaded power consumption is eliminated thanks to the simple start/stop control. Advanced scroll technology guarantees an optimal free air delivery and low duty cycle applications.

Extremely Low Noise Level.

The slow speed of the scroll compression elements ensures that the QOF scroll compressors are extremely quiet. Sound levels are as low as 53 dB(a), making the QOF the perfect choice for your sensitive working environment.

Simplicity And Reliability.

The QOF scroll compressors stand for simplicity and reliability. The compressor has a minimal number of moving parts, ensuring a long operating life with limited service interventions. With their integrated design, Quincy Compressor's QOF scroll compressors have a minimal footprint and offer easy serviceability.

Proven Peace of Mind.

Since 1924, Quincy Compressor has been leading the industry in compressed air technology, drawing on vast experience and continuous technological innovations. You can rest assured at all times: severe certification and testing procedures are conducted to ensure air is supplied to the highest standards of quality control.

QOF 2-30 Oil-Free Series

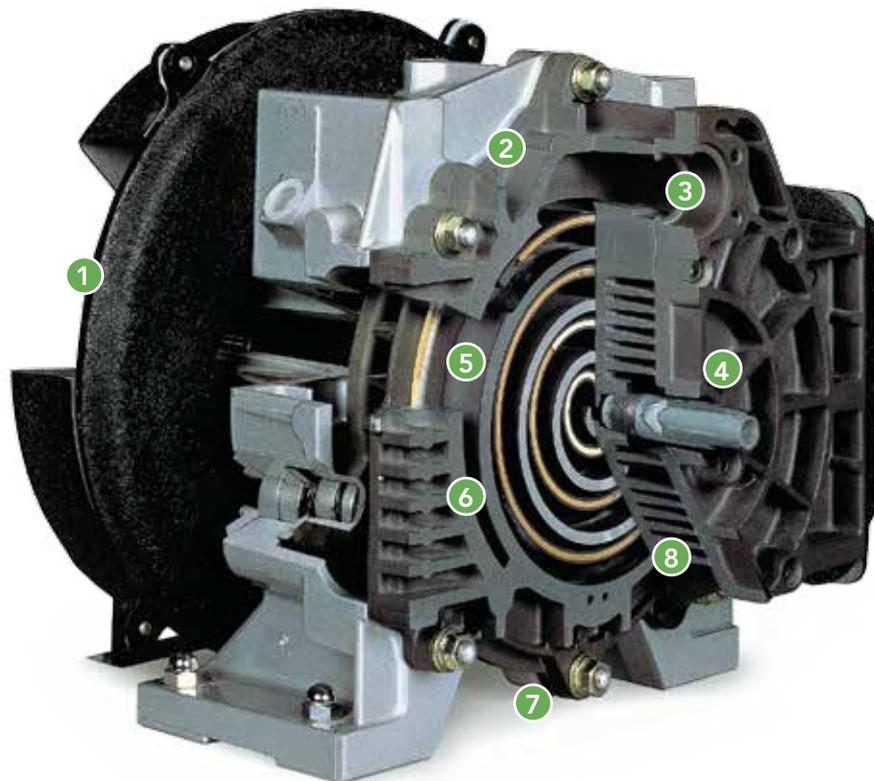
Oil-Free Compressors

Industries such as pharmaceuticals, biotech, lab/research, food and beverage, electronics and textiles cannot risk any chance of oil contamination in their processes. Therefore, it is essential that the compressed air is 100% oil-free. The standard is ISO 8573-1 (2010) certification, in which Class Zero represents the highest air purity. It is the only way to ensure oil-free air for critical processes and your peace of mind.

Outstanding reliability, low maintenance and operating costs make oil-free compressors a sound investment.

Scroll Technology: How Does It Work?

Air compression is achieved through the orbital motion of two spirals. One stationary, the second mobile, their interaction pulls the air into the compression chamber. In a regular and continuous way, the mobile spiral compresses the air through a reduction of the volume. The air flow is directed to the center of the spiral after which it is cooled. As the spirals never make any contact, this compression process does not require any lubrication. Consequently, the QOF series compressors guarantee 100% oil-free compressed air.



- | | | | |
|---|------------------|---|------------------------------|
| 1 | Cooling fan | 5 | Fixed scroll |
| 2 | Suction chamber | 6 | Orbiting scroll |
| 3 | Suction opening | 7 | Fail-safe temperature sensor |
| 4 | Delivery opening | 8 | Compression chamber |

QOF 2-30 Oil-Free Series

The Power of the Oil-Free Range

The QOF 2-30 oil free scroll compressors provide high-quality air for critical applications in a wide range of industries. The QOF 2-30 range also provides top class performance, premium efficiency and quality. Oil-free compressors also reduce your total cost of ownership in three ways: (1) allows you to avoid purchasing expensive filter replacements, (2) cutting maintenance costs for by treating oil condensate and (3) extra energy costs are eliminated to combat pressure drop across filters.

Performance

- Pressure rating 116 to 145 PSI
- Output from 4 to 86.5 CFM
- Sound levels as low as 53 dBA

Efficiency

- Built-in dryer to reduce downstream pressure drop (optional)
- Latest compression technology
- High-efficiency IE3 motor standard

Quality

- ISO 8573-1 Class Zero certified quality air
- Corrosion resistant materials
- Identification & logging of shutdowns
- Service schedule adjustment
- Extremely low vibration

Class Zero: Eliminating Any Risk

Class Zero represents the best air quality possible. In critical environments, it is essential that the compressed air is 100% oil-free. Contamination by even the smallest quantities of oil can cause costly production down time and product spoilage, resulting in product recalls and loss of reputation.



Class*	Concentration total oil (aerosol, liquid, vapor) mg/m ³
0	As specified by the equipment user or supplier and more stringent than class 1
1	≤ 0.01
2	≤ 0.1
3	≤ 1.0
4	≤ 5.0

One Package - Multiple Benefits

The innovative features of the QOF 2-30 range provide you with maximized efficiency, excellent air quality and low noise levels.

State-of-the-Art Element

- Highly efficient profile
- Robust, reliable design and easy access for service

High Efficiency Motor

- High efficiency IE3/NEMA Premium motors standard
- Totally enclosed air-cooled IP55 class F motor for heavy duty operation

Cool Canopy

- Increased ventilation due to vertical design
- Lower outlet temperatures
- Oversized cooler improving performance
- Improved canopy design: better dryer performance and easy access

Optional Integrated Dryer

- Integrated package reduces foot print, maintenance and installation cost
- Designed to guarantee a constant pressure dew point of +37°F
- Ensures delivery of dry high-quality air

Options to Maximize Operations

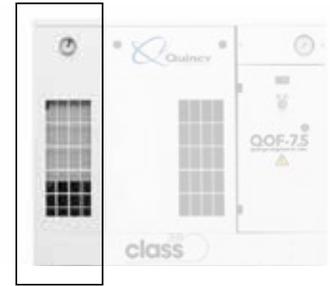
A wide range of options enables you to get the most out of your QOF compressor.

General Options (QOF 2-7.5)

- Tank-mounted solution
- 70 gallon

Air Quality Options (QOF 2-7.5)

- Integrated refrigerant dryer



Integrated dryer reduces footprint



Vertical design increases ventilation

QOF-20 (4 Modules) Variable Air Delivery

Modules	Output (CFM at 145 PSI)			
	12.5	25	37.5	50
1 module	x			
2 modules	x	x		
3 modules	x	x	x	
4 modules	x	x	x	x

QOF 2-30 Dimensional Technical Data

Model	Length	Width	Height
QOF 2-7.5 FM	30	26	33
QOF 2-7.5 FMD	40	26	33
QOF 2-7.5 TM & TMD	48	26	57
QOF 10-15 FM & FMD	67	30	48
QOF 20-30 FM & FMD	67	30	73
FM= Floor Mount	FMD = Floor Mount Dryer	TM = Tank Mount	TMD = Tank Mount Dryer
		70 Gallon	70 Gallon

Control & Monitoring

The QOF range comes with a wide variety of control and monitoring features that allows an increase in the compressor's efficiency and reliability. The QOF 2-7.5 compressors are equipped with gauge controls which automatically starts/stops the unit when the required working pressure is reached. A Graphic Controller is included in the QOF 10-30 series.

Intelligent Graphic Controller QOF 10-30

The multiple control and monitoring features of the controller on the QOF 10-30 units dramatically increase the compressors' efficiency and reliability. Efficiency is maximized by controlling the main drive motor and regulating the system pressure within a pre-defined and narrow pressure band.

- Warning indications
- Graphical indication service plan
- Integrated sequence for up to 6 compressors limiting the energy consumption and equalizing running hours across your whole system
- Online visualization of running conditions

Variable Air Delivery

The QOF 10-30 units are equipped with multiple scroll modules. The units utilize Variable Air Delivery technology which controls the requested number of modules depending on your air demand. This technology allows the QOF 10-30 to be able to adjust to demand fluctuations.

The intelligent controller prevents simultaneous start of the modules and ensures a very narrow pressure band is maintained. This optimizes the efficiency of the compressor and guarantees a very stable system pressure.



Quincy QOF-7.5 shown

QOF 2-30 Technical Data

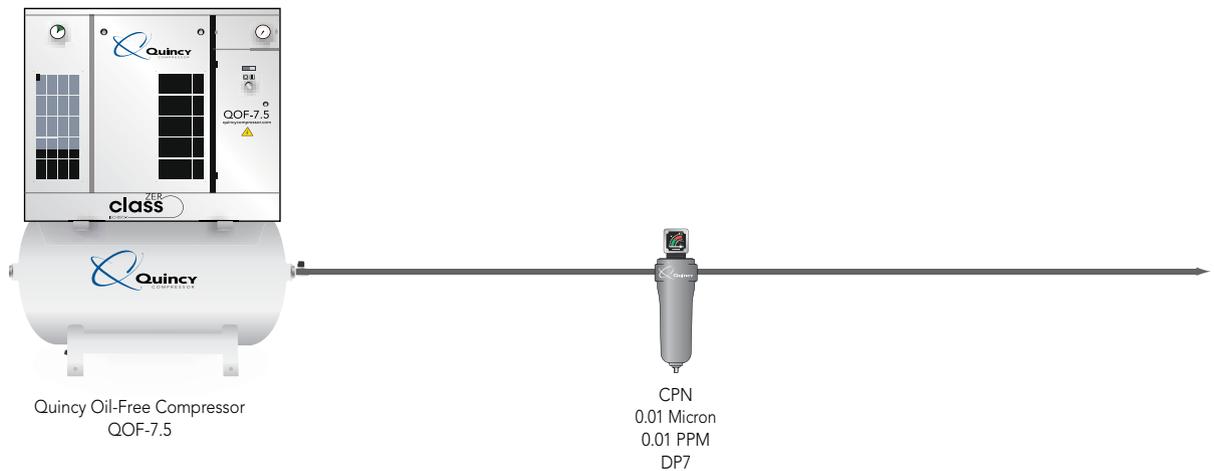
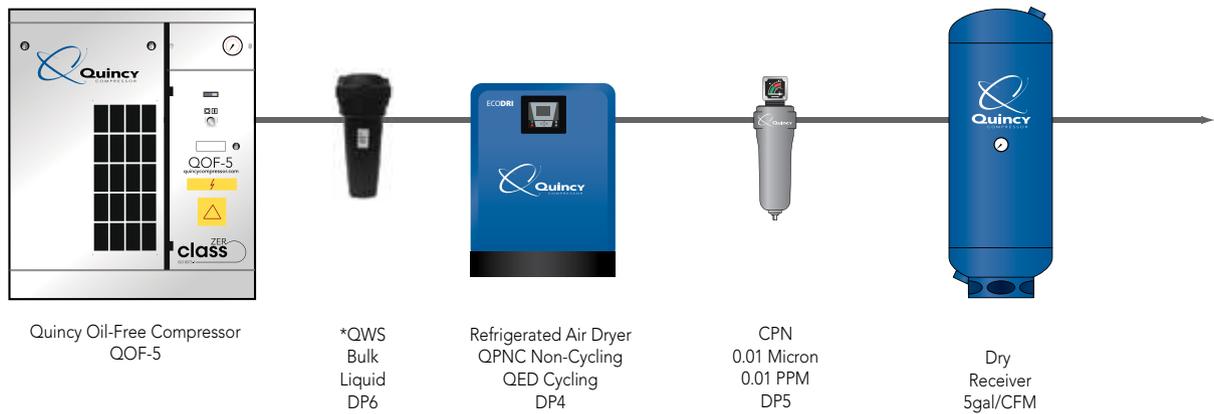
Model	Capacity (CFM)	Pressure (PSIG)	Motor Power (HP)	Sound (dBA)	Weight (lbs)
QOF-2	6.1	116	2	53	265
	4.0	145	2	53	265
QOF-3	8.9	116	3	55	276
	7.2	145	3	55	276
QOF-5	14.2	116	5	57	293
	12.5	145	5	57	293
QOF-7.5	20.8	116	7.5	59	346
	16.1	145	7.5	59	346
QOF-10	28.4	116	2x5	63	818
	24.2	145	2x5	63	818
QOF-15	43.0	116	2x7.5	63	922
	31.8	145	2x7.5	63	922
QOF-20	55.9	116	4x5	63	1279
	48.7	145	4x5	63	1279
QOF-22	65.7	116	3x7.5	64	1263
	50.2	145	3x7.5	64	1263
QOF-30	86.5	116	4x7.5	65	1512
	63.6	145	4x7.5	65	1512

*Weight based on floor mounted units without integrated dryer
NOTE: Shipping weights can vary based on unit configuration and packaging.

Oil-Free Systems Best Practice

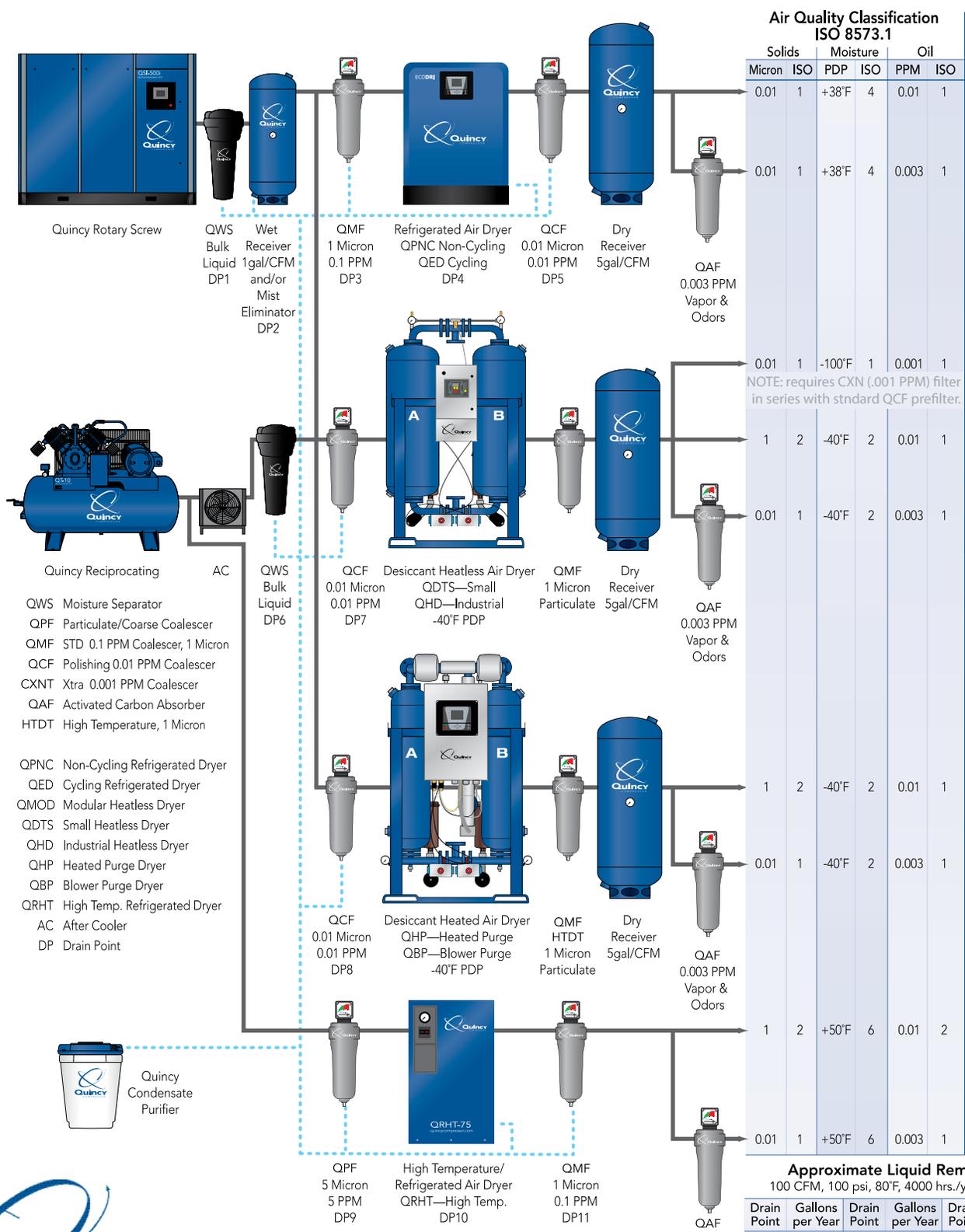
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contact, this compression process does not require any lubrication. Consequently, the QOF series compressors guarantee 100% oil-free compressed air. System requirements vary by application. The diagram below represents the best practice system installation for optimal clean air delivery to the point of use.



*WSN recommended for non-dryer units only

Compressed Air Systems Best Practice



Air Quality Classification ISO 8573.1

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



Performance You Demand. Reliability You Trust.™

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