



Performance You Demand. Reliability You Trust.

Quincy QGDP/OGVP



QUINCY QGDP/QGVP SERIES

Rotary Screw Air Compressors 30-250kW

QUINCY QGD/QGV LP SERIES

Rotary Screw Air Compressors 55-280kW

Quincy QGDP/QGVP 30-250kW



THE SCIENCE OF COMPRESSED AIR

Quincy QGDP/QGVP – The more competitive technology in the world

- Superior Energy Savings Capability
- High Reliability
- Quiet Operation
- Able To Satisfy Your Air Demand Requirements



QUINCY'S COMMITMENT TO EFFICIENT & COMPETITIVE INDUSTRY

Since 1920, Quincy Compressor has continuously strived to provide the industry with a competitive advantage. The new range of gear-driven Quincy QGDP/QGVP compressors is representative of our promise to deliver a product that enhances efficiency and productivity. Advanced research, refined production technology and cutting edge design philosophies have led Quincy Compressor to become the partner of choice of various industries adding value to their business.

QUIET OPERATION

The QGDP/QGVP series is aesthetically designed for the global market. With an integrated one – piece baseplate, installation is simple and convenient. The centrifugal fan cooling system is quiet and efficient. A totally enclosed design using purpose-suited sound absorption material lowers operating sound levels to the lowest.

Optimized system design fully considers air circulation within the enclosure and the temperature field distribution, hence effectively controlling the temperature rise within the enclosure.

HIGHER BENEFIT-COST RATIO

The QGDP/QGVP has been engineered to provide the higher possible return on your investment. The more effective components were selected, and then carefully matched to ensure each component is operating at its optimum and in harmony with one another. The result is a cost effective and efficient system with low ownership cost and longer design life possible. The performance you require - without the price tag - is easy when you know how.



NASA Partner

“...we are very satisfied with the performance and reliability of Quincy air compressors. These units are highly efficient and deliver the clean, dry air essential for Space Shuttle launch support.”

— Ronald L. Dorff
Supervisor, Pneumatic System
Lockheed Space Operation Company

Quincy Compressor—compressed air supplier of NASA

SAVE ENERGY, SAVE COST

The Quincy QGVP compressor family is engineered to deliver the lower Total Cost of Ownership (TCO) among compressors in their class. Variable Speed Drive operation, along with Quincy's efficient airend design, ensures that overall energy consumption is minimized.

Turndown capability as much as 80% ensures optimum efficiency, letting the QGVP act as the trim compressor in all production conditions. Compressors can run with auto-dual control model or network model to provide the stable air demand.



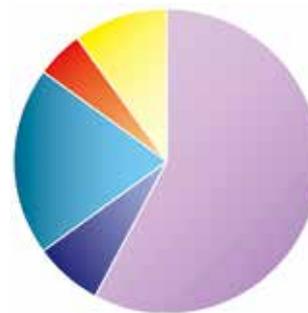
DOWNSTREAM PRESSURE SIGNAL PROVIDES STABLE PRESSURE

System pressure has a major impact on energy consumption, and the QGVP is designed to provide the more stable pressure available from a compressor. Quincy's downstream signal option allows the compressor to react immediately to pressure changes close to the point of use, eliminating the lag often created by air treatment equipment pressure drop.

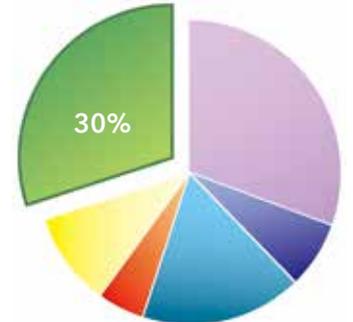
Typical Ten Year Life Cycle Cost



Fixed Speed Rotary



Quincy QGVP



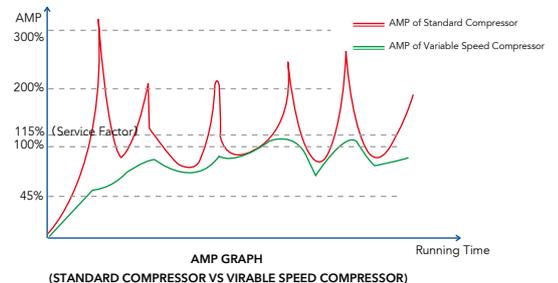
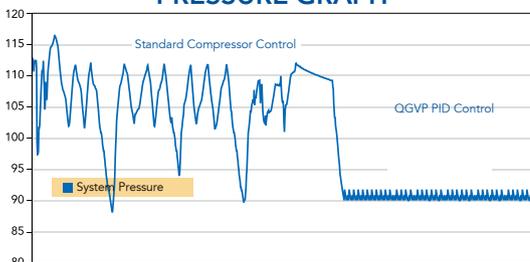
SOFT-START MODE ELIMINATES CURRENT PEAKS PENALTIES

QGVP's soft-start mode eliminates current peak penalties during starting and allows unlimited startstops. You also save on electrical installations-smaller breakers, fuses, transformers and cables.

LOW DEMAND MODE ELIMINATES UNLOADED POWER

The Quincy QGVP Low Demand Mode allows the system pressure to rise above the setpoint prior to stopping the compressor when demand drops below its turndown capability. This prevents system pressure from dropping below acceptable levels, and the QGVP never runs unloaded. Allowing the pressure to rise also allows other compressors in the network to be turned off when demand is low.

PRESSURE GRAPH



Quincy QGDP/QGVP 30-250kW



Specially designed fluid/air separator element ensures oil carryover ≤ 3 ppm.



The finned efficient cooler with a separated fan ensures reliable operation in ambient temperatures as high as 46°C. Aftercooler approach temperature does not exceed environment temperature 10°C. 30-75kW units use the centrifugal fans, which efficiency is higher and the noise level is lower.



QuinSyn complete line of synthetic fluids for effective cooling. QuinSyn fluids have a rated life of up to 8000 hours.



Positive closure inlet valve eliminates current peak penalties during start up.



Air inlet filter with low pressure drop reduces air suction noise level effectively. The filtration efficiency of 3 μ m particles can reach 99.9%.



Quincy high efficiency glass microfiber fluid filter provides absolute airend protection.



Wye-Delta reduced voltage starter uses Schneider Siemens components.



Airlogic® intelligent control provides a rugged and reliable platform.



Efficient and reliable airend comes with standard two-year warranty. Flange connecting the motor and airend keeps permanent shaft alignment. 5-year warranty option for the airend provides a stronger quality guarantee.



Rugged Motor, Standard IP54, The optimized air circulation and temperature field distribution within the enclosure ensure the motor receives sufficient cooling.



Frequency converter (QSV series) can realize vector continuously variable frequency. Wide FAD adjustment range from 20% to 100% is a higher efficiency energy saving design.

Quincy QGDP/QGVP 30-250kW



Airlogic® INTELLIGENT CONTROL(Standard)

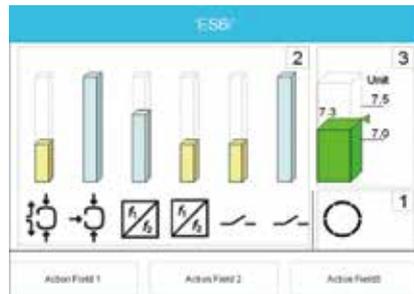
The Quincy QGD/QGV series comes with an Airlogic® intelligent control system. It is a control platform you can trust to provide reliable operation under the harshest of industrial ambient conditions. The Airlogic® intelligent control comes with an LCD display, has a user-friendly interface and is easy to operate.

The Airlogic® intelligent control provides different capacity control mode options for higher efficiency: local control, remote control and network control.

In the local control mode, when the pressure rises above the full load pressure setting, the compressor starts to modulate in response to unload and a shutdown timer will start. If there is no system demand for a preset waiting period, the compressor will shut down the main drive motor and, on aircooled units, the fan motor. The compressor goes into a “stand-by” mode to conserve energy and continues to monitor system pressure. As soon as the system pressure drops, the controls will react by restarting the compressor. In the remote control mode, the compressor will be allowed to start and/or stop by remote monitor. Network mode can operate up to 6 units of QGD/QGV in a single network. Each compressor is working in the standard local control mode and coordinating with one another to satisfy system demand according to load requirements. Each compressor starts/ stops, hence entering or leaving the network sequentially according to its preset network ID.

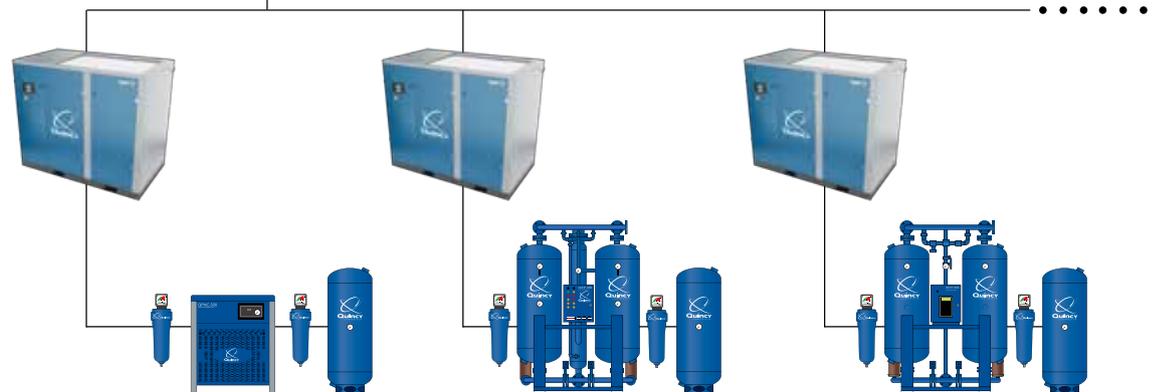
Airlogic® intelligent control provides a powerful and comprehensive control capability and is your full time preventive maintenance, compressed air and energy manager for your production facility:

- Logic control of dryer is possible
- Wye-Delta reduced voltage starter
- Compressor capacity control options
- System date and time display
- Fault alarm displays
- Time to service programmed and display
- Local control with shutdown timer and programmed shutdown
- Operating and alarm parameters specified and password protected
- Multiple machine network control ID assigned
- Total running and loaded hours of operation display
- Operating pressure and temperature display
- Auto restart with programmed time delay
- Fault alarm log registers timings and errors



ES NETWORK SYSTEM (OPTION)

- Monitor compressors data and working state.
- Auto restart or shutdown the compressor according to customer system demand. Save more energy.
- Balance compressors running time.



PLC INTELLIGENT CONTROL(OPTION)

The Quincy QGDP/QGVP series comes with a PLC intelligent control system. Using the SIEMENS S7 series industrial PLC, it is a control platform you can trust to provide reliable operation under the harshest of industrial ambient conditions. The PLC intelligent control comes with a LCD display, has a user-friendly interface and is easy to operate.

The PLC intelligent control provides different capacity control mode options for higher efficiency: auto-dual control, continuous run control and network control.

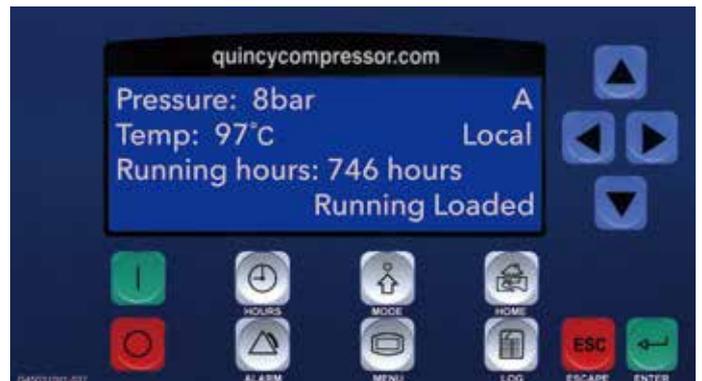
In the auto-dual mode, when the pressure rises above the full load pressure setting, the compressor starts to modulate in response to system demand. If pressure continues to rise above the unload pressure setting, the compressor unloads and a shutdown timer will start. If there is no system demand for a preset waiting period, the compressor will shut down the main drive motor and, on air-cooled units, the fan motor. The compressor goes into a "stand-by" mode to conserve energy and continues to monitor system pressure. As soon as the system pressure drops, the controls will react by restarting the compressor.

In the continuous run mode, the compressor will load, unload and modulate according to system demand, but the compressor does not enter the "stand-by" mode and shut down. This control method prevents excessive restarting and extends the motor life in certain applications.

Network mode can operate up to 6 units of QGDP/QGVP in a single network. Each compressor is working in the standard auto-dual mode and coordinating with one another to satisfy system demand according to load requirements. Each compressor starts/stops, hence entering or leaving the network sequentially according to its preset network ID.

PLC intelligent control provides a powerful and comprehensive control capability and is your full time preventive maintenance, compressed air and energy manager for your production facility:

- Logic control of dryer is possible
- Wye-Delta reduced voltage starter
- Compressor capacity control options
- Multiple machine network control ID assigned
- System date and time display
- Total running and loaded hours of operation display
- Operating pressure and temperature display
- Time to service programmed and display
- Fault alarm displays
- Auto-dual control with shutdown timer and programmed shutdown
- Auto restart with programmed time delay
- Fault alarm log registers timings and errors
- Operating and alarm parameters specified and password protected



Standard industrial PLC means it is expandable and easy for compressors to communicate with your plant's network. The PLC control supports Profibus protocol and is able to communicate with your DCS system via the Profibus-DP communication module, hence integrating the compressor controls into your DCS system for remote monitoring.



Quincy QGD/QGV 30-250kW Technical Data

Model	Motor Power kW	Capacity(m ³ /min)				Dimension(mm) Air cooling / Water cooling			Noise dB(A)	Weight Air cooling / Water cooling kg
		7bar	8bar	10bar	13bar	Length	Width	Height		
QGD30P	30	5.89	5.52	5.02	4.20	1720	980	1600	65±2	820
QGD37P	37	7.15	6.65	6.13	5.09	1720	980	1600	66±2	850
QGD45P	45	8.40	8.36	7.80	6.24	1720	980	1600	66±2	910
QGD55P	55	11.05	10.35	9.22	7.91	2260	1060	1600	69±2	1460
QGD65P	65	13.00	12.64	10.95	9.09	2260	1060	1600	69±2	1500
QGD75P	75	14.85	14.05	12.55	10.55	2260	1060	1600	70±2	1535
QGD110P	110	22.0	20.7	18.4	15.6	2845	1750	2100 / 1930	76±2	3240 / 3140
QGD132P	132	26.6	25.0	22.0	19.0	2845	1750	2100 / 1930	76±2	3300 / 3200
QGD200P	200	39.8	37.4	33.8	28.3	4800 / 3600	2140	2250	79±2	5325 / 4890
QGD250P	250	48.4	44.5	41.5	--	4800 / 3600	2140	2250	79±2	5895 / 5460
QGV30P	30	1.18-5.89	1.10-5.52	1.00-5.02	0.84-4.20	1720	980	1600	65±2	860
QGV37P	37	1.43-7.15	1.33-6.65	1.23-6.13	1.02-5.09	1720	980	1600	66±2	890
QGV45P	45	1.68-8.40	1.67-8.36	1.56-7.80	1.25-6.24	1720	980	1600	66±2	950
QGV55P	55	2.21-11.05	2.07-10.35	1.84-9.22	1.58-7.91	2260	1060	1600	70±2	1540
QGV65P	65	2.60-13.00	2.52-12.60	2.20-11.00	1.82-9.10	2260	1060	1600	70±2	1580
QGV75P	75	2.97-14.85	2.81-14.05	2.51-12.55	2.11-10.55	2260	1060	1600	71±2	1610
QGV110P	110	6.6-22.0	6.2-20.7	5.5-18.4	4.7-15.6	2845	1750	2100 / 1930	76±2	3580 / 3380
QGV132P	132	8.0-26.6	7.5-25.0	6.6-22.0	5.7-19.0	2845	1750	2100 / 1930	76±2	3580 / 3380
QGV200P	200	12.0-39.8	11.2-37.4	10.1-33.8	8.5-28.3	4800 / 3600	2140	2250	79±2	5525 / 5090
QGV250P	250	14.5-48.4	13.4-44.5	12.5-41.5	--	4800 / 3600	2140	2250	79±2	6095 / 5660

Note: 1. Capacity rated in accordance with GB3853 (Annex C to ISO 1217)

2. The convertor cabinet of QGVP200-250 is not integrated with compressor. Dimension: 800L x 800W x 2200H (mm)

STANDARD QUALITY FEATURES DELIVER VALUABLE BENEFITS

- Heavy-duty steel-based frame, totally enclosed, low sound acoustical enclosure
- Positive closure inlet valve
- Siemens / Schneider electric components
- Full flow spin-on oil filter
- Direct driven, permanent shaft alignment
- AirLogic® intelligent control system
- 380V/3P/50Hz IP54 motor
- Centrifugal fan (30-75kW)
- High efficiency water separator(110-250kW)

PROTECTIVE DEVICES

- Emergency stop button
- Fault alarm shutdown
- High pressure relief valve

OPTIONS

- ES network system
- Remote monitor system
- PLC Controller



Quincy QGD LP 55-280KW

Specially Designed Low Pressure Compressor, Energy Saving Leader

It will cause the great electrical waste that using normal pressure compressors when the required pressure is 0.3-0.5 Mpa. Specialized low pressure compressors can increase the FAD substantially with the same motor power. Accordingly, more than 20% electrical energy can be saved. Low pressure compressors specially designed by Quincy fulfil your compressed air requirement at low pressure and reduce your operation cost.



Quincy QGD LP 55-280kW Technical Data

Model	Pressure	Motor Power	Capacity	Dimension(mm)			Noise	Weight
	bar			kW	m ³ /min	Length		
QGD55LP-3	3	55	14.8	2240	1230	1594	72±2	1600
QGD65LP-3	3	65	16	2240	1230	1594	72±2	1700
QGD75LP-3	3	75	16.6	2240	1230	1594	72±2	1800
QGD90LP-3	3	90	25	2850	1650	1983	76±2	3400
QGD110LP-3	3	110	30	2850	1650	1983	76±2	3500
QGD132LP-3	3	132	35	2850	1650	1983	76±2	3600

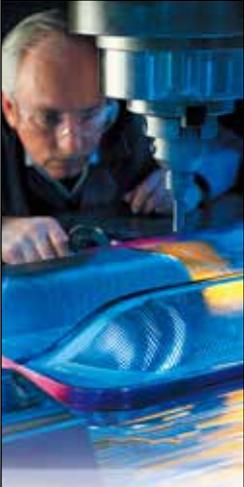
Model	Pressure	Motor Power	Capacity	Dimension(mm)			Noise	Weight
	bar			kW	m ³ /min	Length		
QGD55LP-5	5	55	13	2249	1304	1470	72±2	1500
QGD75LP-5	5	75	17	2466	1384	1600	72±2	2000
QGD90LP-5	5	90	19.7	2430	1600	2120	76±2	2250
QGD110LP-5	5	110	23.6	2430	1600	2120	76±2	2500
QGD132LP-5	5	132	28.5	2800	1650	2010	76±2	3400
QGD160LP-5	5	160	35	2800	1650	2010	77±2	3450
QGD180LP-5	5	180	39.7	3525	2135	2350	80±2	4250
QGD200LP-5	5	220	43	3525	2135	2350	80±2	5350
QGD250LP-5	5	250	53.5	3525	2135	2350	80±2	6500
QGD280LP-5	5	280	61	5500	2135	2350	81±2	8150

Note: Capacity rated in accordance with GB3853 (Annex C to ISO 1217)

Quincy QGDP/QGVP 30-250kW



Performance You Demand. Reliability You Trust.



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. Reliability is about confidence, performance, and trust – every day.



QUINSYN® FLUIDS

Quincy's complete line of synthetic fluids are blended specifically for Quincy's rotary screw compressors. Quincy offers the following fluids as factory fill.

QuinSyn-Plus® is a blended PAO/Ester fluid that is highly varnish resistant and is completely demulsible with water. QuinSyn-Plus has excellent natural lubricity and has a low carry-over rate. QuinSynplus is a standard factory fill fluid and offers the following benefits:

1. Varnish-free operation
2. High viscosity index
3. Excellent corrosion protection
4. Water holding capability
5. Efficient cooling



See how Quincy Compressor can work for you:

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