



Performance You Demand. Reliability You Trust.

Quincy QGF/QGFV PM



Quincy QGF Series
Screw Air Compressor 5.5-75kW

Quincy QGFV PM Series
Permanent Magnet Frequency Conversion Screw
Air Compressor 11-37kW

Compressed Air Science

Quincy QGF/QGFV PM – Globally competitive high technology products

- | Outstanding energy-saving design; meets national energy-saving standard
- | Efficient, safe, reliable and long service life
- | Compact structure and silent operation
- | New generation permanent frequency conversion design; wide speed adjustable range; leading technology

Effectively improve industrial efficiency and competitiveness

Quincy compressor has been making every effort to improve competitiveness of all industries since 1920. The brand new Quincy products reflect our promise to improve efficiency and control productivity cost for you. Advanced research, superb manufacturing technique and leading design concept make Quincy become a high added-value partner needed by all industries in the global economy.

Optimal performance

You need to focus on both initial investment of equipment and total operating cost when considering higher cost performance. Quincy QGF/QGFV PM series products provide you with the most economical maintenance and operation cost. The design service life of element of new generation compressor is 300,000 hours, meaning better performance and longer service life. Patent modular design enables simple installation, ensures difficulty in leaking. The design of internal structure is for the purpose of simple and easy maintenance. The permanent magnet frequency conversion technology is close to the customer's demand and is able to remarkably reduce energy consumption. Quincy QGF/QGFV PM series products allow more efficient work and greatly reduce maintenance and operation cost.

Silent Design

Integrated single pedestal design with easy and simple installation; totally-enclosed housing design; special damping material to control noise to lowest level.

The distribution of both airflow and temperature field inside the housing has been considered in the optimized system design for effectively controlling temperature rise in the housing.



QGFV-PM Series



QGF Series



Partner of NASA

We were very satisfied with remarkable performance and high reliability of Quincy air compressor. They provided us with clean and dry compressed air, which was vital to success of launching a space shuttle.

By Ronald L Dolph (Chief Officer of Pneumatic System of Lockheed Corporation)

Quincy Compressor – Compressed air supplier of NASA

Quincy high precision fiberglass filter elaborately protects the element.

The exquisitely designed oil-air separation filter ensures oil content of compressed air less than 3ppm. The external rotating filter element enables easier maintenance.

7-inch all touch controller (PM series) monitors the real time operating state of equipment, provides multiple protection and early alarm and cooperates with customers for central control.

Standardized electrical control design; rational and clear wiring for easy maintenance; electrical components of international brands to guarantee quality

Closed-loop control system; frequency converter to directly control the motor; accurate control of air flow; more stable startup and operation; efficient and energy-saving



Quincy QGF/QGFV PM – Features of whole series products

- | Compact structure and plug-and-play feature enable more flexible installation and maintenance.
- | Modular design saves space, reduces pipe connection, pressure drop loss and leakage risk.
- | Stable and reliable load-unload inlet valves pass the endurance test of 2.5 million cycles.
- | Bigger cooler is used to increase heat exchange area. Keep the cooler upright to the benefit of repair and cleaning.
- | IP54 (power frequency) protection grade and Grade F insulation guarantee operation in poor working conditions.
- | Standard configuration of intelligent control system and communication port; options of 7-inch all touch controller and remote monitoring

Flange connection of rigid tube works together with European standard high temperature and high pressure resistant hose and O-ring. Structure of stable rigidity design eliminates leakage risk.

The standard configuration of heavy duty air compressor has small pressure loss, effectively reduces suction noise, removing 99.9% 3 μ dust and ensures stable and



Pre-filtration protection to prevent dust entering the housing, to protect clean operation of element and cooler and to avoid high temperature risk

Brand new efficient element and inlet valve enables stable and durable operation, lower pressure drop and higher efficiency.

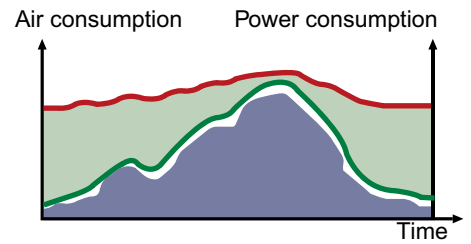
PM series efficient permanent magnet synchronous motor has features of 1:1 direct driven, independent motor cooling, 180° demagnetization temperature, IP55 protection grade and Grade 1 motor efficiency

Typical Features of QGFV PM Series Products

- | The wholly new compressor element is specially designed for the width adjustable speed range of the permanent magnet technology. There is no resonance and frequency hopping at full rotation speed range, that is the real full variable speed control..
- | Split drive system is more stable, more mature and more convenient for maintenance.
- | Closed-loop frequency conversion control system is able to quickly respond to pressure change of system, maintain stable pressure for the system and effectively save energy.
- | Standard configuration of 7-inch all touch controller provides real time message transmission and realizes big data management.

Permanent magnet frequency conversion, energy saving and environmental protection

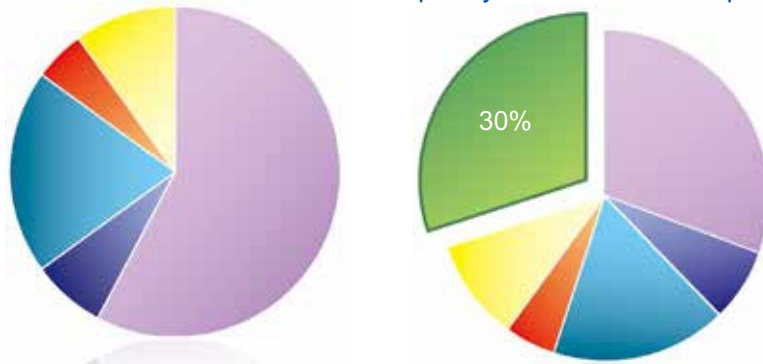
Quincy QGFV PM series permanent magnet frequency conversion air compressor provides customers with lower total investment cost. The brand new element is more efficient and stable, ensuring lower energy consumption during operation of compressor. The maximum design capacity adjustment of efficient permanent magnet synchronous motor is up to 80%. The motor is also able to accurately control air flow with the help of efficient frequency converter for meeting system load requirements in different environment, providing stable pressure and air supply for system, remarkably reducing energy consumption of air compressor, saving energy by 30% or even more on the average and reducing more operating cost.



- Actual air consumption of customers
- Energy consumption of permanent magnet frequency conversion air compressor
- Energy consumption of power frequency air compressor
- Saved energy

■ Purchase Price ■ Installation ■ Maintenance ■ Element Overhaul(50,000 hours) ■ Energy Consumption ■ Savings Over Fixed Speed

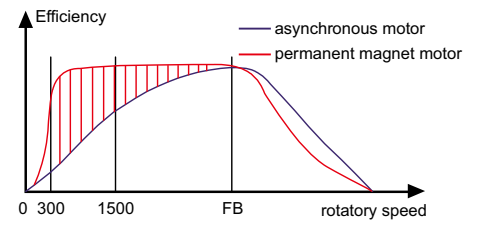
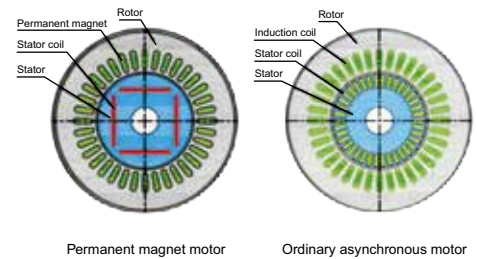
Fixed speed air compressor QGFV PM permanent magnet frequency conversion air compressor



Analysis of 10-Year Investment, Operation and Maintenance Cost of Compressor

Efficient and reliable permanent magnet motor

Efficient rare earth permanent magnet synchronous motor designed by Atlas Copco; independent motor cooling; 180 ° demagnetization temperature; excellent efficiency; national Grade 1 energy efficiency standard; unique split design of main engine and motor; 1:1 direct driven; efficient transmission; more stable, more mature and more convenient full-variable-speed system.



Energy Efficiency Curve of Permanent Magnet Motor and Asynchronous Motor

ROTAIR Lubricating Oil

ROTAIR series is high quality lubricating oil specially made for screw compressor by Atlas Copco. ROTAIR PLUS high quality mineral oil has 4000-hour oil change period.

Through rigorous test and certification, the optimized performance of ROTAIR PLUS lubricating oil can be used in different working environment by customers, and is able to help to improve efficiency of the unit, reduce maintenance cost, prolong service life and provide all-around value-added services to customers.



Quincy QGF 5.5-75kW Technical Data

Model	Motor Power	FAD (m ³ /min)				Noise	Dimension	Weight
	(kW)	7bar	8bar	10bar	13bar	dB(A)	(mm)	(kg)
QGF5.5	5.5	0.85	0.75	-	-	62± 2	960 x 810 x 970	210
QGF7.5	7.5	1.30	1.20	1.00	0.90	62± 2	960 x 810 x 970	210
QGF11	11	1.90	1.80	1.60	1.30	63± 2	960 x 810 x 970	220
QGF15	15	2.30	2.20	2.00	1.60	63± 2	960 x 810 x 970	230
QGF18.5	18.5	3.20	3.10	2.70	2.30	65± 2	1215 x 930 x 1310	420
QGF22	22	3.90	3.70	3.20	2.70	65± 2	1215 x 930 x 1310	430
QGF30	30	5.40	5.10	4.40	3.80	65± 2	1460 x 980 x 1410	580
QGF37	37	6.40	6.10	5.60	4.80	65± 2	1460 x 980 x 1410	600
QGF45	45	7.80	7.30	6.50	5.70	68± 2	1485 x 970 x 1650	850
QGF55	55	10.50	9.80	8.80	7.60	68± 2	1585 x 1170 x 1800	1185
QGF75	75	13.50	13.00	11.80	10.00	72± 2	1585 x 1170 x 1800	1265

Note: 1. FAD test in accordance with ISO 1217 (Annex C) 2. Belt-driven

Quincy QGFV 11-37kW PM Technical Data

Model	Motor Power	FAD (m ³ /min)			Noise	Dimension	Weight
	(kW)	7bar	8bar	10bar	dB(A)	(mm)	(kg)
QGFV11 PM	11	0.36 ~ 1.80	0.37 ~ 1.70	0.38 ~ 1.50	63± 2	1150 x 900 x 1310	200
QGFV15 PM	15	0.44 ~ 2.20	0.46 ~ 2.10	0.48 ~ 1.90	63± 2	1150 x 900 x 1310	210
QGFV18.5 PM	18.5	0.64 ~ 3.20	0.68 ~ 3.10	0.68 ~ 2.70	65± 2	1150 x 900 x 1310	360
QGFV22 PM	22	0.76 ~ 3.80	0.79 ~ 3.60	0.80 ~ 3.20	65± 2	1150 x 900 x 1310	380
QGFV30 PM	30	1.06 ~ 5.30	1.12 ~ 5.10	1.10 ~ 4.40	65± 2	1275 x 1000 x 1410	560
QGFV37 PM	37	1.20 ~ 6.20	1.30 ~ 6.00	1.40 ~ 5.50	65± 2	1275 x 1000 x 1410	580

Note: 1. FAD test in accordance with ISO 1217 (Annex C) 2. Direct-driven

See how Quincy Compressor can work for you:

DISTRIBUTED BY



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