AES Group, Inc.

Sales ▪ Construction ▪ Service

SPECIFICATION

- Quincy QOFT50V Rotary Air Compressors
  - Capacity 87-202 CFM @ 125PSIG
    - Motor 50HP - TEFC High Efficiency Motor
    - Voltage 460V/3PH/60Hz
    - Q-Control Touch Advanced Controller Networking
    - Automatic Restart after Power Failure
    - Air-Cooled Intercooler and After-Cooler with Moisture Separator
    - Heavy Duty Inlet Filter
    - Low Sound Enclosure

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QOFT 20-75 HP Series

Set to meet your specific demands and tackle your daily challenges, we offer you the QOFT compressors. Immediately ready to supply high quality oil-free air, this powerful solution provides you with the exceptional reliability and efficiency you are looking for.

1. Inter-cooler & After-cooler
2. Two Stage Tooth Airend
3. Sound Insulated Canopy
4. Induction Motor
5. Air Filter
6. Integrated VSD Inverter
7. Q-Control Touch
8. Electronic Water Drain

QOFT V 20-75 HP Premium Variable Speed

The QOFT V Is Best For:

- Applications that require compressors to operate at partial loads
- Customers that are interested in an efficient compressed air system
- Tooth technology is the most efficient compressor in the industry for its HP range
- Our QOFT Rotary Tooth Compressors are 50% quieter than Rotary Screw Compressors

QOFT TECHNICAL DATA

Model No.	Working Pressure		Capacity FAD	Installed Motor		Noise Level	Weight		Outlet Size
	Effective	Maximum					Standard		
	psi	psi	cfm	kW	HP	dB(A)	kg	lb	
Aircooled									
QOFT-20	100	109	80	15	20	68	984	2169	1 1/2
QOFT-20	116	125	73	15	20	68	984	2169	1 1/2
QOFT-20	137	145	65	15	20	68	984	2169	1 1/2
QOFT-25	100	109	103	18	25	70	1014	2235	1 1/2
QOFT-25	116	125	97	18	25	70	1014	2235	1 1/2
QOFT-25	137	145	82	18	25	70	1014	2235	1 1/2
QOFT-30	100	109	125	22	30	72	1024	2258	1 1/2
QOFT-30	116	125	114	22	30	75	1024	2258	1 1/2
QOFT-30	137	145	97	22	30	72	1024	2258	1 1/2
QOFT-40	100	109	169	30	40	69	1251	2758	1 1/2
QOFT-40	116	125	162	30	40	69	1251	2758	1 1/2
QOFT-50	100	109	206	37	50	71	1321	2912	1 1/2
QOFT-50	116	125	197	37	50	71	1321	2912	1 1/2
QOFT-60	100	109	241	45	60	73	1341	2956	1 1/2
QOFT-60	116	125	230	45	60	73	1341	2956	1 1/2
Variable									
QOFT-30V	100	145	42-120	22	30	72	1091	2045	1 1/2
	125		41-110						
	145		40-100						
QOFT-50V	100	125	87-214	37	50	71	1386	3056	1 1/2
	125		87-202						
QOFT-75V	100	125	87-302	55	75	73	1386	3056	1 1/2
	125		87-294						

(1) Unit performance measured according to ISO 1217, Annex C, Edition 4 (2009)

Model No.	Standard		
	A	B	C
	Length (mm/in)	Width (mm/in)	Height (mm/in)
QOFT-20-25-30	1760/69.3	1016/40	1620/63.8
QOFT-40-50-60	2006/79	1016/40	1880/74
QOFT-30V	2195/86.4	1016/40	1620/63.8
QOFT-50V-75V	2440/96.1	1016/40	1880/74

WARRANTY INFORMATION

STERLING BLUE	Sterling Blue 2-year Extended	Sterling Blue Guardian 3-year Extended
	2-year Airend warranty	3-year Airend, Coolers, Motor Drive & VSD Warranty (Parts & Labor)
	12 month bumper-to-bumper coverage	18 month bumper-to-bumper coverage
	Authorized start-up required and Quincy Genuine Parts & Fluids must be used	Only Genuine Quincy Compressor maintenance & replacement parts may be used
		Authorized Startup Required

QOFT-50V Oil-Free VFD Air Compressor

Image for reference only

Technical Information:

Available Flow (Capacity):
50 HP - 214.4 ACFM @ 100 PSIG
50 HP - 206.4 ACFM @ 116 PSIG
50 HP - 201.6 ACFM @ 125 PSIG
Data for reference only

Compressed Air Outlet Size:
1 1/2 FNPT

Condensate Drain Outlet Size:
1/8 FNPT

Sound Level:
75 dB(A)

Weight:
3,056 lbs

Dimensions:
96.1 x 40 x 74 inches

Product Description:

The Quincy QOFT Series rotary tooth compressors deliver 100% oil-free air with Industry leading reliability. Ideal applications include food and beverage processing, pharmaceutical manufacturing, chemical and petrochemical processing, fermentation, wastewater treatment, pneumatic conveying, non-woven textile manufacturing and many more.

Key Features & Benefits:

The Quincy QOFT Series rotary screw compressors delivers advanced controls and networking capabilities along with a robust design that's easy to service.

Certified ISO 8573-1 (2010) CLASS 0

Q-Control Touch Description

Q-Control Touch Module

The regulating system features the Q-Control module ensuring efficient control through the application of sophisticated regulation algorithms. The Q-Control provides all required compressor protection functions and monitors components subject to service using service timers.

A partial description of the module's capabilities includes*:

Compressor status indications:
- Voltage on
- Automatic operation
- Compressor loaded
- Compressor unloaded
- Local, remote or LAN compressor control

Temperatures displayed:
- Airend outlet
- Refrigerant temp (for full feature version)

Hours displayed:
- Total running hours
- Total loaded hours

Pressures readouts:
- Delivery air

Compressor controls:
- Start/Stop
- Load/unload
- Emergency stop
- Reset

Compressor safety - Shutdown indications:
- High Airend outlet temperature
- High Airend inlet temperature

Service requirement indications:
- Air filter
- Oil filter
- Sensor error

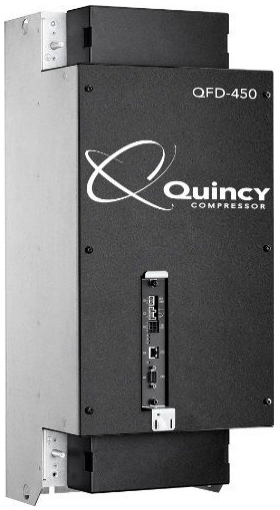
Compressor safety - Shutdown indications:
- High Airend outlet temperature
- High Airend inlet temperature
- Drive motor overload
- Emergency stop

Remote control / monitoring:
Digital input commands:
- Start + pressure control
- Programmed stop
- Load/unload
- Emergency stop

Digital output compressor status:
- Automatic operation
- General warning
- General shutdown

Other key functionalities
Remote control and connectivity functions
Web Browser based visualization using Ethernet connection

QFD Quincy Frequency Drive Description



DESIGNED FOR ROBUSTNESS

QFD has an IP5X protection degree. All components in the drive are protected from dust and moisture, thanks to a robust, aluminum enclosure. The QFD will operate trouble-free in the harshest conditions

SIMPLICITY IS KEY

QFD has been designed in-house. The focus is on compactness, simplicity and user-friendliness.

Dedicated compressor drive

Compressor manufacturing is not the main target market for the classic inverter brands. Their products have to fit a broad spectrum. In fact the most common usage for VSD drives are fans and pumps.

We learned from field experience that traditional drives suffer in compressor applications from dust, humidity, over currents, etc. It was time to put all this expertise together and develop a drive tailor-made to Quincy's QGV compressors.

Robust and simple

The QFD has an IP5X protection degree. A compact, robust aluminum enclosure protects it from dust and moisture, making it suitable to operate in the harshest conditions. Quincy made sure high protection and optimized cooling go together. Where other brands are rated for 40°C (and de-rated up to 50°C), the QFD is designed to operate continuously at 50°C ambient conditions and up to 60°C by derating. Maximum uptime and productivity are guaranteed.

The QFD is qualified in lab conditions, but has also passed endurance tests in the field, at sites specifically selected for their harsh, challenging ambient conditions.

Less is more. The QFD has everything on board to function optimally, nothing less, nothing more. As the QFD only has to work for Quincy's QGV compressors, there are no excess components.

There are no unnecessary digital in- and outputs, no options like communications modules, resulting in a compact design. The same goes for the software, with less parameters than traditional systems, the QFD is user-friendly and easy to configure.

All communication is done via the Q-Control, so no extra control panel is needed.

This in-house design allows for an improved control over the lifecycle of the application and guarantees the availability of spare parts and replacements.

TECHNICAL SPECIFICATIONS

Main Connection	Supply voltage 3-phase 380 to 460 V AC +10 /-10%, 50 to 60Hz ± 5% Other voltages are possible by usage of a transformer.
Protection rating	IP5x (Power electronics)
Ambient conditions	Operation at full power between -20°C/-4°F and 50°C/122°F
Approvals	IEC or UL/cUL
Efficiency	98%