

QuattroflowTM QF30SU

QF30SU
Single-Use
Diaphragm Pump

Single-Use Pump for Low Flow Rates

Quattroflow has extended its Single-Use product line to the lower end. With a flow rate of 0.06 – 30 lph the QF30 has been developed for very low needed capacities.

The complete Quattroflow pump range covers a flow capacity between 0.06 and 16,000 lph with eight pump sizes now available — the right Quattroflow pump for all applications.

The QF30SU offers the following main features and benefits:

- Disposable pump chamber with tool-free installation
- Retrofittable on QF150 drives
- 500:1 turn-down ratio
- Linear flow performance
- 0.06 – 30 lph flow range, max. 4 bar (58 psi)
- Analog input, 0-5 VDC
- Available accessories: Power box, diaphragm sensor, PID pressure controller
- Typical applications include: Chromatography, TFF and virus filtration

Developed for Lower Flow Rates in Single-Use Applications



Quattroflow develops and manufactures, in close cooperation with its customers, specific Diaphragm Pumps for critical applications in the pharmaceutical and biotech industries. The method of operation of Quattroflow pumps allows them to gently, safely and securely convey aqueous solutions and biological products that are sensitive to shear force. The design does not feature a mechanical shaft seal or wetted rotating parts, ensuring total product containment without abrasion. Additionally, the pumping principle enables risk-free dry-running, low pulsation, self priming, and minimal particle generation.

Quattroflow™ QF30SU

Flow Rate Maximum:

Eccentric Shaft 3° 30 lph (500 mlpm)

Flow Rate Minimum:

Eccentric Shaft 3° 0.06 lph (1 mlpm)

Pressure:

Temperature of Fluid < 40° C (104° F) 4 bar (58 psi)

Temperature of Fluid > 40° C (104° F) 4 bar (58 psi)

Maximum Temperature:

Fluid 60° C (140° F)

Pump Speed Range:

rpm 1 - 1,000

Suction Lift Dry:

Eccentric Shaft 3° 1 m (3.28.ft)

Volume Specifications:

Approximated Volume per Revolution at Free Output 0.55 ml

Approximated Filling Volume Without Connectors 9.65 ml

Connection Specification (Standard):

Connectors Hosebarb 4 mm

Position of Connectors Front

Product Wetted Materials (Standard):

Pump Chamber	PP
Valve Plate	PP
Diaphragms	TPE
Valves	EPDM
O-rings	EPDM

Certificates/Proofs (Optional):

Elastomer (product wetted) USP <88> Cl. VI; FDA21CFR177; BSE/TSE Safe

Motor:

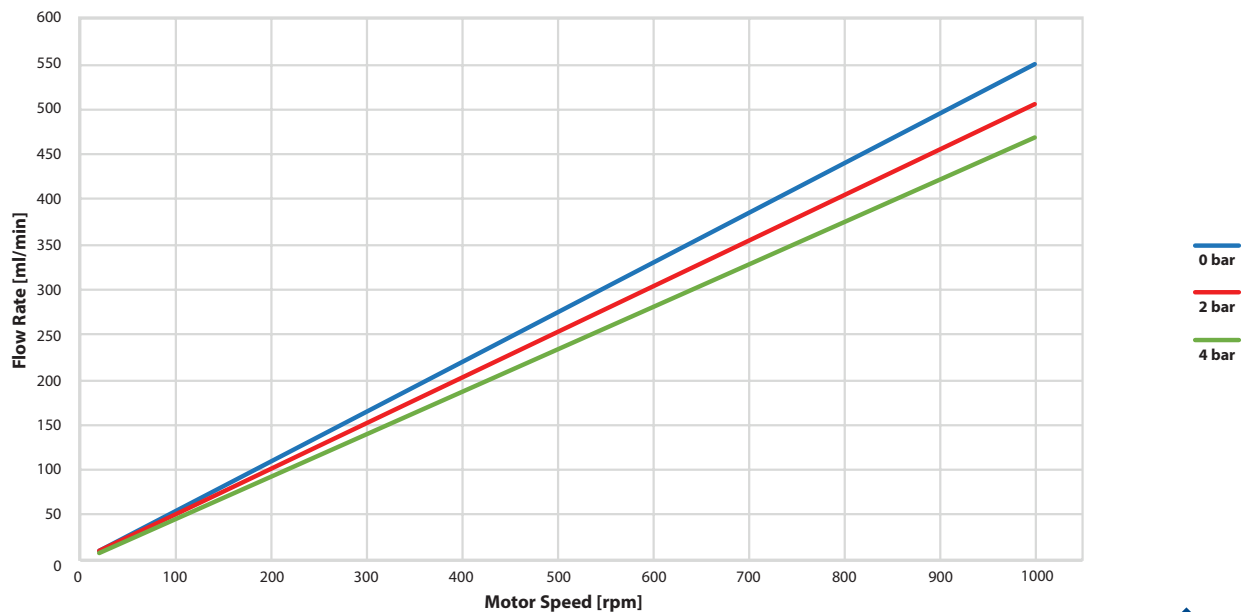
Type	Brushless
Voltage	230V (110V option)
Power	90 W

Pump Dimension with Motor and Housing:

Length	275 mm (10.83")
Width	164 mm (6.46")
Height	185 mm (7.28")

Pump Weight with Motor and Housing:

9 kg (20 lb)



Almatec reserves the right to modify the information and illustrations contained in this document without prior notice. This is a non-contractual document. 03-2019.

Authorized PSG® Partner:



ALMATEC Maschinenbau GmbH
Hochstraße 150-152
47228 Duisburg, Germany

Tel: +49 (2065) 89205-0 • Fax: +49 (2065) 89205-40
info@almatec.de