

Spec Sheet QF1200SU

Effective: December 2014 Replaces: NEW

QF1200SU Quaternary Diaphragm Pumps Single-Use – Biotech/Biopharma

Features

- Fully disposable machined polypropylene pump chamber
- Easy replacement
- 4-piston technology
- Gentle product treatment
- No particle generation

Applications

- Filtration systems (TFF, etc.)
- Chromatography systems
- Feeding pump

- Low pulsation
- Linear flow characteristic
- Self-priming
- Safe dry-run operation
- Elimination of cleaning validation and cross contamination
- Virus filtration
- Sterile filtration

Technical Data

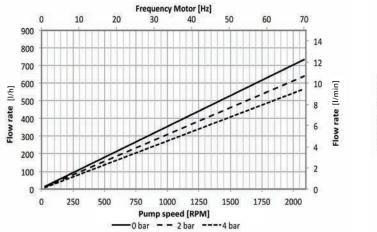
QF1200SU Standard Motor		
800 l/h (211 gph)		
1,200 l/h (317 gph)		
10 l/h (2.64 gph)		
20 l/h (5.3 gph)		
4 bar (58 psi)		
4 bar (58 psi)		
Maximum Temperature:		
60° C (140° F)		
130° C (260° F)		
Pump Speed Range:		
30 - 2,400		
Suction Lift Dry at 1800 rpm:		
2.5 - 3 m (8.2-9.8 ft)		
4-4.5 m (13.1-14.7 ft)		
9.6 ml (5°)		
5.8 ml (3°)		
75 ml		

Eccentric Shaft 5°	4-4.5 m (13.1-14.7 ft)
Specifications:	
Approximated Volume per	9.6 ml (5°)
Revolution at Free Output	5.8 ml (3°)
ing Volume Without Connectors	75 ml

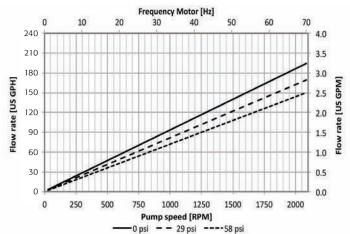
	QF1200SU Standard Motor		
Connection Specification (Standard):			
Connectors	3/4" TC		
Position of Connectors	Inline		
Number of Flow Directions	4		
Product Wetted Materials (Standard):			
Pump Chamber	РР		
Valve Plate	РР		
Diaphragms	TPE		
Valves	EPDM		
0-rings	EPDM		
Certificates/Proofs (Optional):			
Elastomere (product wetted)	USP <88> Cl. VI; FDA21CFR177; BSE/TSE Safe; USP 87/381/661		
Motor (Standard):			
Rated speed	1375 min-1 (50 Hz)		
Voltage	230/400 V		
Power	0.37 KW		
Pump Dimension with Motor and Housing:			
Length	497 mm (19.56")		
Width	159 mm (6.26")		
Height	210 mm (8.27")		
Pump Weight with Motor and Housing:			
	21 kg (46 lb.)		

Other connection specifications, materials and motors available on request. * When using pump with control box: 20 l/h (5.28 gph) and 40 l/h (10.6 gph)

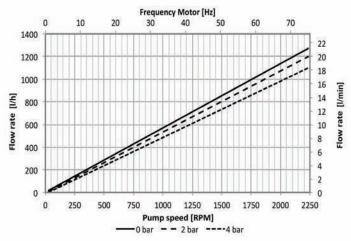
Performance Charts

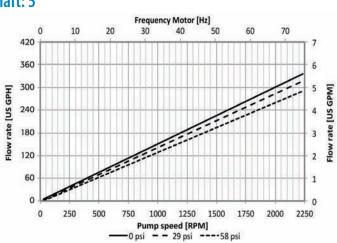


Eccentric Shaft: 3°



Eccentric Shaft: 5°





Depending on the selected motor/frequency drive combination, the motor frequency and the resulting pump speed might differ.

Accessories



Control Box

- Variable speed controller with integrated touch pad for manual speed control
- Configurable for remote speed control with 4-20 mA analogue input
- 230V / 50 Hz or 115 V / 60 Hz
- Hygienic 1.4301 housing, IP 54
- Easy plug & play installation

Diaphragm Sensor

- Sensor installed in ring drive unit
- Detection of all liquids
- Signal output to a controller, if diaphragm is ruptured



ALMATEC Maschinenbau GmbH Carl-Friedrich-Gauß-Str. 5 47475 Kamp-Lintfort, Germany 0: +49/2842/961-0, F: +49/2842/961-40 www.quattroflow.com info@almatec.de

Distributed by:

OF1200SU

ProcessHQ, Inc. 410 N. Varney Street Burbank, CA 91502 818 861-7641 info@processHQ.com

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

