

QF1200SU-HT

Quaternary Diaphragm Pumps

Single-Use – Biotech/Biopharma

Features

- Compact version with integrated controller and extended turn-down ratio
- Fully disposable machined polypropylene pump chamber
- Easy replacement
- 4-piston technology
- Gentle product treatment
- No particle generation
- Low pulsation
- Linear flow characteristic
- Self-priming
- Safe dry-run operation
- Elimination of cleaning validation and cross contamination

Applications

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



Technical Data

QF1200SU-HT	
Flow Rate Maximum:	
Eccentric Shaft 5°	1,200 lph (20 lpm)
Flow Rate Minimum:	
Eccentric Shaft 5°	6 lph (0.1 lpm)
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)
Autoclave	130° C (260° F)
Pump Speed Range:	
rpm	10 - 2,400
Suction Lift Dry at 1800 rpm:	
Eccentric Shaft 5°	4-4.5 m (13.1-14.7 ft)
Volume Specifications:	
Approximated Volume per Revolution at Free Output	9.6 ml
Filling Volume Without Connectors	75 ml

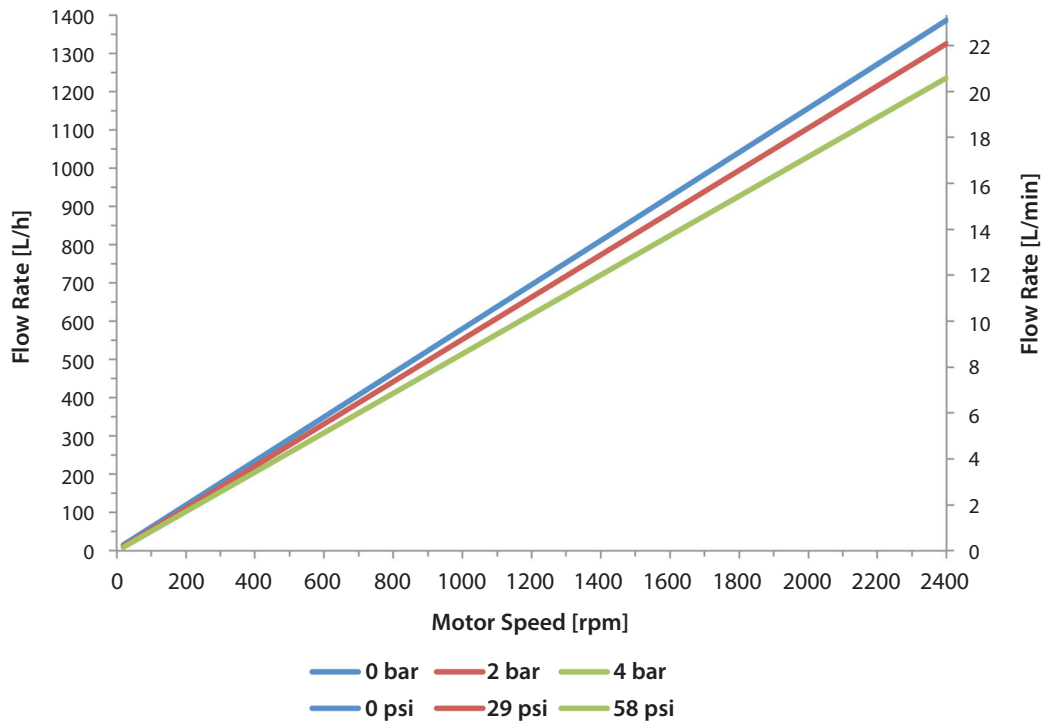
Technical data for the QF1200SU-HT-M (pump chamber made of injection-molded PE) available on request.

QF1200SU-HT

Connection Specification (Standard):	
Connectors	3/4" TC
Position of Connectors	Inline
Number of Flow Directions	4
Product Wetted Materials (Standard):	
Pump Chamber	PP
Valve Plate	PP
Diaphragms	TPE
Valves	EPDM
O-rings	EPDM
Certificates/Proofs (Optional):	
Elastomere (product wetted)	USP <88> Cl. VI; FDA21CFR177; BSE/TSE Safe; USP 87/381/661
Motor:	
Maximum speed	2,400 min-1
Voltage	110 - 230 V
Power	0.485 kW
Pump Dimension with Motor and Housing:	
Length	499 mm (19.65")
Width	200 mm (7.87")
Height	220 mm (8.66")
Pump Weight with Motor and Housing:	
	21 kg (46 lb.)

Performance Chart

Eccentric Shaft: 5°



Accessories

Diaphragm Sensor

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

QUATTROFLOW™
Fluid Systems

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