

# 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	
<b>Flow Rate Maximum:</b>	
Eccentric Shaft 5°	1,200 lph (20 lpm)
<b>Flow Rate Minimum:</b>	
Eccentric Shaft 5°	6 lph (0.1 lpm)
<b>Pressure:</b>	
Temperature of Fluid < 40° C (104° F)	4 bar (58 psi)
Temperature of Fluid > 40° C (104° F)	4 bar (58 psi)
<b>Maximum Temperature:</b>	
Fluid	60° C (140° F)
Autoclave	130° C (260° F)
<b>Pump Speed Range:</b>	
rpm	10 - 2,400
<b>Suction Lift Dry at 1800 rpm:</b>	
Eccentric Shaft 5°	4 - 4.5 m (13.1 - 14.7 ft)
<b>Volume Specifications:</b>	
Approximated Volume per Revolution at Free Output	9.6 ml
Filling Volume Without Connectors	75 ml

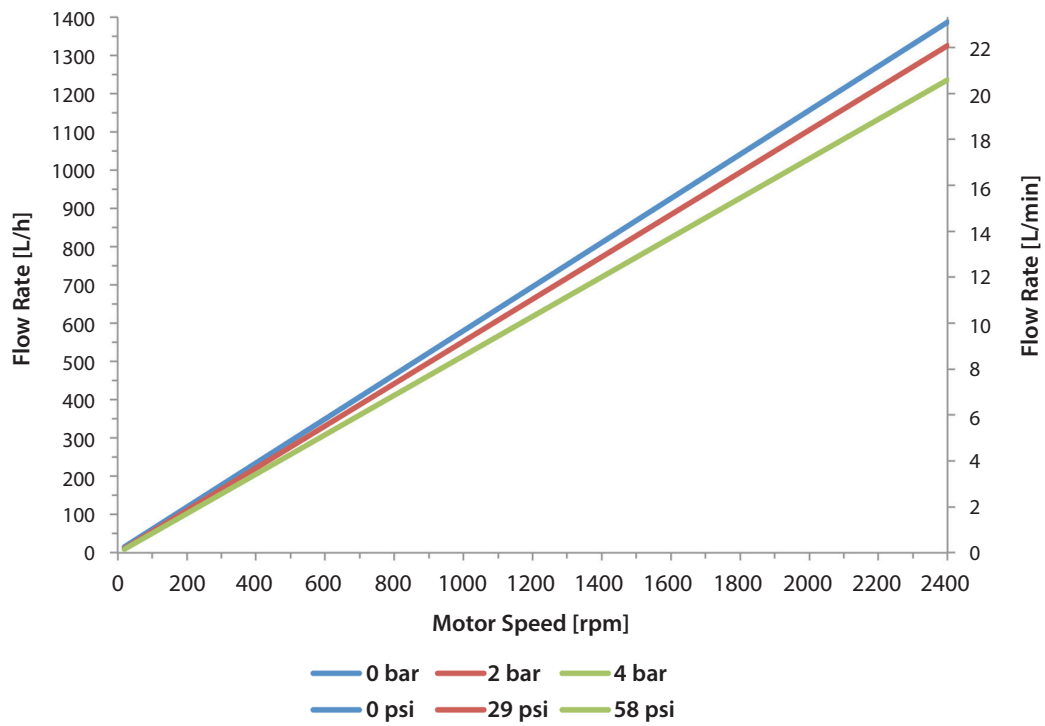
Technical data for the QF1200SU-HT-M (pump chamber made of injection-molded PE) available on request.



QF1200SU-HT	
<b>Connection Specification (Standard):</b>	
Connectors	3/4" TC
Position of Connectors	Inline
Number of Flow Directions	4
<b>Product Wetted Materials (Standard):</b>	
Pump Chamber	PP
Valve Plate	PP
Diaphragms	TPE
Valves	EPDM
O-rings	EPDM
<b>Certificates/Proofs (Optional):</b>	
Elastomere (product wetted)	USP <88> Cl. VI; FDA21CFR177; BSE/TSE Safe; USP 87/381/661
<b>Motor:</b>	
Maximum speed	2,400 min <sup>-1</sup>
Voltage	110 - 230 V
Power	0.485 kW
<b>Pump Dimension with Motor and Housing:</b>	
Length	499 mm (19.65")
Width	200 mm (7.87")
Height	220 mm (8.66")
<b>Pump Weight with Motor and Housing:</b>	
	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



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