

# QF4400SU

## 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
- 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

QF4400SU Standard Motor	
<b>Flow Rate Maximum:</b>	
Eccentric Shaft 6°	5000 l/h (1321 gph)
<b>Flow Rate Minimum:</b>	
Eccentric Shaft 6°	150 l/h (40 gph)
<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>Suction Lift Dry at 1200 rpm:</b>	
Eccentric Shaft 6°	4-4.5 m (13.1-14.7 ft)
<b>Volume Specifications:</b>	
Approximated Volume per Revolution at Free Output	95 ml
Filling Volume Without Connectors	820 ml
<b>Connection Specification (Standard):</b>	
Connectors	1.5" TC
Position of Connectors	Front

Other connection specifications, materials and motors available on request.

QF4400SU Standard Motor	
<b>Product Wetted Materials (Standard):</b>	
Pump Chamber	PP
Valve Plate	PP
Diaphragms	TPE
Valves	EPDM / SS316L
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 (Standard):</b>	
Rated speed	1410 min-1 (50 Hz)
Voltage	230/400 V
Power	2.2 KW
<b>Pump Dimension with Motor and Housing:</b>	
Length	776.4 mm (30.57")
Width	256 mm (10.08")
Height	330 mm (12.99")
<b>Pump Weight with Motor and Housing:</b>	
	81 kg (178 lb.)

