

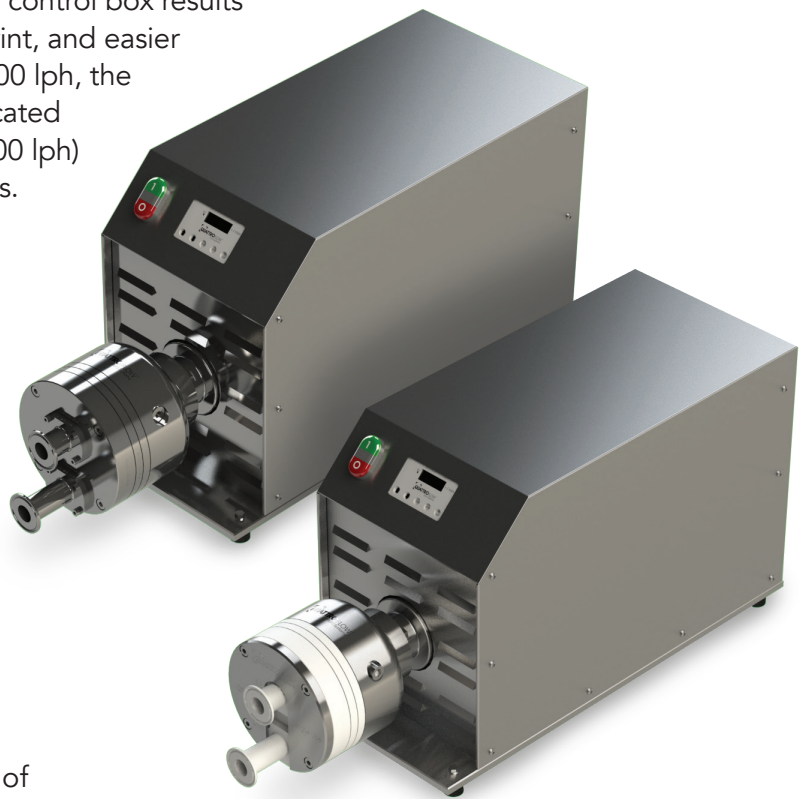
## Compact with High Turndown Ratio

Quattroflow™ has extended the HT product line of Quaternary (Four-Piston) Diaphragm Pumps with the new size QF2500HT.

The new QF2500HT model is similar to the standard QF2500 pump, but has integrated the pump chamber, pump drive, motor and control box into one unit. The elimination of a separate control box results in a more compact design, a smaller footprint, and easier handling. With a maximum flow rate of 2,500 lph, the new Quattroflow QF2500HT pumps are located between the existing QF1200HT (max. 1,200 lph) and QF4400HT (max. 5,000 lph) pump sizes.

### The QF2500HT offers the following features and benefits:

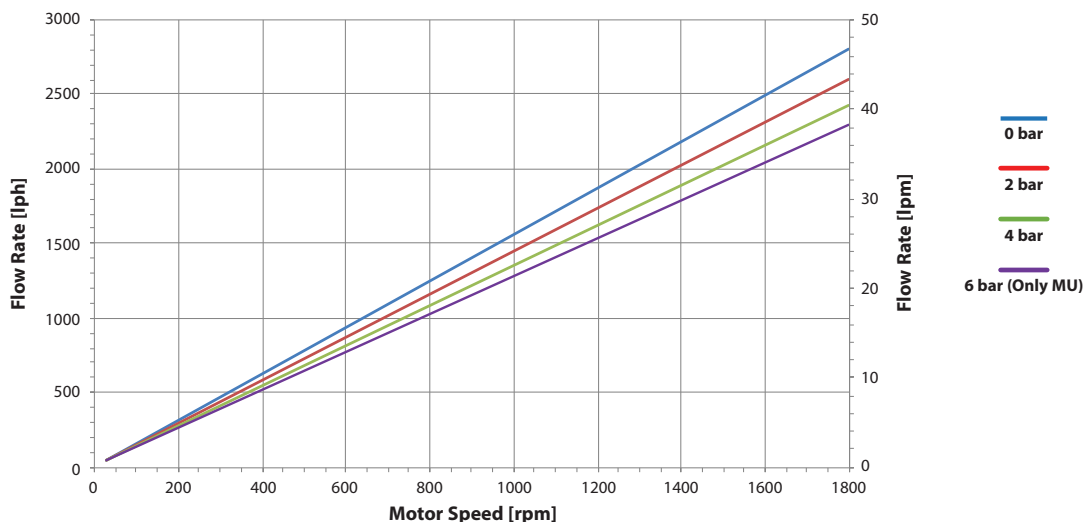
- “All-in-One” technology; integration of pump chamber, pump drive, motor, controller and pump housing into one unit
- Extended turndown ratio for a wider range of flow rates than the standard QF2500 model with optimal linearity
- High accuracy in controlling flow rates
- Compact design
- Keypad for manual control and display of motor speed
- Easy “Plug and Play” installation and startup with one power cable
- Three phase 400V power supply
- Available as Multiple-Use (pump chamber SS316L) and Single-Use (machined polypropylene)
- Clean-In-Place/Steaming-In-Place (CIP/SIP) and autoclavable for Multiple-Use models
- Self-draining design
- High flow stability even at low flow rates
- Typical applications include: Chromatography, TFF, virus filtration, sterile filtration, depth filtration
- For further automated control functions, the QF2500HT is also available in the Q-Control version (the new Quattroflow smart control system)



# Quattroflow™ QF2500HT

Model Pump Type	QF2500S-HT Multiple-Use	QF2500SU-HT Single-Use
<b>Flow Rate Maximum:</b>		
Eccentric Shaft 5°	2,500 lph (41 lpm)	2,500 lph (41 lpm)
<b>Flow Rate Minimum:</b>		
Eccentric Shaft 5°	25 lph (0.41 lpm)	25 lph (0.41 lpm)
<b>Pressure:</b>		
Temperature of Fluid < 40° C (104° F)	6 bar (87 psi)	4 bar (58 psi)
Temperature of Fluid > 40° C (104° F)	4 bar (58 psi)	4 bar (58 psi)
<b>Maximum Temperature:</b>		
Fluid	80° C (176° F)	60° C (140° F)
CIP	90° C (194° F)	—
SIP	130° C (260° F)	—
Autoclave	130° C (260° F)	130° C (260° F)
<b>Pump Speed Range:</b>		
rpm	20 - 1,800	20 - 1,800
<b>Suction Lift Dry at 1800 rpm:</b>		
Eccentric Shaft 5°	4 - 4.5 m (13.1-14.7 ft)	4 - 4.5 m (13.1-14.7 ft)
<b>Volume Specifications:</b>		
Approximated Volume per Revolution at Free Output	27 ml	27 ml
Filling Volume Without Connectors	210 ml	210 ml
Residual volume (after idling with high-speed motor)	0 ml	0 ml
<b>Connection Specification (Standard):</b>		
Connectors	1" TC	1" TC
Position of Connectors	Front	Front

Model Pump Type	QF2500S-HT Multiple-Use	QF2500SU-HT Single-Use
<b>Product Wetted Materials (Standard):</b>		
Pump Chamber	1.4435/SS316L	PP
Valve Plate	1.4435/SS316L	PP
Diaphragms	TPE	TPE
Valves	EPDM	EPDM
O-rings	EPDM	EPDM
<b>Certificates/Proofs:</b>		
Elastomers (product wetted) Included	USP <87>; USP <87>; Cl. VI; FDA21CFR177; BSE/TSE Safe	USP <87>; USP <87>; Cl. VI; FDA21CFR177; BSE/TSE Safe
Stainless Steel Parts (product wetted) As Option	3.1; Surface Roughness; Ferrite (EN10204)	—
<b>Motor:</b>		
Maximum speed	1,800 min-1	1,800 min-1
Voltage	400 V	400 V
Power	1.5 kW	1.5 kW
<b>Pump Dimension with Motor and Housing:</b>		
Length	824 mm (32.44")	824 mm (32.44")
Width	275 mm (10.83")	275 mm (10.83")
Height	382.5 mm (15.06")	382.5 mm (15.06")
<b>Pump Weight with Motor and Housing:</b>		
	67 kg (148 lb.)	60 kg (132 lb.)



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