

# Quattroflow® QF2500HT

Compact with High  
Turndown Ratio



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

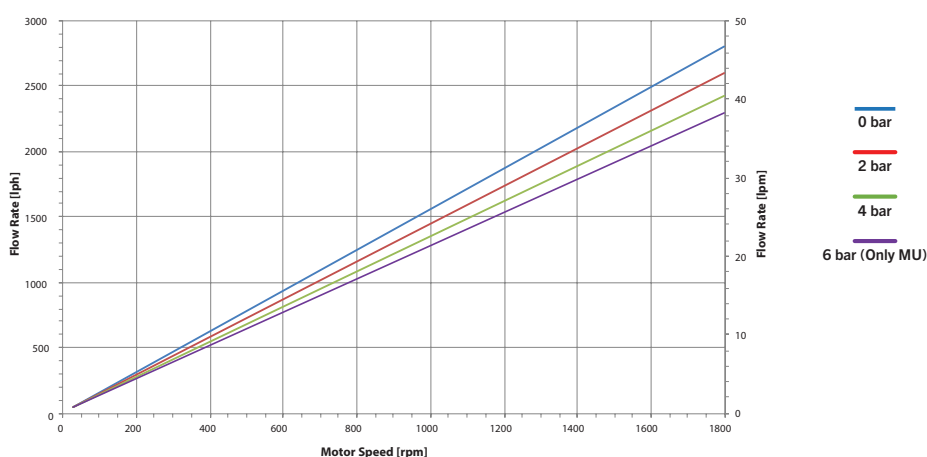
The new QF2500HT model is similar to the standard QF2500 pump, but has integrated the pump chamber, pump drive, motor and control box into one unit. The elimination of a separate control box results in a more compact design, a smaller footprint, and easier handling. With a maximum flow rate of 2,500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

## FEATURES

- “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 400 V 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)

MODEL PUMP TYPE	QF2500MU-HT	QF2500SU-HT
<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°	4-4.5m (13.1-14.7 ft)	4-4.5m (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	QF2500MU-HT	QF2500SU-HT
<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	1.5kW	1.5kW
<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.)



DESIGN FOR LIFE



**WARNING:** The customer is solely responsible for determining the necessary or most suitable product or service for any particular use case or application. All such risks are assumed by the customer. Specifications subject to change without notice.  
**WARRANTY:** For product warranty information, please contact: [info@cpc-bio.com](mailto:info@cpc-bio.com) or +1 800-519-7633.  
 For trademark information, please visit: [www.cpc-bio.com/trademarks-and-patents](http://www.cpc-bio.com/trademarks-and-patents)  
 © 2026 CPC BIOTECH. ALL RIGHTS RESERVED.  
 CPCBio26001

**CPC BIOTECH**  
 2820 Cleveland Ave. N.  
 Roseville, MN 55113  
 Phone: +1 800-519-7633  
 Email: [info@cpc-bio.com](mailto:info@cpc-bio.com)

[cpc-bio.com](http://cpc-bio.com)