

# Quattroflow™ QF1200CV Compact Version

Quattroflow™ has answered the needs of labs that have strict space-use requirements with the design and release of the QF1200CV (Compact Version) Quaternary (Four-Piston) Diaphragm Pump.

The new QF1200CV model is similar to Quattroflow's QF1200 pump with one significant space-saving exemption: the pump chamber, pump drive, motor and control box are all integrated into one unit. The elimination of a separate control box gives the QF1200CV a more compact design and less needed space, which is ideal for lab applications that require a smaller pump model, but for whom the smaller QF150 model with integrated controller does not have enough flow capacity.

In addition, the QF1200CV offers the following benefits:

- Easy "Plug and Pump" installation and startup with one power cable
- Wider range of flow rates than the standard QF1200 model
- Single-phase 230V motor
- Availability in Multiple-Use or Single-Use options
- Machined polypropylene (PP) or injection-molded polyethylene (PE) materials of construction for Single-Use models
- Clean-In-Place/Steaming-In-Place (CIP/SIP) and autoclavability for Multiple-Use models
- Autoclavability for PP Single-Use models
- Ideal for tabletop applications

QF1200CV SERIES  
Quaternary Diaphragm  
Pumps



## Space-Saving Pump Solutions for Biopharma Applications



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## Quaternary (Four-Piston) Diaphragm Pumps

Quattroflow develops and manufactures, in close cooperation with its customers, specific Quaternary (Four-Piston) Diaphragm Pumps for critical applications in the pharmaceutical and biotech industries. The method of operation of Quattroflow pumps allows them to gently, safely and securely convey aqueous solutions and biological products that are sensitive to shear force with minimal impact. The four-piston design does not feature a mechanical shaft seal or wetted rotating parts, ensuring total product containment without abrasion or particle generation. Additionally, the four-piston pumping principle enables risk-free dry-running, low pulsation, and self priming.

Quattroflow pumps are available in two variations: traditional Multiple-Use and the increasingly popular Single-Use:

- Multiple-Use:** Quattroflow stainless-steel Multiple-Use pumps deliver the highest level of purity, containment and, perhaps most importantly, cleanability in biopharmaceutical-manufacturing operations from simple product transfer to critical and demanding filtration and chromatography applications. These pumps are suitable for clean-in-place/steaming-in-place (CIP/SIP) operations, as well as offering autoclave capability.
- Single-Use:** Quattroflow machined polypropylene (PP) and injection-molded polyethylene (PE) Single-Use pumps are equipped with a plastic wetted pump chamber that can be replaced as a complete unit. The ability to simply dispose of the used pump chamber and replace (within a short time) with a new one saves time and money thanks to the elimination of the need for cleaning, sterilization and complex cleaning-validation of the pump chamber. This leads to a quicker production process, as well as one that delivers the required levels of product purity and sterility with no chance of costly cross-batch or cross-product contamination.



### QF1200CV Diaphragm Pump Technical Data

MODEL	QF1200S-CV	QF1200SU-CV	QF1200SU-CV-M
<b>Pump Type</b>	Multiple-Use	Single-Use	Single-Use
<b>Flow Rate</b>	10-1200 l/h (2.64-317 gph)	10-1200 l/h (2.64-317 gph)	10-1200 l/h (2.64-317 gph)
<b>Max. Temperature:</b>			
• Fluid	80°C (176°F)	60°C (140°F)	50°C (122°F)
• CIP	90°C (194°F)	-	-
• SIP	130°C (266°F)	-	-
• Autoclave	130°C (266°F)	130°C (266°F)	-
<b>Standard Connection</b>	3/4" TC, inline	3/4" TC, inline	3/4" TC, front
<b>Power Supply</b>	230V, 1-phase	230V, 1-phase	230V, 1-phase
<b>Materials:</b>			
• Pump Chamber	316L SS	Machined PP	Injection-Molded PE
• Diaphragms	TPE	TPE	TPE
• Valves	EPDM	EPDM	EPDM
• Housing	304 SS	304 SS	304 SS



For more information about Quattroflow single- and multiple-use pumps, please visit [www.quattroflow.com](http://www.quattroflow.com) or contact Quattroflow to request the product brochure.



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