

## Quattroflow Releases New QF5kSU

### New Single-Use Pump Size Available

Quattroflow® is pleased to announce the extension of the single-use product line of quaternary (four-piston) diaphragm pumps with the new QF5kSU size.

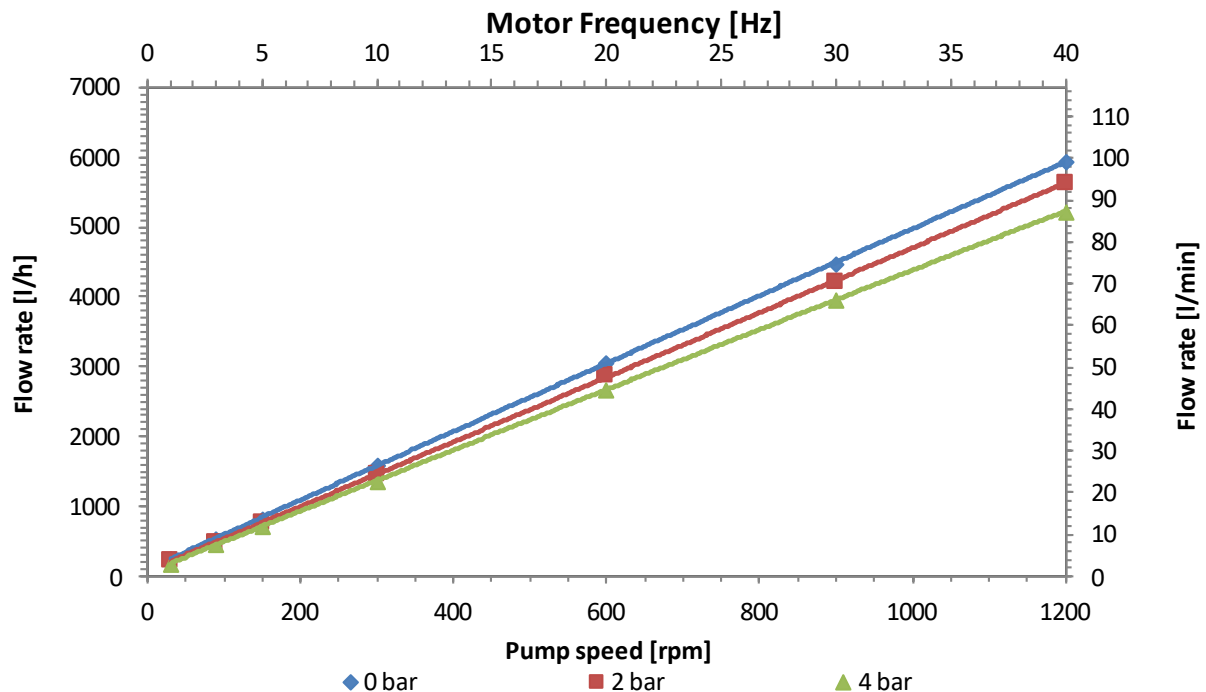
With a maximum flow rate of 6,000 lph, the new QF5k pump is ideally suited to meet the needs within demanding biopharma applications, including chromatography, TFF, virus filtration, sterile filtration and depth filtration.



### The QF5kSU offers the following main features and benefits:

- Maximum flow range of 50 to 6,000 lph
- Gamma-stable disposable pump chamber
- Proportional and linear flow performance (see performance chart) for optimal precision during flow control
- Proven four-piston diaphragm design with low pulsation characteristics
- New pump chamber design allows optimized drainability of the pump chamber to maximize product recovery
- Improved and free venting/priming of pump chamber even at low flow rates
- No use of mechanical seals allows safe dry-run
- Four different drive versions:
  - Base version with AC motor
  - HT version with integrated VFD
  - Q-Control with integrated controller and direct sensor connection
  - Compact design version with minimum footprint
- Optional diaphragm sensor
- Turndown ratio of up to 120:1 possible (according to drive selection)

## Performance Chart



## Frequently Asked Questions

- Q: What has been done to improve the drainability and venting of the pump chamber?**
- A: The design is equivalent to the QF5kMU and is based on a valve plate featuring two outlet valves per chamber. These valves are located at the highest and lowest position of each chamber and thus allow both full drainability of the chamber and significantly improve the venting.
- Q: Can I use a QF5kSU chamber on a QF5kMU drive?**
- A: Yes, this is possible, if the shaft-bearing-cap unit from the MU version has been replaced with the drive shaft of the SU version, which is available as a spare-part.
- Q: Is it possible to retrofit an existing QF4400SU (AC, HT, QCON) to a QF5kSU?**
- A: Due to different design of the ring drive this is not possible.
- Q: Is it possible to retrofit an existing QF5050 to a QF5kSU (compact design)?**
- A: Yes, the ring drive of a QF5k can be mounted on existing QF5050 drive.
- Q: 90° elbows ports were available for the QF4400SU pump chambers. Is this also the case for QF5kSU?**
- A: Yes, the same elbows are also available for the QF5kSU pump chambers.