



# SARTOFLOW<sup>®</sup> Systems

Crossflow Solutions for Lab and Process Development



# Scalable Systems with Multiple Options



|   | SARTOFLOW® Smart                                  | SARTOFLOW® Study   | SARTOFLOW® Advanced   |
|---|---|--|---|
| <b>Filter surface area</b>                                | 50 cm <sup>2</sup> – 0.14 m <sup>2</sup>          | 0.1 – 2.1 m <sup>2</sup>                                       | 0.1 – 2.1 m <sup>2</sup>  |
| <b>Automation</b>   | Manual  | Manual   | Semi-automatic  |
| <b>Application area</b>                                   | PD, R&D, cGMP                                     | R&D, GLP   | R&D, cGMP production  |
| <b>Min. working volume*</b>                               | <20 mL  | 200 mL or 400 ml (PP tank)                                     | 200 mL  |
| <b>Cleaning   sterilisation</b>                           | CIP   | CIP  | CIP   |
| <b>Pump</b>   | 4-piston Diaphragm<br>1 – 100 L/h @ 3 bar         | 4-piston Diaphragm<br>700 L/h @ 4 bar                          | 4-piston Diaphragm<br>700 L/h @ 4 bar   |
| <b>Parameters automatically regulated by the system**</b> | P <sub>in</sub> , ΔP<br>(Optional: level control) | P <sub>in</sub> , ΔP (Optional: Retentate flow, level control) | P <sub>in</sub> , P <sub>out</sub> , ΔP, TMP, level control<br>(Optional: Retentate flow) |

\* with 1 Sartocor® Slice cassette

\*\* P<sub>in</sub>: Inlet pressure | P<sub>out</sub>: Retentate pressure | P<sub>per</sub>: Permeate pressure | ΔP: Differential pressure | TMP: Trans-Membrane pressure

## Options

|   |                     |         |         |
|---|---------------------|---------|---------|
| DCU-4 with touch screen   | •                   | •       | •       |
| Sartocor® Slice filter holder (standard)  | Sartocor® Slice 200 | •       | •       |
| Holder for Sartocor® Slice 50   | (•)                 | -       | -       |
| Sartocor® Slice single-use filter holder (manual or hydraulic)                    | -                   | -       | -       |
| Sartocor® filter holder for up to 3 Sartocor® ECO cassettes (2.1 m <sup>2</sup> ) | -                   | (•)     | (•)     |
| Pressure indicator feed and retentate   | •                   | •       | •       |
| Pressure sensor permeate  | •                   | •       | •       |
| Load cell   | •                   | •       | •       |
| Flow-meter retentate  | -                   | (•)     | (•)     |
| Flow-meter permeate   | Balance             | •       | •       |
| Automatic valve retentate   | -                   | -       | •       |
| Automatic valve permeate  | -                   | -       | -       |
| Conductivity probe retentate  | (Vessel)            | -       | (•)     |
| Conductivity probe permeate   | -                   | -       | (•)     |
| pH probe retentate  | (Vessel)            | -       | - (ETO) |
| pH probe permeate   | -                   | -       | - (ETO) |
| UV probe permeate   | -                   | -       | -       |
| Temperature probe   | (Vessel)            | (•)     | •       |
| Pump head heat exchanger  | -                   | -       | -       |
| Dry run protection  | -                   | -       | -       |
| 1 <sup>st</sup> peristaltic pump (filling of the tank and   or diafiltration)     | (•)                 | (•)     | •       |
| 2 <sup>nd</sup> peristaltic pump (filling of the tank and   or diafiltration)     | -                   | (•)     | (•)     |
| 1 L Vessel  | •                   | -       | -       |
| 10 L polypropylene vessel   | -                   | •       | -       |
| 10 L stainless steel tank   | -                   | (•)     | (•)     |
| 10 L stainless steel tank with a sight glass                                      | -                   | (•)     | (•)     |
| Double-jacket tank, 10 L, stainless steel, with a sight glass                     | -                   | (•)     | (•)     |
| Bag holder for single-use crossflow bags  | (•)                 | (•)     | (•)     |
| Standard & cGMP documentation (Level 0 & 1)                                       | Level 0             | Level 0 | •       |
| Documentation package – Basic Qualification Test (Level 2)                        | (•)                 | -       | (•)     |
| BQT Execution package in FAT (Level 3)  | (•)                 | -       | (•)     |
| BQT Execution package in SAT (Level 4) contact service                            | (•)                 | -       | (•)     |
| SCADA MFCS   win 3.0 software (data acquisition upgradeable with options)         | (•)                 | (•)     | (•)     |
| Recipe control (S88) software module (optional for MFCS   win 3.0)                | (•)                 | (•)     | (•)     |
| 21 CFR Part 11 software module (optional for MFCS   win 3.0)                      | (•)                 | (•)     | (•)     |

• Standard (•) Optional – (ETO) Not available or only customized solution

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