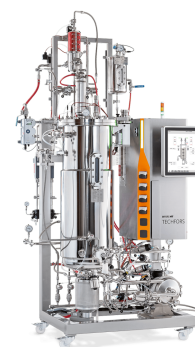


Techfors

The Techfors pilot scale bioreactor offers a customized solution for bioprocesses on a production scale. Each Techfors pilot scale bioreactor is designed individually according to your needs. Therefore, the specifications listed in the following represent the standard configurations and are not exhaustive.



Dimensions

Please note that the information on dimensions are only approximate values without optional components. As each Techfors is individual, the specifications may differ.

| Dimensions base unit | 75 L | 150 L | 300 L | 750 L |
|----------------------|------|-------|-------|-------|
| Width, mm | 1400 | 1500 | 1600 | 1900 |
| Depth, mm | 1100 | 1250 | 1450 | 2000 |
| Height, mm | 2700 | 2750 | 3400 | 4220 |

Vessel

| Vessel sizes and dimensions | | | | |
|-------------------------------|---------|---------|---------|---------|
| Total volume (TV), L | 75 | 150 | 300 | 750 |
| Max. working volume, L | 50 | 100 | 200 | 500 |
| Min. working volume, L | 12 | 20 | 35 | 87 |
| Total volume vessel jacket, L | 4.2 | 10.5 | 17.6 | 31 |
| Height, mm ¹⁾ | 984 | 1200 | 1600 | 2079 |
| Inside diameter, mm | 316 | 411 | 500 | 688 |
| Ratio H/D | 3.1 : 1 | 2.9 : 1 | 3.2 : 1 | 3.0 : 1 |

¹⁾ without top plate and bottom valve

| Limits | | |
|-------------------|---------------|--------------------|
| Temperature range | Vessel | -10 °C to +150 °C |
| | Vessel jacket | -10 °C to +150 °C |
| Pressure range | Vessel | -1 bar to +4 bar |
| | Vessel jacket | -1 bar to +3.5 bar |

| Materials | | |
|----------------------------------|-------------------|------------------------------|
| Parts in contact with medium | Material | AISI 316L |
| | Surface roughness | Ra ≤ 0.6 µm, electropolished |
| Parts not in contact with medium | Material | AISI 304 |
| | Surface roughness | Ra ≤ 1.2 µm, electropolished |

| Bottom valve variants | | |
|--------------------------------------|------------|-------------------------------------|
| INFORS combined harvest/sample valve | Actuator | Manual |
| | Harvesting | Hose nozzle, OD = 35 mm, ID = 25 mm |
| | Sampling | Needle, ID = 4 mm |
| Harvest valve NovAseptic | Actuator | Pneumatic |
| | Harvesting | Tri-Clamp 1" (ASME-BPE 2009) |
| Harvest valve Rattiinox | | |

| Sample valve variants (optional) | | |
|----------------------------------|--------------------|---------------------------|
| Sample valve INFORS | Actuator | Manual |
| Sample valve KEOFITT | Process connection | Ingold nozzle, ID = 25 mm |
| Sample valve Rattiinox | Sampling | Needle, ID = 4 mm |

Vessel Ports

| Vessel top plate ports | Quantity acc. to total volume | | | |
|--|-------------------------------|-------|-------|-------|
| | 75 L | 150 L | 300 L | 750 L |
| 19 mm with Rd28x1/8 (e.g. sensors, push valves, manometer, etc.) | 9 | 9 | 9 | 12 |
| Tri-Clamp 1-1/2" (exit gas, pressure safety device) | 2 | 2 | 2 | --- |
| Tri-Clamp 1-1/2" (optional CIP system) | 2 | 2 | 2 | 2 |
| Tri-Clamp ISO DN25 (pressure safety device) | --- | --- | --- | 1 |
| Tri-Clamp 2-1/2" (exit gas) | --- | --- | --- | 1 |

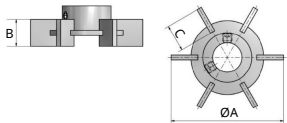
| Ingold nozzles and other ports | | Quantity acc. to total volume | | | |
|--|----------|-------------------------------|-------|-------|-------|
| | | 75 L | 150 L | 300 L | 750 L |
| Vessel upper section | | | | | |
| Tri-Clamp (headspace and sparger gassing) | ISO DN10 | 2 | 2 | --- | --- |
| | ISO DN15 | --- | --- | 2 | --- |
| | ISO DN25 | --- | --- | --- | 2 |
| Ingold nozzle, ID = 25 mm, G1-1/4", horizontal (e.g. feed lines) | | 2 | 2 | 2 | 2 |
| Vessel jacket | | | | | |
| Ingold nozzle, ID = 25 mm, G1-1/4", angled (15°) (sensors) | | 4 | 4 | 4 | 4 |
| Ingold nozzle, ID = 25 mm, G1-1/4", horizontal (e.g. sample valve) | | 1 | 1 | 1 | 1 |

Stirrer

| General | | |
|--|--------------------------------------|--|
| Drive | Bottom drive | |
| Sealing | Double mechanical seal (SiC/Carbone) | |
| Direction of rotation of stirrer shaft | 75 L / 150 L | Counter-clockwise (top view) |
| | 300 L / 750 L | Clockwise (top view) |
| Motor type | 75 L / 150 L | Water cooled, asynchronous |
| | 300 L / 750 L | Servomotor |
| Range rotation speed ¹⁾ | 75 L | 60 min ⁻¹ to 1000 min ⁻¹ |
| | 150 L | 60 min ⁻¹ to 900 min ⁻¹ |
| | 300 L | 60 min ⁻¹ to 700 min ⁻¹ |
| | 750 L | 60 min ⁻¹ to 500 min ⁻¹ |
| Accuracy measurement and control | at ≤ 1000 min ⁻¹ | ± 5 min ⁻¹ |
| | at > 1000 min ⁻¹ | 1% setpoint |

¹⁾ Rotation speed ranges apply in liquid with viscosity similar to water, with or without gassing.

| Impellers | |
|-----------|--|
| Type | Rushton impeller, 6 blades |
| Material | AISI 316L, Ra 0.8 µm, electro-polished |
| Quantity | 3 |

| Dimensions impellers [mm] | | 75 L | 150 L | 300 L | 750 L |
|--|---|------|-------|-------|-------|
|  | A | 105 | 132 | 150 | 230 |
| | B | 21 | 26 | 30 | 45 |
| | C | 26 | 33 | 42 | 60 |

Gassing System

| General specifications | |
|------------------------|---|
| Gas entry | Ring sparger |
| Gas(es) | Air Air + O ₂ Air + N ₂ Air + O ₂ + N ₂ Additional gas: CO ₂ |

| Gassing strategy variant Standard | |
|--|--------------------------|
| Gas flow control | 1 MFC |
| Gas mix control (only relevant for multi-gas configurations) | 1 solenoid valve per gas |

| Gassing strategy variant High End | |
|--|---------------|
| Gas flow control | 1 MFC per gas |
| Gas mix control (only relevant for multi-gas configurations) | via MFCs |

| Accuracy measurement and control | | |
|----------------------------------|------------------------------|----------|
| With MFC Red-y smart series | at ≤ 150 L min ⁻¹ | ± 2 % FS |
| | at > 150 L min ⁻¹ | ± 3 % FS |
| With MFC Bürkert 8626 | | ± 3 % FS |

| Mass Flow Controllers (MFC) | |
|--|------------------------------------|
| 75 L, 150 L, 300 L (CO ₂) | |
| Type | Red-y smart series, Hi-Performance |
| Dynamic | 1:100 |
| 300 L (other than CO ₂), 750 L | |
| Type | Bürkert 8626 |
| Dynamic | 1:50 |

| Control ranges MFCs in L min ⁻¹ | | |
|--|--------------------------------------|-----------------|
| Vessel size | Air, O ₂ , N ₂ | CO ₂ |
| 75 L TV | 1 to 100 | 0.5 to 50 |
| 150 L TV | 2 to 200 | 1 to 100 |
| 300 L TV | 8 to 400 | 2 to 200 |
| 750 L TV | 20 to 1000 | 10 to 500 |

| Filter | | |
|-----------------|---------------------|-------------------------|
| 75 L and 150 L | Type filter housing | Advanta Junior AGT |
| | Type filter element | Emflon II, Polypropylen |
| | Retention rate | 0.2 µm |
| 300 L and 750 L | Type filter housing | PGT 5" |
| | Type filter element | Emflon PFR 5" |
| | Retention rate | 0.2 µm |

Temperature Control System

| | | |
|--|----------------------------|---|
| Heating | Standard | Steam heating via house steam supply |
| | Option | Steam generator (→ Page 5) |
| Cooling | Standard | Tap water / cooling water system (on site) |
| | Options | Switching from tap to chilled water (automatic or via manual ball valves) Chiller (→ Page 5) |
| Sterilisation | | Automatic with steam |
| Sensor | Vessel | Pt100 class A, 1/3 DIN |
| | Temperature control system | Pt100 class B, 1/3 DIN |
| Temperature range | Sterilisation | 110 °C to 125 °C |
| | Cultivation ¹⁾ | 10 °C to 79 °C |
| Accuracy measurement and control (cultivation) | at ≤ 60 °C | ± 0.3 °C |
| | at > 60 °C | ± 0.5 °C |

¹⁾ at 4 °C cooling media temperature and 25 °C ambient temperature

Exit Gas System

| Components | | |
|-----------------|-----------------------------------|--------------------|
| Exit gas cooler | Material | Stainless steel |
| Filter | Type filter housing (with CIP) | PGT 5" |
| | Type filter housing (without CIP) | PLI 5" |
| | Type filter element | Emflon PFR 5" |
| | Retention rate | 0.2 µm |
| Steam trap | Type | Thermal steam trap |
| | Material | Stainless steel |

Antifoam Control

| | |
|---------|----------------------------------|
| Sensor | Conductive |
| Control | Peristaltic pump <i>Antifoam</i> |
| Display | 0 % (no foam) / 100 % (foam) |

pH Control

| General | |
|----------------------|---|
| Control | Peristaltic pumps <i>Acid</i> and <i>Base</i> |
| Control range | pH 2 to 12 |
| Accuracy measurement | pH ± 0.1 |

| Measurement system HAMILTON (digital) | |
|---------------------------------------|-------------------|
| Sensor type | Easyferm Plus ARC |
| Measurement range | pH 0 to 14 |

| Measurement system METTLER (digital) | |
|--------------------------------------|------------------|
| Sensor type | InPro 3253i, ISM |
| Measurement range | pH 0 to 12 |

| Measurement system METTLER (analogue) | |
|---------------------------------------|---------------------|
| Sensor type | 405-DPAS-SC-K8S/120 |
| Measurement range | pH 2 to 12 |

pO₂ Control

| General | |
|----------------------|--|
| Control via cascade | Stirrer, gas flow, gas mixture (addition of O ₂) |
| Control range | 0 %-sat. to 100 %-sat. |
| Accuracy measurement | ± 1 % |

| Measurement system HAMILTON (digital) | |
|---------------------------------------|-----------------------------|
| Sensor type | Visiform DO ARC / RS485-ECS |
| Measurement range | 0 %-sat. to 300 %-sat. |

| Measurement system METTLER (digital) | |
|--------------------------------------|------------------------|
| Sensor type | InPro6860i, ISM |
| Allowed temperature range | 0 °C to 60 °C |
| Measurement range | 0 %-sat. to 285 %-sat. |

| Measurement system METTLER (analogue) | |
|---------------------------------------|------------------------|
| Sensor type | InPro 6820/25/080 |
| Measurement range | 0 %-sat. to 150 %-sat. |

Pumps

Integrated Pumps

| General | | |
|--|--|-----------------------|
| Type | Peristaltic pump with 4-roll pump head 114DV | |
| Quantity digital | 3 (Acid, Base, Antifoam) | |
| Quantity analogue | Standard | 1 (Feed) |
| | Option | 2 (Feed 2 and Feed 3) |
| Rotation speed digital (fixed speed) | 200 min ⁻¹ | |
| Rotation speed analogue (adjustable within range of 0 % to 100 %, increment 0.1 %) | 0 min ⁻¹ to 200 min ⁻¹ | |
| Accuracy | ± 5 min ⁻¹ | |
| Pump hoses | Sizes (ID) | 0.5 mm to 4.8 mm |
| | Wall thickness | 1.6 mm |

| Flow rates in mL min ⁻¹ (values valid for new marprene pump hoses) | | |
|---|-----------|-------------|
| Inside diameter hose | 1 % speed | 100 % speed |
| 0.5 mm | 0.038 | 3.917 |
| 1.6 mm | 0.26 | 27.2 |
| 3.2 mm | 0.85 | 84.97 |
| 4.8 mm | 1.7 | 172.2 |

External Pumps (Option)

A: Masterflex L/S Cytoflow, 3-roll pump head

B: Watson Marlow 120U

C: Watson Marlow 323U/D2

| | A | B | C |
|--|----------|----------|----------|
| Max. rotation speed, min ⁻¹ | 600 | 200 | 400 |
| Setting range, % | 0 to 100 | 0 to 100 | 0 to 100 |
| Increment, % | 0.1 | 0.1 | 0.1 |
| Min. flow rate, mL min ⁻¹ | 0.06 | 0.002 | 0.09 |
| Max. flow rate, mL min ⁻¹ | 3400 | 190 | 2000 |

Vessel Pressure Display (Manometer)

| | |
|-------------------|-------------------------|
| Connection | 19 mm port in top plate |
| O-ring material | EPDM |
| Measurement range | 0 bar to 4 bar |

Pressure Safety

| | | |
|--|-------------------|--|
| Safety valve vessel | Type | Clean service spring-loaded safety valve |
| | Response pressure | 4 barg |
| Rupture disc vessel | Type | Sanitary rupture disc with or without indicator |
| | Response pressure | 4 barg |
| Safety valve temperature control circuit | Type | Standard safety valve, angle type, spring-loaded |
| | Response pressure | 3.5 barg |

Operating Panel

| | |
|------------|-------------------------|
| HMI | 17" colour touch screen |
| Protection | IP 66 |

Steam Generator (Optional)

A: Variant 15 kW D: Variant 45 kW
B: Variant 20 kW E: Variant 60 kW
C: Variant 30 kW

| | A | B | C | D | E |
|-------------------------------|--------------------------|---------|----------|----------|-----|
| Power, kW | 15 | 20 | 30 | 45 | 60 |
| Max. steam power, kg/h | 21 | 27 | 41 | 63 | 82 |
| Suitable for vessel volume, L | 75 | 75, 150 | 150, 300 | 300, 750 | 750 |
| Mains supply | 400 V (± 5 %) / 50/60 Hz | | | | |

Chiller (Optional)

A: Variant 4 kW
B: Variant 7 kW
C: Variant 12 kW

| | A | B | C |
|-------------------------------|--|-----|-----|
| Max. cooling capacity, kW | 4 | 7 | 12 |
| Suitable for vessel volume, L | 75, 150 | 300 | 750 |
| Mains supply | 400 V / 3 Ph. / 50 Hz 230 V / 3 Ph. / 60 Hz | | |

Level Detection (Optional)

| | |
|---------|---------------------------------------|
| Sensor | Conductive, mounting depth adjustable |
| Display | 0 % (no liquid) / 100 % (liquid) |

Turbidity Measurement (Optional)

| | |
|------------------------------|---|
| Sensor type | ASD25-N |
| Optical path lengths | OPL01 (highest cell densities) OPL05 (higher cell densities) OPL10 (lower cell densities) |
| Measurement range absorption | 0 CU to 4 CU |

Exit Gas Analysis (Optional)

| | | CO ₂ | O ₂ |
|----------------|--|-----------------|----------------|
| Ranges, Vol. % | BlueInOne Ferm | 0 to 10 | 1 to 25 |
| | | 0 to 10 | 1 to 50 |
| | | 0 to 25 | 1 to 25 |
| | BlueInOne Cell | 0 to 10 | 0 to 100 |
| | BlueVary (cartridge ZrO ₂) | 0 to 10 | 0.1 to 50 |
| | BlueVary (cartridge eC) | 0 to 25 | 0 to 25 |
| | | 0 to 10 | 0 to 100 |

| | | |
|-----------------|--|---|
| Sensor accuracy | BlueInOne Ferm, BlueInOne Cell | < ± 0.2 % FS, ± 3 % of value |
| | BlueVary CO ₂ | ± 3 % of value, ± 0.2 % of range; ± 5 % of value, ± 0.5 % of range for 50 % range |
| | BlueVary O ₂ (eC and ZrO ₂) | ± 3 % of value, ± 0.2 % of range |
| Sensor drift | BlueInOne Ferm, BlueInOne Cell | < ± 2 % value / year |
| | BlueVary | 0.2 % value / month |

pCO₂ Measurement (Optional)

| | |
|-------------------|---------------------------|
| Sensor type | InPro5000i, ISM (digital) |
| Transmitter type | M400 |
| Measurement range | 0 hPa to 1000 hPa |

Redox Measurement (Optional)

| Measurement system HAMILTON digital | |
|-------------------------------------|-----------------------|
| Sensor type | Easyferm Plus ORP ARC |
| Measurement range | -1500 mV to +1500 mV |
| Accuracy | ± 10 mV |

| Measurement system METTLER analogue | |
|-------------------------------------|----------------------|
| Sensor type | Pt4805-DPAS-SC-K8S |
| Measurement range | -2000 mV to +2000 mV |
| Accuracy | ± 10 % |

Pressure Control (Optional)

| | |
|----------------------------------|--|
| Sensor | Piezo-resistive pressure transmitter |
| Measurement range | -1 bar to 3 bar |
| Control | Proportional valve with electronic open-loop control |
| Control range | 0 bar to 1.5 bar |
| Accuracy measurement and control | ± 0.1 bar |

Weight Measurement (Optional)

| | | |
|----------------------|-------------------------|---|
| Sensor type | Bending rod load cell | |
| Quantity | 75 L to 300 L | 1 |
| | 750 L | 4 |
| Accuracy measurement | ± 1 % FS (total volume) | |

Foam Detection Exit Gas (Optional)

| | |
|---------|---|
| Sensor | Conductive |
| Display | 0 (no foam) / 100 (foam) with alarm |
| Action | Alarm <i>High foam detected</i> is triggered, gassing is switched off |

CIP System (Optional)

Note: The CIP system is available either as an integrated option or as a mobile unit, the INFORS HT TechCIP. The specifications below apply to both variants. Additionally, the TechCIP is equipped with four wheels, a control unit with touchscreen and two peristaltic pumps.

| Pump | |
|------------|----------------------------------|
| Type | Stainless steel centrifugal pump |
| Shaft seal | Simple mechanical seal |

| Conductivity sensor | | |
|---------------------|---|-------|
| Sensor type | Conducell 4USF ARC | |
| Measurement range | 1 µS cm ⁻¹ to 300000 µS cm ⁻¹ | |
| Accuracy | at ≤ 100000 µS cm ⁻¹ | ± 3 % |
| | at > 100000 µS cm ⁻¹ | ± 5 % |

| Spray Balls | |
|-------------|-------|
| Quantity | 2 |
| Diameter | 25 mm |

Balances (Option)

A: Mettler MA6002 C: Kern FKB 6K0.02-B
B: Mettler MA32001L D: Kern DS 30K0.1-A

| | A | B | C | D |
|-------------------|-------------------------------|------|------|-----|
| Max. capacity, kg | 6.2 | 32.2 | 6 | 30 |
| Readability, g | 0.1 | 0.1 | 0.02 | 0.1 |
| Power supply | 100 to 240 V, 50/60 Hz, 0.3 A | | | |

Note: In order to use one of the supported balances, the balance must be prepared and configured by INFORS HT.

Lifting Device for Vessel Top Plate (Optional)

| | |
|--------------------------|--|
| Manual lifting device | Manual lifting device with pulley block integrated into the frame. |
| Automatic lifting device | Electronic lifting device. Rotates the top plate to 90°. |

Peripherals (Optional)

| | |
|------------------------------|--|
| Resterilisable feed line | Allows a sterile connection between the bioreactor and a container for the sterile addition of liquid. |
| Resterilisable transfer line | Allows a sterile connection between the bioreactor and an external tank to transfer the liquid from/to the bioreactor. |

Operating Conditions

| | |
|------------------------------------|-------------------|
| Ambient temperature | 5 °C to 35 °C |
| Ambient humidity | 20 % to 90 % |
| Altitude operating location | max. 2000 m.a.s.l |
| Pollution degree as per EN 61010-1 | 2 |
| Minimum distance | 150 mm |

Interfaces

| | |
|--------------------|--|
| 9-pin D-SUB, RS232 | Balance input |
| USB 2.0 | Backups/service purposes |
| Ethernet, RJ45 | To integrate the device into a network |

Various

| | |
|-----------------------------------|-------------|
| Sound pressure | < 70 dB (A) |
| IP rating instrumentation cabinet | IP43 |

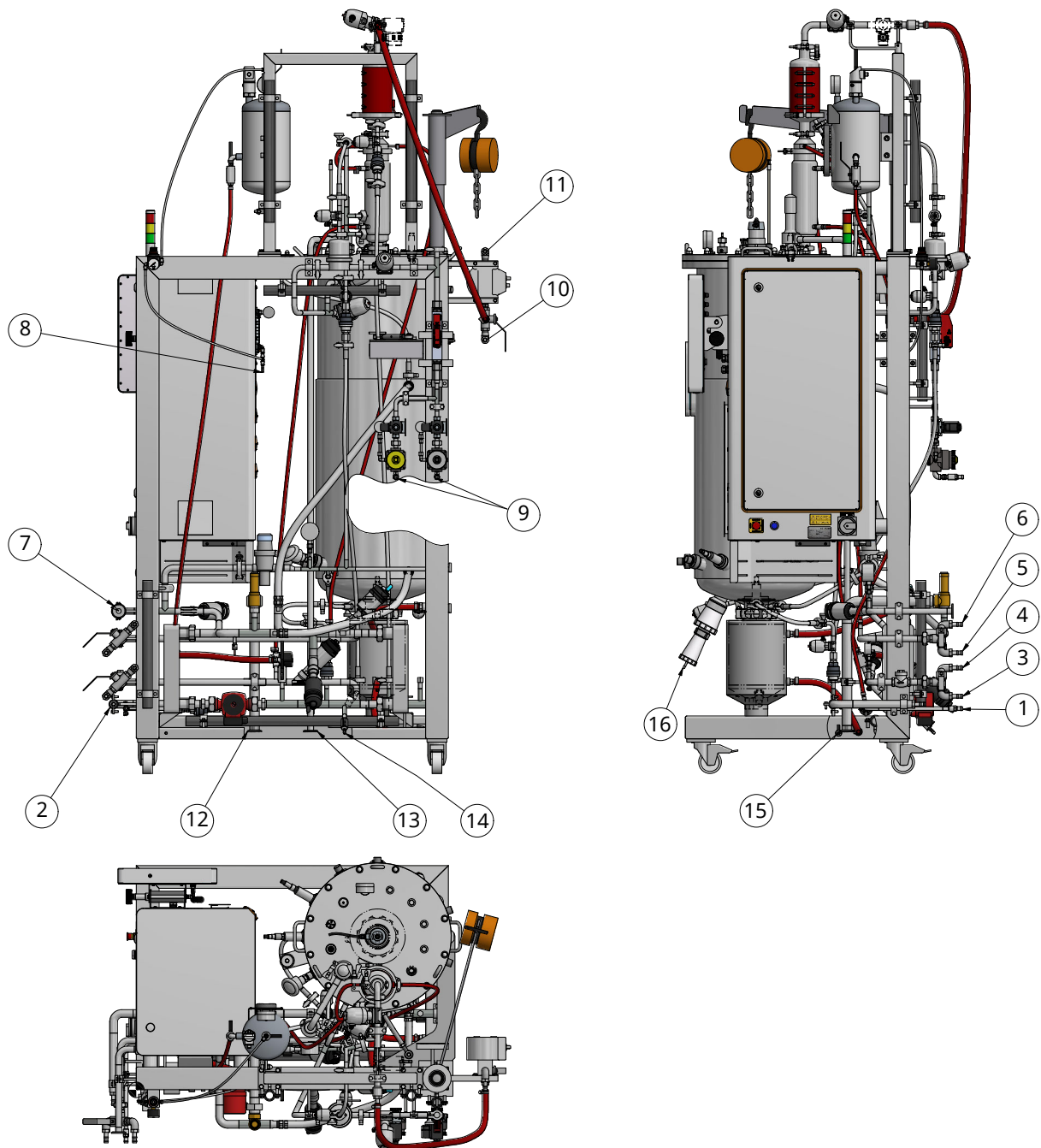
Electrical Connection and Power Values

| | |
|--|----------------|
| Bioreactor | |
| Mains voltage (3 phases L1, L2, L3 + N (neutral) + PE (earth)) | 400 V (± 5 %) |
| Mains frequency | 50 Hz or 60 Hz |
| Max. rated current | 16 A |
| Leakage current | > 3.5 mA |

| | |
|--|----------------|
| Drive system (only for vessel 750 L) | |
| Mains voltage (3 phases L1, L2, L3 + N (neutral) + PE (earth)) | 400 V (± 5 %) |
| Mains frequency | 50 Hz or 60 Hz |
| Max. rated current | 32 A |

Connections/Utilities

Note: The following illustration and the information on the connection values correspond to a typical configuration of a device with a total volume of 150 L. The specifications may vary depending on the size and project-specific customizations.



| Pos. | Connection | Connection type | Pressure | Requirements |
|-------|-----------------------------------|-------------------|---|--|
| 1 | Not contaminated condensate | Hose nozzle DN 13 | No backpressure | <ul style="list-style-type: none"> Drains must be heat resistant (max. 100 °C). Contaminated liquids must be drained safely and disposed of in an environmentally friendly manner. |
| 2 | Contaminated condensate | Hose nozzle DN 13 | No backpressure | |
| 3 | Tap water in | Hose nozzle DN 13 | 2.5 bar to 4.0 bar | <ul style="list-style-type: none"> CaCO₃ concentration 0 mmol L⁻¹ to 1.5 mmol L⁻¹ |
| 4 | Chilled water in (Option) | Hose nozzle DN 13 | 2.5 bar to 4.0 bar | |
| 5 | Tap water out | Hose nozzle DN 13 | No backpressure | |
| 6 | Chilled water out (Option) | Hose nozzle DN 13 | No backpressure | <ul style="list-style-type: none"> Backpressure must not exceed 1.0 bar Δ p. |
| 7 | Clean steam in | Tri-Clamp DN 15 | 2.0 bar ± 0.2 bar | <ul style="list-style-type: none"> Steam must be dry at the specified operating pressure and with the correct flow rate for the size of the bioreactor to be sterilised. Clean steam quality and can pass through a 5 micron filter. |
| 8 | Instrument air | Hose nozzle DN 6 | 6.0 bar to 7.0 bar | <ul style="list-style-type: none"> Air must be free of oil, dry and neutral (recommended pre-filter 5 µm). |
| 9 | Gas in (air and other gases) | Hose nozzle DN 13 | 3.0 bar to 6.0 bar | <ul style="list-style-type: none"> Gases must be dry, clean and free of oil and dust; (recommended pre-filter: 10 µm). Recommended compressed air quality as per DIN ISO 8573-1: Class 1,2,3,4 |
| 10 | Exit gas | Hose nozzle DN 13 | No backpressure | <ul style="list-style-type: none"> Must be dissipated securely with a suitable, gas-tight hose. |
| 11 | Gas analysis (Option) | Hose nozzle DN 13 | No backpressure | |
| 12 | Safety valve (Temp.-system) | Tri-Clamp DN 25 | No backpressure | <ul style="list-style-type: none"> The safety valve line must have no, or at most a backpressure of 10 % of the set pressure. |
| 13 | Safety valve (Vessel) | Tri-Clamp DN 15 | No backpressure | <ul style="list-style-type: none"> The safety valve line must have no, or at most a backpressure of 15 % of the set pressure. |
| 14 | Emptying valve (Temp.-system) | Hose nozzle DN 8 | No backpressure | |
| 15 | Emptying valve (Frame) | Hose nozzle DN 8 | No backpressure | |
| 16 | Harvest-/Sample valve | Hose nozzle DN 35 | - | |
| n. A. | CIP inlet (WFI) (option) | Tri-Clamp DN 15 | max. 3.0 bar | <ul style="list-style-type: none"> WFI, Water for Injection |
| n. A. | Waste water CIP (option) | Tri-Clamp DN 20 | No backpressure | |
| n. A. | Water in steam generator (option) | Hose nozzle DN 13 | 2.5 bar to 4.0 bar (15 kW and 20 kW) 3.0 bar to 6.0 bar (30 kW, 45 kW and 60 kW) | <ul style="list-style-type: none"> CaCO₃ concentration 0 mmol L⁻¹ to max. 0.53497 mmol L⁻¹ |
| n. A. | Emptying steam generator (option) | Hose nozzle DN 13 | No backpressure | |

eve®



eve® is a platform software for planning, execution and analysis of bioprocesses. eve® allows you to record bioprocess data and store it in a central database. The software offers workflows from simple bioprocesses to the planning and execution of complex strategies with various phases.

eve® makes it possible to generate and store bioprocess knowledge. Various libraries for storing information on organisms and culture media are available. Thanks to soft-sensors, additional knowledge can be generated.

In addition to INFORS HT products, biotech machines and analysis devices from third-part manufacturers can be connected. This makes it possible to holistically control, monitor and analyse bioprocesses using a single software.

eve® is installed on a centralised server. Access takes place via a browser, no client side installation is required. Bioprocess data is therefore available directly via the browser and independent of the operating system.

Various packages of the software are available. This makes it possible to adapt it to the individual needs and requirements of its users. eve® (in the premium version) is also suitable for working in a validated environment as per FDA CFR 21 Part 11.