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biotech

Biostat[®] Cplus The Stainless Steel Fermenter | Bioreactor for Your Laboratory



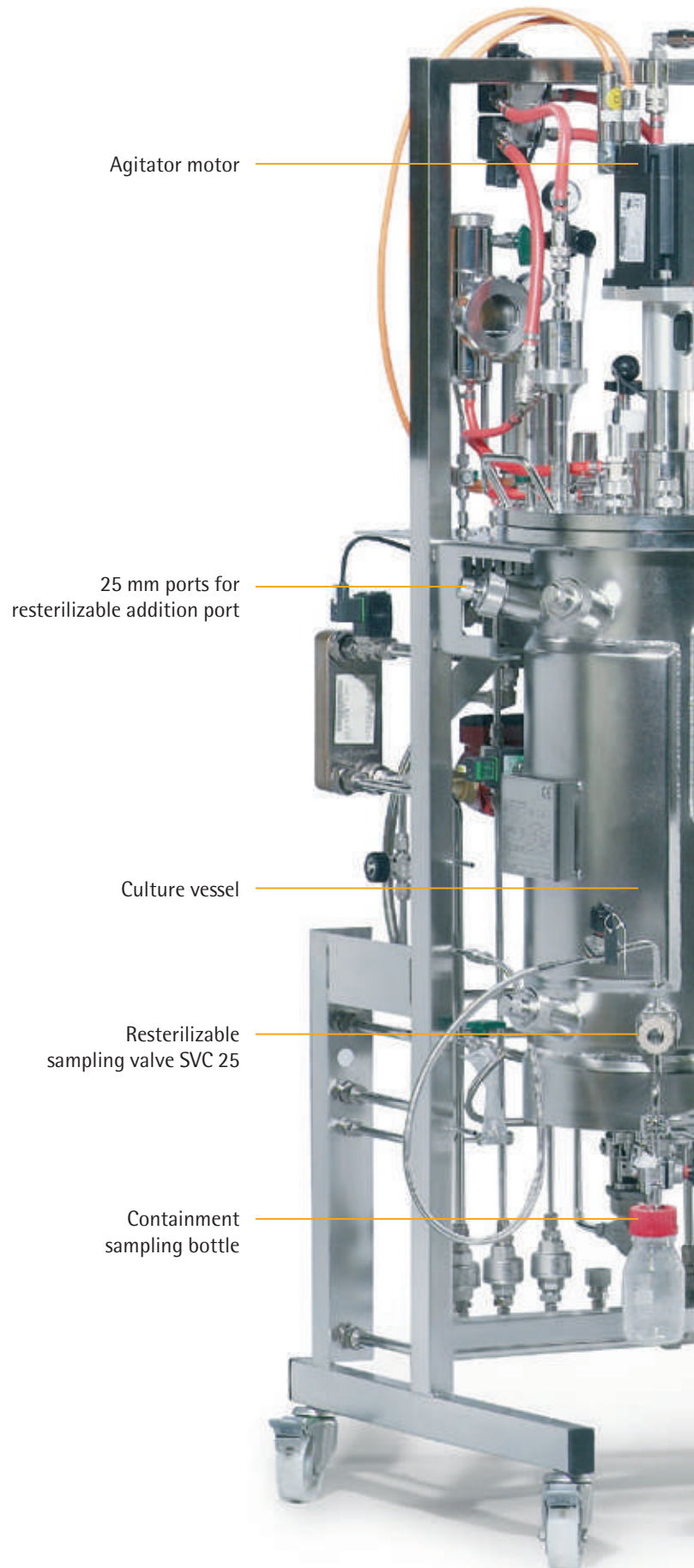
turning science into solutions

Biostat® Cplus System Concept

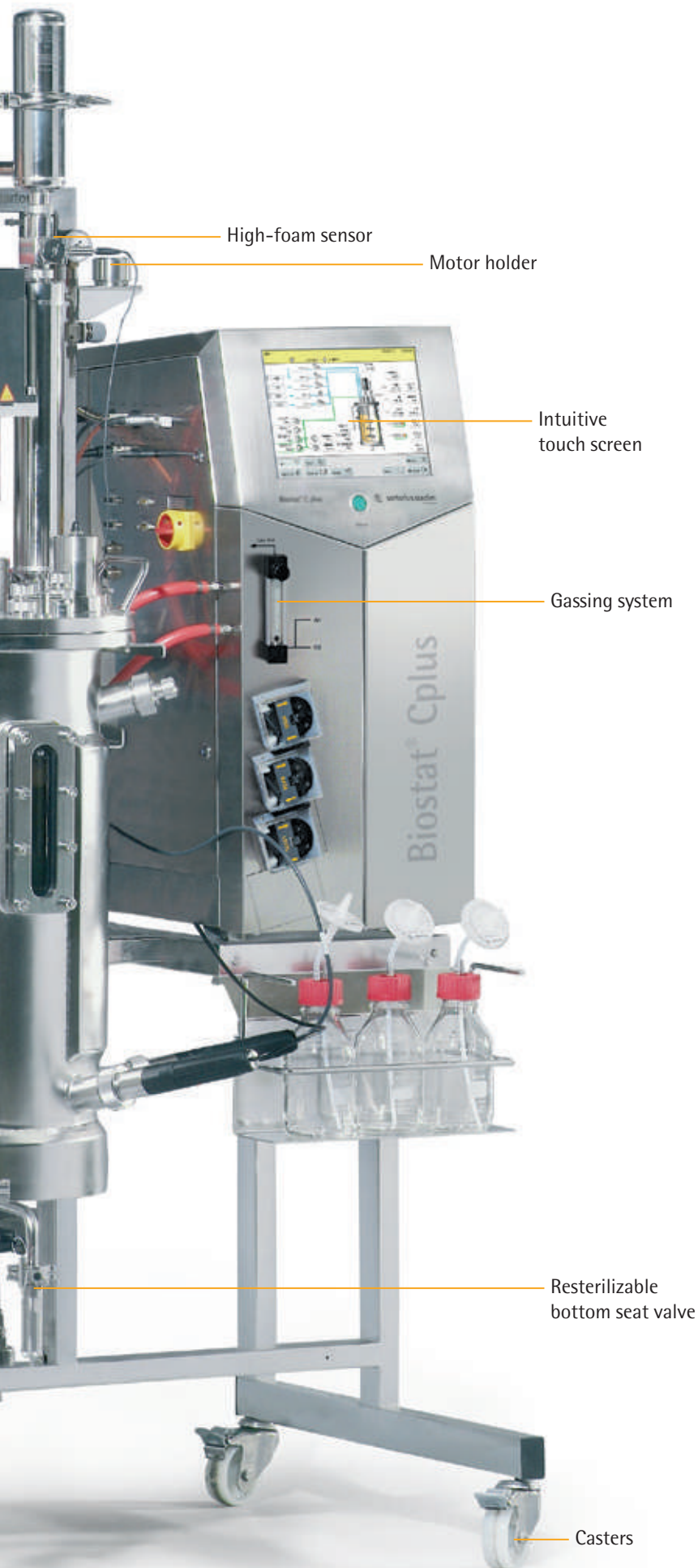
The Biostat® Cplus is a Sterilizable-In-Place (SIP) Fermenter | Bioreactor developed for the cultivation of microorganisms and cell cultures. Culture vessels with operating volumes of 5 L, 10 L, 15 L, 20 L and 30 L are available. The system can be flexibly integrated into your laboratory. The culture vessel can be sterilized with electro or steam heating. It can easily be moved to another location using casters under the supply unit. With more than a thousand installations worldwide, the Biostat® Cplus is the most successful stainless steel bioreactor of its class and is now available in the revised 3rd generation with DCU controller.

Typical Applications

- Process development for vaccine, recombinant protein and monoclonal antibody production
- Process development for biofuels and for the production of secondary metabolites
- Process strategy development in batch, fed-batch, continuous or perfusion operation
- Scale-up and scale-down experiments
- Small scale production for e.g., diagnostic antibodies
- High cell density fermentation
- Suspension cultures and adherent cell culture with microcarriers
- Cultivation of filamentous organisms



Your Advantages



Cost-effective integration into existing infrastructure, choice between electro or steam heating for operation and sterilization

DCU control unit with simple, intuitive touch screen operation

Attractive additional functions such as gravimetric feed control, advanced DO controller, and integrated offgas analyzer

Compact, mobile design saves valuable laboratory space

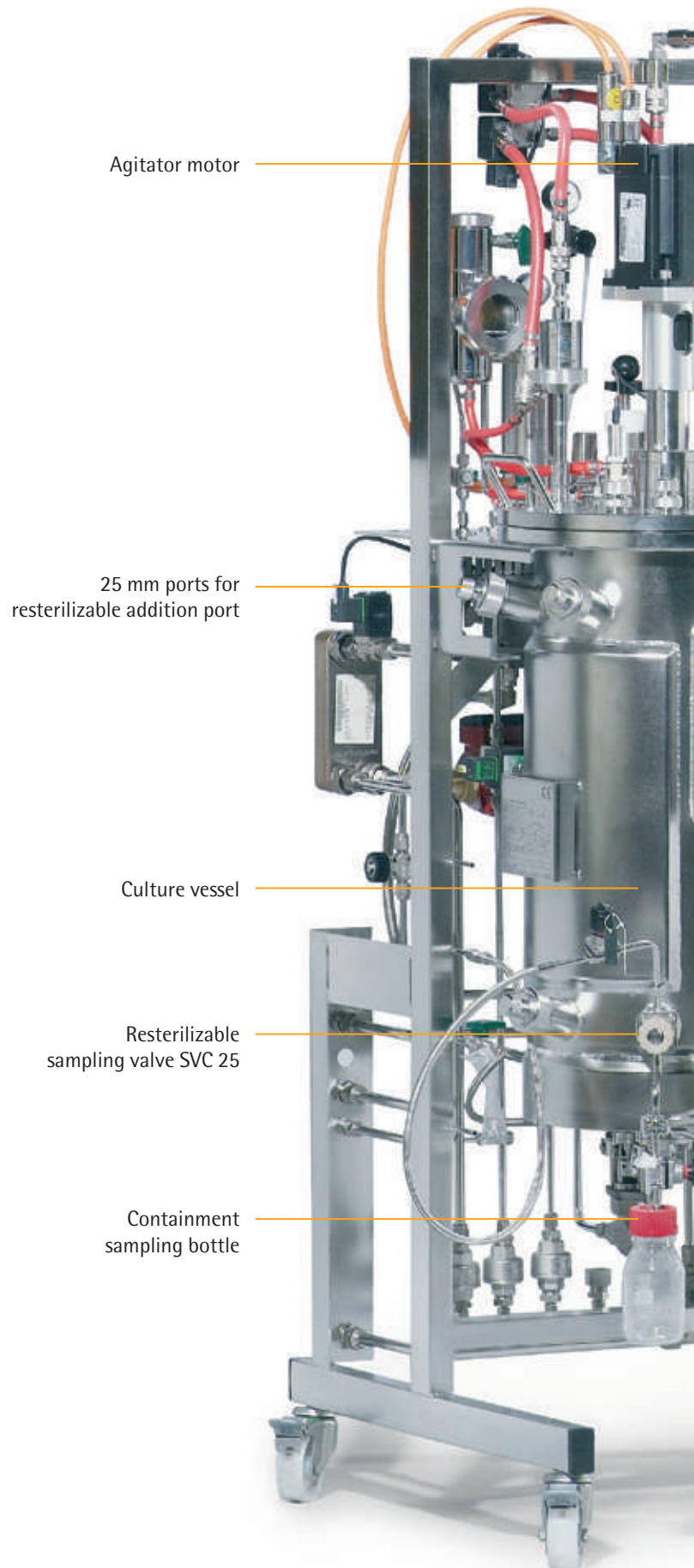
Maintenance-free agitator motor and automatic sequences for sterilization and pressure hold test ensure excellent safety

Biostat® Cplus System Concept

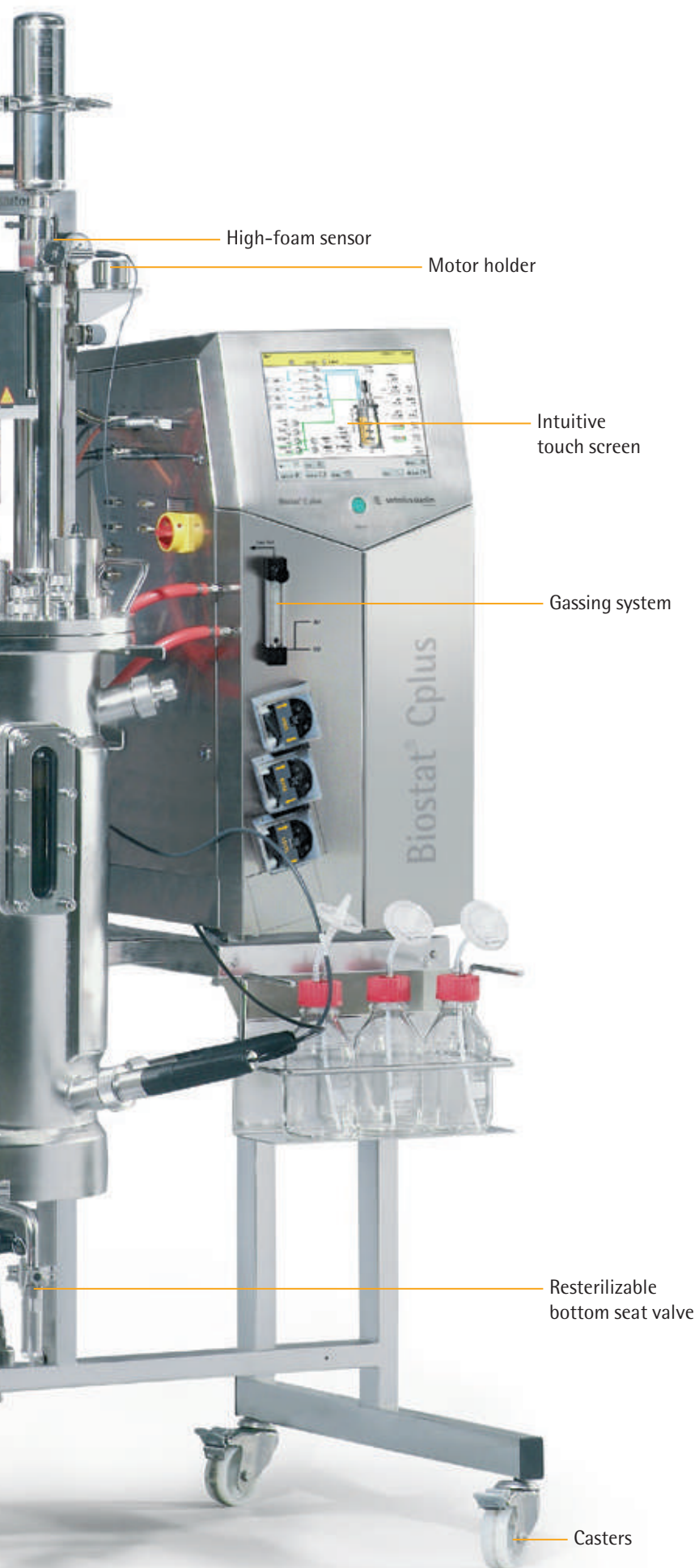
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Configurable Flexibility



The modular design allows individual system configuration in order to meet your application-specific requirements, from the basic configuration through to sophisticated equipment with e.g., restorable addition valve, automatic pressure control, containment sampling, integrated offgas measurement and much more.

Our application specialists are happy to support you and help configure your personal Biostat® Cplus for you.

Motor Holder

The motor holder is screwed to the frame. This helps you to position the motor easily and securely if the culture vessel needs to be opened.



Agitator Motor

The maintenance-free agitator motor provides low speeds for the gentle mixing of cell cultures and high speeds for the conduct of microbial high cell density cultivations. The motor is gearfree; therefore it works almost without a sound. It is easy to handle due to the small dimensions and low weight.

Lid Lifting Device

The lid lifting device enables the easy removal of the lid and allows for simple and safe handling during cleaning work or when changing culture vessel accessories.



Culture Vessel

Culture vessels with maximum operating volumes of 5 L, 10 L, 15 L, 20 L and 30 L, and a height | diameter ratio (H:D) of 2:1 or 3:1 (5 L only 2:1) are available. Various lid and side ports enable the simple integration of additional sensors or addition valves.

Sampling Valve SVC 25

The sampling valve SVC 25 is used for finely regulated sampling from the culture vessel. The SVC 25 can be restorable with steam for repeated aseptic sampling. A containment extension kit is also available for sterile and aerosol-free sampling.

Restorable Addition Port APC

The APC is a restorable valve group for installation into the culture vessel, which provides a sterile, secure connection of additions into the culture vessel. Thanks to the APC it is possible to use the same port for inoculation of the sterile culture vessel and later in the process for adding a substrate. It is easy to restorable, safe and cost-effective. In addition, the APC is the perfect interface for the connection of disposable bags such as Flexboy® or Flexel®.

Casters

The casters mean that the system is completely mobile, whether this be for moving it to another laboratory or simply when cleaning the floor.

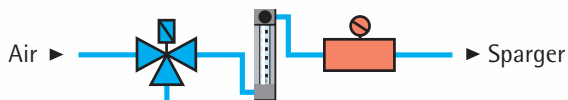
Biostat® Cplus

Gassing Strategies

Flexible gassing options make the Biostat® Cplus a versatile tool for the most wide-ranging applications, from high cell density fermentation with high oxygen requirements through to cell culture with demanding gas mixing of up to four gases.

Microbial Applications

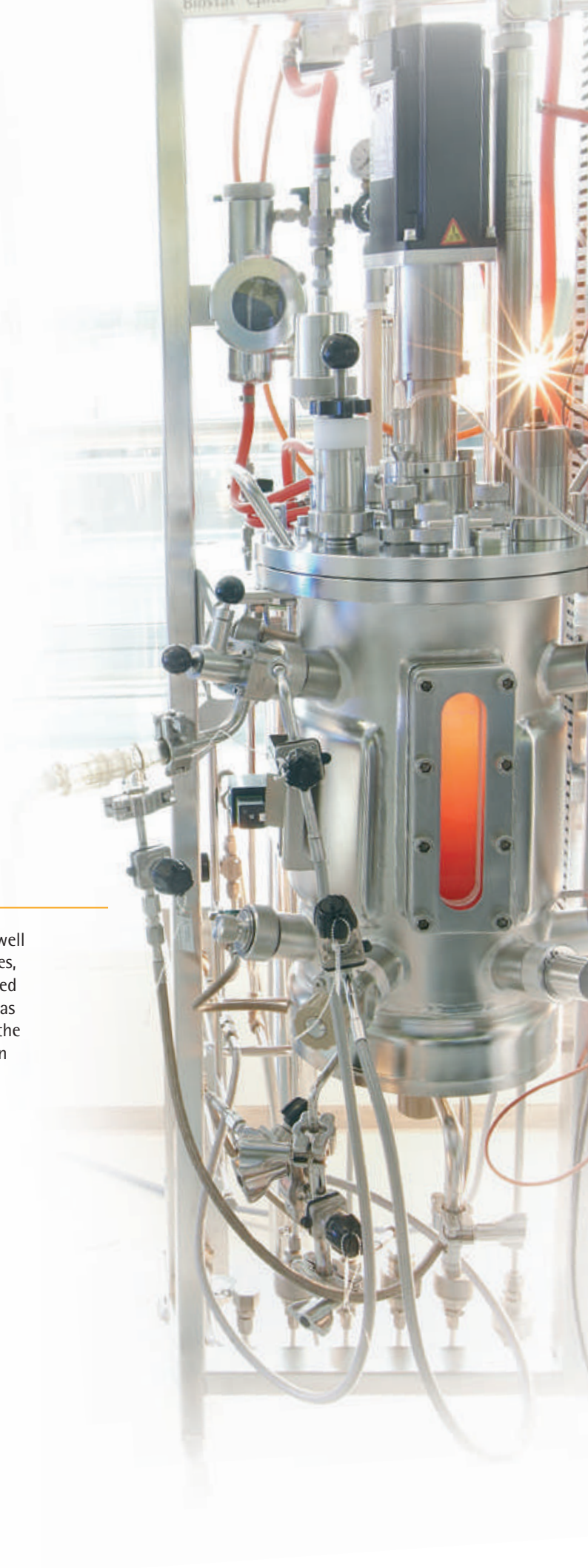
Various configurations allow for aeration with air or oxygen, as well as the traditional O₂ enrichment function. For anaerobic processes, the air inlet can also be used for nitrogen. Solenoid valves installed as standard in combination with a flow meter ensure a reliable gas supply. Optional mass flow controllers offer precise batching of the individual gases, as is needed for example for balancing studies in combination with exhaust analysis.



Gassing system: O₂-Enrichment



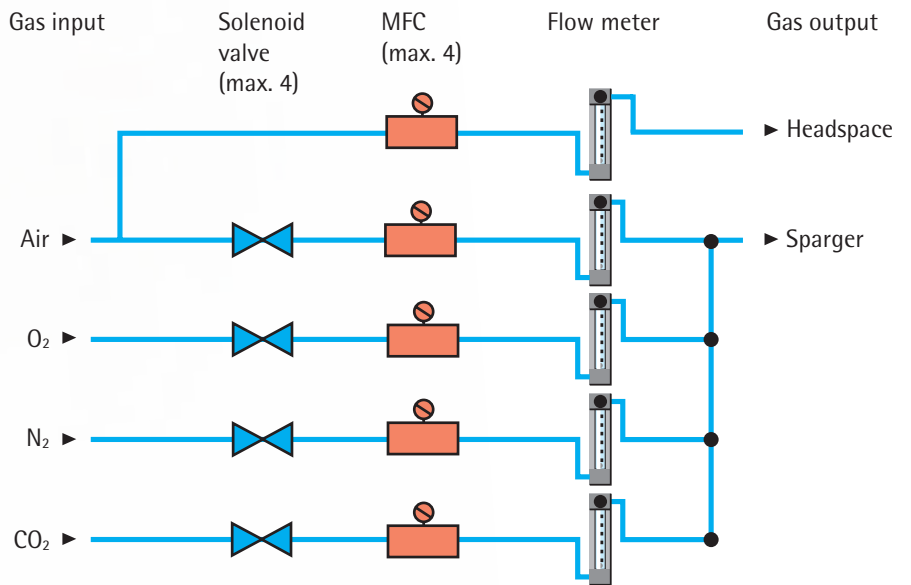
Gassing system: Gas flow ratio





Cell Culture and Multi-Purpose Applications

Five different gas paths, equipped with solenoid valves and flow meters or with up to four optional mass flow controllers provide the maximum level of flexibility and precision.



Gassing system: Additive flow

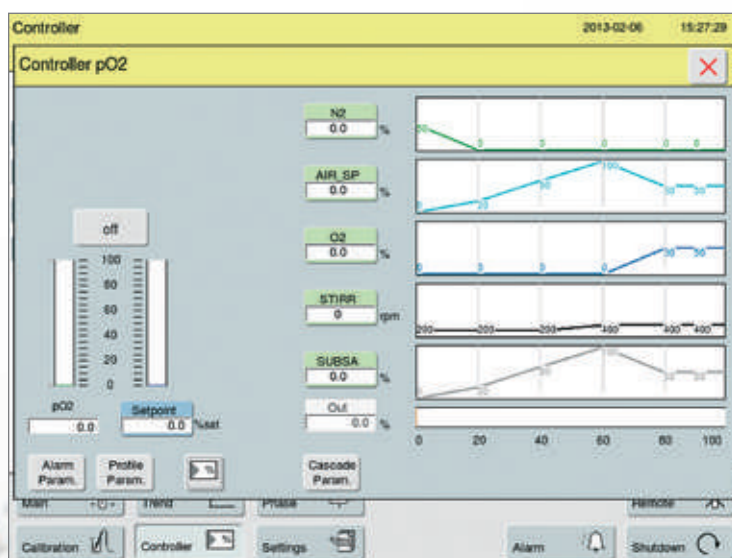
DCU

Local Control

The DCU controller is one of the best proven, most secure and most flexible control solutions both in the upstream and in the downstream process. The DCU is the standard automation platform for our Biostat® bioreactors, SARTOFLOW® Crossflow filtration units, and FlexAct® configurable production solutions and is now also installed in the new Biostat® Cplus. In addition to the measurement and control tasks and the process control for the sterilization of the culture vessel, it is now possible to integrate up to four mass flow controllers and up to two scales or gravimetric feed controller. In addition, a pressure hold test sequence for the culture vessel and the "Advanced DO controller" is optionally available.

Advanced DO Controller

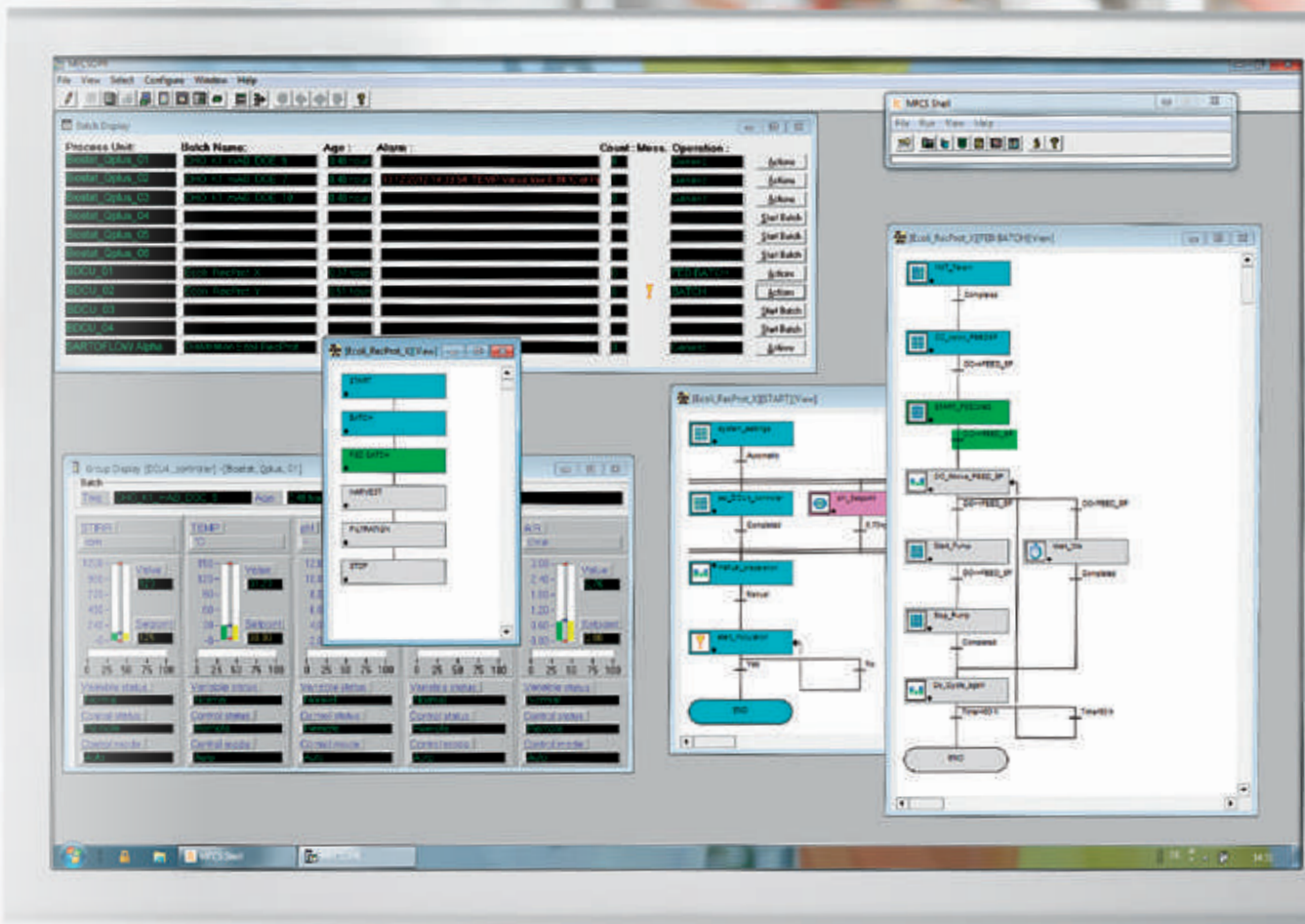
The advanced DO controller is optionally available for the Biostat® Cplus. In comparison with the conventional DO control cascade, the advanced DO controller supports the sequential and parallel operation of up to 5 slave controllers. The controller can be easily configured using the touch screen and results are graphically displayed as a polygonal curve, which is easily understood. The result is maximum flexibility for optimum oxygen regulation in your process.



BioPAT® MFCS

Superior Process Control

BioPAT® MFCS is the international standard software for the control of bio processes and related data recording. More than 25 years of experience has gone into the current version of BioPAT® MFCS. With more than 6,500 installations, it provides a reliable basis for your individual requirements. We supply the BioPAT® MFCS | DA version as standard with each bioreactor for data recording.



Overview of Basic Configurations MO: O₂ Enrichment

Package Overview

Culture vessel volumes	5 L	10 L	15 L	20 L	30 L
Basic configuration	RCP-M05L	RCP-M10L	RCP-M15L	RCP-M20L	RCP-M30L
Control unit					
Digital controller, color display with touch screen			•		
Control capabilities					
Temperature, DO (multi-stage cascade controller), stirrer speed			•		
pH control via addition of acid and base			•		
Sequence for culture vessel sterilization (full sterilization)			•		
Maintenance-free, low-noise agitator motor			•		
Flow meter			•		
Solenoid valve for O ₂ enrichment			•		
Integrated peristaltic pumps				2 for pH regulation (acid and base)	
Process data recording					
BioPAT® MFCS DA			•		
Supply unit	Open frame design				
Temperature control system	Closed loop system with recirculation pump and heat exchanger for heating and cooling				
Installation set			•		
Culture vessel	Jacketed stainless steel culture vessel with vertical sight glass and top agitation (5 L stainless steel glass vessel)				
Stirrer shaft with single mechanical seal (SMS)			•		
6-blade disk impeller	2	3	3	3	3
Stainless steel filter housing for aeration and exhaust incl. sterile filter			•		
Pressure gauge -1 3 barg			•		
Aeration tube with Ring-sparger			•		
Exhaust cooler			•		
4 Baffels (removable)			•		
1-Channel Sacova valve for needle free additions			•		
3-Channel Sacova valve for needle free additions			•		
Lamp for vessel illumination (not for 5L culture vessel)			•		
Storage bottles			2		
Resterilizable bottom seat valve for sampling and harvesting			•		
pH sensor, connection cable			•		
pO ₂ sensor, connection cable			•		
Temperature sensor Pt 100			•		
Options					
Electric heating for culture vessel sterilization (full sterilization) and operation			○		
Weighing system for culture vessel			○		
Pressure hold test for culture vessel			○		
Mass flow controller for air and oxygen			○		
Lid lifting device 10–30 L			○		
Antifoam control via sensor			○		
Advanced DO controller			○		
Up to two gravimetric feed controllers, accuracy 7 kg balance: 5 g/h, accuracy 60 kg balance: 50 g/h			○		
Redox measurement			○		
Turbidity measurement			○		
Resterilizable addition valve APC 19 and APC 25			○		
Qualification documents			○		
Up to two substrate controllers			○		
Integrated or external substrate pumps			○		
Sampling valve SVC 25 (resterilizable)			○		

Overview of Basic Configurations CC: Additive Flow

Package Overview

Culture vessel volumes	5 L	10 L	15 L	20 L	30 L
Basic configuration	RCP-C05L	RCP-C10L	RCP-C15L	RCP-C20L	RCP-C30L
Control unit					
Digital controller, color display with touch screen			•		
Control capabilities					
Temperature, DO (multi-stage cascade control), stirrer speed			•		
pH control via addition of acid CO ₂ and base			•		
Sequence for culture vessel sterilization (full sterilization)			•		
Maintenance-free, low-noise agitator motor			•		
Flow meter "Sparger"			•	• For air, O ₂ , N ₂ , CO ₂	
Flow meter "Overlay"			•	• For air	
Solenoid valves for gas mixing of air, O ₂ , N ₂ , CO ₂			•	• (Mass flow controller optional)	
Integrated peristaltic pumps				2 for pH regulation (acids and bases)	
Process data recording					
BioPAT® MFCS DA			•		
Supply unit	Open frame design				
Temperature control system	Closed loop system, recirculation pump and heat exchanger for heating and cooling				
Installation set			•		
Culture vessel	Jacketed stainless steel culture vessel with vertical sight glass and top agitation (5 L stainless steel glass vessel)				
Stirrer shaft with double mechanical seal (DMS)			•		
Fluid buffer system DMS, compressed air pressurization			•		
3-blade segment impeller			2		
Stainless steel filter housing for 2 × aeration and exhaust incl. sterile filter			•		
Pressure gauge – 1 3 barg			•		
Aeration tube with micro-sparger			•		
Exhaust cooler			•		
4 Baffles (removable)			•		
1-Channel Sacova valve for needle free additions			•		
3-Channel Sacova valve for needle free additions			•		
Lamp for vessel illumination (not for 5L culture vessel)			•		
Storage bottles			2		
Resterilizable floor bottom seat for sampling and harvesting			•		
pH sensor, connection cable			•		
pO ₂ sensor, connection cable			•		
Temperature sensor Pt 100			•		
Options					
Electric heating for culture vessel sterilization (full sterilization) and operation			○		
Weighing system for culture vessel			○		
Pressure hold test for culture vessel			○		
Culture vessel sterilization (empty and full sterilization)			○		
Lid lifting device 10–30 L			○		
Antifoam control via sensor			○		
Advanced DO controller			○		
Up to two gravimetric feed controllers, accuracy 7 kg balance: 5 g/h, accuracy 60 kg balance: 50 g/h			○		
Redox measurement			○		
Turbidity measurement			○		
Resterilizable addition valve APC 19 and APC 25			○		
Qualification documents			○		
Up to two substrate controllers			○		
Integrated substrate pump			○		
Sampling valve SVC 25 (resterilizable)			○		

Other accessories available.

• = included ○ = optional

Biostat® Cplus – Technical Specifications

Technical Specifications

Culture vessel volumes		5 L	10 L	15 L	20 L	30 L	
Dimensions [W × H × D]	["]	35.4 × 51.2 × 27.6	39.4 × 74.8 × 29.5	39.4 × 74.8 × 29.5	39.4 × 74.8 × 29.5	39.4 × 74.8 × 29.5	
	[m]	0.9 × 1.3 × 0.7	1.0 × 1.9 × 0.75	1.0 × 1.9 × 0.75	1.0 × 1.9 × 0.75	1.0 × 1.9 × 0.75	
Required door dimensions for installation [W × H]	["]	31.5 × 51.2	31.5 × 78.7	31.5 × 78.7	31.5 × 78.7	31.5 × 78.7	
	[m]	0.8 × 1.3	0.8 × 2	0.8 × 2	0.8 × 2	0.8 × 2	
System weight (approx.)	[kg]	130	210	215	215	230	
Ambient temperature relative humidity (non-condensing)		< 80% for temperatures up to 31°C (87.8°F), decreasing linearly < 50 % at 40°C (104°F).					
Utilities requirements	Specification	Max. flow	Culture vessel volumes				
			5 L	10 L	15 L	20 L	30 L
Process control air MO CC sparger overlay	4 – 6 barg 58 – 87 psig, regulated, class 2 (ISO 8573-1)	[L/min]	7.5 0.5/5	15 1/10	23 1.5/15	30 2/20	45 3/30
O ₂ MO sparger CC sparger	4 barg 58 psig, regulated, particle-free	[L/min]	7.5 0.5	15 1	15 1.5	30 2	45 3
CO ₂ MO sparger CC sparger	4 barg 58 psig, regulated, particle-free	[L/min]	N A 0.5	N A 1	N A 1.5	N A 2	N A 3
N ₂ MO sparger CC sparger	4 barg 58 psig, regulated, particle-free	[L/min]	N A 0.5	N A 1	N A 1.5	N A 2	N A 3
Utility steam	3 barg 29 psig, regulated, particle-free	[kg/h]	7	15	15	15	15
Clean steam	2 barg 29 psig, regulated, particle-free	[kg/h]	3	5	5	5	5
Coolant (supply line)	2 – 4 barg 29 – 58 psig, regulated, (15°C) particle-free	[L/min]	5	5	5	5	5
Coolant (return line)	2 barg (29 psig) under supply line	[L/min]	5	5	5	5	5
Condensate	Ambient pressure (max. temp. 98°C)	[L/min]	1	1	1	1	1
Mains voltage (TNS net): 5 wire: 3 × phase, 1 × ground, 1 × neutral	208 VAC 60 Hz 15 A, 400 VAC 50 Hz 16 A all current sensitive FI switch 3 × 30 mA						
Control unit	Integrated: DCU controller, gassing system, and up to 4 pumps						
Control	Industry PC						
Housing material	Stainless steel AISI 304						
Display operation	Touch panel 10" touch screen						
Interface to the host PC	Ethernet						
External inputs							
Scale connection	Maximum 2 × RS 232						
Analog inputs	Up to 3 (0 – 10V)						
External substrate pumps	Up to 2 analog (0 – 10V)						
Gassing system							
Microbial application	O ₂ enrichment or gas flow ratio; maximum total flow rate: 1.5 vvm						
Cell culture application	Additive flow; maximum aeration rate: Overlay 1 vvm sparger 0.1 vvm						
Dual use application	Additive flow; maximum aeration rate: 1.5 vvm						
Flow meter	Air calibrated; 4 bar 20°C						
Flow rates	0.6–60 mL/min up to 5–52 L/min						
Accuracy	+/- 4% FS						
Thermal mass flow controller	Air N ₂ , O ₂ or CO ₂						
Flow range	0.6–30 mL/min up to 1–50 L/min						
Accuracy	+/- 1% FS						
Integrated pumps	Up to 4 (2 × digital + 2 × digital speed regulated)						
Pump head – for silicone hoses with wall thickness 1.6 mm 1/16"	Watson Marlow 102R						
Available versions	Digitally controlled (20 rpm) or speed-controlled (5–50 rpm)						
Flow rates	Hose internal diameter:	0.5 mm (1/50")	0.8 mm (1/32")	1.6 mm (1/16")	3.2 mm (1/8")	4.8 mm (3/16")	
	Flow rate: ml/revolution	0.02	0.05	0.22	0.81	1.66	

Supply unit	Open frame design									
Material surface roughness (product wetted parts)	Stainless steel AISI 316L Ra ≤ 0.8 μm (< 31.5 Ra)									
Temperature control system	Closed pressurized water temperature control system with recirculation pump, heat exchanger for cooling and heating, optional electric heating									
Operation (operation sterilization):	8°C above coolant temperature up to 90°C up to 130°C									
Heat exchanger (cooling stainless steel)	Stainless steel, copper soldered stainless steel, copper soldered; Option: Stainless steel welded									
Electric heating (option) 5L 10-30L	3 kW 6 kW									
Culture vessel	5 L	10 L			15 L		20 L		30 L	
H:D ratio	2:1	2:1	3:1	2:1	3:1	2:1	3:1	2:1	3:1	
Total volume	6.8 L	15 L	15 L	22 L	22 L	30 L	30 L	42 L	42 L	
Working volume	5 L	10 L	10 L	15 L	15 L	20 L	20 L	30 L	30 L	
Minimum operating volume*	1.6 L	4.5 L	3.5 L	5.5 L	4.5 L	7.7 L	5.5 L	9 L	7 L	
Weight of culture vessel lid with attachments approx. [kg]	11	12	15	19	17	21	20	26	26	
Permitted stirrer speed	20-1500	20-1500	20-1500	20-1000	20-1000	20-1000	20-1000	20-600	20-600	
Motor power [kW]	0.5	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	
Impeller to culture vessel diameter [6-blade disk impeller]	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Impeller to culture vessel diameter [3-blade segment impeller]	0.5	0.5	N A	0.5	N A	0.5	N A	0.5	N A	
Lid ports	1 × view glass for lighting, not for 5 L 1 × ports for exhaust cooler 1 × ports for stirrer 1 × ports for safety valve (for ASME 19 mm port) 4 × 19 mm ports (5 L and 10-3): 5 × 19 mm ports (10-2-30 L) 2 × grip									
Upper port level (not for 5 L)	3 × 25 mm ports 1 × ports for burst disk (only ASME culture vessel) 1 × lengthwise view glass									
Lower port level	4 × 25 mm port 1 × sensor ports for Pt100									
Bottom	1 × floor drain valve									
Jacket	1 × supply line 1 × return line									
Culture vessel design	Double-walled stainless steel vessel with Klöpper floor design and lengthwise view glass, stirrer from top 5 L: Stainless steel glass vessel									
Material (product wetted)	Stainless steel AISI 316 L borosilicate glass EPDM (FDA)									
Surface (product wetted) culture vessel attachments	Ra ≤ 0.5 μm (≤ 19.7 Ra) Ra < 0.8 μm (< 31.5 Ra), electropolished									
Culture vessel design Vessel Jacket	5L: -1- +2.5 barg @ 150°C; 10-30L: -1- +3 barg @ 150°C -1- +4 barg @ 150°C									
Sensors measuring range readability										
pO ₂	Amperometric or optic 0-100% 1% 0.1%									
pH	Gel-filled 2-12 0.01 pH									
Foam level high foam	Conductive, stainless steel body with ceramic insulation									
Temperature culture vessel temperature control system	Pt100 0-150°C 0.1 C / Pt100 0-150°C 0.1 C									
pH redox	Gel-filled -2000-2000 mV 1 mV									
Pressure measurement	Piezoresistive sensor -0.5-2 [barg] 1 mbar									
Turbidity sensor	One-channel NIR absorption sensor, gap width 10 mm or 20 mm 0-6 AU 0.01 AU									
Regulatory compliance	CE UL CSA (EN61010, UL61010); culture vessel: ASME or PED or SELO (5L only PED)									

MO: Microbial application; CC: Cell culture application

* minimum volume for full sterilization 50% max. working volume

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