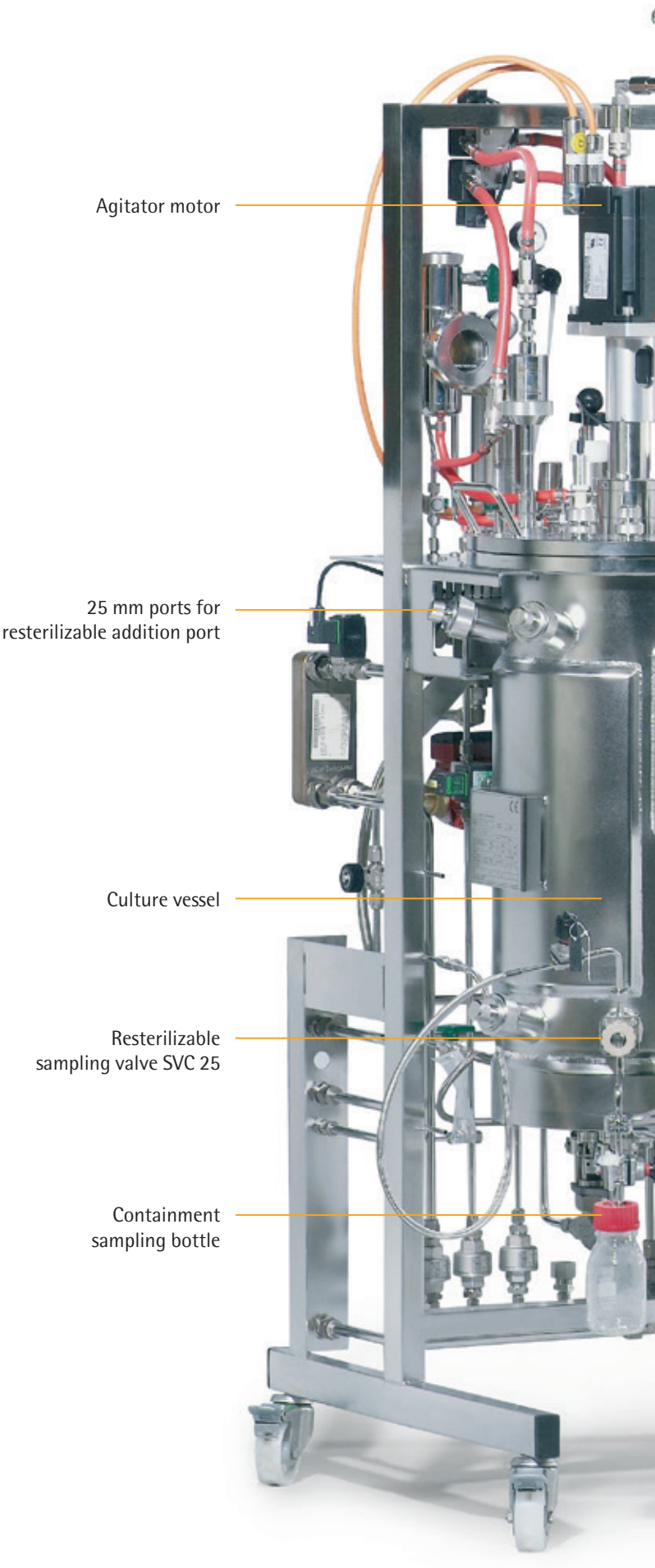
sartorius stedim biotech

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

turning science into solutions

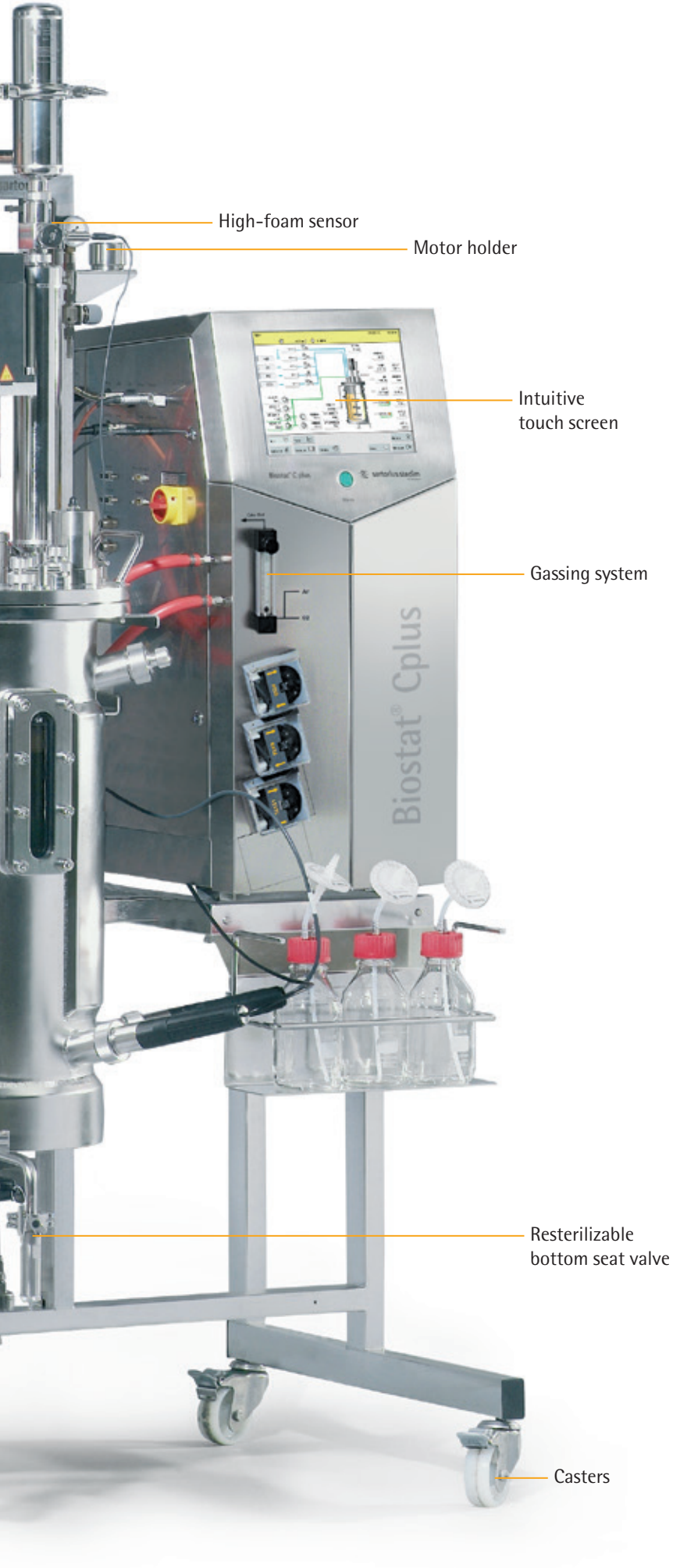
Biostat® Cplus
System Concept

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

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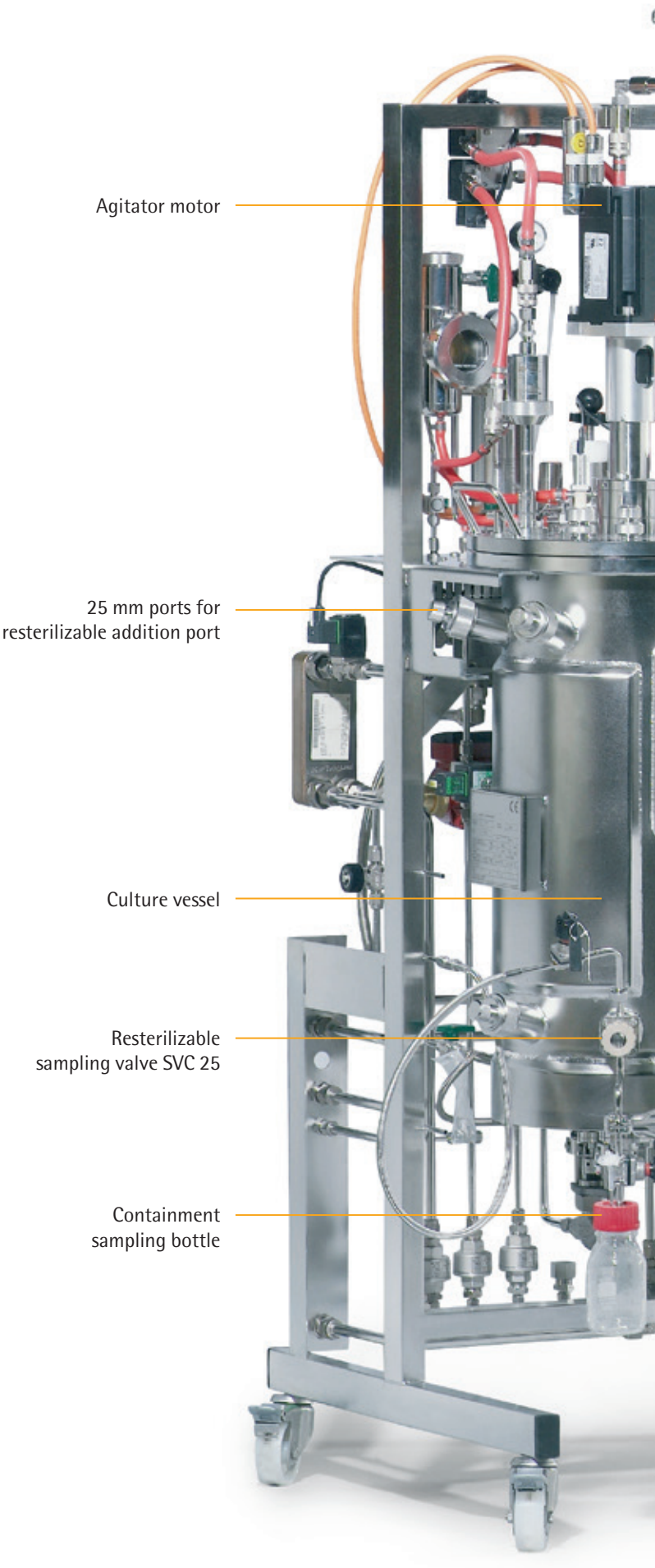

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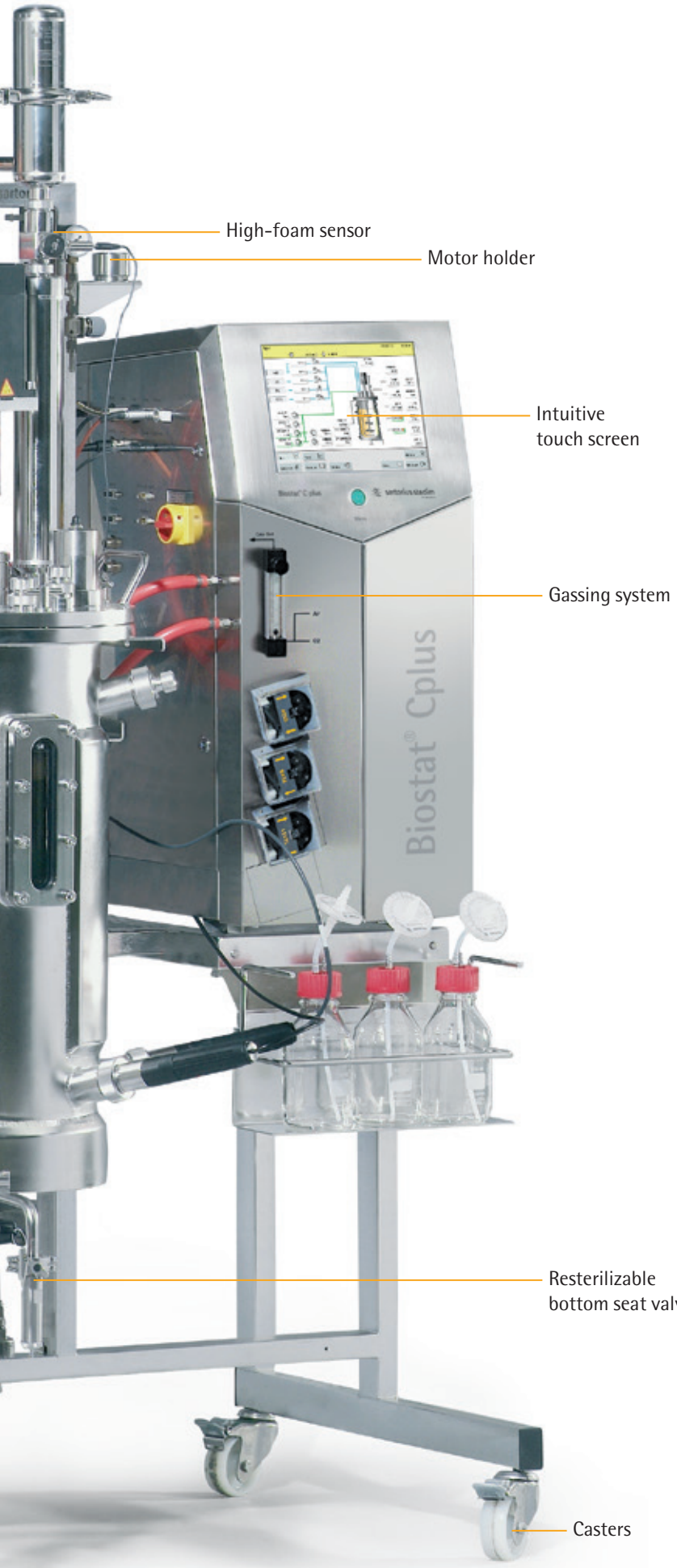


Configurable Flexibility

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., resterilizable 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.

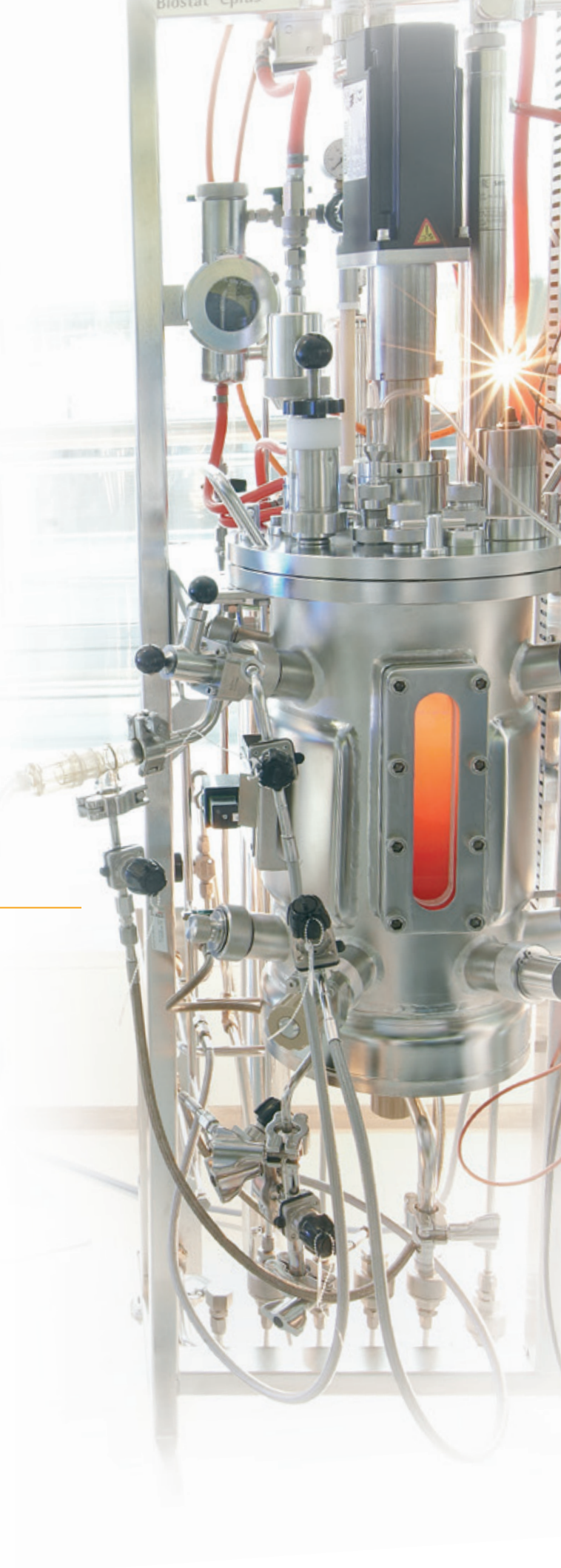
Sampling Valve SVC 25
The sampling valve SVC 25 is used for finely regulated sampling from the culture vessel. The SVC 25 can be resterilized with steam for repeated aseptic sampling. A containment extension kit is also available for sterile and aerosol-free sampling.

Resterilizable Addition Port APC
The APC is a resterilizable 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 resterilize, 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.

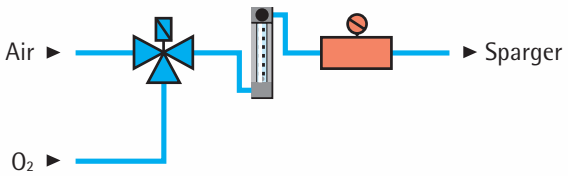
Biostat® Cplus
Gassing Strategies

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.

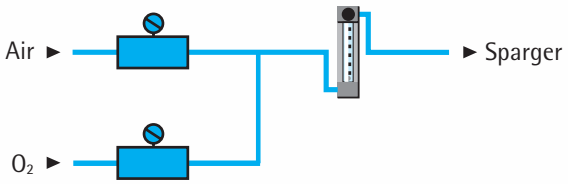


Microbial Applications

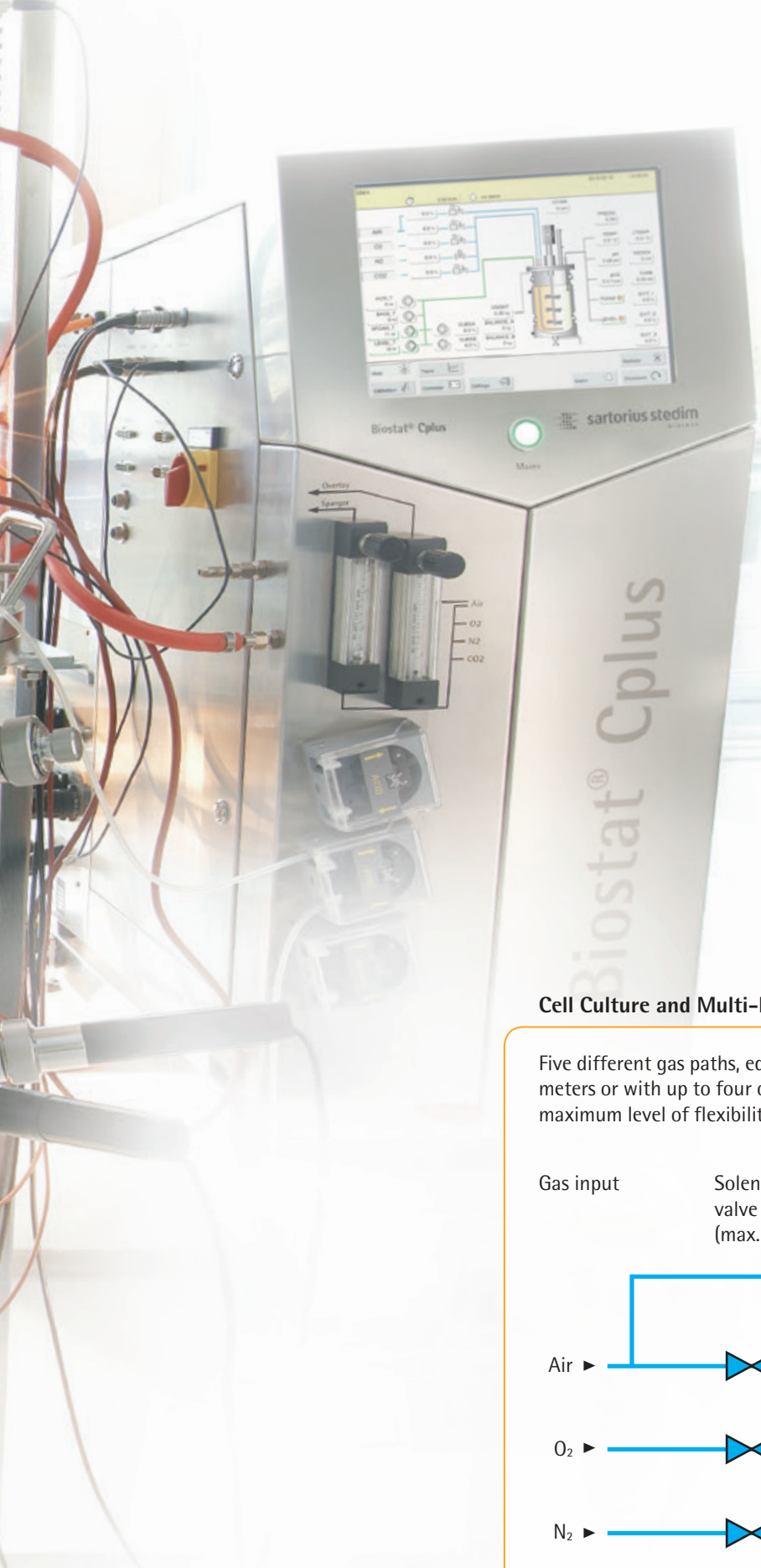
Various configurations allow for aeration with air or oxygen, as well as the traditional O_2 enrichment function. For anaerobic processes, the air inlet can also be used for nitrogen. Solenoid valves installed as standard in combination with a flow meter ensure a reliable gas supply. Optional mass flow controllers offer precise batching of the individual gases, as is needed for example for balancing studies in combination with exhaust analysis.



Gassing system: O_2-Enrichment

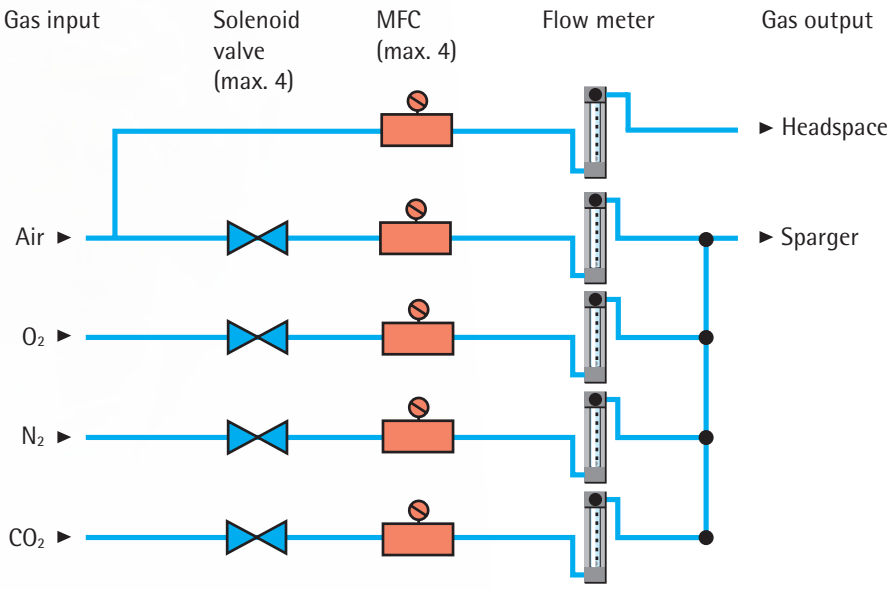


Gassing system: Gas flow ratio



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

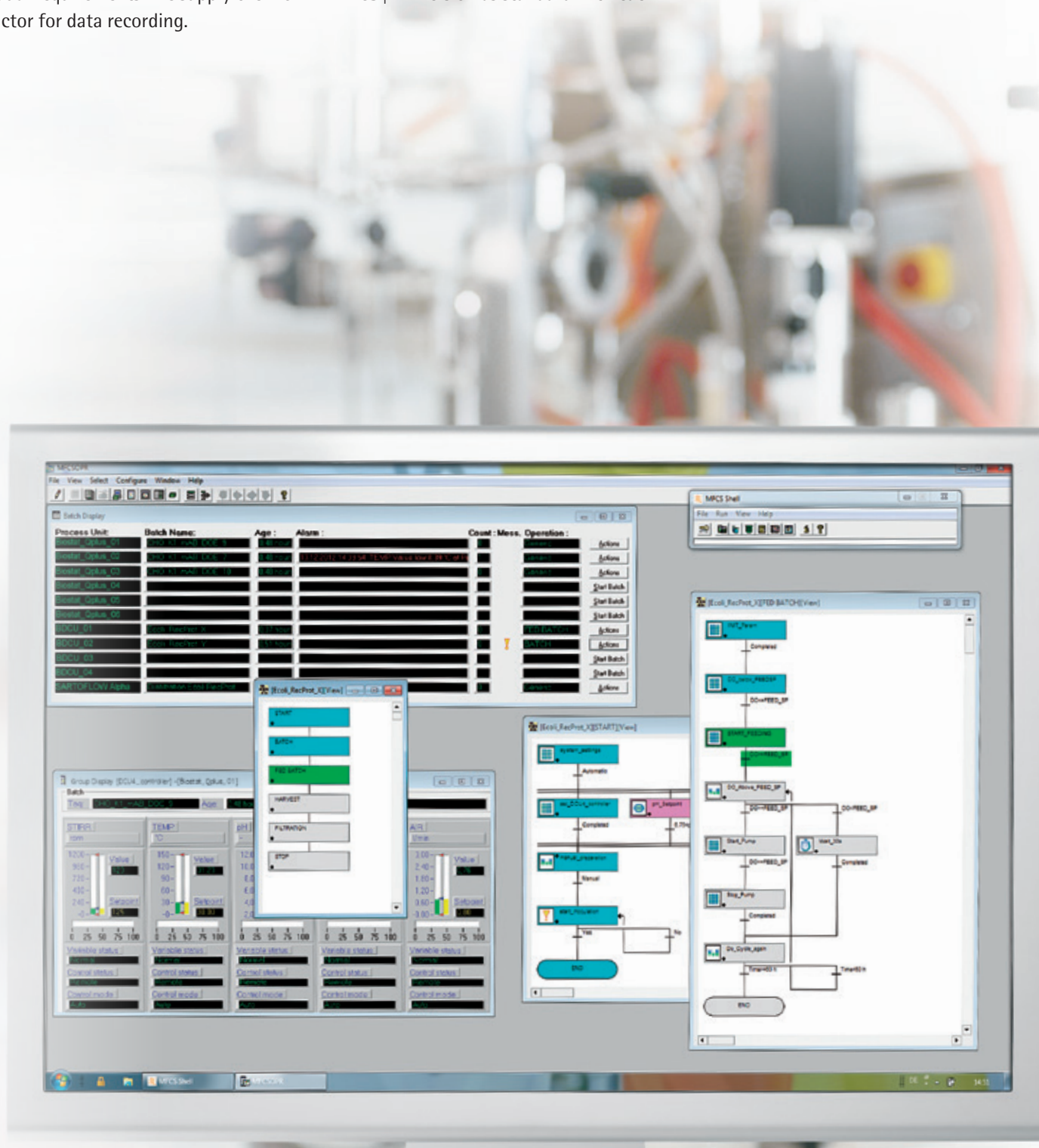
The DCU controller is one of the best proven, most secure and most flexible control solutions both in the upstream and in the downstream process. The DCU is the standard automation platform for our Biostat® bioreactors, SARTOFLOW® Crossflow filtration units, and FlexAct® configurable production solutions 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 to understand. 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 then 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: O_2 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 value SVC 25 (resterilizable)			○		

Other accessories available.

• = included, ○ = optional

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 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 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 value 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 – 10 V)						
External substrate pumps	Up to 2 analog (0 – 10 V)						
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 | attachements	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 complience	**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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