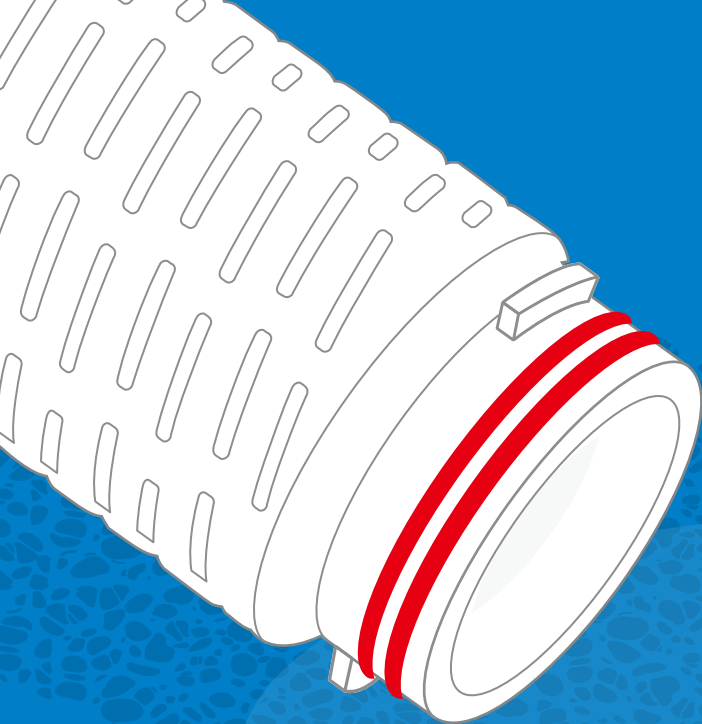


Hardware System Product Selection Manual





Filtration Separation Purification



Cobetter dedicates itself to providing Filtration, Separation, and Purification solution across all industries.

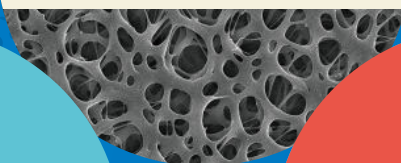
Cobetter provides over **5400+** validation reports annually for customers in the pharmaceutical industry,

and **2500+** technical analysis reports annually for customers in microelectronics, chemical, and life sciences industries.

Cobetter has a full range of filtration industry chain including membrane development, filter element production, filter equipment manufacturing, testing, validation, and analysis.

Adopting an integrated industrial model of independent R&D, production and sales, Cobetter insists on providing high-quality, diversified products and technologies to respond customer's needs quickly.

Membrane and Manufacture



AVL Center



Filter Manufacture



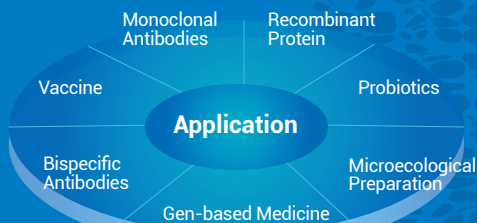
Housing Manufacture



Technologies & Products



Application



C1 Factory
Membrane Filter Manufacturing
9,400 SQM

C2 Factory
Depth Filter Manufacturing
9,000 SQM

C3 Factory
Semiconductor Filter
& Biologic Filter Manufacturing
13,500 SQM

C4 Factory
Sustainless Filter Manufacturing
& Fluoroplastics Resurtech Manufacturing
& Housing Manufacturing
28,000 SQM

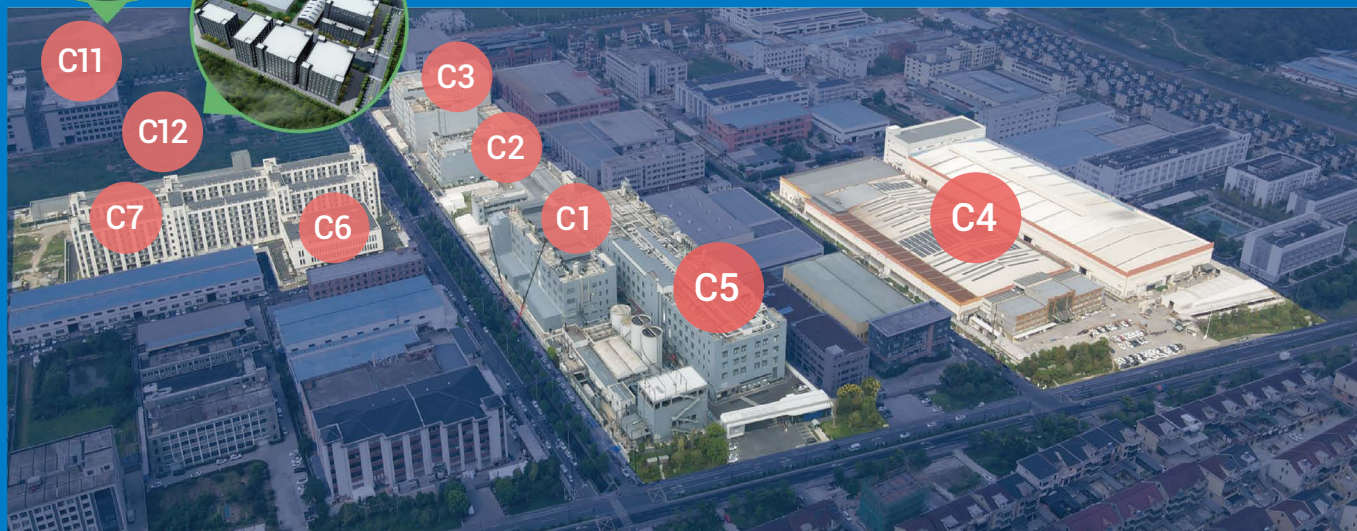
C5 Factory
AVL Center
& Single Use Bag Manufacturing
41,000 SQM

C6 Factory
Life Center
33,000 SQM

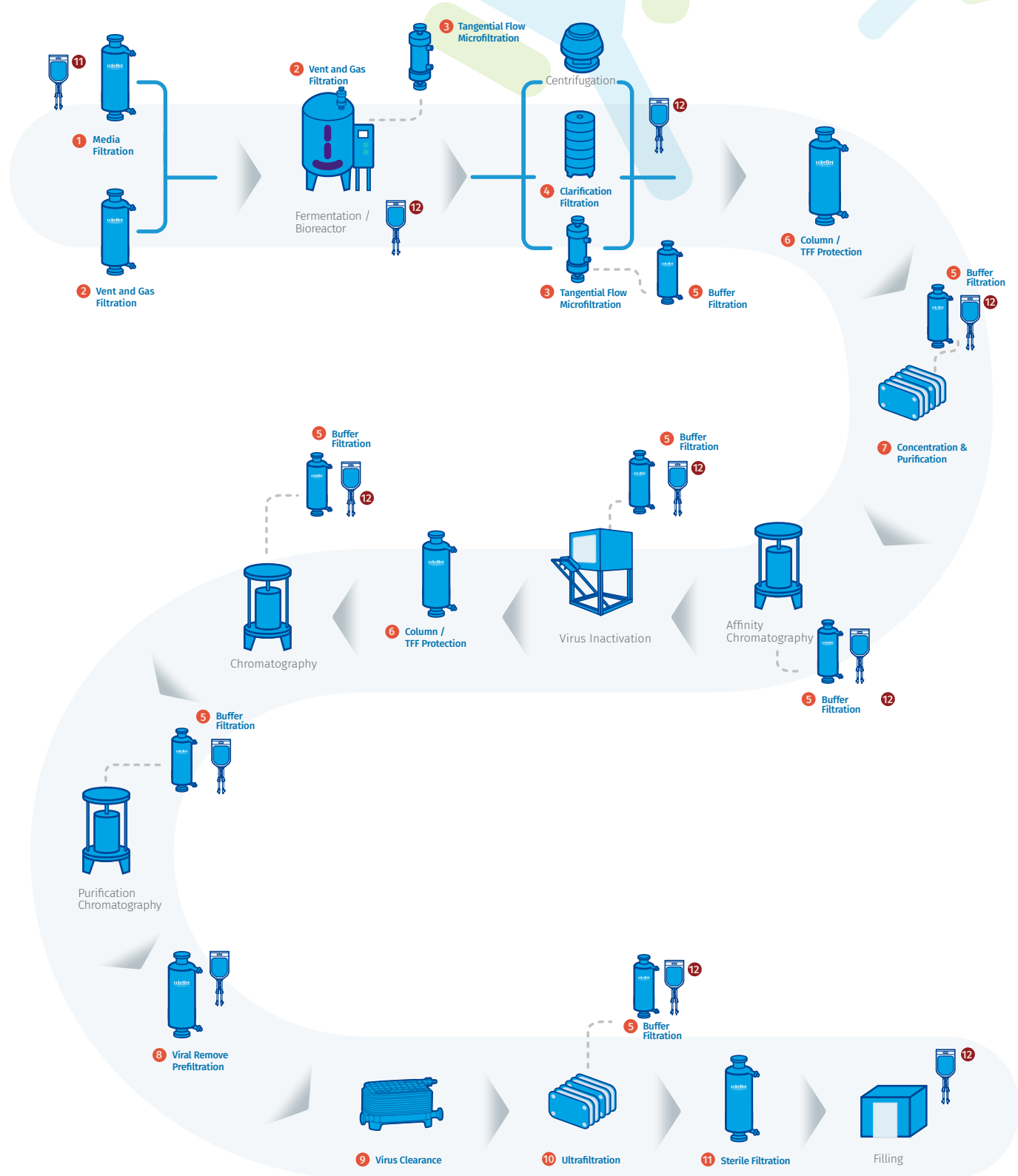
C7 Factory
R&D Lab Center
13,000 SQM

C11 Factory
Semiconductor Ultra-pure Water
Degassing Membrane
66,500 SQM

C11 Factory
Semiconductor Filter & Biopharm Filter
Manufacturing
30,000 SQM



Filtration & Purification Solutions for Biopharma



Hardware System Product Category

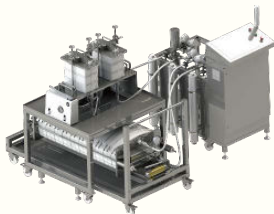
Virus Removal



S-VF01

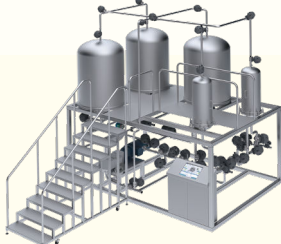


VF-20

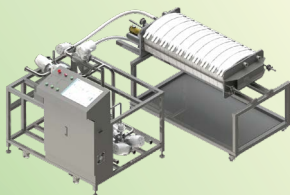


VF-80

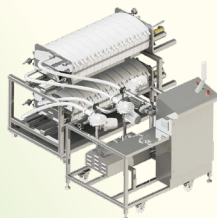
Depth Filtration



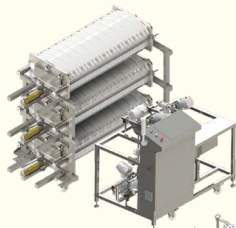
Customized System



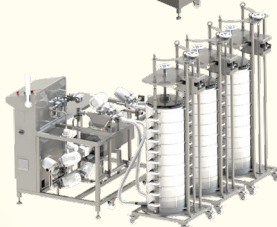
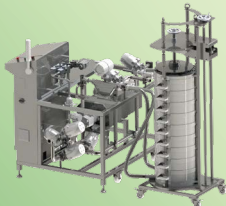
DFS-40-0100



DFS-80-0200



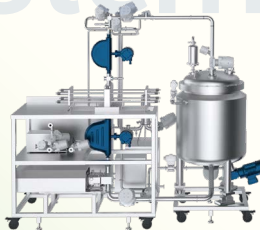
DFS-80-0300



Minilab



TK FLOW Pilot



TK FLOW Process

TFF System

Research

Pilot

Commercial

Virus removal and filtering system

S-VF series products are Virus Removal Filtration System developed and designed by Cobetter independently, which can be matched with various consumables and different processing capacities under different working conditions. Can meet the standardization or customization needs of different customers by providing one-stop solutions for pilot scale, pilot scale up, and commercial large-scale production.

Match multiple categories of consumables to achieve flexible combination of processes

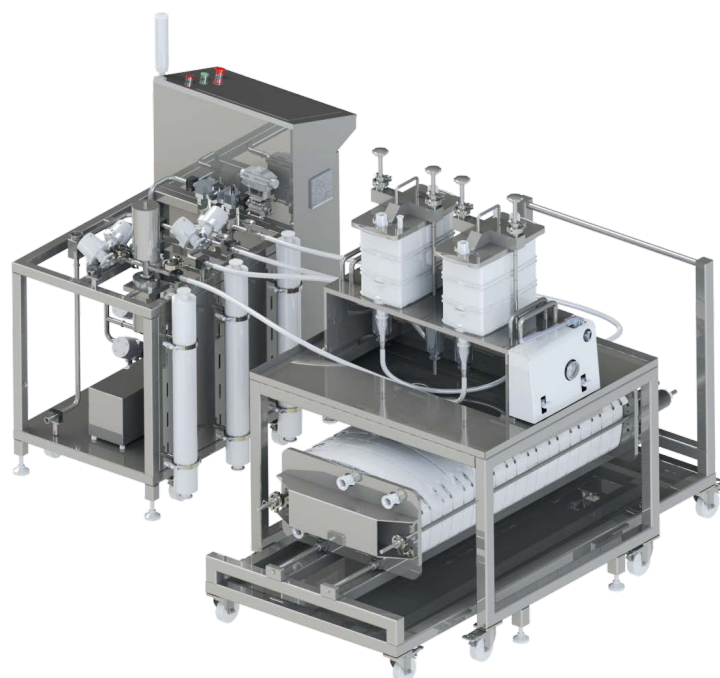
- Suitable for various pre filtration consumables such as CCCC, CSCM, and nylon, meet the needs of different process products;
- Suitable for different antiviral series products such as plastic shell film packaging and silicone film packaging (magnetic levitation flow channel);
- Can achieve more than ten different process combinations;
- Can match multiple different competing consumables;

Integrated and customized design

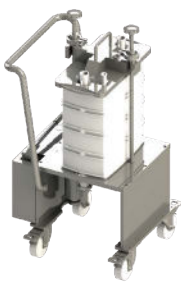
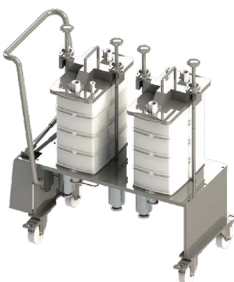
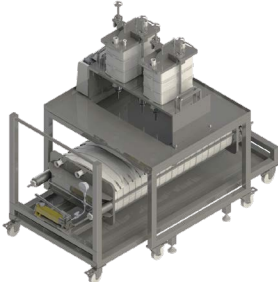
- Adopt 3D customized design, compact structure and small operating volume;
- Provide multiple system solutions based on different consumables;
- Customized design based on site environment and usage habits

Full process-system solution

- Provide testing services starting from small-scale trials;
- Assist users to optimize processes and provide consumables and system solutions;
- Provide systematic solutions to process risk points



Virus removal consumables holder

	Single holder	Double holder-1	Double stack holder-2	Holder for silicone cassettes
				
Model	VH010	VH021	VH022	VHM
Consumables	Virclear™ VF Plus Plastic-housing cassettes			Virclear™ VF Silicone cassettes
System body material	316L	316L	316L	316L
Clamping method	Manual hydraulic compression			Bolt-on
Max. clamping area	4.5 m ²	9 m ²	9 m ²	4.5 m ²
Dimension	380x380x831mm	899x380x831mm	1840x1100x1612mm	
Moving method	4 casters for flexible movement and free matching of craftsmanship			Unmovable
Connections	TC or hose			

Virus removal and filtering system

Pressure monitoring

The system is equipped with multiple pressure monitoring points to systematically monitor pre-filtering and virus removal filtering, and collect data in real time;

Compressed air

The system is equipped with an air compressor system, which can purge the system pipeline and recover the liquid medicine before and after the process.

UV monitoring

UV monitor is optional for real time protein concentration assay

System inlet

The system is equipped with at least 3 inlets, respectively for liquid, WFI, and buffer, to meet the usage of different working conditions

Low shear pump

The system is equipped with diaphragm pump as the power, low shear force, good flow linearity;

Pipeline and valve

The main pipeline is made of 316L stainless steel and is connected and controlled by a sanitary diaphragm valve

Software system

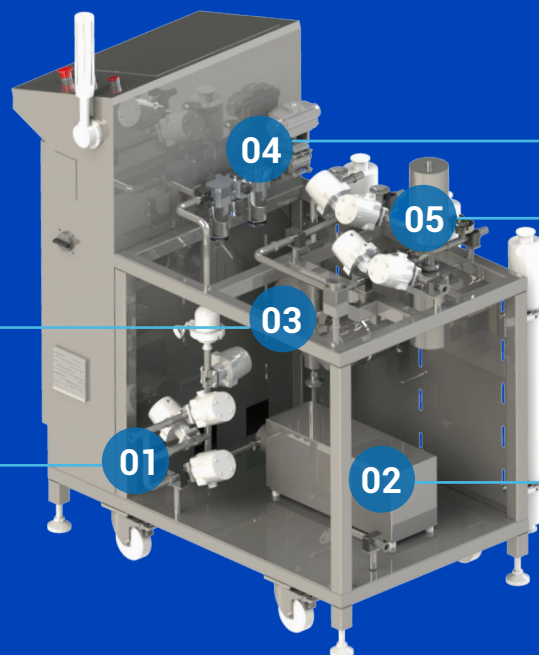
Siemens IPC is used for man-machine interaction, with functions such as formula management, report management, audit tracking, trend analysis, and data management

Pre filtration installation

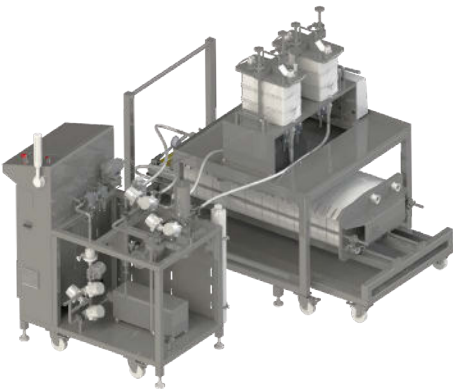
Different consumables such as nylon filter or depth filter can be configured according to the selection of pre-filter

Control system

Equipped with integrated electric control cabinet, protection class IP54



System selection table

	VF-20	VF-80
		
Consumables	Cobetter Depth filter / Nylon filter Cobetter Virclear™ VF Plus Plastic-housing cassettes/Silicone cassettes	
Max. Flow rate	20 L/min	80 L/min
System body material	316L	316L
Max. area of pre-filter	5.5 m²	11 m²
Max. area of virus removal filter	4.5 m²	9 m²
Max. capacity (reference)	2250 L	4500L
System body dimension	1190x650x1276 mm	1190x650x1276 mm
Minimum operating volume (main body)	About 400ml	About 800ml
Standard instrument	Mass flowmeter Pressure transmitter Conductivity detection	
Optional instrument	UV detection PH detection	
Control mode	Constant pressure control	
Power	220/380V	
Application	Pilot and commercial scale-up	

Depth Filtration System

DFS series of depth filtration systems is mainly for liquid clarification. Equipped with Cobetter Claricap™ filters, suitable for following applications:

- Clarification filtration of fermentation fluids and cell cultures
- Serum and blood products
- Enzyme preparations
- Decontamination of chemicals, decarbonization
- Colloidal or viscous materials

This system has a variety of standardized specifications covering the needs from R&D, pilot testing, pilot testing to commercial scale production. We also provide customized services for commercial large-scale production from pilot experiments to processing scales of more than 20,000L to achieve both standardization and Customized individual needs.

Multi Different Types of Depth Holders

Provides 8 different types and areas of holders to meet the needs of different consumables and various filtration areas.

Electric holder, easy to operate, can reduce the difficulty of use.

Design principles aimed at improving yield and optimizing yield

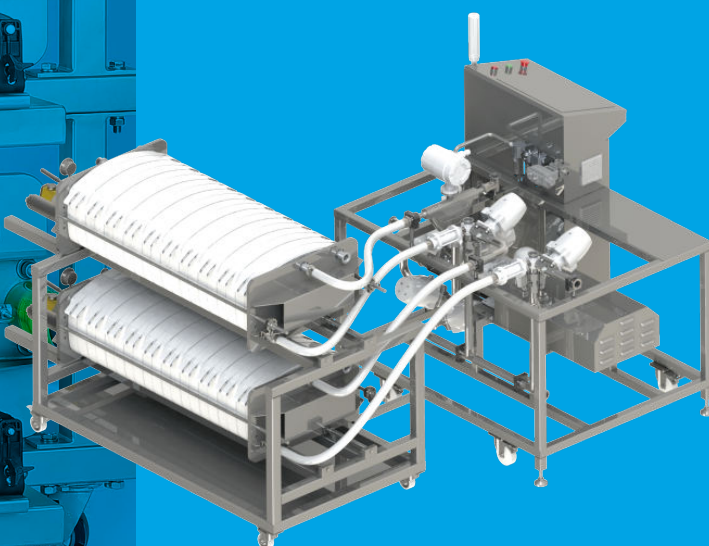
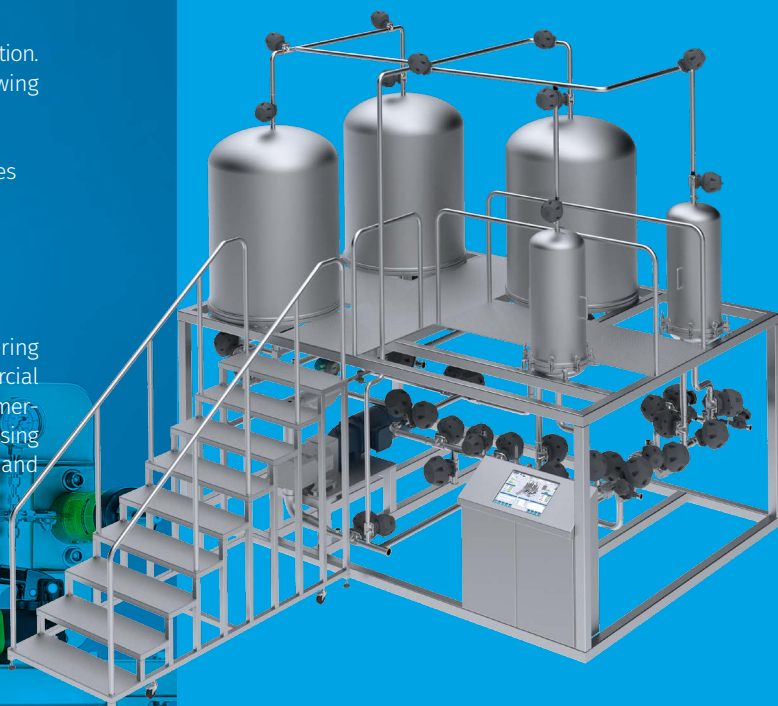
Provide experimental services at various stages from small and pilot trials to provide theoretical basis for commercialization;

Mature and rich experimental data to help you find the high quality yield data at the low cost;

3D customized design, compact structure, small operation volume, can achieve high yield.

Larger scale customization services

For more than 10000L fermentation scale, based on the real situation of the customer site and pilot experiments, Cobetter can provide systematic customized solutions from the capacity design, CIP/SIP, automatic control solutions, lifting solutions, etc.



Depth Filtration Holder

Cobetter's Depth holders mainly work with Claricap™ CSCB and Claricap™ M series cassettes. Vertical holders include manual hydraulic and electro-hydraulic models. There are 4 different types Horizontal holders according to different clamping areas, as shown in the table below



Vertical manual model P		Vertical electro-hydraulic P		
5 layers	10 layer	5 layer	10 layer	
				
System model (for reference)	DFS-40-0100 DFS-80-0100 DFS-80-0200 DFS-80-0210	DFS-40-0100 DFS-80-0100 DFS-80-0200 DFS-80-0210	DFS-40-0100 DFS-80-0100 DFS-80-0200 DFS-80-0300 DFS-80-0210 DFS-80-0301 DFS-80-0302	
Product model	PDM-5	PDM-10	PDA-5	PDA-10
Adaptive consumables	Claricap™ CSCB	Claricap™ CSCB	Claricap™ CSCB	Claricap™ CSCB
System body material	304	304	304	304
Max. clamping area	4.6m2	9.2m²	4.6m²	9.2m²
Max. number of cassettes	5 pieces	10 pieces	5 pieces	10 pieces
Operation Method	Manual control	Manual control	Electric control	Electric control
Size	570x665x1345mm	570x665x1944mm	810x665x1450mm	810x665x1944mm
Moving mode	4 casters, flexible movement, free to match the process			
Connection mode	TC or hose			
△P	2 bar			
Application	Pilot scale-up	Pilot scale-up / Commercialization	Pilot scale-up	Pilot scale-up / Commercialization

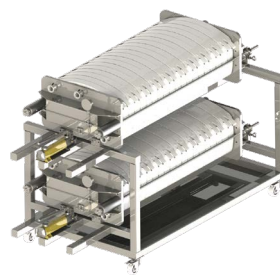
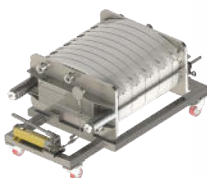


5 racks

Horizontal manual hydraulic M
10 racks

20 racks

30 racks



DFS-40-0100

DFS-40-0100
DFS-80-0100
DFS-80-0200

DFS-80-0200
DFS-80-0210
DFS-80-0302

DFS-80-0300
DFS-80-0301
DFS-80-0302

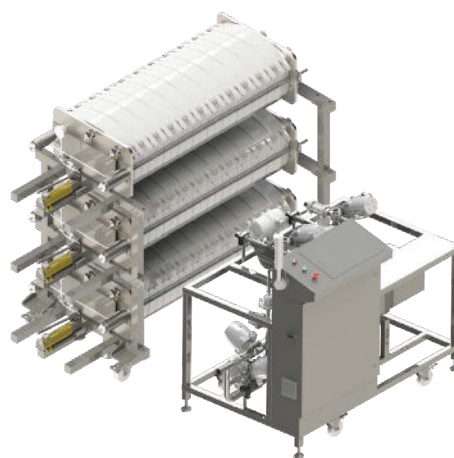
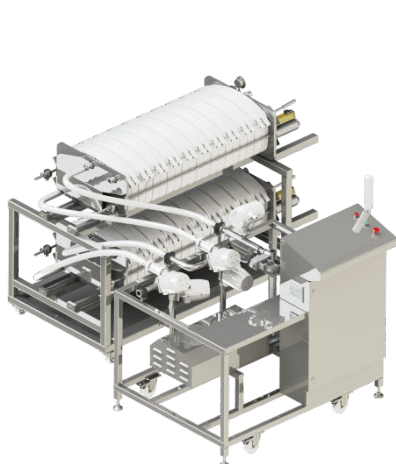
Product model	MD-5	MD-10	MD-20	MD-30
Adaptive consumables	Claricap™ CSCM	Claricap™ CSCM	Claricap™ CSCM	Claricap™ CSCM
System body material	304	304	304	304
Max. clamping area	5.5m ²	11m ²	22m ²	33m ²
Max. number of cassettes	5 pieces	10 pieces	20 pieces	30 pieces
Operation Method	Manual control	Manual control	Manual control	Manual control
Size	1160x650x560mm	1990x890x1059mm	1990x890x1130mm	1990x890x1550mm
Moving mode	4 casters, flexible movement, free to match the process			
Connection mode	TC or hose			
ΔP	2 bar			
Application	Pilot scale-up / Commercialization	Commercialization	Commercialization	Commercialization

Depth Filtration System



DFS-40-0100		DFS-80-0100	DFS-80-0200
Consumables		Cobetter Claricap™ CSCB Cobetter Claricap™ CSCM	
Max. Flow rate	40L/min	80L/min	80L/min
System body material	316L	316L	316L
Number of filtration	Single stage filtration		
Number of hoders	First stage	1	2
	Second stage	\	\
Max. clamping area	First stage	9.2-11m ²	18.4-22m ²
	Second stage	\	\
Reference capacity	920-1100L	920-1100L	1840-2200L
Dimension	1335x1135x1276mm	1535x1135x1276mm	1535x1135x1276mm
Minimum operating volume	About 1.2L	About 2.2L	About 2.2L
Standard instrument		Mass flowmeter Pressure transmitter Conductivity detection	
Optional instrument		Turbidity Monitoring pH detection	
Automatic control mode		Constant current control	
Power supply		380V	
Application scenario	Small scale-up	Pilot scale	Pilot scale-up / Commercialization
Applicable process	Suitable for a variety of biological product processes, such as fermentation fluid and cell culture fluid clarification filtration, serum and blood products filtration, enzyme filtration, chemical impurity removal, decarbonization filtration, colloid or viscous materials filtration.		
Remark	The reference processing capacity is antibody production process, the primary processing capacity is 80-120L/m ² , the secondary processing capacity is 200-300L/m ² ;		

System configuration: 3 inlet ports, PU, FT, TUR (optional), AV and corresponding connecting pipelines



DFS-80-0300		DFS-80-0201	DFS-80-0301	DFS-80-0302
Consumables		Cobetter Claricap™ CSCB Cobetter Claricap™ CSCM		
Max. Flow rate		80L/min	80L/min	80L/min
System body material		316L	316L	316L
Number of filtration		Single-stage filtration	Two-stage filtration	Two-stage filtration
Number of hoders	First stage	3	2	3
	Second stage	\	1	2
Max. clamping area	First stage	27.6-33m ²	18.4-22m ²	27.6-33m ²
	Second stage	\	9.2-11	18.4-22
Reference capacity		2760-3300L	1840-2200L	3680-4400L
Dimension		1535x1135x1276mm	1535x1135x1276mm	1535x1135x1276mm
Minimum operating volume		About 2.3L	About 2.8L	About 2.9L
Standard instrument		Mass flowmeter		
		Pressure transmitter		
		Conductivity detection		
Optional instrument		Turbidity Monitoring		
		pH detection		
Automatic control mode		Constant current control		
Power supply		380V		
Application scenario		Commercialization	Commercialization	Commercialization
Applicable process		Suitable for a variety of biological product processes, such as fermentation fluid and cell culture fluid clarification filtration, serum and blood products filtration, enzyme filtration, chemical impurity removal, decarbonization filtration, colloid or viscous materials filtration.		
Remark		The reference processing capacity is antibody production process, the primary processing capacity is 80-120L/m ² , the secondary processing capacity is 200-300L/m ² ;		

TFF Tangential Flow Filtration System

The TK-Flow ultrafiltration system can be used for system concentration, dialysis and washing (buffer exchange). Has a variety of standardized specifications covering the needs from R&D, pilot testing, pilot testing to commercial scale production. We also provide customized services to achieve both standardization and Customized individual needs.

The TK-Flow ultrafiltration system can be used for system concentration, dialysis and washing (buffer exchange). Has a variety of standardized specifications covering the needs from R&D, pilot testing, pilot testing to commercial scale production. We also provide customized services to achieve both standardization and Customized individual needs.

Can cover the needs of whole process from pilot research and development, pilot test and pilot scale up, and then to commercial large-scale production. The hardware products not only perfectly match with our own various types of cassettes, hollow fiber and other consumables, but also compatible with most of the mainstream products in the market. Provide one-stop solutions and after-sales service

Full life cycle solution

- The hardware system is designed for Cobetter Consieve UET series cassettes and hollow fiber, providing a one-stop solution for the whole process from small scale, pilot production to commercial large-scale production
- R&D stage: Provide Minilab series products, can work with Consieve UET series 0.01, 0.1m² cassettes, as well as hollow fiber Mini and Minilab series consumables;
- Pilot stage: Provide TK-FLOW lab and TK-FLOW Pilot series products, can work with Consieve UET series 0.5m² cassettes, as well as hollow fiber Pilot series consumable products
- Commercial large scale production stage: provide TK-FLOW Process series products, can work with Consieve UET series 2.33m² cassettes, as well as hollow fiber Process series consumable products;
- Strong compatibility, wide adaptability, can provide alternatives to the mainstream products in the market

Design principles aimed at improving yield and optimizing yield

- Provide multi-point recovery and multiple recovery methods to reduce dead volume;
- 3D customized design, compact structure, small operation volume, can achieve high concentration;
- Free system upgrade services are provided. Some systems can adapt to the SPTFF unidirectional tangential flow process. Process optimization and adjustment can be achieved by simply replacing cassettes.

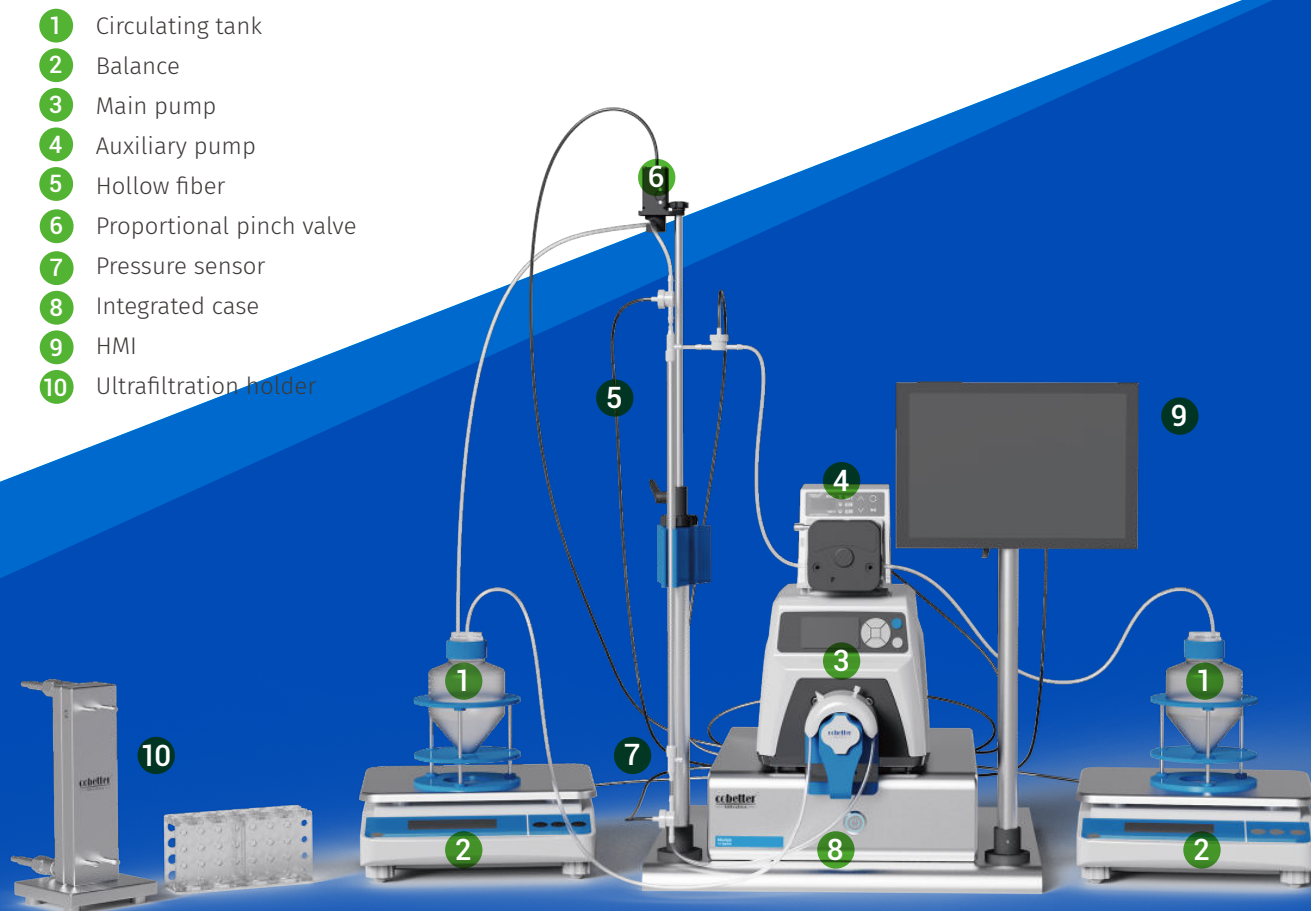


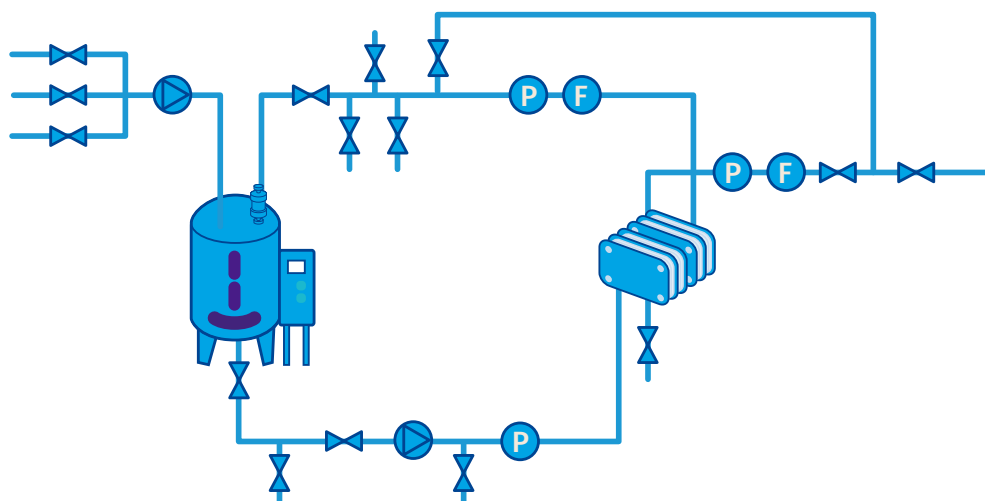
Minilab TFF Tangential Flow Filtration System

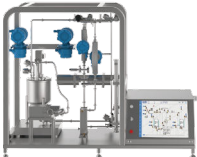
- Suitable for small volume process development at R&D stage;
- Can flexibly switch between cassettes and hollow fiber consumables;
- Minimum investment cost;
- Free combination of processes, smaller operation volume;
- Built-in 10 process recipes, covering a variety of application scenarios;
- Independent development of core components, stable supply chain, short lead time;

System Functions

- Constant TMP control
- Constant ΔP control;
- NWP calculation;
- Continuous/discontinuous enrichment;
- Constant volume diafiltration
- Shear rate calculation;
- Recipe management;
- Batch management/report management;
- Data processing/data export/trend analysis





		Minilab	TK-FLOW Lab	TK-FLOW Pilot	TK-FLOW Process
					
Consumables	Hollow fiber	Mini 30cm Mini 60cm Minilab 30cm Minilab 60cm	Lab 30cm Lab 60cm Pilot 30cm Pilot 60cm Pilot 110cm	Pilot 30cm Pilot 60cm Pilot 110cm Pilot+ 30cm Pilot+ 60cm Pilot+ 110cm	Process 30cm Process 60cm Process 110cm
	Consieve UET	Consieve UET 0.01m ² Consieve UET 0.1m ²	Consieve UET 0.1m ²	Consieve UET 0.5m ²	Consieve UET 2.33m ³
Max. Flow rate	Main pump	3400ml/min	180L/H	2500L/H	5000L/H
	Auxiliary pump	480ml/min	5L/min	20L/min	40L/min
Connection material	Silicone hose	13#14#16#	316L	316L	316L
Adaptive holders		0.01m ²	0.1m ²	0.5m ² /5m ²	20m ²
Floor space		Desktop	1440x550x800mm	1530x550x1100mm	1540x1120x1800mm
Minimum operating volume		20ml	<300ml	<600ml	/
Standard instrument		Pressure transmitter Balance	Conductivity detection Pressure transmitter Flow transmitter	Conductivity detection Pressure transmitter Flow transmitter	Conductivity detection Pressure transmitter Flow transmitter
Optional instrument			Mixing PH detection UV detection	Mixing PH detection UV detection	Mixing PH detection UV detection
Tank volume		500ml	5L/10L	10-20L	50-500L
Automatic control mode		Constant TMP control Constant ΔP control Constant volume filtration Continuous concentration Online NWP	Constant TMP control Constant ΔP control Constant volume filtration Continuous concentration Online NWP	Constant TMP control Constant ΔP control Constant volume filtration Continuous concentration Online NWP	Constant TMP control Constant ΔP control Constant volume filtration Continuous concentration Online NWP
Power Supply		220V	220V	380V	380V
Application Scenario		Laboratory R&D Process development	Small scale-up Industrial data collection	Pilot scale test Pilot scale-up	Commercial scale-up
Applicable process		Suitable for a variety of biological product processes, such as antibodies, vaccines, lentiviruses, nucleic acids, blood products, recombinant proteins, plasmids, etc			

SUS Buffer Preparation and Storage System

Lifecube™ S-M Single-use Buffer Preparation System

Cobetter Lifecube™ S-M single-use buffer preparation system consists of stainless steel support vessel, magnetic stirring drive motor and automatic control system. The buffer preparation system is designed with all high-precision accessories, which can provide a variety of stirring and mixing operation processes for liquid-liquid and powder-liquid mixing in biopharmaceutical process.

The automation system meets the requirements of 21 CFR Part 11 and can realize three-level authority configuration, online instrument calibration, batch report printing, alarm records and other audit trail functions, fully meeting the requirements of data integrity and reliability. The control unit is highly integrated and can be used offline as well. Data upload and integration can be achieved through the customer's central control system. The configured HMI/IPC control interface can realize pH detection, conductivity detection, temperature detection, dissolved oxygen detection and other data.

The system can be configured with integral and split stirring motors, and up/down stirring modes can be selected as needed. From 20L to 2000L, Cobetter can provide customized services according to customers' production scale requirements. The mixing bag is pre-sterilized and requires no cleaning. Users can observe the mixing conditions inside the mixing bag through the system's viewing window.



Round corner design

No cleaning dead ends

Precise sand blasting process



Product Features

- Can be customized for customers to meet various process requirements
- Up/down stirring, integrated/split stirring modes are available.
- With multi-level electronic control system in compliance with cGMP standards, meeting the data integrity and reliability requirements in audit trail.
- Can be customized to equip different kinds of instruments and meters to meet the complex monitoring requirements in different processes.
- Jacket and thermal insulation layer is optional, can realize temperature control.
- No need for process cleaning between equipment use, simplify cleaning process validation work and improve production efficiency.
- Customer-centric concept, provide full range of customized design for customers.
- Adopt stringent quality management system in the industry to ensure the safety, stability and reliability of each product.

The Cobetter Lifecube™ S-M single-use buffer preparation system process vessel features a round bottom and a one-piece precise sandblasting process, making it easy to clean the stainless steel exterior surface before and after production, fully meeting sanitary requirements.

Application

- Culture medium preparation
- Buffer preparation
- Dilution preparation
- Intermediates preparation
- Virus inactivation
- Mixing of vaccine adjuvant
- Purification intermediate product mixing process



Specifications

Parameters	Description
Main body material	304 stainless steel
Surface treatment	Internal and external shot blasting Ra≤1.0μm
Casters	Polyurethane casters for clean area, can be moved flexibly
Stirring motor	Magnetic coupling stirring/magnetic levitation stirring, can be equipped with servo drive for speed adjustment
Load cell	Load module adopts C3 grade
Online temperature (optional)	Monitor liquid temperature in real time, plug-in/non-plug-in temperature sensor, 4-20mA output, accuracy: ± 0.1°C
Online pH (optional)	Monitor PH of liquid in real time, range 0-14
Online conductivity (optional)	Monitoring of liquid conductivity in real time, range 1us-300ms/cm
Online dissolved oxygen (optional)	Monitor of liquid dissolved oxygen in real time, range 4ppb-25ppm
Self-control	User data output, audit trail, PDF report, user rights management
Jacket (optional insulation system)	Three layers and five sides of honeycomb jacket design, test pressure 4 bar, the outside of the insulation cotton can prevent condensate seepage
TCU (optional insulation system)	Temperature control range 2 to 40°C, Heating and cooling time: 30-120 min, Water temperature control accuracy: within ±0.2°C
Design features	· Side operation door and viewable window can be used to observe the liquid status; · Side sampling port design support for the fixation of the sampling bag hose; · The bottom of the support container has an inclination angle of 1°, and the opening at the lowest point enables discharging without dead ends. · Rounded corners inside the support container, no dead-end residue · Testing instruments are optional · Printing function can be added to the system

Function Selection Chart

Parameters	Description	Parameters	Description
Body material	304 stainless steel	TCU	○
Max. speed	MP-type : 0-300rpm±5rpm	Online Temperature	○
	MG-type : 0-220rpm±5rpm	Online pH meter	○
	MK-type : 0-600rpm±5rpm	Online dissolved oxygen	○
Surface treatment	Internal and external shot blasting Ra<1.0μm	Online conductivity	○
Rated voltage	220V±10%	Printer	○
Max. power	850W	PLC	●
Stirring	●	HMI	●
Load cell	○	IPC	○
Jacket	○	UPS	○
Caster	●		

Ps. ● Standard , ○ Optional

Single-use Buffer Preparation System Ordering Information

Items	Model	Container shape	Working volume	Jacket	Remarks
Tabletop	S-MGXJ-20	Rectangle	20L	Yes	MG paddles
	S-MKXJ-20	Rectangle	20L		MK paddles
MP-type	S-MPX-50	Rectangle	50L	None	MP paddles
	S-MPX-100	Rectangle	100L		
	S-MPX-200	Rectangle	200L		
	S-MPX-500	Rectangle	500L		
	S-MPX-1000	Rectangle	1000L		
	S-MPX-2000	Rectangle	2000L		
Jacketed MP-type	S-MPXJ-50	Rectangle	50L	Cellular jacket	MP paddles
	S-MPXJ-100	Rectangle	100L		
	S-MPXJ-200	Rectangle	200L		
	S-MPXJ-500	Rectangle	500L		
	S-MPXJ-1000	Rectangle	1000L		
	S-MPXJ-2000	Rectangle	2000L		
MG-type	S-MGX-50	Rectangle	50L	None	MG paddles
	S-MGX-100	Rectangle	100L		
	S-MGX-200	Rectangle	200L		
	S-MGX-500	Rectangle	500L		
	S-MGX-1000	Rectangle	1000L		
	S-MGX-2000	Rectangle	2000L		
Jacketed MG-type	S-MGXJ-50	Rectangle	50L	Cellular jacket	MG paddles
	S-MGXJ-100	Rectangle	100L		
	S-MGXJ-200	Rectangle	200L		
	S-MGXJ-500	Rectangle	500L		
	S-MGXJ-1000	Rectangle	1000L		
	S-MGXJ-2000	Rectangle	2000L		
MK-type	S-MKX-50	Roundness	50L	None	MK paddles
	S-MKX-100	Roundness	100L		
	S-MKX-200	Roundness	200L		
	S-MKX-500	Roundness	500L		
	S-MKX-1000	Roundness	1000L		
Jacketed MK-type	S-MKJX-50	Roundness	50L	Cellular jacket	MK paddles
	S-MKJX-100	Roundness	100L		
	S-MKJX-200	Roundness	200L		
	S-MKJX-500	Roundness	500L		
	S-MKJX-1000	Roundness	1000L		

Lifecube™ SPP Single-use Buffer Storage System

Cobetter single-use buffer storage system, which can be used with disposable 3D liquid storage bags and liner bags. Stainless steel square liquid storage support containers, stainless steel round liquid storage support containers, plastic square folding containers, plastic round support containers, stainless steel bases, etc. are available. The outer surface of the stainless steel support container can optionally be shot blasted to have a clean surface. Special polyurethane swivel casters for special areas, flexible movement and easy transfer of liquids.

Product Features

- Stainless steel products inside and outside surface shot blasting $Ra \leq 1.0\mu m$, smooth and no dead angle
- Stainless steel products can be customized
- Plastic container injection molding process, lightweight and durable
- Good chemical stability, resistant to general reagents, such as alcohol wipe
- Plastic support containers with lids are designed to reduce significant evaporation and contamination, and can be worked with stainless steel bases for transit

Application

- Widely used in storage and transfer of buffer and medium after filtration, transfer of intermediate products or stock solution, storage of ultrafiltration products, etc.



Lifecube™ SPP Single use buffer storage system ordering information

Items	Model	Shape	Working volume	Material	Dimensions
Stainless steel support containers	SS-CY50L	Rectangle / Round	50L	304	556×466×H950
	SS-CY100L	Rectangle / Round	100L	304	716×556×H97
	SS-CY200L	Rectangle / Round	200L	304	806×696×H1010
	SS-CY500L	Rectangle / Round	500L	304	1200×903×H1010
	SS-CY1000L	Rectangle	1000L	304	1400×1030×H1400
	SS-CY2000L	Rectangle	2000L	304	1400×1030×H2300
	SS-CY2500L	Rectangle	2500L	304	1400×1030×H2750
Plastic support containers	SPP-CY57L	Round (Inlet)	57L	PE	Ø360×H710
	SPP-CY113L	Round (Inlet)	113L	PE	Ø460×H760
	SPP-CY208L	Round (Inlet)	208L	PE	Ø560×H910
	SPP-CY250L	Rectangle folding	250L	PP	809×609×H833
	SPP-CY500L	Rectangle folding	500L	pp	1200×800×H910
	SPP-CY1000L	Rectangle folding	1000L	pp	1100×1100×H1139
Round plastic base	S-D250L	Round	50L	304+ Polyurethane casters	Ø461*H153
	S-DZ100L	Round	100L	304+ Polyurethane casters	Ø461*H153
	S-DZ200L	Round	200L	304+ Polyurethane casters	Ø601*H153
Square plastic base	SPP-DZ250L	Rectangle folding	250L	304+ Polyurethane casters	819*619
	SPP-DZ500L	Rectangle folding	500L	304+ Polyurethane casters	1210*810
	SPP-DZ1000L	Rectangle folding	1000L	304+ Polyurethane casters	1165*1165

SUS buffer preparation and storage system

Other one-time process solutions

Through-wall assembly

This assembly enables sterile fluid transfer between pharmaceutical equipment located in different rooms (a single stainless steel channel enables sterile transfer of multiple fluids at both ends of the channel), helping to integrate different rooms and equipment with different cleanliness requirements. Isolate each other and effectively reduce the risk of environmental pollution from related equipment. Avoid the risk of breakage or leakage caused by traditional physical (bags or other containers) fluid transfer methods. The system integrates many single-use components that do not require cleaning and validation, thereby saving validation costs, validation time, and related human and material resources.



Items	Model	Material	Description
Through-wall Assembly	SS-3-C	316L	Between Level C
	SS-3-CB	316L	Between Level C and Level B
	SS-4-C	316L	Between Level C
	SS-4-CB	316L	Between Level C and Level B
	SS-6-C	316L	Between Level C
	SS-6-CB	316L	Between Level C and Level B

Single-use 2D PP tray

Items	Model	Material	Remarks
2D 10L tray	SPP-DZTP-10	HDPE	2D tray
2D 20L tray	SPP-DZTP-20	HDPE	
2D 50L tray	SPP-DZTP-50	HDPE	

Cobetter single-use PP tray can match with our single use 2D bags and customization size is available.

After sales and service

The pharmaceutical industry is subject to more stringent regulations than other industries, and to help you meet the different challenges of different regulatory environments, we offer a full range of products and services. These services can not only help you save time, but also reduce the corresponding costs for your system operation.

Preliminary pilot experiment

Cobetter not only has hardware products of various types, but also a professional technical support team of more than 40 technical persons, who can provide you with a number of pilot technical support services at your early stage of research and development, including cassettes, hollow fiber, clarification filtration, virus removal filtration, filtration test, etc. aim to assist customers to explore the key data required for process scale-up to the maximum with minimal experimental cost, provide a solid theoretical foundation for later system scale-up.

Training service

System training services include not only explanations of the basic operations of the hardware system, but also explanations of system design principles, so that operators can master the operation of the system proficiently and possess certain basic knowledge. Rich theoretical knowledge and good response ability to daily basic operations, system upgrades and possible emergencies.

- System process explanation
- System design principle
- System components introduction
- Consumables related content
- System control principle
- System operation explanation
- System maintenance

System validation service

Our validation services are aim to designed to fit your real production needs to the maximum from the design stage to ensure the continuous and stable operation of the system could afford the challenges of different regional regulations including GMP, EU, FDA, etc

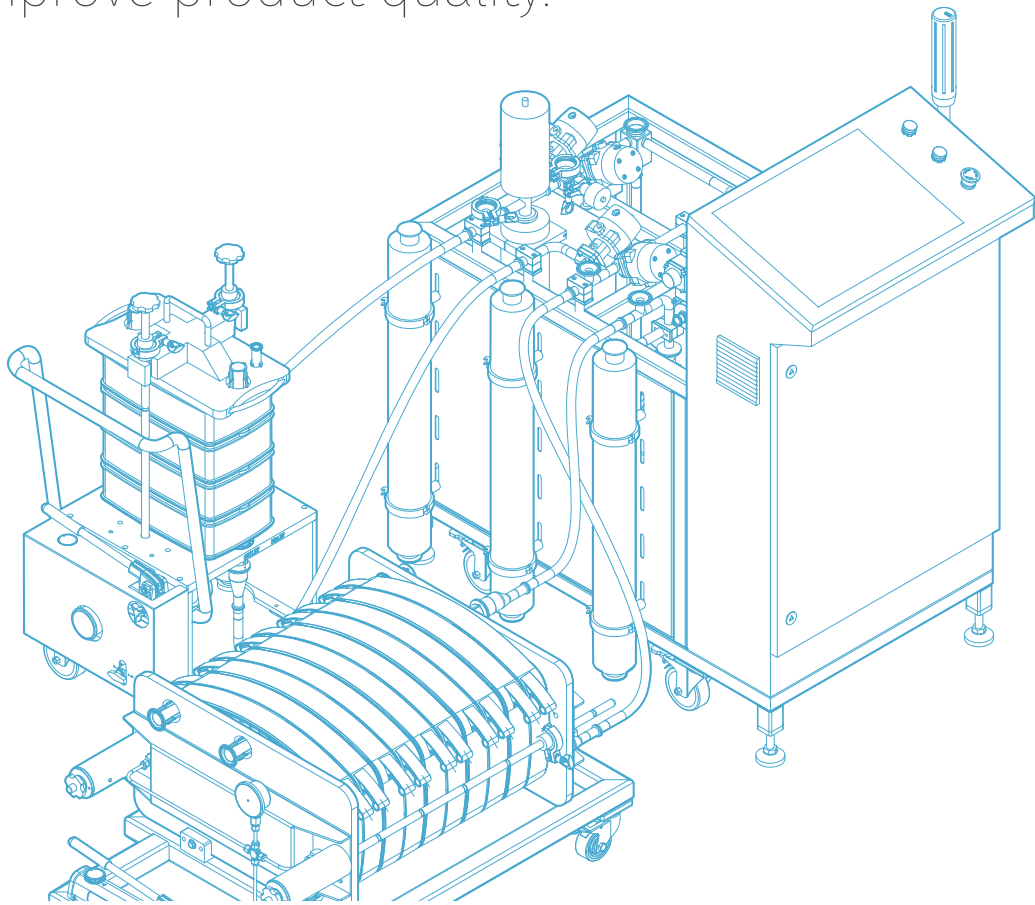
System upgrade service

All hardware system and operating software are independently developed by Cobetter. We can not only provide solutions based on customers' current process flows, but also provide corresponding software upgrade services as customers' process flows change and upgrade. With the upgrade of Cobetter cassettes kit, corresponding hardware upgrades are also provided free of charge.



Our Mission

Committed to providing excellent products and continuous innovative solutions, we help customers optimise their process and improve product quality.



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