LABORATORY SINGLE-USE SYSTEMS

The indispensable bench tools for a successful scale-up





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This is DrM

Customized solutions

Each solid-liquid separation system is tailor made to the specific application parameters of our clients. We view every application as a challenge to satisfy our clients, regardless if the application is straight forward or complex.

Application comprehension

Every solid-liquid separation application is unique. DrM's comprehension of all of the applications begins with a discussion with the client and is followed by a request that the client complete an application questionnaire to the best of its ability. Following a review of the information submitted by the client, DrM application specialists may suggest that onsite testing and/or piloting be carried out. This hands-on work ultimately gives both DrM and its clients the confidence that the process is scalable. It also puts DrM in a position to submit a technical/commercial proposal that it will stand behind.

Quality above all

DrM's Quality System is ISO 9001 certified for the design and manufacture plants. We are dedicated to continually improving the efficiency and the effectiveness of our quality management system. All of our products follow a rigid quality control program that employs the most current testing and inspection methods prior to shipment.



NUTSCHE STAINLESS STEEL

850226.35

For initial evaluation of the suspension and preliminary selection of the most suitable filter cloth, Nutsche type pressure filters are available.

Material	SS 316L	
Filter Area (m²) 0.001		
Filling Volume (It)	0.2	
Weight (kg)	6	
Max. Pressure (barg)	30	
Max. Temperature (°C)	200	
Heating jacket	Yes	
Accessories	Ball valve, pressure gauge, gas pressure reducer	



BACK-FLUSH TANK 1-5L		
Includes	1 SU Back-flush bag 1 Housing 1 Tri clamp 1 Tri clamp gasket	
Bag volume (It)	1-5	
Note	Other specification based on FUNDABAC® Single-Use Filter	



FUNDAMIX® SU 10L	890510.00
Drive unit	1
Plate dia. (mm)	65
Mixing volume (It)	10



AIR COMPRESSOR	896700.00			
Execution	Stand-alone			
Max. Flow (It / min)	37			
Max. Pressure (barg)	8			
Tank Volume (It)	3.5			
Power Supply (V AC)	100-240			
Noise Level (dB)	30-40			
Note	Lubricated. Pressure reducing valve and pressure gauges available. Quick pneumatic coupling connection. Other compressor types and oil-free on request			



FUNDALOOP® CONTROL BOX 895301.00			
Material	PE, PP		
Power Supply (V AC)	230 V, 50 Hz		
Compressed Air Connection	6 or 8 mm		
Max. Pressure (barg)	2		



FUNDALOOP® MANIFOLD 892	
Material	PE, PP



FUNDALOOP® FILTER BAG 891135.0		
Filter Area (m²)	0.006	
Filling Volume (It)	0.5	
Material	PE, PP	



FUNDALOOP® BACKFLUSH BAG 1-5 L 891120.0		
Filling Volume (It)	1-5	
Material	PE, PP	



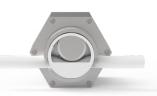
FUNDALOOP® DISCHARGE BAG 894624.91		
Filling Volume (It)	20	
Material	PE	



CENTRIFUGAL PUMP	896500.00		
Execution	Stand-alone, integrated user panel with display		
Product Contact Parts	Polypropylene		
Max. Flow (It / min)	17		
Max. Pressure (barg)	2		
Max. Temperature (°C)	60		
Power Supply (V DC)	24		
Note	Manual and analog input. Tri clamp or hose barb fittings available. Wet material can be delivered pre sterilized by gamma irradiation. Wet material FDA, USP Class VI, BSE/TSE/animal free. Other centrifugal pump configuration and materials available on request		







Туре	Pinch, non-invasive	Pinch, non-invasive	Pinch, non-invasive
Actuation	Remote from PLC, local with switch and via App (iPhone)		
Actuation Time (open and close)	3 sec	3 sec	3 sec
Weight	0.2 kg	1.1 kg	2.6 kg
Dimensions (L x Ø)	97mm x 50mm	140mm x 73mm	195mm x 120mm
Max. op. Pressure (barg)	5 - 20 (*1)	5 - 20 (*1)	5 - 20 (*1)
Max. op. Temperature	60 °C	60 °C	60 °C
Hose size	OD 3 - 9 mm OD 1/8" - 3/8"	OD *9 - 20 mm OD 3/8" - 3/4"	OD *20 - 35 mm OD 3/4" - 1 3/8"
Material	316L / HDPE / POM	316L / HDPE / PA	316L / HDPE / PA
Protection Rating	IP65	IP65	IP65
Power consumption	Idle position: 0.1W In operation (3s): 5W	Idle position: 0.1W In operation (3s): 10W	Idle position: 0.1W In operation (3s): 20W
Power Supply	12 - 24 Vdc (*2)	24 Vdc	24 Vdc
Material	316L / HDPE / POM	316L / HDPE / PA	316L / HDPE / PA
Max. op. Pressure (barg)	5 - 20 (*1)	5 - 20 (*1)	5 - 20 (*1)
Max. op. Temperature	60 °C	60 °C	60 °C
Protection rating	IP65	IP65	IP65
Signal Input (Analog Mode)	420mA (24Vdc)	420mA (24Vdc)	420mA (24Vdc)
Signal Input (ON/OFF Mode)	NC: ON (24Vdc) / OFF (0Vdc) NO: ON (0Vdc) / OFF (24Vdc)		
Non Conformity Alarm	Normal: 0Vdc / Non Conformity: 24Vdc		
Electrical connections	Power 24Vdc, Ground, Signal Input 24Vdc, Non Conformity Output 24Vdc		
Chemical resistance	Suited for IPA Cleaning (Cleanroom airlocks)		
	*1: Max. operating pressure depends on tube size. *2: Nominal voltage 12V. Valve can operate at 24V		

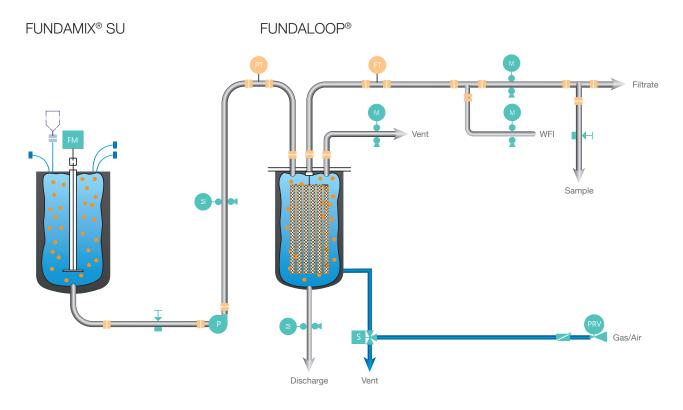
Notes

²: Nominal voltage 12V. Valve can operate at 24V

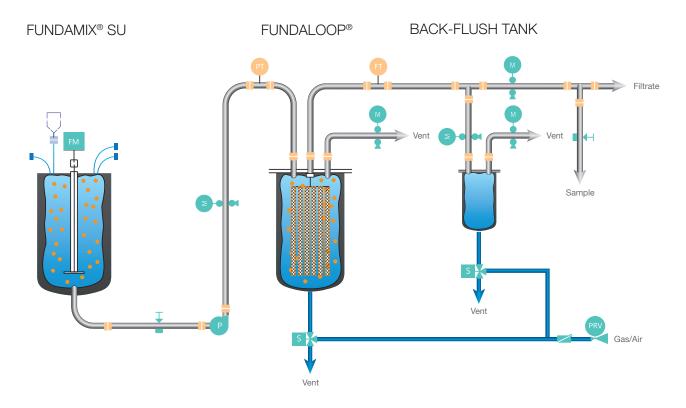
by adjusting power settings in the App.
*3 Operation also possible for smaller hose sizes starting at 3 mm.
Opening and closing times depend on power setting and tube diameter.

Single-Use Flowsheets

Process flow diagram of a FUNDALOOP® Filter and a FUNDAMIX® SU Mixer.



Process flow diagram of a FUNDALOOP® Filter with a back-flush tank and a FUNDAMIX® SU Mixer.





Headquarters and Subsidiaries

Switzerland (HQ)

DrM, Dr. Mueller AG Alte Landstrasse 415 8708 Maennedorf, Switzerland

Tel. +41 44 921 2121 Fax +41 44 921 2131

mailbox@drm.ch
www.drmgroup.com

China

DrM Shanghai Co., Ltd. Building 2 No. 18 Rong Xin Road Xinqiao,Song Jiang District Shanghai 201612, China

Tel. +86 21 5768 7390 Fax +86 21 5768 7391

Poland

DrM Polska Sp. z o.o. Al. Kazimierza Wielkiego 5 PL87-800 Wloclawek, Poland

Tel. +48 54 237 2921 Fax +48 54 237 2931

India

DrM Filter Technology Pvt. Ltd. Plot 46 – 1 & 2 Hansot Road Village Pungam, Ankleshwar Bharuch, Gujarat, 393020, India

Tel. +91 2646 652775/6

USA

DrM, Inc. 2125 Center Ave. Suite 507 Fort Lee NJ 07024, USA

Tel. +1 201 302 0667 Fax +1 201 302 6062

Malaysia

DrM, Dr. Mueller AG SEA Regional Office No. 13 Jalan SE 2B Sunway Eastwood Taman Equine Seri Kembangan 43300 Selangor, Malaysia

Tel. +60 3 8940 4917 Mob. +60 17 394 056