

# Rental Filtration Equipment **FUNDABAC® | CONTIBAC®**

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Efficient solutions for small-scale testing and validation



**DrM**

[www.drmgroupp.com](http://www.drmgroupp.com)

# **RENTAL FILTRATION EQUIPMENT**



# 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 on-site 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.

# Filtration Options

During selection, sizing and validation of process equipment laboratory and pilot testing are indispensable bench tools. In filtration processes they provide important data on flow, pressure, filtrate quality, residual moisture, washing yield, filter aid demand and other parameters. The insight gained serves the process engineer and plant designer for sound planning and specification of the full-scale production equipment. After the execution of significant pilot tests the determination of a performance or process guarantee is normally possible.

Rental filtration equipment type FUNDABAC® & CONTIBAC® are available in various sizes from laboratory and pilot scale up to industrial production.

SCALE	FILTER AREA (m <sup>2</sup> )	FILTER ELEMENT		MODE OF OPERATION
		SIZE (mm)	QUANTITY	
Laboratory	0.012-0.048	Ø 30 <sup>(1)</sup>	1	manual
Pilot Unit	0.16-0.32	Ø 75 <sup>(2)</sup>	1	manual / automatic
Semi Industrial	1.0-3.0	Ø 75 <sup>(2)</sup>	4-7	manual / automatic
Production	4.5-50	Ø 75 <sup>(2)</sup>	14-78	automatic

<sup>(1)</sup> 1:2.5 reduced FUNDABAC® Filter element

<sup>(2)</sup> regular FUNDABAC® Filter element

Besides stainless steel (316L) various plastics (PP, PVDF) as well as corrosion resistant coatings are available as materials of construction. Normally the units are fitted with heating jackets as well as heel volume filtration (HVF) devices. Most of the units can be operated as CONTIBAC® thickeners alternatively when assembling the conical bottom. A suitable feed pump can be supplied for the majority of the units, if desired.

The rental equipment complies with applicable pressure equipment directives and is certified accordingly (PED, ASME). Various plants are available with ATEX approval for use in a potentially explosive atmosphere.

# Unit Specifications

CRITERIA		LAB FILTER TSD	MONO-CANDLE TEST FILTER	MULTI-CANDLE TEST FILTER	MULTI-CANDLE PRODUCTION FILTER
Duty / Scale		Laboratory	Pilot testing	Semi industrial / Small batch	Industrial / Production
Filter Area (m <sup>2</sup> )		0.012-0.048	0.16-0.32	1.0-3.0	4.0-50
Filter element	Size (mm)	Ø 30	Ø 75	Ø 75	Ø 75
	Quantity	1	1	3-6	> 10
Element geometry vs. industrial scale		similar reduced	identical	identical	identical
Mode of operation		manual	manual / automatic	manual / automatic	automatic
Space required approx.					
	Area (m <sup>2</sup> )	0.3	1-2	2-6	7-20
	Height (m)	0.7	1.9-2.5	2.5-5	4-7.5
Empty Weight approx. (kg)		10	200-1000	600-3000	2500-11000
Fill Volume approx. (lt)		1	20-60	150-500	800-6700
Batch Volume approx. (lt)		> 3	> 50	> 300	> 1000
Cake Volume approx. (lt)		0.35	5-30	40-100	150-1200
Materials of construction		SS 316L, PVDF	SS 316L, Hastelloy®, PP / PVDF, HALAR®	SS 316L, HRL	SS 316L
Heel Volume Filtration / Spray Washing		no	yes	yes	yes
Heating jacket		yes	yes	yes	yes
Operating Pressure (barg)		20 (metal) 5 (plastic)	6-10 (up to 60)	6-10	6-10
Pump Flow		~ 10 lt/min	1-2 m <sup>3</sup> /h	5-15 m <sup>3</sup> /h	case dependent
Process gas Pressure		min 4 barg	min 4 barg	min 4 barg	min 4 barg
Power supply		no	yes / no	yes	yes
Sanitary version (STERIBAC®)		yes	yes	no	no
CONTIBAC® RX		no	no	yes	no
Suitable for Ex-Zone		yes	yes	yes	yes
Estimated rental duration		few days	2-6 weeks	1-3 months	several months
Duration of instruction / Start-up approx.		none	1-3 days	3-5 days	1-2 weeks
Number of units available		20	25	8	3

The selection options / combinations are limited. DrM reserves the right to change the data without prior notice.

# Unit options



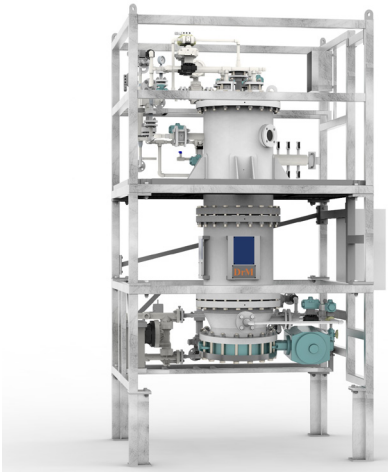
LABORATORY FILTER TSD	SS 316L	PVDF
Equipment No. APN	several	
Filter Area (m <sup>2</sup> )	0.012	
Vessel Ø (mm)	80	
Max. Pressure (barg)	-1 / 20	5
Max. Temperature (°C)	250	80
Material	SS 316L	PVDF
Dimensions (mm)	460 x 500 x 220	
Weight (kg)	10.7	7.3



PILOT FILTER FUNDABAC® MONO MANUAL	
Equipment No. APN	several
Filter Area (m <sup>2</sup> )	0.16-0.32
Vessel Ø (mm)	140-220
Max. Pressure (barg)	6-10
Max. Temperature (°C)	100-200
Material	SS 316L, PP
Dimensions (mm)	1770 X 970 X 2210
Weight (kg)	400



PILOT FILTER FUNDABAC® MONO AUTOMATIC	
Equipment No. APN	several
Filter Area (m <sup>2</sup> )	0.16-0.32
Vessel Ø (mm)	150-220
Max. Pressure (barg)	6-10
Max. Temperature (°C)	100-200
Material	SS 316L, PVDF
Dimensions (mm)	on demand
Weight (kg)	670



#### PILOT FILTER FUNDABAC® QUATTRO AUTOMATIC

Equipment No. APN	52919, 53017
Filter Area (m <sup>2</sup> )	1.0, 1.2
Vessel Ø (mm)	400, 508
Max. Pressure (barg)	10
Max. Temperature (°C)	120, 80
Material	SS 316L, HRL
Dimensions (mm)	2100 x 970 x 2210, 1810 x 1710 x 3150
Weight (kg)	650, 1400



#### PILOT FILTER FUNDABAC® HEPTA AUTOMATIC

Equipment No. APN	several
Filter Area (m <sup>2</sup> )	2.3-50.7
Vessel Ø (mm)	500-1600
Max. Pressure (barg)	6-10
Max. Temperature (°C)	100-200
Material	SS 316L
Dimensions (mm)	on demand
Weight (kg)	1100-11000



#### PILOT FILTER CONTIBAC® RX AUTOMATIC SS

Equipment No. APN	several
Filter Area (m <sup>2</sup> )	1-3
Vessel Ø (mm)	323.9
Max. Pressure (barg)	6.5-7.5
Max. Temperature (°C)	80
Material	SS 316L
Dimensions (mm)	on demand
Weight (kg)	355-940



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