

Enclosed Plate and Frame Filter BECO INTEGRA® PLATE 1000 EP

Stainless Steel Chassis, Plastic Filter Plates, and Cake Frames

BECO INTEGRA PLATE 1000 EP enclosed plate and frame filter is the depth filtration system for critical filtration tasks in the pharmaceutical and biotech, chemical, cosmetics, and food industries.

BECO INTEGRA PLATE 1000 EP is a multi-sheet filter with external chamber. Depth filter sheets seal the product channels. Gaskets at the external chamber seal the entire filter package.



Special Features

- CIP of filter package without depth filter sheets
- Complete drainage of filter due to unique filter plate design
- Safe operation: No drip loss due to sealed external chamber and automatic hydraulic pressure regulation
- Easy handling and good cleanability thanks to ergonomic design of chassis, and open support grid of filter plates; cake discharge downwards into tray underneath of filter package
- High flexibility: The filter can be used as a sheet filter or as a pre-coat filter. For pre-coating/removing of high particle load, cake frames in different widths are available
- BECO INTEGRA PLATE 1000 EP filter is designed and manufactured according to the cGMP guidelines and the FDA regulations

Customization or additional components allow for system expansion or complete systems according to customer specifications



Technical Data

Operating pressure/temperature:	max. 72 psi (500 kPa/5 bar) at 104 °F (40 °C) max. 29 psi (200 kPa/2 bar) at 140 °F (60 °C)
Differential pressure/temperature:	max. 300 kPa (3 bar) bei 40 °C
Filter area per sheet:	8.07 ft² (0.75 m²)

Materials

Product contacting parts:	Polypropylene/Stainless Steel AISI 316L
Sonstige Teile:	Stainless Steel AISI 304
Dichtungen/ O-Ringe:	Silicone, EPDM (FDA listed), Viton

Type	Filter area		Cake volume *		Chassis size	Filter plates/ cake frames	Depth filter sheets 680 x 779 mm	Weight for Standard Type		
	ft ²	(m ²)	gal	(l)				≈ lb	(kg)	
1000 SF plate and frame filter	500.52	(46.50)	91.93	(348)	1	30/31	62	14,548	(6,599)	
	791.15	(73.50)	145.56	(551)	2	48/49	98	16,448	(7,461)	
	with 0.79" (20 mm) cake frames	1,081.77	(100.50)	198.92	(753)	3	66/67	134	18,571	(8,424)
		1,372.40	(127.50)	252.55	(956)	4	84/85	170	20,472	(9,286)
1000 ASF frame filter	419.80	(39.00)	128.65	(487)	1	25/26	52	14,422	(6,542)	
	661.98	(61.50)	202.88	(768)	2	40/41	82	16,241	(7,367)	
	with 1.18" (30 mm) cake frames	920.31	(85.50)	282.14	(1,068)	3	56/57	114	18,375	(8,335)
		1,162.50	(108.00)	356.63	(1,350)	4	71/72	144	20,194	(9,160)
1000 ASF frame filter	371.35	(34.50)	159.30	(603)	1	22/23	46	14,391	(6,528)	
	581.25	(54.00)	249.64	(945)	2	35/36	72	16,164	(7,332)	
	with 1.57" (40 mm) cake frames	791.15	(73.50)	339.73	(1,286)	3	48/49	98	18,157	(8,236)
		1,001.04	(93.00)	429.81	(1,627)	4	61/62	124	19,929	(9,040)

* usable cake volume

Filter Plates/Cake Frames

	Width		Cake volume*		Weight	
	in	(mm)	gal	(l)	lb	(kg)
Initial/End plate	1.10	(28)			67.9	(30.8)
Filter plate	1.10	(28)			61.3	(27.8)
Cake frame	0.79	(20)	2.97	(11.25)	22.3	(10.1)
Cake frame	1.18	(30)	4.95	(18.75)	33.5	(15.2)
Cake frame	1.57	(40)	6,93	(26.25)	44.5	20.2

* usable cake volume

Connections

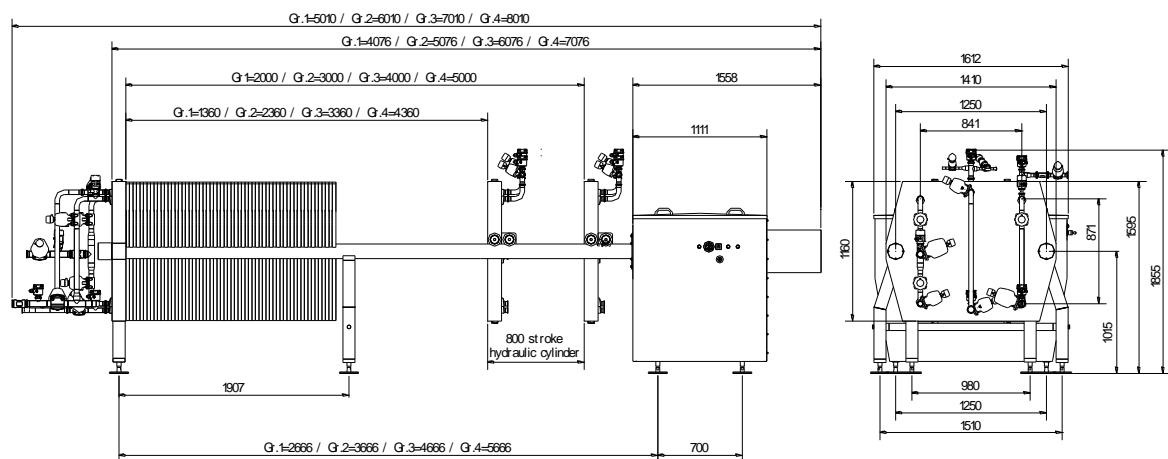
Filter inlet:	TC 2,5" ISO2852/ASME BSP
Filter outlet:	TC 2,5" ISO2852/ASME BSP
External chamber:	TC 2,5" ISO2852/ASME BSP

Other Connections

Threaded connections according to DIN 1151/11864

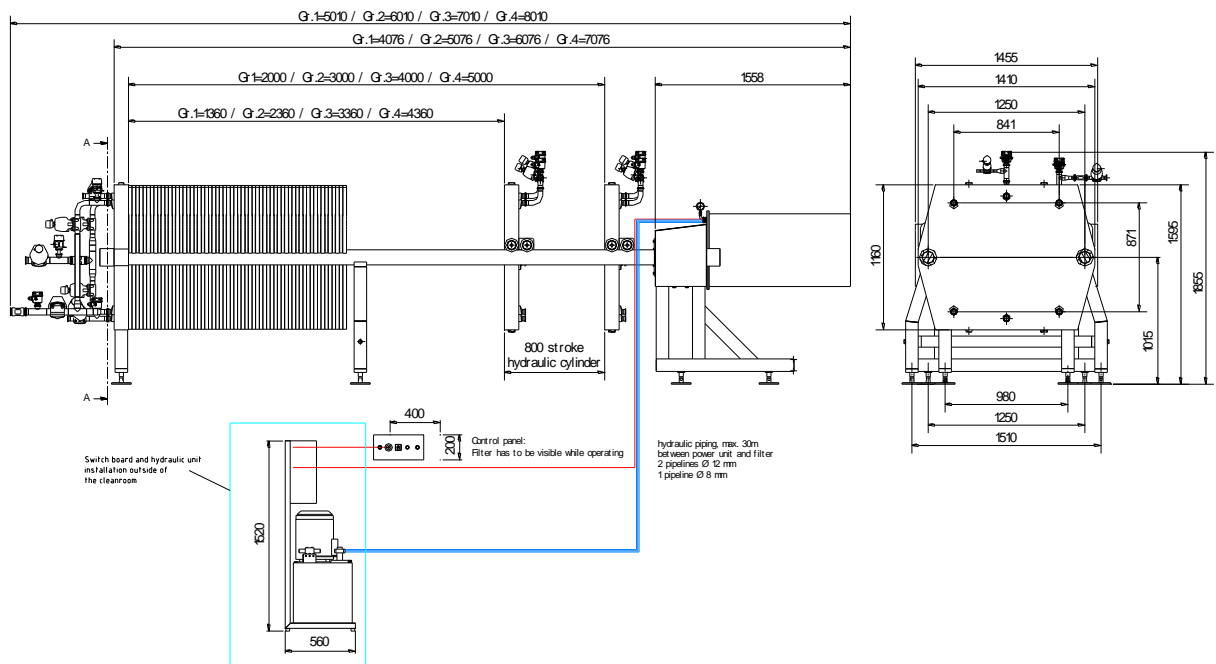
Standard type in compact design

The chassis length is always adapted to the necessary requirements. Gestelllänge wird immer auf die erforderlichen Anforderungen angepasst.



Sanitary design for the installation in cleanroom

The chassis length is always adapted to the necessary requirements.



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1A2611.10
12-2016

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