

Enclosed Plate and Frame Filter BECO INTEGRA® PLATE 800 EP

Stainless Steel Chassis, Plastic Filter Plates, and Cake Frames

BECO INTEGRA PLATE 800 EP enclosed plate and frame filter is for critical filtration tasks in the pharmaceutical and biotech, chemical, cosmetics, and food industries.

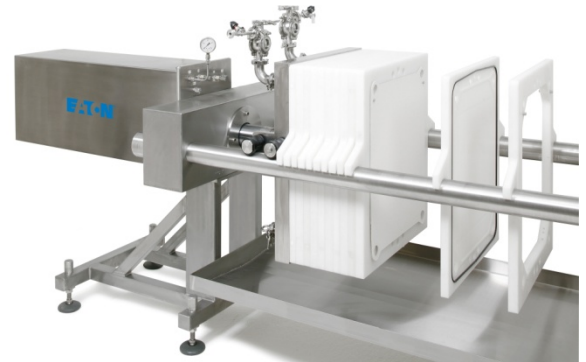
BECO INTEGRA PLATE 800 EP is a multi-sheet-filter with an external chamber. The product channels are sealed with depth filter sheets only. The sealing of the whole filter package is realized by means of gaskets around the external chamber.



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 800 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.



Materials

Product contacting parts:	Polypropylene/Stainless steel AISI 316L
Other parts:	Stainless steel AISI 304
Gaskets/O-rings:	Silicone, EPDM (FDA listed), Viton

Technical Data

Operating pressure/temp.:	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/temp.:	max. 43 psi (300 kPa/3bar) at 104 °F (40 °C)
Filter area per sheet:	4.74 ft ² (0.44 m ²)

Type	Filter area		Cake volume*		Chassis size	Filter plates/ cake frames	Depth filter sheets 26.8 x 30.7 in (680 x 779 mm)		Weight	
	ft ²	(m ²)	gal	(l)			qty	qty	≈ lb	(kg)
800 SF plate and frame filter	236.80	(22.00)	43.59	(165)	1	24/25	50	7,672	(3,480)	
	388.36	(36.08)	71.59	(271)	2	40/41	82	8,323	(3,775)	
	with 0.79" (20 mm) cake frames	539.92	(50.16)	99.33	(376)	3	56/57	114	8,984	(4,075)
	710.42	(66.00)	130.77	(495)	4	74/75	150	9,656	(4,380)	
800 ASF frame filter	208.39	(19.36)	63.93	(242)	1	21/22	44	7,937	(3,600)	
	331.53	(30.80)	101.71	(385)	2	34/35	70	8,488	(3,850)	
	with 1.18" (30 mm) cake frames	464.14	(43.12)	142.39	(539)	3	48/49	98	9,149	(4,150)
	606.22	(56.32)	185.98	(704)	4	63/64	128	9,811	(4,450)	
800 ASF frame filter	179.97	(16.72)	77.40	(293)	1	18/19	38	8,102	(3,675)	
	284.17	(26.40)	122.05	(462)	2	29/30	60	8,598	(3,900)	
	with 1.57" (40 mm) cake frames	397.83	(36.96)	170.92	(647)	3	41/42	84	9,149	(4,150)
	530.45	(49.28)	237.12	(862)	4	55/56	112	9,866	(4,475)	
800 ASF frame filter	142.08	(13.20)	95.90	(363)	1	14/15	30	8,154	(3,700)	
	227.33	(21.12)	53.22	(580)	2	23/24	48	8,763	(3,975)	
	with 2.36" (60 mm) cake frames	312.58	(29.04)	210.81	(798)	3	32/33	66	9,326	(4,230)
	416.78	(38.72)	281.34	(1,065)	4	43/44	88	10,031	(4,550)	

* usable cake volume

Filter Plates/Cake Frames

	Width		Cake volume*		Weight	
	in	(mm)	gal	(l)	lb	(kg)
Initial / end plate	1.10	(28)			38.6	(17.5)
Filter plate	1.10	(28)			33.1	(15.0)
Cake frame	0.79	(20)	1.74	(6.6)	12.1	(5.5)
Cake frame	1.18	(30)	2.91	(11.0)	17.6	(8.0)
Cake frame	1.57	(40)	4.07	(15.4)	23.1	(10.5)
Cake frame	2.36	(60)	6.39	(24.2)	35.3	(16.0)

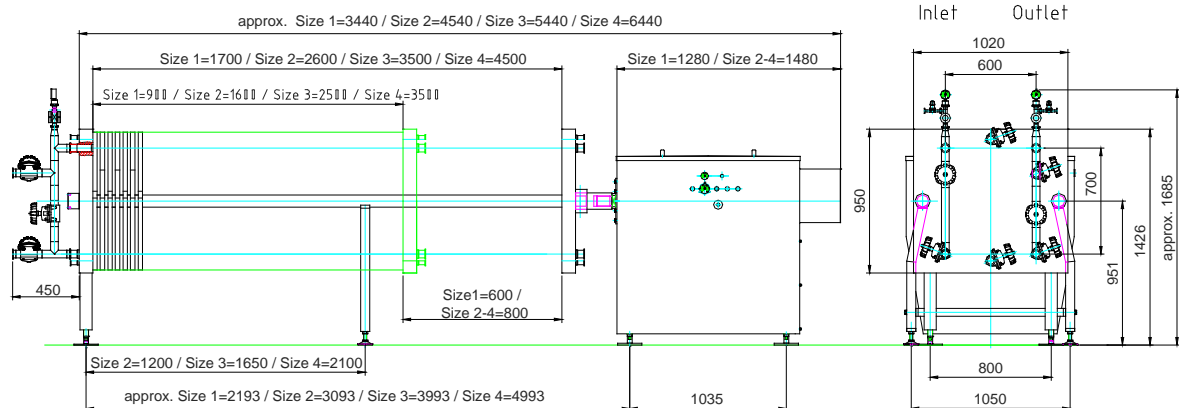
* usable cake volume

Connections

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

Other Connections

Threaded connections according to DIN 11851/11864



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