

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 from Eaton's Begerow Product Line 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.

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)

Materials

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

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
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)

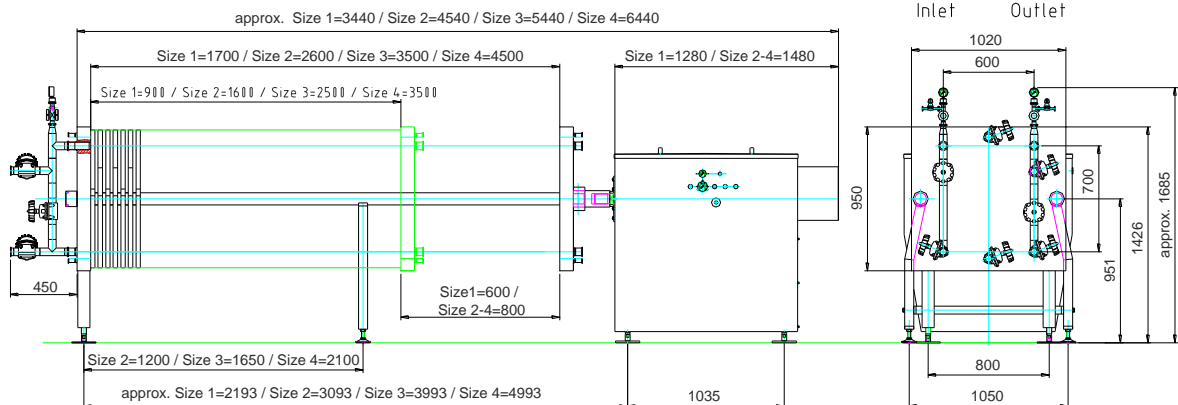
* usable cake volume

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



North America - HQ

44 Apple Street,
Tinton Falls, NJ 07724
Toll Free: 800 656-3344
(North America Only)
Voice: +1 732 212-4700

Europe/Africa/Middle East

Auf der Heide 2
53947 Nettersheim, Germany
Voice: +49 2486 809-0

Internormen Product Line

Friedensstraße 41
68804 Altlusheim, Germany
Voice: +49 6205 2094-0

Begerow Product Line

An den Nahewiesen 24
55450 Langenlonsheim, Germany
Voice: +49 6704 204-0

Brazil

Av. Julia Gaioli, 474 - Bonsucesso
07251-500 - Guarulhos
Brazil
Voice: +55 11 2465 8822

China

No. 7 Lane 280 Linhong Road,
Changning District,
Shanghai 200335, China
Voice: +86 21 5200 0422

Singapore

4 Loyang Lane #04-01/02
Singapore 508914
Voice: +65 6825 1668

For more information, please e-mail us at filtration@eaton.com or visit us online at eaton.com/filtration for a complete list of Eaton's filtration products.

Not all products in Eaton's Begerow Product Line are available in all regions. Please contact your local Eaton office to determine availability.

© 2012 Eaton Corporation. All Rights Reserved. All trademarks and registered trademarks are the property of their respective owners.

All information and recommendations appearing in this brochure concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Eaton as to the effects of such use or the results to be obtained. Eaton assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.



Powering Business Worldwide