

## Enclosed Plate and Frame Filter BECO INTEGRA® PLATE 600 OEP

### CIP Sheet Filtration System with Stainless Steel Chassis and Plastic Filter Elements without Gaskets

BECO INTEGRA PLATE 600 OEP enclosed plate and frame filter is the depth filtration system for critical filtration tasks in the pharmaceutical and biotech, and plasma fractionation.

A seal-free filter package and an additional external chamber feature a surface sealing without gaskets during CIP.

#### Special Features

- Compressing the elements effectively seals the filter package during CIP without depth filter sheets.
- The circular **external chamber** guarantees safe cleaning across the entire sheet area and allows temperature control of the filter package.
- **Complete drainage** of filter due to unique filter plate design.
- **High safety** during CIP thanks to a circular sealing surface with major sealing force and an automatic hydraulic pressure control.
- **Easy handling** and **good cleanability** thanks to ergonomic design.
- **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 plates in different widths are available.
- BECO INTEGRA PLATE 600 OEP 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

<b>Operating pressure/temperature:</b>	max. 87 psi (600 kPa/6 bar) at 104 °F (40 °C) max. 43 psi (300 kPa/3 bar) at 140 °F (60 °C)
<b>Differential pressure/temp.:</b>	max. 43 psi (300 kPa/3 bar) at 104 °F (40 °C)
<b>Filter area per sheet:</b>	2.9 ft <sup>2</sup> (0.27 m <sup>2</sup> )

#### Materials

<b>Product contacting parts:</b>	Polypropylene/ Stainless steel AISI 316L
<b>Other parts:</b>	Stainless steel AISI 304
<b>Gaskets for fittings:</b>	Silicone, alternatively EPDM, Viton

Type	Filter area		Cake volume*		Chassis size	Filter plates/ cake frames	Depth filter sheets 20.1 x 24.8 in (512 x 630.5 mm)	Weight	
	ft <sup>2</sup>	(m <sup>2</sup> )	gal	(l)				qty.	qty.
<b>600 SF/ASF</b> with 0.8" (20 mm) cake frames	75.6	(7.02)	14.0	(53)	1	12/13	26	2,976	(1,350)
	133.7	(12.42)	24.6	(93)	2	21/22	44	3,307	(1,500)
	191.8	(17.82)	35.4	(134)	3	32/33	66	3,693	(1,675)
	32.3	(27.00)	53.4	(202)	4	49/50	100	4,321	(1,960)
<b>600 ASF</b> with 1.2" (30 mm) cake frames	64.0	(5.94)	19.6	(74)	1	10/11	22	2,921	(1,325)
	110.4	(10.26)	33.1	(128)	2	18/19	38	3,285	(1,490)
	168.6	(15.66)	50.0	(189)	3	27/28	56	3,660	(1,660)
	244.1	(22.68)	74.8	(283)	4	41/42	84	4,277	(1,940)
<b>600 ASF</b> with 1.6" (40 mm) cake frames	52.3	(4.86)	22.5	(85)	1	8/ 9	18	2,943	(1,335)
	98.8	(9.18)	42.5	(161)	2	16/17	34	3,307	(1,500)
	139.5	(12.96)	60.0	(227)	3	23/24	48	3,638	(1,650)
	209.3	(19.44)	89.8	(340)	4	31/32	64	4,101	(1,860)
<b>600 ASF</b> with 2.4" (60 mm) cake frames	40.7	(3.78)	29.6	(112)	1	6/ 7	14	2,932	(1,330)
	75.6	(7.02)	55.0	(208)	2	12/13	26	3,263	(1,480)
	110.4	(10.26)	80.3	(304)	3	18/19	38	3,594	(1,630)
	162.8	(15.12)	118.4	(448)	4	27/28	56	4,145	(1,880)

\* usable cake volume

#### Filter Plates/Cake Frames

	Width	Cake volume*		Weight	
	in (mm)	gal	(l)	lb	(kg)
Initial/ end plate	1.02 (26)			19.9	(9.0)
Filter plate	1.02 (26)			17.6	(8.0)
Cake frame	0.79 (20)	1.07	(4.05)	6.6	(3.0)
Cake frame	1.18 (30)	1.78	(6.75)	9.9	(4.5)
Cake frame	1.57 (40)	2.50	(9.45)	13.2	(6.0)
Cake frame	2.36 (60)	3.92	(14.85)	19.9	(9.0)

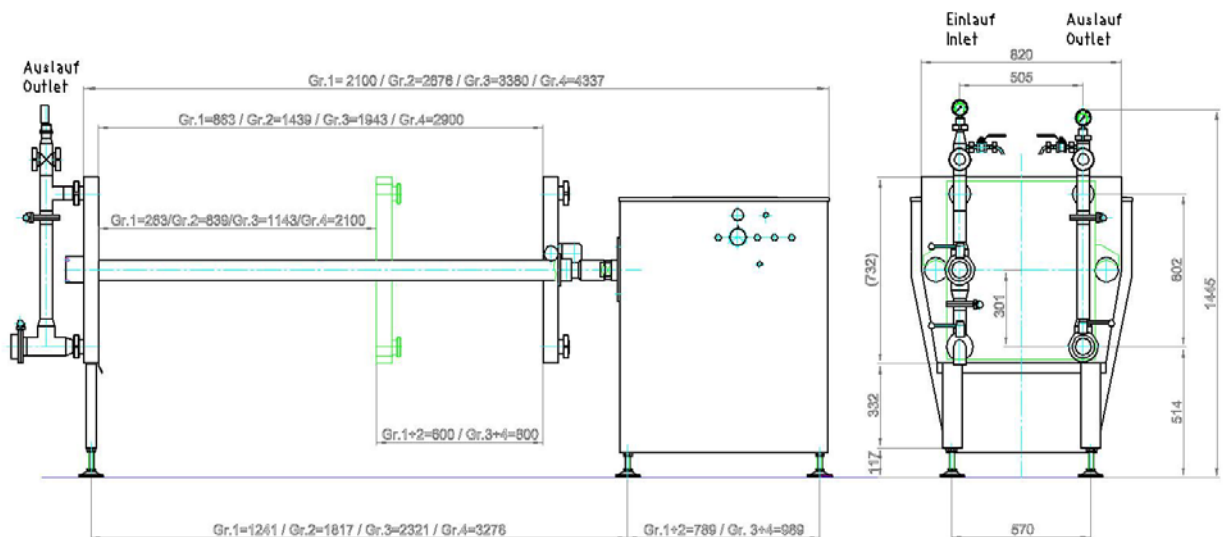
\* usable cake volume

#### Connections

<b>Filter inlet:</b>	TC 11/2" ISO2852/ASME BSP
<b>Filter outlet:</b>	TC 11/2" ISO2852/ASME BSP
<b>External chamber:</b>	TC 11/2" ISO2852/ASME BSP

#### Other Connections

Threaded connections according to DIN 1151/11864





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

**China**  
No. 3, Lane 280,  
Linhong Road  
Changning District, 200335  
Shanghai, P.R. China  
Tel: +86 21 5200-0099

**Europe/Africa/Middle East**  
Auf der Heide 2  
53947 Nettersheim, Germany  
Tel: +49 2486 809-0  
  
Friedensstraße 41  
68804 Altlußheim, Germany  
Tel: +49 6205 2094-0

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

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

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

**For more information, please  
email us at [filtration@eaton.com](mailto:filtration@eaton.com)  
or visit [www.eaton.com/filtration](http://www.eaton.com/filtration)**

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