

Enclosed Plate and Frame Filter BECO INTEGRA® PLATE 400 EC



Stainless Steel

BECO INTEGRA PLATE 400 EC enclosed plate and frame filter from Eaton's Begerow Product Line is the depth filtration system for critical filtration tasks in the pharmaceutical and biotech, chemical, cosmetics, and food industries.

BECO INTEGRA PLATE 400 EC 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 400 EC 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:	max. 87 psi (600 kPa/6 bar)
Differential pressure:	max. 58 psi (400 kPa/4 bar)
Operating temperature:	max. 284 °F (140 °C), depending on the filter plates used
Filter area per sheet:	1.3 ft ² (0.12 m ²)

Materials

Product contacting parts:	Stainless steel AISI 316L / AISI 316Ti
Other parts:	Stainless steel AISI 304
Gaskets/O-rings:	Silicone, EPDM, Viton

Type	Filter area		Cake volume*		Chassis size	Filter plates/ cake frames	Depth filter sheets 14.8 x 15.8 in (377 x 400 mm)	Weight	
	ft ²	(m ²)	gal	(l)				≈ lb	(kg)
400 SF	46.5	(4.32)	-	-	1	17/18	36	1,195	(542)
	80.1	(7.44)	-	-	2	30/31	62	1,424	(646)
	129.2	(12.00)	-	-	3	49/50	100	1,735	(787)
400 ASF with 0.32" (8 mm) cake frames	46.5	(4.32)	2.3	(8.64)	1	17/18	36	1,169	(530)
	80.1	(7.44)	3.9	(14.88)	2	30/31	62	1,376	(624)
	129.2	(12.00)	6.3	(24.00)	3	49/50	100	1,658	(752)
400 ASF With 0.71" (18 mm) cake frames	33.6	(3.12)	5.7	(21.45)	1	12/13	26	1,191	(540)
	54.3	(5.04)	9.2	(34.65)	2	20/21	42	1,389	(630)
	95.6	(8.88)	16.1	(61.05)	3	36/37	74	1,739	(789)
400 ASF with 0.98" (25 mm) cake frames	25.8	(2.40)	6.6	(25.00)	1	9/10	20	1,180	(535)
	46.5	(4.32)	11.9	(45.00)	2	17/18	36	1,415	(642)
	80.1	(7.44)	20.3	(77.00)	3	30/31	62	1,768	(802)
400 ASF with 1.57" (40 mm) cake frames	18.1	(1.68)	8.0	(30.10)	1	6/ 7	14	1,180	(535)
	33.6	(3.12)	14.8	(55.90)	2	12/13	26	1,426	(647)
	59.4	(5.52)	26.1	(98.90)	3	22/23	46	1,810	(821)

* usable cake volume

Filter Plates/Cake Frames

	Width		Cake volume*		Weight	
	in	(mm)	gal	(l)	lb	(kg)
Filter plate	0.32	(8)			7.1	(3.2)
Feeding plate	0.32	(8)			7.1	(3.2)
Cake frame	0.32	(8)	0.13	(0.48)	5.5	(2.5)
Cake frame	0.71	(18)	0.44	(1.65)	12.1	(5.5)
Cake frame	0.98	(25)	0.66	(2.50)	16.8	(7.6)
Cake frame	1.57	(40)	1.14	(4.30)	26.9	(12.2)

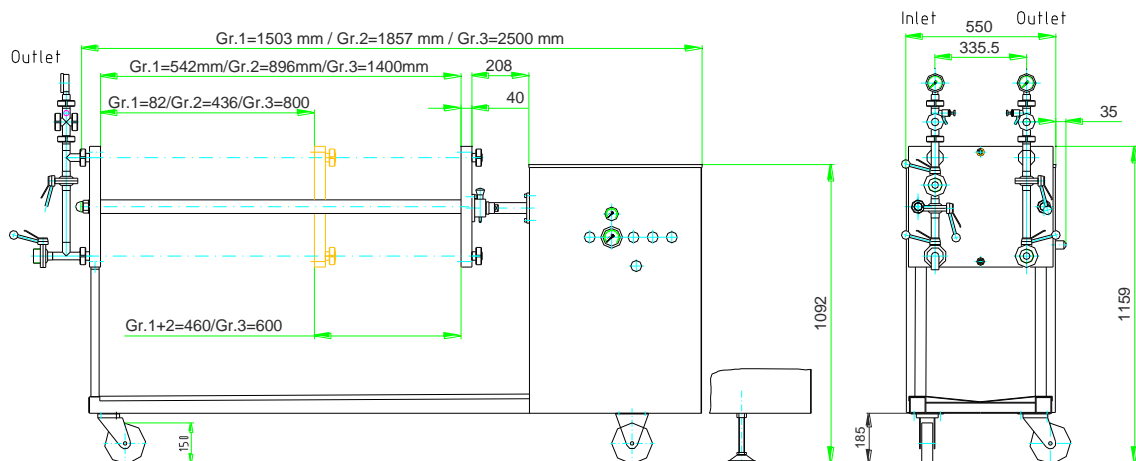
* usable cake volume

Connections

Filter inlet:	DN 25, DIN 11851/ISO 1"
Filter outlet:	DN 25, DIN 11851/ISO 1"
External chamber:	DN 10, DIN 11851/ISO ½"

Other Designs

Flange according to DIN 2633/ISO or tri-clamp on request



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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.

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