

Enclosed Plate and Frame Filter BECO INTEGRA® PLATE 400 DC

Stainless Steel

BECO INTEGRA PLATE 400 DC enclosed plate and frame filter is the depth filtration system for critical filtration tasks in the pharmaceutical and biotech, chemical, cosmetics, and food industries.

The product channels are sealed with depth filter sheets only. The sealing of the filter package is realized by means of O-rings at the outer edge of the 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 sealing of filter package by means of O-rings 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 DC filter is designed and manufactured according to the **cGMP guidelines** and the **FDA regulation**.

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



Materials

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

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)

Type	Filter area		Cake volume*		Chassis size	Filter plates/ cake frames qty	Depth filter sheets 14.7 x 15.9 in (373 x 404 mm) qty	Weight	
	ft ²	(m ²)	gal	(l)				≈ lb	(kg)
400 SF	43.9	(4.08)	-	-	1	16/17	34	1,312	(595)
	77.5	(7.20)	-	-	2	29/30	60	1,642	(745)
	129.2	(12.00)	-	-	3	49/50	100	2,128	(965)
400 ASF with 0.39" (10 mm) cake frames	43.9	(4.08)	2.6	(10)	1	16/17	34	1,288	(584)
	77.5	(7.20)	4.8	(18)	2	29/30	60	1,596	(724)
	129.2	(12.00)	7.9	(30)	3	49/50	100	2,050	(930)
400 ASF With 0.71" (18 mm) cake frames	33.6	(3.12)	5.3	(20)	1	12/13	26	1,301	(590)
	59.4	(5.52)	9.3	(35)	2	22/23	46	1,627	(738)
	95.6	(8.88)	14.8	(56)	3	36/37	74	2,061	(935)
400 ASF with 0.98" (25 mm) cake frames	25.8	(2.40)	6.3	(24)	1	9/10	20	1,272	(577)
	49.1	(4.56)	12.2	(46)	2	18/19	38	1,618	(734)
	80.1	(7.44)	20.0	(74)	3	30/31	62	2,066	(937)
400 ASF with 1.57" (40 mm) cake frames	18.1	(1.68)	7.7	(29)	1	6/ 7	14	1,268	(575)
	36.2	(3.36)	15.6	(59)	2	13/14	28	1,642	(745)
	59.4	(5.52)	25.6	(97)	3	22/23	46	2,112	(958)

* usable cake volume

Filter Plates/Cake Frames

	Width		Cake volume*		Weight	
	in	(mm)	gal	(l)	lb	(kg)
Filter plate	0.39	(10)	-	-	11.0	(5.0)
Feeding plate	0.39	(10)	-	-	11.0	(5.0)
Cake frame	0.39	(10)	0.16	(0.60)	9.5	(4.3)
Cake frame	0.71	(18)	0.40	(1.50)	17.0	(7.7)
Cake frame	0.98	(25)	0.63	(2.40)	22.5	(10.2)
Cake frame	1.57	(40)	1.11	(4.20)	36.2	(16.4)

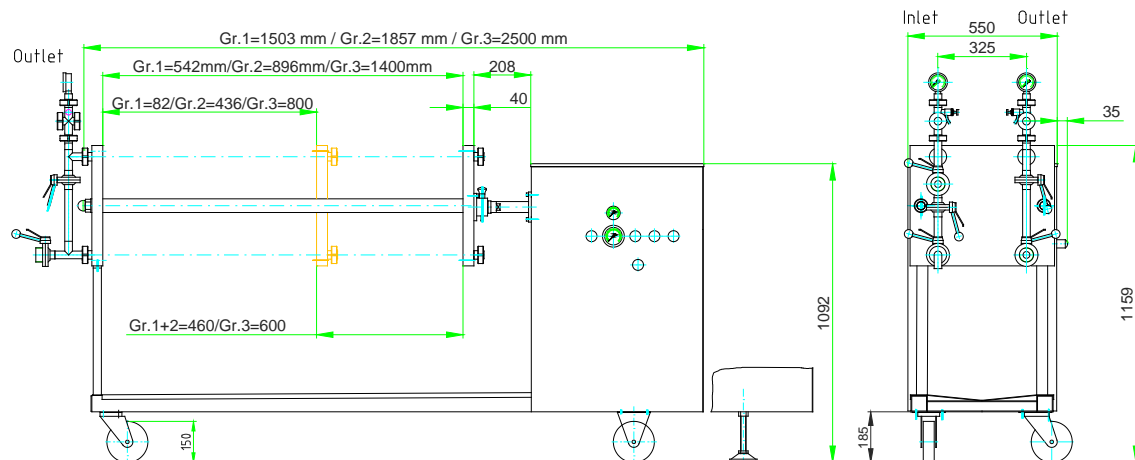
* usable cake volume

Connections

Filter inlet:	DN 25, DIN 11851/ISO 1"
Filter outlet:	DN 25, DIN 11851/ISO 1"

Other Designs

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



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