Enclosed Plate and Frame Filter BECO INTEGRA® PLATE A400 EC

Hermetically enclosed depth filtration system with stainless steel chassis and filter plates

BECO INTEGRA PLATE A400 EC enclosed plate and frame filter is the depth filtration system for critical filtration tasks in the pharmaceutical and biotech, chemical, cosmetics, and food industries.

BECO INTEGRA PLATE A400 EC is a multi-sheetfilter 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

- Validatable CIP cleaning without depth filter sheets.
- Complete drainage of filter due to unique filter plate design.
- High safety due to the absence of leakage in the environment thanks to a circular O-ring sealing/ sealing surface and an automatic hydraulic pressure control.
- Easy handling and good cleanability thanks to ergonomic design and open support profile of filter plates; cake discharge downwards into tray under the filter package (optional).
- High flexibility: The filter can be used as a sheet filter or as a pre-coat filter. For precoating/removing of high particle load, cake frames in different widths are available.
- BECO INTEGRA PLATE A400 EC filter is designed and manufactured according to the cGMP guidelines and the FDA regulations.
- Electrical (standard) or pneumatic (ATEX compliant) hydraulics can be selected.

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. 58.02 psid (400 kPa/4 bar)	



Operating temperature:	max. 284°F (140°C), depending on depth filter sheets used
Filter area per sheet:	1.3 ft² (0.12 m²) (filter sheet format: 388)

Materials

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

Documentation

Standard:	 Instruction manual/ spare parts list 		
	 Material certificate 3.1 acc. to EN 10204 		
	- FDA / EU 1935/2004		
	- CE 2006/42/EG		
Further options:	- USP Class VI certificates		
	- CE 2014/34/EG (ATEX)		
	 Validation documents (FS/FAT/SAT/IQ/OQ) 		
	- Δ -Ferrite measurements		



Туре	Filter	area	Cake volume*	Chassis size	Filter plates/ cake frames	Depth filter sheets 14.8 x 15.8 in (377 x 400 mm)	We	ight
	ft²	(m²)	gal (I)		qty	qty	≈ Ib	(kg)
A400 SF	46.5	(4.32)	-	1	17/18	36	1,246	(565)
	80.1	(7.44)	-	2	30/31	62	1,497	(679)
	129.2	2 (12.00)	-	3	49/50	100	1,852	(840)
A400 ASF	46.5	(4.32)	2.3 (8.64)	1	17/18	36	1,220	(553)
with 0.32"	80.1	(7.44)	3.9 (14.88)	2	30/31	62	1,449	(657)
(8 mm) cake frames	129.2	2 (12.00)	6.3 (24.00)	3	49/50	100	1,788	(811)
A400 ASF	33.6	(3.12)	5.7 (21.45)	1	12/13	26	1,242	(563)
With 0.71"	54.3	(5.04)	9.2 (34.65)	2	20/21	42	1,462	(663)
(18 mm) cake frames	95.6	(8.88)	16.1 (61.05)	3	36/37	74	1,857	(842)
A400 ASF	25.8	(2.40)	6.6 (25.00)	1	9/10	20	1,231	(558)
with 0.98"	46.5	(4.32)	11.9 (45.00)	2	17/18	36	1,489	(675)
(25 mm) cake frames	80.1	(7.44)	20.3 (77.00)	3	30/31	62	1,885	(855)
A400 ASF	18.1	(1.68)	8.0 (30.10)	1	6/ 7	14	1,231	(558)
with 1.57"	33.6	(3.12)	14.8 (55.90)	2	12/13	26	1,500	(680)
(40 mm) cake frames	59.4	(5.52)	26.1 (98.90)	3	22/23	46	1,927	(874)

* usable cake volume

Filter Plates/Cake Frames

	Width	Cake volume*	Weight	
	in (mm)	gal (I)	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

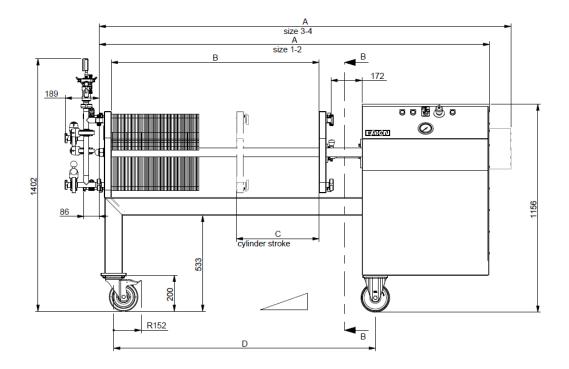
Connections

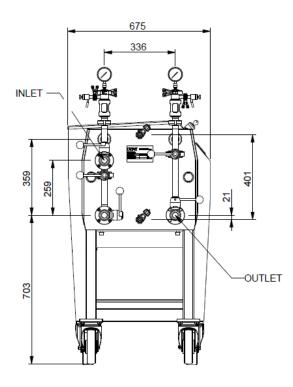
Filter inlet:	DN 25, DIN 11851 round thread/ DN 25 DIN 32676-2 Tri-Clamp
Filter outlet:	DN 25, DIN 11851 round thread/ DN 25 DIN 32676-2 Tri-Clamp
External chamber:	DN 10, DIN 11851 round thread/ DN 10 DIN 32676-2 Tri-Clamp

Other designs Flange connection according to EN1092-1 at in- and outlet or according to customer requirements

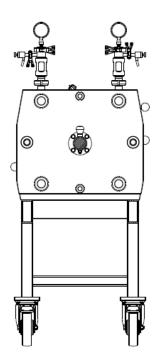
Dimensions

	А	В	С	D	
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	
Chassis size 1	61.38 (1559)	21.34 (542)	18.11 (460)	33.15 (842)	
Chassis size 2	75.31 (1913)	35.28 (896)	18.11 (460)	47,09 (1196)	
Chassis size 3	95.16 (2417)	55.12 (1400)	23.62 (600)	66.93 (1700)	





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