

Enclosed Plate and Frame Filter BECO INTEGRA® PLATE A400 EP (OEP)

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

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

BECO INTEGRA PLATE A400 EP (OEP)-is a multi-sheet filter with an external chamber. Depth filter sheets seal the product channels. O-rings at the external chamber (EP) or a surface sealing without gaskets (OEP).

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, 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 pre-coating/removing of high particle load, cake frames in different widths are available.
- BECO INTEGRA PLATE A400 EP (OEP)-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) at max. 77 °F (25 °C)
Differential pressure:	max. 58.02 psi (400 kPa /4 bar)



Operating temperature:	max. 185 °F (85 °C) at max. 14,5 psi (1 bar), depends on depth filter sheets used
Filter area per sheet:	1.18 ft² (0,11 m²) (filter sheet format: 340)

Materials

Product cont. parts	
Filter package:	Polypropylene
Chassis:	Stainless steel AISI 316L
Other parts:	Stainless steel AISI 304
Gaskets/O-rings:	Silicone, EPDM, Viton

Documentation

Standard:	<ul style="list-style-type: none"> - Instruction manual/ spare parts list - Material certificate 3.1 acc. to EN 10204 - FDA / EU 1935/2004 - CE 2006/42/EG
Further options:	<ul style="list-style-type: none"> - USP Class VI certificates - CE 2014/34/EG (ATEX) - Validation documents (FS/FAT/SAT/IQ/OQ)

Type	Filter area		Cake volume *		Chassis size	Filter plates /cake frames	Depth filter sheets 14.84 x 15.75 in 377 x 400 mm		Weight	
	ft²	(m²)	gal	(l)			qty.	qty.	≈ lb	(kg)
A400 SF	11.84	1,10	-		1	4/5	10		1070	(485)
	23.68	2,20	-		2	9/10	20		1213	(550)
	44.99	4,18	-		3	18/19	38		1440	(653)
	68.67	6,38	-		4	28/29	58		1661	(753)
A400 ASF with 15 mm cake frames	16.58	1,54	2.03	7,70	1	6/7	14		1072	(486)
	30.78	2,86	3.78	14,30	2	12/13	26		1204	(546)
	54.47	5,06	6.68	25,30	3	22/23	46		1405	(637)
	82.88	7,70	10.17	38,50	4	34/35	70		1605	(728)
A400 ASF with 20 mm cake frames	14.21	1,32	2.62	9,90	1	5/6	12		1061	(481)
	26.05	2,42	4.79	18,15	2	10/11	22		1184	(537)
	49.73	4,62	9.15	34,65	3	20/21	42		1387	(629)
	75.78	7,04	13.95	52,80	4	31/32	64		1579	(716)
A400 ASF with 25 mm cake frames	11.84	1,10	2.91	11,00	1	4/5	10		1054	(478)
	23.68	2,20	5.81	22,00	2	9/10	20		1182	(536)
	44.99	4,18	11.04	41,80	3	18/19	38		1381	(626)
	68.67	6,38	16.85	63,80	4	28/29	58		1570	(712)
A400 ASF with 30 mm cake frames	11.84	1,10	3.63	13,75	1	4/5	10		1059	(480)
	21.31	1,98	6.54	24,75	2	8/9	18		1178	(534)
	42.63	3,96	12.35	46,75	3	17/18	36		1385	(628)
	63.94	5,94	19.61	74,25	4	26/27	54		1570	(712)
A400 ASF with 40 mm cake frames	9.47	0,88	4.07	15,40	1	3/4	8		1054	(478)
	18.94	1,76	8.14	30,80	2	7/8	16		1180	(535)
	35.52	3,30	15.82	59,90	3	14/15	30		1374	(623)
	54.47	5,06	23.39	88,55	4	22/23	46		1564	(709)

* usable cake volume

Filter Plates/Cake frames

	Width		Cake volume*		Weight	
	in	(mm)	gal	(l)	lb	(kg)
Filter plate	0.98	25			7.71	3,5
Cake frame	0.98	25			7.71	3,5
Cake frame	0.59	15	0.30	1,10	3.35	1,6
Cake frame	0.79	20	0.44	1,65	3.75	1,7
Cake frame	0.98	25	0.58	2,20	4.63	2,1
Cake frame	1.18	30	0.73	2,75	5.51	2,5
Cake frame	1.57	40	1.02	3,85	7.50	3,4

* usable cake volume

Connections

Filter inlet:	1"Tri-Clamp ASME BPE"
Filter outlet:	1"Tri-Clamp ASME BPE"
External chamber:	½"Tri-Clamp ASME BPE

Other designs

Round thread connection according to DIN 11851, sterile flange, tri-clamp or according to customer requirements



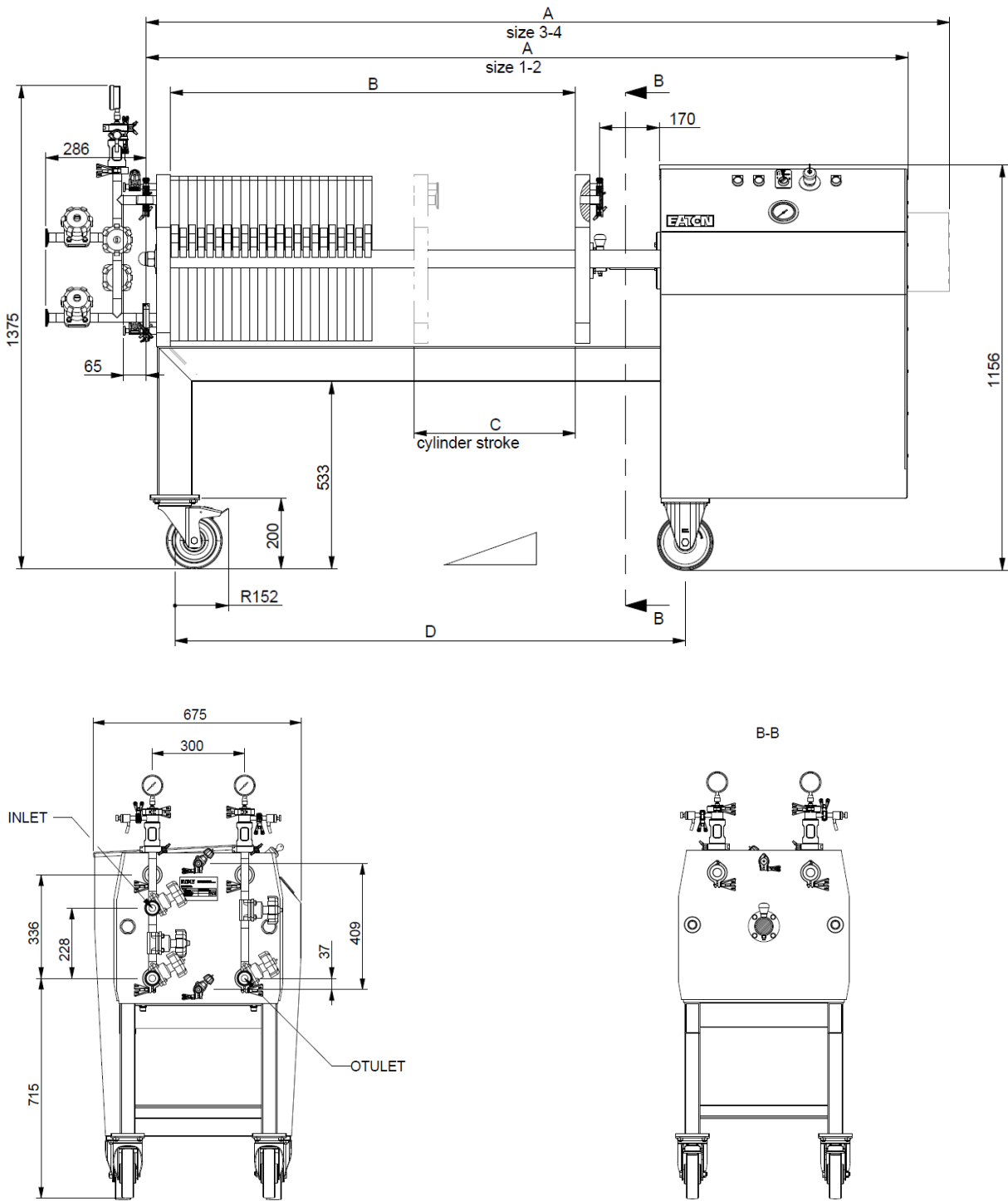
Filter plate (EP)



Cake frame

Dimensions

	A	B	C	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)
Chassis size 4	121.85 (3095)	77.13 (1959)	23.62 (600)	88.94 (2259)



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

Europe/Africa/Middle East
Auf der Heide 2
53947 Nettersheim, Germany
Tel: +49 2486 809-0

Friedensstraße 41
68804 Altlufheim, Germany
Tel: +49 6205 2094-0

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

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

Singapore
100G Pasir Panjang Road #07-08
Singapore 118523
Tel: +65 6825-1668

**For more information, please
email us at filtration@eaton.com
or visit www.eaton.com/filtration**

© 2021 Eaton. 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.

EN
A 2.6.11.11
01-2021