

Plate and Frame Filter BECO COMPACT™ PLATE A400

Plate and Frame Filtration System for Particle, Sterile, and Pre-Coating Filtration

BECO COMPACT PLATE A400 depth filtration system is the most flexible depth filtration system Eaton has to offer. It is easily adaptable to customers' specific requirements and applications through the use of different filter elements, cake frames, or depth filter sheets. A special diversion plate for double filtration adds to its flexibility.

The versatility of the system provides many filtration options for applications in the biotechnology, chemical, cosmetics, and food industries.

Special Features

- **Highly flexible** filter area from 3.01 to 192.89 ft² (0.28 – 17.92 m²) allows for customizable solutions for individual applications
- **Variable application options** through the use of filter plates, feeding plates and cake frames. The filter can be used as sheet filter, pre-coating filter or as a combination of both.
- **Easy handling** and **good cleanability** thanks to ergonomic design, smooth surfaces and open support grid of filter plates
- **Low drip loss** due to the compact design of the filter and a larger spindle. Also available with manual hydraulic
- **Wide range of accessories** such as fittings and riser pipes complement the system to a unit ready for connection.

Other designs and further components for expansion to complete systems are available depending on requirements.

Technical Data

Operating pressure:	max. 87 psi (600 kPa/6 bar)
Differential pressure:	max. 58 psi (400 kPa/4 bar)
Operating temperature:	max. 249,8 °F (121 °C)
Filter area per sheet:	1.51 ft ² (0.14 m ²)



Materials

Product contacting parts:	
Filter plates:	Stainless steel AISI 316L Noval
Filter frames:	Stainless steel AISI 304 / AISI 316L
Chassis:	Stainless steel AISI 304
Gaskets:	Silicone

Connections

Inlet:	
Chassis size 1 + 2:	DN 40, DIN 11851
Chassis size 3:	DN 40/50, DIN 11851
Outlet:	
Chassis size 1 + 2:	DN 40, DIN 11851
Chassis size 3:	DN 40/50, DIN 11851

Other Designs

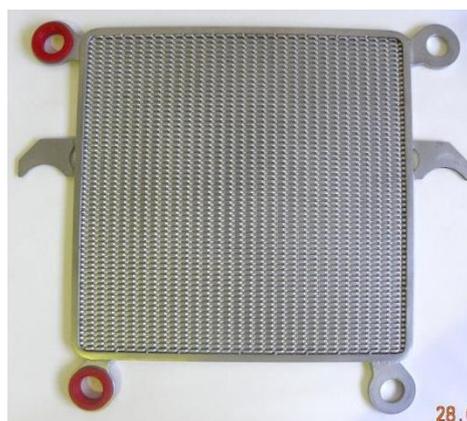
Flange connections DIN 2633, Tri-clamp or according to requirements

Design	Max. filter area		Solids space*		Chassis size	Filter/feeding elements or cake frames	Depth filter sheets 15.8 x 15.8 in (400 x 400 mm)	Weight	
	ft ²	(m ²)	gal	(l)				qty.	≈ lb
A400 SF	69.32	(6.44)	-		1	22/23	46	815.71 (370)	
with stainless steel elements	132.61	(12.32)	-		2	43/44	88	1,091.29 (495)	
0.35" (9 mm)	192.89	(17.92)	-		3	63/64	128	1,358.05 (616)	
A400 SF	48.22	(4.48)	-		1	16/15	32	661.39 (300)	
with Noval filter plates	93.43	(8.68)	-		2	31/30	62	798.07 (362)	
14 mm	138.64	(12.88)	-		3	46/45	92	939.17 (426)	
A400 ASF	42.19	(3.92)	10.30	(39)	1	13/14	28	784.85 (356)	
with cake frames	78.36	(7.28)	19.28	(73)	2	25/26	52	974.44 (442)	
0.98" (25 mm)	114.53	(10.64)	28.00	(106)	3	37/38	76	1,186.10 (538)	
A400 ASF	30.14	(2.80)	12.94	(49)	1	9/10	20	756.19 (343)	
with cake frames	57.26	(5.32)	24.57	(93)	2	18/19	38	967.83 (439)	
1.57" (40 mm)	84.39	(7.84)	36.19	(137)	3	27/28	56	1,181.68 (536)	

* usable solids volume

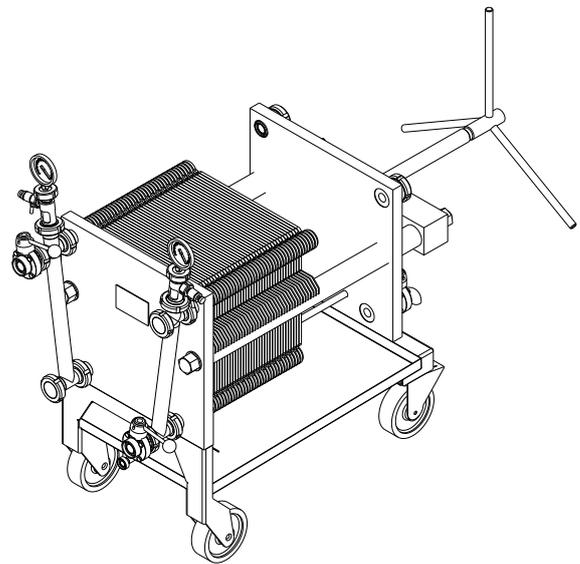
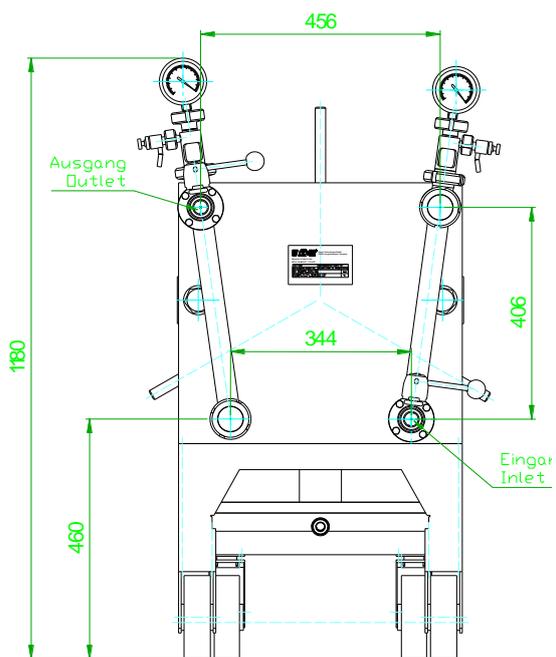
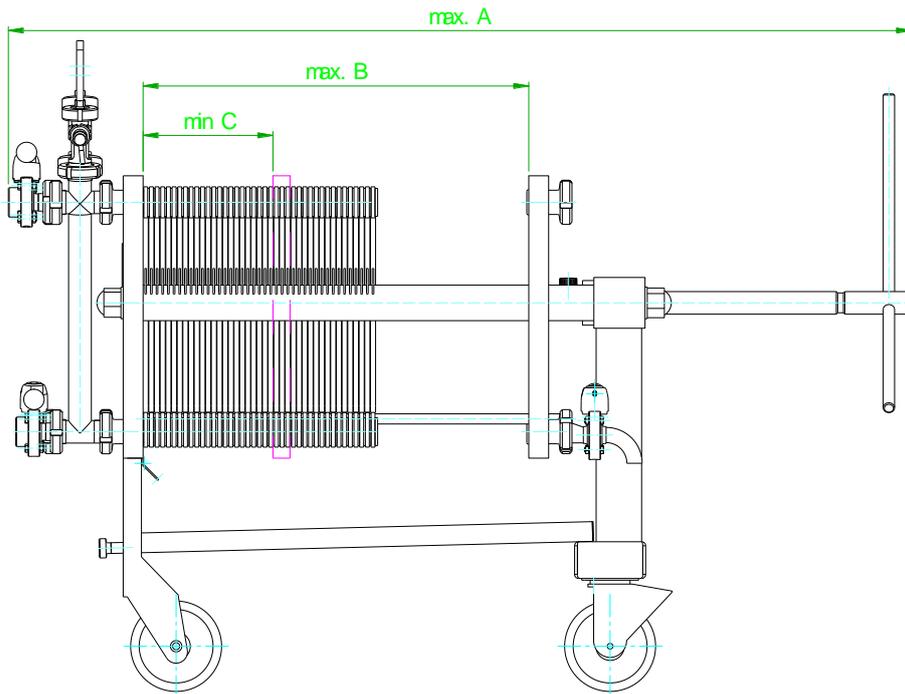
Filter elements

	Width	Cake volume	Weight
Filter plate	0.35 in (9 mm)	-	5.5 lb (2.5 kg)
Feeding plate	0.35 in (9 mm)	-	5.5 lb (2.5 kg)
Filter plate	0.55 in (14 mm)	-	3.1 lb (1.4 kg)
Cake frame	0.35 in (9 mm)	0.11 gal (0.42 l)	3.3 lb (1.5 kg)
Cake frame	0.98 in (25 mm)	0.74 gal (2.80 l)	8.4 lb (3.8 kg)
Cake frame	1.57 in (40 mm)	1.29 gal (4.90 l)	13.2 lb (6.0 kg)



Stainless steel filter plate with silicone gaskets

Specification		Chassis size 1	Chassis size 2	Chassis size 3
Length of chassis (extended spindle)	max. A	61.42 in (1,560 mm)	94.10 in (2,390 mm)	115.75 in (2,940 mm)
Max. package length Incl. workspace	max. B	26.77 in (680 mm)	49.21 in (1,250 mm)	70.87 in (1,800 mm)
Min. package length grouted	min. C	13.90 in (353 mm)	26.10 in (663 mm)	47.76 in (1,213 mm)
Connections DIN 11851 DN X		40	40	40 / 50



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