

Enclosed Plate and Frame Filter BECO INTEGRA® PLATE A400 DP

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

BECO INTEGRA PLATE A400 DP 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 DP is a multi-sheet-filter in enclosed design. 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 A400 DP 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/temp.: | max. 87 psi (600 kPa/6 bar) at 77° F (25 °C) max. 43 psi (300 kPa/3 bar) at 104 °F (40 °C) |
| Differential pressure/temp.: | max. 58.02 psi (400 kPa/4 bar) at 104°F (40°C) |
| Operating temperature: | max. 185 °F (85 °C) at max. 14,5 psi (1 bar), depends on the depth filter sheets used |
| Filter area per sheet: | 1.18 ft² (0,11 m²) (filer sheet format: 340) |

Materials

| | |
|---------------------------------|--|
| Product contacting parts | |
| filter package: | Polypropylene Polypropylene, black, conductive PET |
| Chassis: | Stainless steel AISI 316L |
| Other parts: | Stainless steel AISI 304 |
| Gaskets/O-rings: | Silicone, EPDM, Viton, FEP coated (FDA listed) |

| Type | Filter area | | Cake volume * | | Chassis size | Filter plates/ cake frames | Depth filter sheets 373 x 404 mm | Weight | |
|--|-----------------|-------------------|---------------|---------|--------------|-------------------------------|-------------------------------------|--------|-------|
| | ft ² | (m ²) | gal | (l) | | | | ≈ lb | kg |
| A400 SF | 11.84 | (1,10) | - | - | 1 | 4/5 | 10 | 1098 | (498) |
| | 23.68 | (2,20) | - | - | 2 | 9/10 | 20 | 1275 | (578) |
| | 44.99 | (4,18) | - | - | 3 | 18/19 | 38 | 1561 | (708) |
| | 68.67 | (6,38) | - | - | 4 | 28/29 | 58 | 1848 | (838) |
| A400 ASF with 20 mm cake frames | 14.21 | (1,32) | 2.62 | (9,9) | 1 | 5/6 | 12 | 1112 | (504) |
| | 26.05 | (2,42) | 4.79 | (18,15) | 2 | 10/11 | 22 | 1281 | (581) |
| | 47.36 | (4,40) | 8.72 | (33,0) | 3 | 19/20 | 40 | 1553 | (704) |
| | 73.41 | (6,82) | 13.51 | (51,15) | 4 | 30/31 | 62 | 1846 | (837) |
| A400 ASF with 30 mm cake frames | 11.84 | (1,10) | 3.62 | (13,75) | 1 | 4/5 | 10 | 1129 | (512) |
| | 21.31 | (1,98) | 6.54 | (24,75) | 2 | 8/9 | 18 | 1308 | (593) |
| | 40.26 | (3,74) | 12.35 | (46,75) | 3 | 16/17 | 34 | 1619 | (734) |
| | 61.67 | (5,72) | 18.89 | (71,5) | 4 | 25/26 | 52 | 1938 | (879) |
| A400 ASF with 40 mm cake frames | 9.47 | (0,88) | 4.06 | (15,4) | 1 | 3/4 | 8 | 1123 | (509) |
| | 18.94 | (1,76) | 8.14 | (30,8) | 2 | 7/8 | 16 | 1323 | (600) |
| | 35.52 | (3,30) | 15.26 | (57,75) | 3 | 14/15 | 30 | 1645 | (746) |
| | 61.57 | (4,84) | 22.38 | (84,7) | 4 | 21/22 | 44 | 1947 | (883) |
| A400 ASF with 50 mm cake frames | 9.47 | (0,88) | 5.23 | (19,8) | 1 | 3/4 | 8 | 1147 | (520) |
| | 16.58 | (1,54) | 9.15 | (34,65) | 2 | 6/7 | 14 | 1330 | (603) |
| | 30.78 | (2,86) | 17.0 | (64,35) | 3 | 12/13 | 26 | 1654 | (750) |
| | 47.36 | (4,40) | 26.15 | (99,0) | 4 | 19/20 | 40 | 1993 | (904) |
| A400 ASF with 60 mm cake frames | 7.10 | (0,66) | 4.79 | (18,15) | 1 | 2/3 | 6 | 1131 | (513) |
| | 17.44 | (1,62) | 10.12 | (38,3) | 2 | 5/6 | 12 | 1339 | (607) |
| | 28.42 | (2,64) | 19.18 | (72,6) | 3 | 11/12 | 24 | 1709 | (775) |
| | 42.63 | (3,96) | 28.77 | (108,9) | 4 | 17/18 | 36 | 2060 | (934) |

* usable cake volumes

Filter Plates/Cake frames

| | Width | | Cake volume* | | Weight | |
|--------------|-------|------|--------------|--------|--------|--------|
| | In | (mm) | gal | (l) | lb | (kg) |
| Filter plate | 0.98 | (25) | | | 11.02 | (5,0) |
| Cake frame | 0.98 | (25) | | | 11.02 | (5,0) |
| Cake frame | 0.59 | (20) | 0.44 | (1,65) | 11.02 | (5,0) |
| Cake frame | 1.18 | (30) | 0.73 | (2,75) | 16.98 | (7,7) |
| Cake frame | 1.57 | (40) | 1.02 | (3,85) | 22.49 | (10,2) |
| Cake frame | 1.97 | (50) | 1.31 | (4,95) | 36.16 | (16,4) |
| Cake frame | 2.36 | (60) | 1.60 | (6,05) | 36.16 | (16,4) |

* usable cake volume

Connections

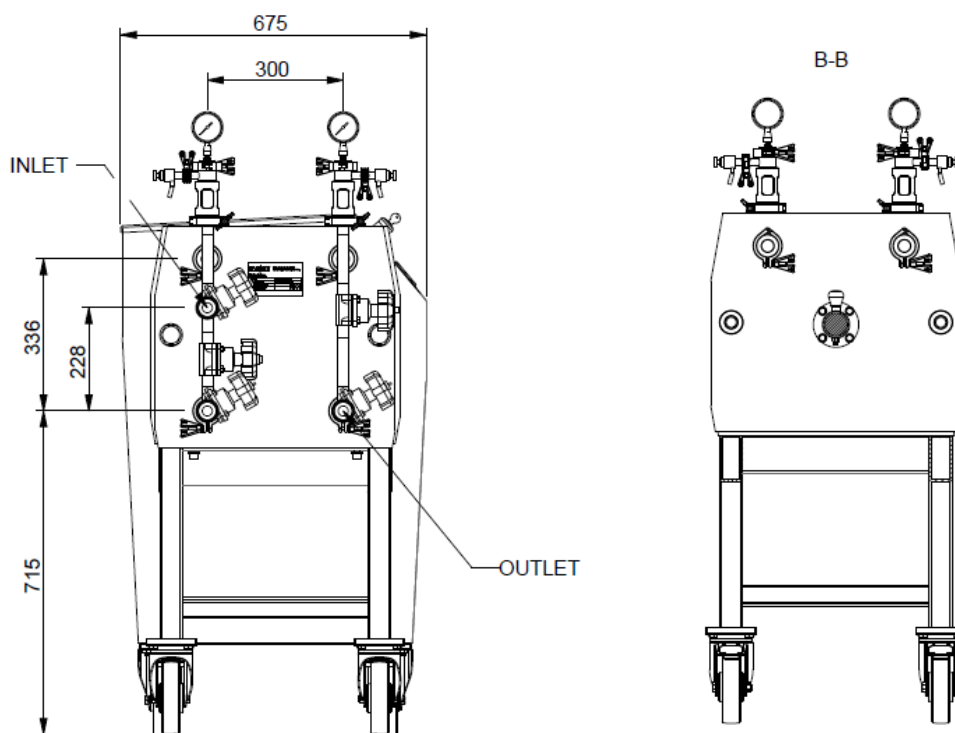
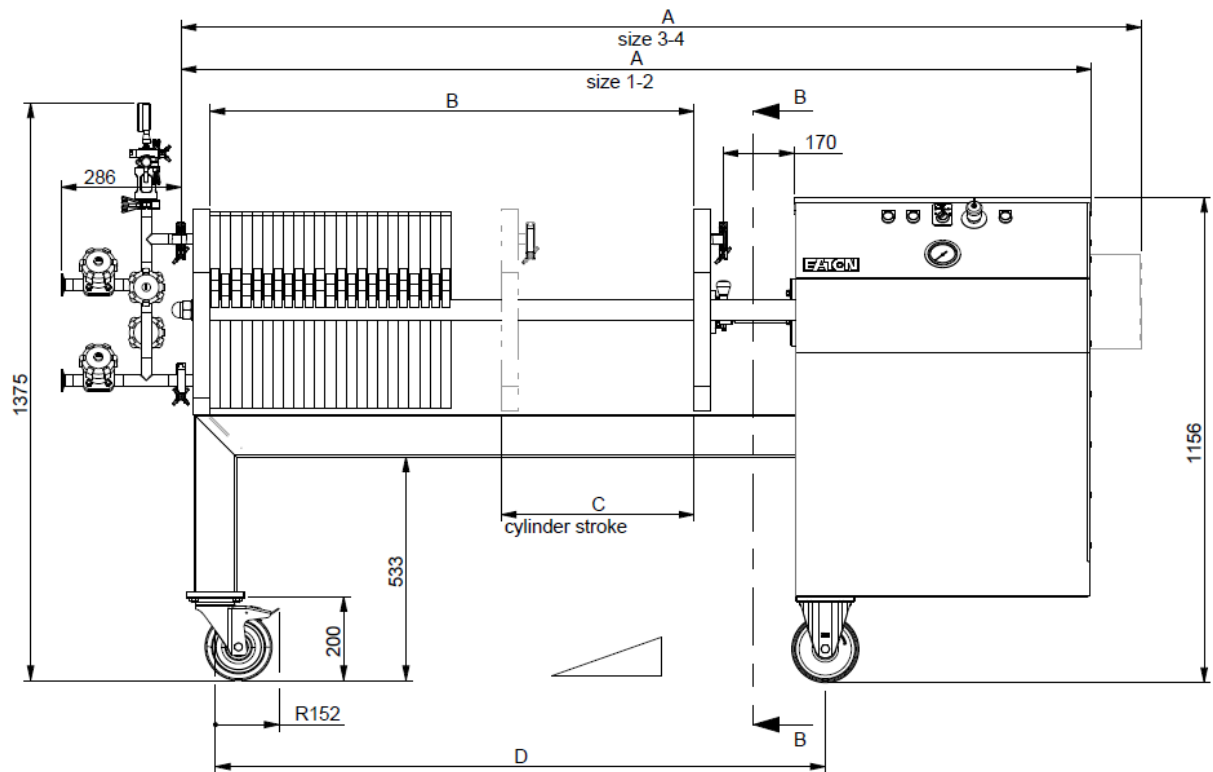
| | |
|-----------------------|------------------------|
| Filter inlet: | 1" Tri-Clamp ASME BPE" |
| Filter outlet: | 1" Tri-Clamp ASME BPE" |

Other designs

Flange connection EN 1092-1/ISO or round thread connection according to DIN 11851 or according to customer requirements

Dimensions

| | A inch (mm) | B inch (mm) | C inch (mm) | D 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) |



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