

Enclosed Filtration System BECO INTEGRA® LAB 220 S

Large Cake Frame Chamber

BECO INTEGRA LAB 220 S was developed especially for processing small quantities in laboratories and in technical colleges as well as for the production of small batches and for upscaling in the beverage and food industries, for bio-engineering, pharmaceuticals as well as the chemical and cosmetic industries.

The enclosed filtration system's special design of two round, vertical filter elements on the left and right sides of the filter frame, makes it possible to transfer the test results directly from the laboratory or research center to process equipment such as the BECO INTEGRA PLATE enclosed plate and frame filter.

Function Principle

The BECO INTEGRA LAB 220 S uses depth filtration sheets to remove undesirable suspended solids, sediments or microorganisms from the liquid/suspension. For this purpose, the liquid is fed into a cake frame. The pressure difference between the in- and outflow causes the liquid to flow through the depth filter sheet. As a result, depending upon application, it emerges either clarified or sterilized. The filtrate discharges through the outflow, collects in the drainage grooves and flows to the filtrate outlet.

An O-ring located behind the sheet frame reliably prevents any emissions from the filtered product from reaching the surrounding environment, even in difficult filtration applications.

By using two different depth filter sheets, for example coarse and fine filtration, the system combines multiple steps such as pre-filtration and sterilizing filtration into one filtration step.

Technical Data

| | |
|--|-----------------------------|
| Max. permissible operating pressure: | 58 psi (400 kPa/4 bar) |
| Max. permissible differential pressure: | 43.5 psi (300 kPa/3 bar) |
| Max. permissible operating temperature: | 284 °F (140 °C) |



Filter

| | |
|--------------------------------------|---|
| Depth filter sheet size: | Ø 8.74" (222 mm) |
| Filter surface: | 0.33 ft² (310 cm²)/ depth filter sheet |
| Weight: | 30,86 lbs (14 kg) |
| Number of depth filter sheets | |
| Single stage filtration: | 1 or 2 sheets |
| Two stage filtrations: | 1 x 2 or 2 x 2 sheets |
| Cake frame width: | 1.58" (40 mm) |
| Max. cake volume: | 0.33 gal (1.25 l) |

| Description | Article no. |
|----------------------------------|-------------|
| BECO INTEGRA LAB 220 S | 59262106 |
| Lever for round filter | P7800105 |
| Star knob 50 x M10 (knurled nut) | P7800101 |

| Description | EPDM | Silicone | Viton | FEP coated |
|--|----------|----------|----------|------------|
| O-ring round filter BECO INTEGRA LAB 220 | 59262117 | P7800302 | 59262118 | P7800304 |

Materials

| | |
|----------------------------------|---|
| Product contacting parts: | Stainless steel AISI 316L/AISI 316Ti |
| Others: | Stainless steel AISI 304 |
| Gaskets, O-rings: | EPDM, Silicone, Viton, FEP coated |

Connections

| | |
|----------------------|---|
| Inlet/outlet: | Hose nozzle for hose inside Ø 0.51" (13 mm) |
| Ventilation: | Air relief cock and manometer 0 – 87 psi (0 – 600 kPa/0 – 6 bar) |

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08-2018

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