

7312019 TECHNICAL MACHINE SHEET

Product: Beer filtration line capacity 400 HL/h, Alfa-Laval and Schenk
Product number: 7312019
Manufacturer: Steinecker
Manufacturing year: 2001
Capacity: Main filtration line of the brewery with capacity 4500 hl/day
Control PLCs: Siemens Simatic S7
Video: <https://youtu.be/58nF3Oosv4Q>
Pictures:



Main filtration line of the brewery with capacity 4500 hl/day. Made by Steinecker in 2001 with centrifugal separator, Kieselguhr filter with horizontal sieves and carton filter. Complete line is equipped with automatic CIP system. Control PLCs are Siemens Simatic S7 series.

List of main equipment:

- Separator Alfa Laval 600 hl/h
 - Type BRPX 417 SBV
 - Manufacturing year 2001
 - Electric motor kW
 - Bowl speed 4010 rpm
- Buffer tank unfiltered beer Steinecker 15 m³ insulated
 - Material stainless steel 1.4301 (AISI 304)
 - Tank inside diameter 2200 mm
 - Total height 4885 mm
 - Working pressure 3.0 bar
 - Transfer pump EURO Hygia II, 7.5 kW / 40 m³/h
- Beer chiller, plate heat exchanger for cooling beer with glycol
 - Capacity 400 hl/h beer
 - Inlet beer temperature + 3.0 C
 - Outlet beer temperature – 1.0 C

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- Inlet glycol temperature – 4.0 C
- Plate material stainless steel 1.4401, frame 1.4301
- 4 x Dosing tanks with agitators for Kieselguhr, Silica, Lusitite, Antioxidant
 - KG dosing tank, volume 8 hl, with mixer
 - Silica dosing tank, volume
 - Lucilite dosing tank, volume 15 hl
 - Antioxidant dosing tank, volume 3 hl
- Kieselguhr filter with horizontal sieves, Steinecker, capacity 400 hl/h,
 - Type FS 130 K 70/80.5
 - Material stainless steel 1.4306 (AISI 304L)
 - Total filtration area 80.5 m²
 - Number of filter elements 66 pieces of which 4 for residual filtration
 - Trub volume 20.1 hl total volume 48.9 hl
 - Hydraulic drive 37 kW, inverter controlled
 - Working pressure 9.0 bar
 - Diameter with flange of cover 1556 mm
 - Total height 3900 mm
- Kieselguhr discharge vessel 19 hl,
 - Material stainless steel 1.4301
 - Tank diameter 1400 mm
 - Total height 1910 mm
- Beer carbonator with automatic CO₂ injection
 - Capacity max 400 hl/h
 - CO₂ content in min 0.3 % by weight
 - CO₂ content out max 0.6 % by weight
 - Beer temperature max +1C
 - Beer outlet pressure 4.5 bar
- Enzymes and concentrates dosing pumps
- Buffer tank for filtered beer, 12.6 m³(*common tank for 2 lines*)
 - Material stainless steel 1.4301
 - Working pressure 3.0 bar
 - Tank diameter 1000 mm, total height 2400 mm
- Bag filter 2 x Duplex Bag Filter
 - Capacity 400 hl/h
 - Two filters, both has 2 filter bags type PO 5 P2E (Polypropylene, 5 micron)
- Buffer tank for “heads and tails” that collect beer at the beginning and at the end of filtration because this beer can be mixed with water. (*common tank for 2 lines*)
- Carton filter PALL Seitz Schenk 1200 / 200
 - Made in year 1997
 - Filtration plate size 1200 x 1200 mm
 - Number of plates 200
 - Filtration area 288 m²