

Polynox MFS

Cross-flow beer filtration with polymeric membranes



**Kieselguhr free beer
filtration with organic
membranes**

- Bright, yeast free filtered beer
- High flexibility for a wide range of beer types
- Easy to operate
- Longer average lifetime of membranes due to cartridge concept

The reliable solution for membrane filtration of beer

The technologies set up by Bucher Denwel ensure performance, reliability, short return on investment and sound operating profits.

Bucher Denwel presents Polynox MFS, a compact skid-based and plug & play unit. This reliable solution for cross-flow beer filtration helps smaller to medium sized breweries with innovative filter cartridges with polymeric membranes.

- Polynox MFS filtration process for high-quality filtered beer and steady flow rates.
- High filtrate yield without solid waste.
- Flexible automation system with maximum operational safety thanks to permanent self-controlling devices.

Plant sizes from 15-75 hl/h (7-33 gpm; 13-64 bbl/h)

Module design

Stainless steel module holds up to 7 pcs of 2 m² filter cartridges BD20. Each filter cartridge is easy to exchange and thus longer average lifetime of membranes is provided.

Membranes

The filters cartridges are filled with hydrophilic polyether sulfone (PES) membrane with asymmetrical structure specially adapted to beer. All materials are FDA approved.

The asymmetrical structure greatly contributes to maintaining a steady filtration flow rate. The membranes can be exposed to alkaline, acidic and oxidising cleaning agents for reliable recovery of filtration performance.



Technical data

Models:			Average filtration capacity		
Polynox MFS2	DN 25	1"	15 hl/h	7 gpm	13 bbls/h
Polynox MFS3	DN 25	1"	22 hl/h	10 gpm	19 bbls/h
Polynox MFS4	DN 25	1"	30 hl/h	13 gpm	26 bbls/h
Polynox MFS5	DN 25	1"	37 hl/h	16 gpm	31 bbls/h
Polynox MFS6	DN 40	1½"	45 hl/h	20 gpm	38 bbls/h
Polynox MFS8	DN 40	1½"	60 hl/h	26 gpm	51 bbls/h
Polynox MFS10	DN 40	1½"	75 hl/h	33 gpm	64 bbls/h

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Technical changes reserved.

Products

We develop and produce a wide range of specialized equipment and provide engineering solutions dedicated to help brewers to optimize their processes.

Combining experience and innovation we supply brewing equipment such as Filtration systems, Yeast plants, Water Deaeration, Blending, Carbonation, Dosing and Hard Seltzer systems, Dealcoholisation, CIP, Cold sterilisation, Flash Pasteurization and Beer tanks.

Services

We have a global presence. Our sales and service network is always available for you to provide consultancy, technical support and after sales service.