



# R-30 X- FLOW FILTER INSERT FOR BEER

## CAPFIL DIAPHRAGM INSERTED TECHNICAL DATA SHEET

CAPF-AQFTRI-R30\_1440  
PRODUCT CODE: 4842RB452A

### GENERAL INFORMATION

X-Flow's R-30 is a microfilter liner used to clarify beer. The liner operates in cross-flow mode and requires regular backwashing and SIP cleaning in accordance with the schedule established by the system supplier.

The module is available in the form of an insert, its stainless steel housing is part of the BMF membrane filtration system for beer. When installing a module, you must follow the instructions compiled by the supplier.

### MODULE SPECIFICATIONS

| Type module | Diaphragm diameter [1] [mm] | Membrane area [1] [m²] |
|-------------|-----------------------------|------------------------|
| R-30        | 1,5                         | 27                     |

[1] Nominal

Membrane liner dry weight: approx. 8 kg  
Total length of membrane liner: about 1.5 m  
Diameter of membrane liner: about 209 mm

### MATERIALS

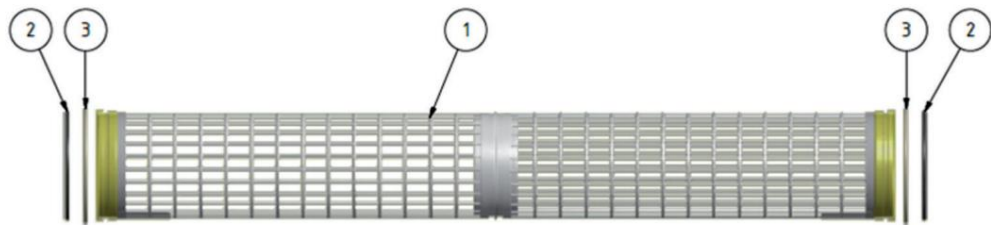
- Article number 4842RB452A: R-30 module: intermediate insert and intermediate insert connection polypropylene/polyethylene; pouring structural polymer; filling ring: polyethersulfone; polyethersulfone/polyvinylpyrrolidone membrane, quantity 1
- Article number 32032: O-ring 190x8 mm, concentrate side: ethylene propylene rubber, black, quantity 2
- Article number 32048: ring seal 200x8 mm, permeate side: EPDM, white, quantity 2

### CHARACTERISTICS OF MEMBRANES

- X-Flow BV product code: 1.5 MF05XL M2
- Hydrophilic membrane consisting of a mixture of polyvinylpyrrolidone and polyethersulfone
- Asymmetrical/microporous structure
- High throughput and properties, preventing membrane clogging

### STORAGE

Dry membrane modules should be stored in a dry, well-ventilated area, away from sources of heat and ignition and direct sunlight. Modules are stored at temperatures between 0 and 40°C and relative humidity ̳80% in their original packaging.



# R-30 X-FLOW

## FILTER INSERT FOR BEER

### CAPFIL DIAPHRAGM INSERTED TECHNICAL DATA SHEET

#### PERFORMANCE CHARACTERISTICS

| Max. system pressure           | Max. transmembrane pressure |     | Max. backwash pressure |     | Max. operating temperature |
|--------------------------------|-----------------------------|-----|------------------------|-----|----------------------------|
| [kPa]                          | [kPa]                       |     | [kPa]                  |     | [°C]                       |
| Specified by the system vendor | 0 – 30 °C                   | 300 | 0 – 30 °C              | 200 | 80 [1]                     |
|                                | 30 – 60 °C                  | 200 | 30 – 60 °C             | 150 |                            |
|                                | 60 – 80 °C                  | 100 | 60 – 80 °C             | 100 |                            |

[1] This temperature may affect the service life guaranteed by the supplier

- The quality of cleaning solutions should meet permeate quality or higher
- Washing system pumps must be made from non-corrosive materials
- To avoid mechanical damage, do not expose the membrane module or element to sudden temperature changes. Do not exceed the temperature threshold specified by the installation manufacturer. During heating or cooling, do not exceed the maximum speed of 3°C/min. when the system temperature is above 35°C. Failure to do so may result in irreparable damage.
- To avoid mechanical damage or leaks, never allow water hammer to occur in the system.

#### DETERGENT RESISTANCE

Operating membrane modules at any combination of the maximum pH, chemical concentrations, pressure or temperature specified in the documents provided by the installation supplier, during cleaning or during production, may affect the membranes and/or module life.

#### LAUNCH

- Before starting beer filtration, new membranes must be washed through a full CIP washing cycle
- In any case, the use of grease or oil based lubricants should be avoided.

#### CERTIFICATES

- USA: Complies with 21 Code of Federal Regulations by the Food and Drug Administration
- Europe: equipment has been tested and found to comply with the requirements of EEC EC 1935/2004 and EU 10/2011 (pending)



#### X-FLOW BV

P.Ya. 739, 7500 AS ENSCHEDE, NETHERLANDS WWW.X-FLOW.COM

Note: The information and data contained in this document are based on our experience and are believed to be correct. They have been provided in good faith and are intended to guide customers in the selection and use of our products. Given that the conditions under which our products may be used are beyond our control, this information does not imply any warranty regarding the performance of the end equipment and we cannot be held liable for the use of our products. The quality of our products is guaranteed by our terms of sale. Existing industrial property rights must be respected.

