

# FILTRODISC™ PLUS<sup>2</sup>

## BACKFLUSHABLE LENTICULAR MODULE

Improved design for higher filter longevity



Depth filter modules make it possible to handle large filter areas in a simple manner and have been used in various food & beverage applications for many years. Filtration with such modules is carried out in an enclosed system (DISCSTAR™). The filter medium used in lenticular modules is a depth filter sheet. A combination of surface,

depth and adsorptive filtration mechanisms lead to a high filtration performance. Depth filter products represent a cost-effective filtration solution.

With the FILTRODISC™ PLUS<sup>2</sup>, a new generation of depth filter modules is available. Due to their improved design, the FILTRODISC™ PLUS<sup>2</sup> modules can be backflushed in order to remove surface deposits more effectively. The filter media used for these modules are high-capacity depth filter sheets (H grades) with even higher dirt holding capacity than standard grades.

### Benefits

FILTRODISC™ PLUS<sup>2</sup> modules show the following benefits which result in important cost savings:

- Possibility of backflushing of the modules can lead to longer filter life.
- H grades filter media grant increased filtration capacity.
- FILTRODISC™ PLUS<sup>2</sup> modules can be installed in regular module housings with DOE adapter type.
- For backflushing the FILTRODISC™ PLUS<sup>2</sup> modules, no additional stabilization parts are needed.

### Available grades

The FILTRODISC™ PLUS<sup>2</sup> modules are available with the following grades:

Grade	Filter sheet type	Filtration type	Beer-rec. flow rate [hl/m <sup>2</sup> h]	Wine-rec. flow rate [l/m <sup>2</sup> h]
AF 23	AF 21H	Coarse filtration	2.5	700
AF 33	AF 31H	Clarifying filtration	2.5	700
AF 43	AF 41H	Clarifying filtration	2	700
AF 73	AF 71H	Fine filtration	2	700
AF 103	AF 101H	Germ reducing filtration	1.5	500

### Superior performance of high-capacity filter media

The filter media installed in the FILTRODISC™ PLUS<sup>2</sup> modules is the high-capacity media (H grades). The H grades show up to 30% higher capacity compared to standard grades with identical retention rate.

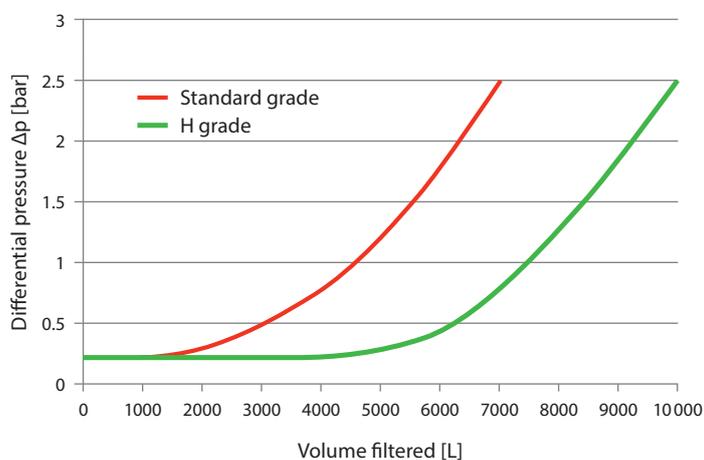


Chart: Comparison of filtration capacity between a standard filter media grade and the high-capacity H grade.

## FILTRODISC™ PLUS<sup>2</sup> specifications

Modules are available in the following versions:

	12"	16"
Diameter [mm]	290	400
Height [mm]	272	272
Number of cells	16	16
Filter area [m <sup>2</sup> ]	1.8	3.6

## Operating conditions

	FILTRODISC™ PLUS <sup>2</sup>
Max. operating temperature (continuous)	82 °C / 180 °F
Max. differential pressure (filtration)	2.4 bar / 35 psi
Recommended rinsing volume	50 l/m <sup>2</sup>

### Adapter type

The FILTRODISC™ PLUS<sup>2</sup> modules are available with the following adapter type:

- flat adapter (= DOE)

### Backflushing of FILTRODISC™ PLUS<sup>2</sup> modules

For backflushing the FILTRODISC™ PLUS<sup>2</sup> modules, no additional stabilization parts are needed.

For more detailed information on backflushing and the correct procedure, please contact your local FILTROX representative or our application services.

### Material and construction

The modules consist of a polypropylene backbone (rigid core) and filter lenses. For the lenses, filter sheets and a polyester scrim are mounted on either side of the drainage body. Outside support bars are applied for stabilization during backflushing.

For the gaskets, the following materials are available:

- MVQ / Silicone (standard)
- EPDM
- FKM / Viton®
- NBR

### Extractables

Heavy metals content referring to recommendations XXXVI/1 German BfR (law on foodstuffs and items of practical use): ..... <50 ppm

FILTRODISC™ PLUS<sup>2</sup> modules are free of extractable organic solvents since no organic solvents are used in the production.

### FILTROX quality assurance

FILTROX assures the highest quality control according to international standards:

- ISO 9001:2008 (Quality Management)
- ISO 14001:2004 (Environmental Management)
- ISO 22000 (Food Safety)
- FDA drug master file: DMF # 16418
- FDA 21 CFR Compliance
- Kosher certificate
- EU safety data sheets can be downloaded from the website.

FILTROX uses polyamidoamine, as wet strength agent, in its filter sheets. The ISEGA Institute for food analysis in Aschaffenburg (Germany) performed a test for extractable MCPD and DCP. The FILTROX filter sheets extracts were below the detection limit of the approved standard method. The filter sheets are free of GMO and common allergens.

### Expiring and storage

FILTRODISC™ PLUS<sup>2</sup> modules must be stored in a dry and odor free place. We recommend using the modules within 36 months of the manufacturing date.