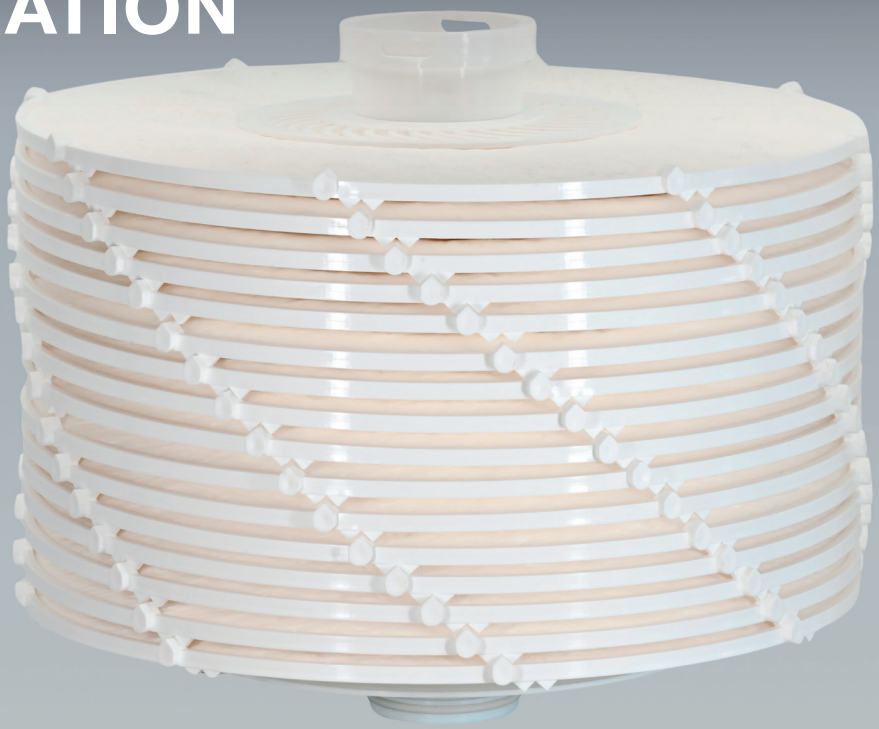
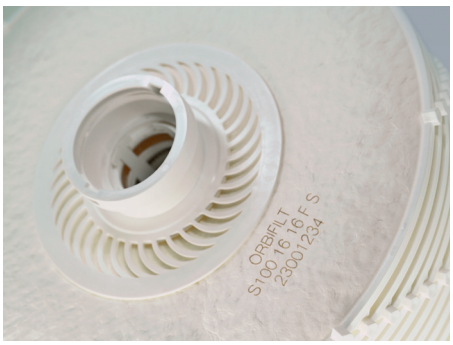
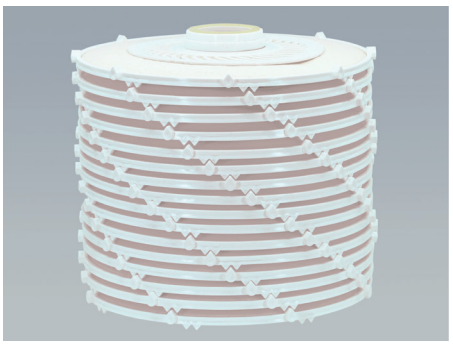
RELIABLE FILTRATION







ORBIFILT®

FILTER MODULES

HOBRA ŠKOLNÍK

FILTER MEDIA
FILTER EQUIPMENT AND TECHNOLOGY

PORE FILTRATION

ORBIFILT®

ORBIFILT® filter modules are designed for effective depth filtration of liquids in the food, pharmaceutical, biotechnological and chemical industries, as well as in other industries. These modules, containing HOBRAFILT® depth filtersheets, are manufactured according to the highest quality standards. Through filtration on filter modules, you achieve the effect of depth filtration with easier handling, in a closed system, without air access and without leaks. ORBIFILT® filter modules can also be supplied with filtersheets of the "C" series, or others.
In addition, the inovated ORBIFILT® filter modules have a reinforced polypropylene construction without the use of stainless steel clips, providing protection against mechanical damage. The construction is adapted to make the most efficient use of the total filtration area. This allows ORBIFILT® modules to provide a higher overall filtration capacity, depending on the application and use.

Available versions of ORBIFILT® depth filter modules:

Size (diameter):	12" (30 cm)	16" (40 cm)
Number of lenses:	16	16
Filter area:	1,8 m^2	3,6 m^2
Adapter type:	DOE (Flat), DOR (Bayonet)	DOE (Flat), DOR (Bayonet)

Range of ORBIFILT® modules and specifications of the HOBRAFILT® "N" series filtersheets used:

ORBIFILT® type	HOBRAFILT® used type	Flow rate (l/m^2/min@100kPa)	Approximate nominal retention (µm)	Bacterial retention (LRV)	Maximum recommended differential pressure (bar)
ST30	ST 3 N	32	0,2	8	1,20
ST50	ST 5 N	56	0,3	7	1,20
ST70	ST 7 N	94	0,4	6	1,20
ST90	ST 9 N	115	0,6	5	2
S100	S 10 N	151	0,8	na	2
S110	S 11 N	131	1,0	na	2
S150	S 15 N	205	2,0	na	2
S160	S 16 N	228	2,0	na	2
S200	S 20 N	257	3,0	na	2
S300	S 30 N	298	4,0	na	2
S400	S 40 N	480	5,0	na	3
S600	S 60 N	800	6,0	na	3
S800	S 80 N	1233	8,0	na	3
S1000	S 100 N	1025*	11,0	na	3
S1500	S 150 N	1950*	25,0	na	3

* l/m^2/min@30kPa

Chemical resistance of individual components of ORBIFILT® filter modules:

Substance	Concentration	Filtersheet	Polypropylene construction	Sealing		
				Silicone	EPDM	Viton
NaOH	1 %	++	++	++	++	+
HCl	5 %	++	++	+	+	++
Acetic acid	20 %	++	++	–	+	++
Acetone	concentrated	++	–	+	++	–
Ethanol	80 %	++	++	–	++	++

++ resistant, + limited resistant, – non-resistant (indicative values)

Typical applications:


Wine filtration


Filtration in pharmaceuticals and biotechnology


Beer filtration


Filtration in chemistry, biochemistry and cosmetics


Filtration of alcoholic and non-alcoholic beverages


Food filtration

Standard dimensions of ORBIFILT® filter modules:

Module Adapter	DOE (Flat)		DOR (Bayonet)	
Module size	12"	16"	12"	16"
Total height (mm)	272	272	330	330
Total diameter (mm)	294	404	294	404

Standard ORBIFILT® filter modules packaging:

The filter modules are placed in a PE protective bag and placed in a cardboard box as standard. The box has special protective cardboard inserts on the bottom and top to prevent movement inside. Packaging specifications in the table below.

Module size	Box (pc)	Pallet (pc)	Box dimension (mm)	Pallet dimension (mm)
12"	1	60	330x330x370	1300x1030x1850
16"	1	30	440x440x370	1300x1030x1850

Information for ordering (coding) ORBIFILT® filter modules:

Product	Type*	Size (")	Number of lenses**	Adapter type	Sealing***
ORBIFILT®	**ST30**, STC30	12	**16**	F (DOE)	**S** (silicone)
	...	**16**		**B** (DOR)	E (EPDM)
	S1500, SC1500				V (Viton)

* other type on request ** other number of lenses on request *** other seal material on request Example of order code: **ORBIFILT ST30 16 16 B S**

The development, production and sale of ORBIFILT® filter modules are carried out in accordance with the requirements of the ISO 9001 and ISO 14001 system standards. It conforms and is audited according to the AIB International standard defining the quality and safety requirements for materials intended for direct contact with food. ORBIFILT® modules meet requirements of national and European legislation for products intended for direct contact with food and are in accordance with FDA requirements for these materials. If necessary, request the appropriate declaration of conformity or specific certificates.