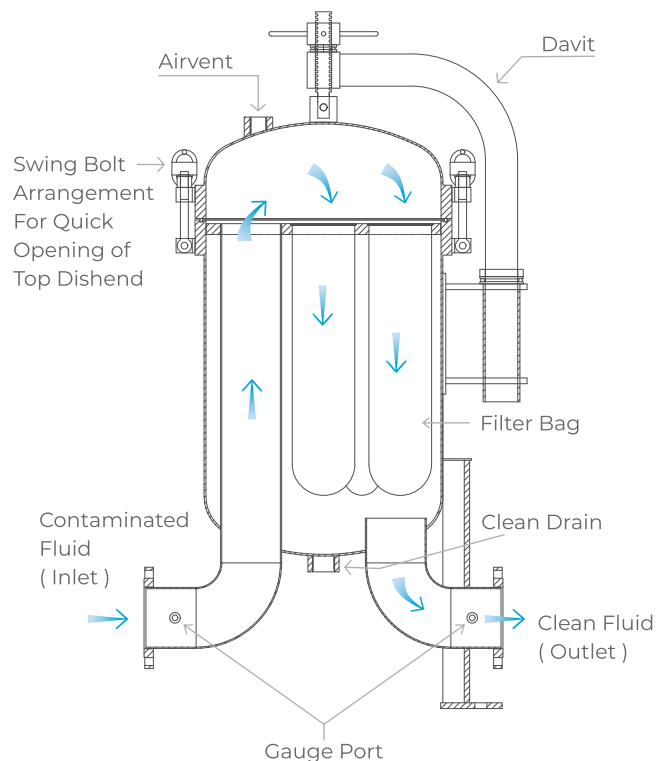


UNIFIL AX1 Series

Multibag Filter Housing

The Unifil AX1 Series is an advanced multibag filter housing, designed and manufactured in accordance with ASME Section VIII Div.1 and PED 2014/68/EU for maximum operational safety and compliance. This series is specifically engineered to use the industry-standard 7" x 32" filter bags, ensuring wide availability, compatibility, and high dirt-holding capacity. Featuring a bottom-in / bottom-out process connection, the AX1 Series enables superior liquid drainage, reduced product retention, and optimized flow distribution.



Features & Benefits

ASME Section VIII Div.1 compliant design :

ensures maximum safety and reliability, can be CE Marked.

Bottom-in / Bottom-out process connection :

allows complete drainage and easy cleaning.

Designed for Standard #2 (7" x 32") filter bags :

for high dirt-holding capacity and global compatibility.

Handles flow rates up to 560 m³/hr :

depending on model and media.

Pressure rating of 10 bar (145 PSI) / 16 bar (232 PSI) :

with other options available on request.

Sealing options :

Buna-N, EPDM, Silicone, Viton, and PTFE for a wide range of applications.

Vessel design temperature of 125°C (257°F) :

suitable for high-temperature filtration applications.

Swing bolt closure with davit arm arrangement :

enables quick and effortless opening.

Optiseal filter bag sealing system :

prevents bypass even at 10 bar differential pressure.

Available finishes :

Internal & external polished or glass bead blasted, as per requirement.

Applications



Solar and Semi-conductor :

Process Cooling Water (PCW) Filtration



Data Centre :

Cooling Tower Water Filtration



Chemicals & Petrochemicals :

For bulk liquid filtration



Food & Beverage :

Edible oils, Juices, Dairy, and Syrup clarification



Water & Wastewater Treatment :

Process water, Cooling water, and Effluent polishing



Paints, Inks & Coatings :

Final product clarification before packaging



Oil & Gas :

Produced water, Injection water, and Process fluids



Power Generation :

Boiler feed water and Turbine cooling systems



Textiles & Pulp & Paper :

Process water and chemical treatment streams

UNIFIL AX1 Series – Multibag Filter Housing

Standard Models for Unifil AX1 Series

Model No.	No. of Bag Filter	Inlet/Outlet	Typical Flow Rate * M3/Hr	Typical Flow Rate * USGPM	Housing Volume (Ltr) (Max)
UNIFIL AX1-02-C03-P	2	65 NB(2.5")	70	308	166
UNIFIL AX1-02-C04-P	2	80 NB (3")	70	308	168
UNIFIL AX1-02-C05-U	2	100 NB (4")	70	308	171
UNIFIL AX1-03-C03-P	3	65 NB (2.5")	105	462	166
UNIFIL AX1-03-C04-P	3	80 NB (3")	105	462	168
UNIFIL AX1-03-C05-P	3	100 NB (4")	105	462	216
UNIFIL AX1-03-C06-U	3	125 NB (5")	105	462	223
UNIFIL AX1-04-C05-P	4	100 NB (4")	140	616	266
UNIFIL AX1-04-C06-P	4	125 NB(5")	140	616	273
UNIFIL AX1-04-C07-U	4	150 NB(6")	140	616	336
UNIFIL AX1-05-C07-U	5	150 NB(6")	175	770	393
UNIFIL AX1-06-C07-P	6	150 NB(6")	210	925	393
UNIFIL AX1-06-C08-U	6	200 NB(8")	210	925	495
UNIFIL AX1-07-C07-P	7	150 NB(6")	245	1079	467
UNIFIL AX1-07-C08-U	7	200 NB(8")	245	1079	568
UNIFIL AX1-08-C07-P	8	150 NB(6")	280	1233	540
UNIFIL AX1-08-C08-U	8	200 NB(8")	280	1233	649
UNIFIL AX1-09-C08-P	9	200 NB(8")	315	1387	649
UNIFIL AX1-10-C07-P	10	150 NB(6")	350	1541	621
UNIFIL AX1-10-C09-U	10	250 NB(10")	350	1541	780
UNIFIL AX1-11-C08-P	11	200 NB(8")	385	1695	738
UNIFIL AX1-11-C09-U	11	250 NB(10")	385	1695	780
UNIFIL AX1-12-C07-P	12	150 NB(6")	420	1849	710
UNIFIL AX1-12-C08-P	12	200 NB(8")	420	1849	841
UNIFIL AX1-12-C09-U	12	250 NB(10")	420	1849	986
UNIFIL AX1-13-C09-P	13	250 NB(10")	455	2003	986
UNIFIL AX1-13-C10-U	13	300 NB(12")	455	2003	1158
UNIFIL AX1-14-C08-P	14	200 NB(8")	490	2157	944
UNIFIL AX1-14-C09-P	14	250 NB(10")	490	2157	1102
UNIFIL AX1-14-C10-U	14	300 NB(12")	490	2157	1158
UNIFIL AX1-15-C08-P	15	200 NB(8")	525	2311	1060
UNIFIL AX1-15-C10-U	15	300 NB(12")	525	2311	1158
UNIFIL AX1-16-C10-U	16	300 NB(12")	560	2466	1158

The flow rates provided are based on LNG FILTERS brand 1-micron polypropylene filter bags. Actual flowrate may vary depending on process parameters and the micron rating of the selected filter bags. Please consult our sales engineers to ensure accurate sizing of your filtration system.

UNIFIL AX1 Series – Multibag Filter Housing

Ordering Table

Model No.	Pressure Rating	Housing Material (Contact Part)	Gasket Material	Surface Finish
Unifil AX1 Series Model	P10 = 10 bar (145 PSI)	M1= Stainless Steel Gr. 304	B= BUNA-N	1= Mirror Polish
	P16= 16 bar (232 PSI)	M2= Stainless Steel Gr. 316	E= EPDM	2= Matt Finish
		M3= Carbon Steel	S= SILICON	3= Glass beading
		MC= Material Grade Other Than listed on Request	V= VITON	4= Paint
			P= PTFE Encapsulated Viton	5= Custom Surface finish other than listed above
			N = NEOPRENE	
Example				
UNIFIL AX1-16-C10-U	P10	M1	S	3

Ordering Code Example :

UNIFIL AX1-16-C10-U-P10-M1-S-3

Unifil AX1 Series Bag Filter Housing Suitable for 16 Nos of Filter Bags with Inlet/Outlet Process Connection of 300 NB, Design Pressure of 10 bar, Stainless steel Gr. 304, Gasket Material Silicon, Glassbead Surface Finish.



MFG OF LIQUID AND GAS FILTERS

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