VERSIS®

VERTICAL PRESSURE LEAF FILTER SYSTEMS

The Amafilter® Versis® vertical pressure leaf filter system has been extensively used in plants across the world in the Food & Beverages, Chemical, Mining & Minerals and Biofuel industries.

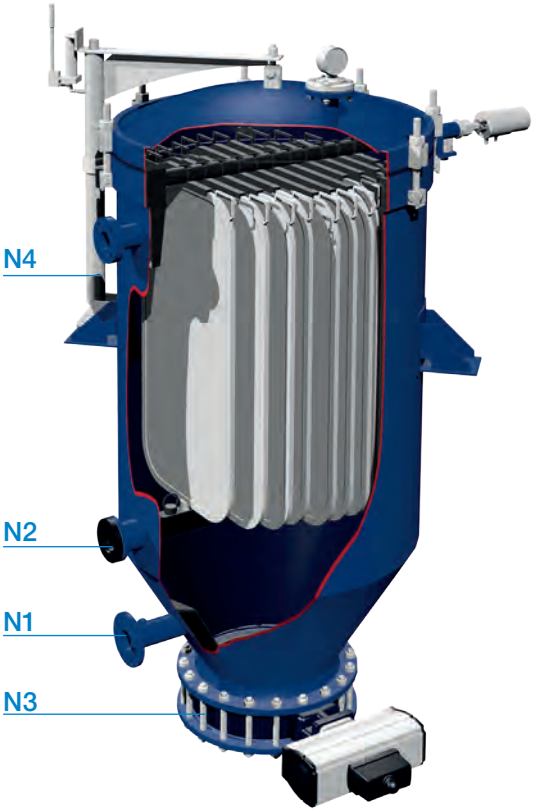
The amafilter® Versis® pressure leaf filter system provides:

FEATURES AND BENEFITS

- Proven technology
- The pressure leaf filter is a closed filtration system which ensures safety when in use.
- The Versis® vertical pressure leaf filter system requires only a small footprint.
- Easy access to the filter leaves for removal of the cake.
- It is fully automated, making it safer and requiring limited maintenance, hence lowering operational costs.
- The regeneration time between the filtration cycles is short, lowering operating costs as the filter can filtrate for longer periods without disruptions. This also delivers greater production capacity.
- The pressure filter leaves are easy to clean.
- The pressure leaf filter system has no rotating parts, keeping maintenance to a minimum.
- This filter produces a high filtrate clarity after the clarification run and is also suitable for all kinds of filter aids.
- Reinforced filter leaves elements provide extended lifetime.
- The specifically designed cover gasket does not require replacement each time the filter system cover is opened. The cover gasket comes with special self-sealing properties which ensure a perfect sealing solution and promote maximum safety.
- The pressure leaf filter systems can be made with a heating jacket which maintains elevated process temperatures. This is specifically required to avoid cooling down of the suspension in instances where this is not permitted during the filtration process.
- The filter leaves are individually mounted on the central manifold, which allows the removal of any or all of the filter leaves easily and quickly.

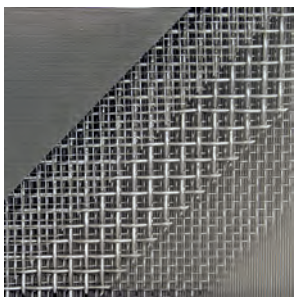
STANDARD DESIGN DATA

Criteria	Detail
Tank Material	Carbon Steel (Stainless Steel optional)
Filter Elements Material	Stainless Steel
Design Pressure	-1/6 bar(g)
Design Temperature	0/150 ºC
Max. allowable pressure drop	4.5 bar
Design Code	ASME VIII div. 1
Approval	PED 2014/68/EU SELO 02257 (China) (optional) GOST R (Russia) (optional) U-stamp (optional)



DIMENSIONS

Model	460	610	760	800	1000	1200 (1500)	1200 (1810)	1400 (1500)	1400 (1810)	1600	1800	2000
Tank diameter (mm)	460	610	760	800	1000	1200	1200	1400	1400	1600	1800	2000
Element height (mm)	780	930	1500	1500	1500	1500	1810	1500	1810	1810	1810	1810
N1 Feed / Drain DN	40	40	50	80	80	80	80	80	80	80	100	100
N2 Filtrate outlet DN	50	50	50	80	80	80	80	80	100	100	100	125
N3 Cake discharge DN	250	300	350	350	500	500	500	600	600	600	600	600
N4 Vent DN	25	25	25	50	50	50	50	80	80	80	80	100



AMAFILTER® PRESSURE FILTER LEAVES

Our product range of vertical pressure leaf systems includes an extensive range of filter leaves designs suited for various applications, including food and beverages, chemical and sulphur.

The quality and condition of filter leaves can have a significant impact, not only on the productivity of the filtration system but also on its ability to achieve a high performance standard.

- Suitable for use with the amafilter® Versis® vertical pressure leaf filters.
- Stainless steel 304(L), 316(L), 904L or super duplex. Other alloy materials on request.
- Available in different mesh types and layer combinations.
- Extensive range of reinforced frame types with riveted, welded or bolted box profiles suited to the application
- Excellent pre-coating properties.
- High filtration efficiency, filtrate quality and flux rates.
- Double-sided, stainless steel rigid filter leaves.
- Each filter leave consists of five layers (ply) of stainless steel wire mesh.
- Low pressure-drop.
- Suitable for wet (with filter cloth) and dry cake discharge.
- The top layer of the screen can be customized to the application.
- Re-screening or replacement of filter leaves.

SPECIFICATIONS

Model	Filter Area	Cake volume	Filter leaves	Filter volume	Leaf spacing	Floor space	Height*	Empty Weight
	m²	dm³		dm³	mm	mm	mm	kg
460-2/780	2	40	5	210	70	1420 x 1150	2320	440
610-5/930	5	120	7	430	70	1540 x 1210	2820	520
760-8/930	8	170	9	760	70	1710 x 1890	2860	610
800-12/1500	12	270	7	1050	75	1945 x 1830	3980	810
800-14/1500	14	310	9	1050	75	1945 x 1830	3980	810
1000-19/1500	19	410	8	1690	75	2360 x 1600	4085	1190
1000-22/1500	22	490	10	1690	75	2360 x 1600	4085	1190
1000-24/1500	24	530	12	1690	75	2360 x 1600	4085	1190
1200-27/1500	27	590	10	2520	75	2720 x 1790	4255	1525
1200-31/1500	31	680	12	2520	75	2720 x 1790	4255	1525
1200-34/1500	34	750	14	2520	75	2720 x 1790	4255	1525
1200-37/1810	37	810	12	2855	75	2720 x 1790	4855	1645
1200-40/1810	40	880	14	2855	75	2720 x 1790	4855	1645
1400-45/1500	45	990	15	3540	75	3100 x 2080	4380	2125
1400-48/1500	48	1050	17	3540	75	3100 x 2080	4380	2125
1400-54/1810	54	1180	15	3990	75	3100 x 2080	4990	2275
1400-57/1810	57	1250	17	3990	75	3100 x 2080	4990	2275
1600-61/1810	61	1330	14	5440	75	3100 x 2080	5195	2825
1600-67/1810	67	1470	16	5440	75	3100 x 2080	5195	2825
1600-72/1810	72	1590	18	5440	75	3100 x 2080	5195	2825
1800-80/1810	80	1750	16	7115	75	4300 x 2710	5365	3525
1800-86/1810	86	1900	18	7115	75	4300 x 2710	5365	3525
1800-92/1810	92	2030	20	7115	75	4300 x 2710	5365	3525
1800-95/1810	95	2100	21	7115	75	4300 x 2710	5365	3525
2000-99/1810	99	2180	18	9475	75	4500 x 2350	5570	4900
2000-107/1810	107	2350	20	9475	75	4500 x 2350	5570	4900
2000-113/1810	113	2490	22	9475	75	4500 x 2350	5570	4900
2000-118/1810	118	2580	24	9475	75	4500 x 2350	5570	4900

*Including lifting height for elements.
Other models available upon request.
Dimensions are for reference only. Subject to technical alteration without prior notice.

14/12/2023