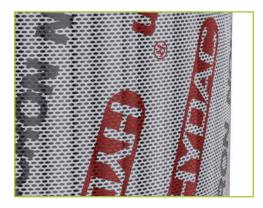




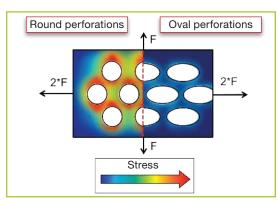
Optimicron® — Introducing the latest advancement in element technology!

With Optimicron, you can have the best of both worlds, maximum efficiency with minimal pressure loss. This is achieved through a combination of advancements:

- An innovative HELIOS pleat geometry media increases the free flow surface area while maintaining an exceptionally stable mesh pack
- An upstream drainage layer performs double duty promotes laminar flow and at the same time provides added mesh pack stability
- A second drainage layer further promotes laminar flow, while also restricting impact loss, dead spots and vortexing
- An exclusive outer wrap not only improves performance, but also provides quality protection. It features a unique oval-hole design that improves diffusion flow. This is a one-of-a-kind oval design, so you can be assured that when your element includes this outer wrap that it is a HYDAC quality original and not an imitation.
- Expanded range of micron ratings 1-micron and 15-micron have been added to the family (complete offering 1, 3, 5, 10, 15, 20) increasing flexibility for application optimization



The new perforations ensure optimized flow onto the filter pleats and thus minimize pressure losses effectively.



The optimized perforations have the effect of distributing the stress evenly in the axial and radial directions and thus increase tear resistance.



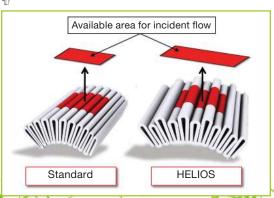
Customized multicolored brand labelling provides protection from product

Innovative HELIOS pleat geometry





The innovative Helios pleat geometry consists of alternating high and low pleats.



The unique geometry significantly increases the area open to the flow and stabilizes the flow in the area between the pleats, reducing the differential pressure.

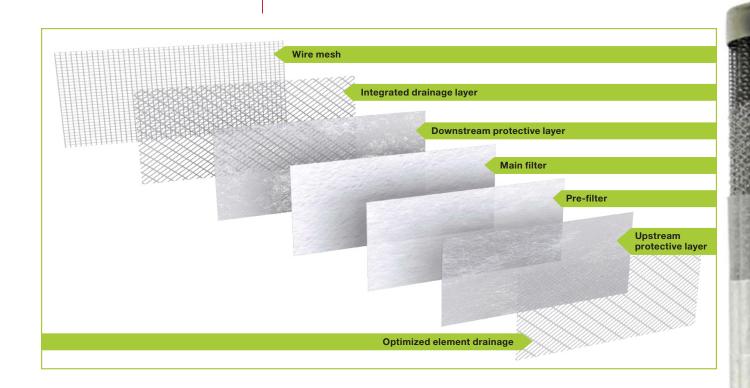


Under high dynamic load conditions, the Helios geometry prevents pleat compression which reduces differential pressure.



Up to seven filtration layers

Free flow of fluid with very low differential pressure and high contamination retention.



The unique asymmetrical structure provides large flow cross-sections, Optimized element drainage: effectively preventing dead-spaces, turbulence and pressure losses The homogenous and robust non-woven material protects the sensitive **Upstream protective layer:** microglass media from mechanical damage The graduated structure of the filter media ensures efficient particle retention Pre- and main filter: together with a high level of contamination capacity and a long element service life The pressure-resistant protection and support layer offers optimum support for **Downstream protective layer:** the pre- and main-filter media even under high differential pressure conditions The integrated drainage layer directs the flow of fluid freely to the clean side and Integrated drainage layer: results in very low element differential pressures The stainless steel mesh ensures high stability of the filter pleats and has High quality wire mesh: excellent fluid compatibility

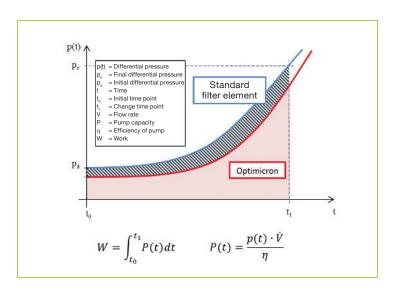


Optimicron® shows the way

Protects the environment and your pocket

HYDAC Optimicron makes high energy savings possible over the whole service life of the filter element. This protects valuable resources and reduces the CO₂ emissions.





Our contribution to sustainability.

Energy efficient innovations are the main focus of our developments, so that systems operate more economically.



Optimized filter elements for applications in turbomachinery applications (includes Stat-Free® technology)



Optimized filter elements for applications with powerful pulsations (includes Stat-Free® technology)



Optimized filter elements for use in paper mills



For your application

Optimized filter elements for your application

HYDAC



Optimicron® — the optimized approach to filter performance

ΔP/Q Gradient Coefficients in psi / gpm

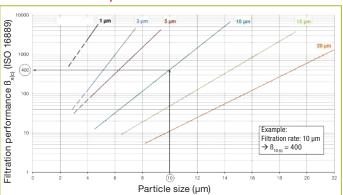
Optimicron D Elements

	Filtration rating							
Size	1 µm	3 µm	5 µm	10 µm	15 µm	20 µm		
0030 D XXX ON	4.27	3.507	2.376	1.251	0.768	0.62		
0035 D XXX ON	2.755	1.169	0.938	0.752	0.549	0.408		
0055 D XXX ON	1.427	0.675	0.543	0.434	0.284	0.211		
0060 D XXX ON	2.936	1.427	1.004	0.664	0.537	0.347		
0075 D XXX ON	0.916	0.461	0.37	0.296	0.183	0.136		
0095 D XXX ON	0.724	0.37	0.296	0.238	0.144	0.105		
0110 D XXX ON	1.416	0.735	0.527	0.333	0.254	0.164		
0140 D XXX ON	1.092	0.631	0.406	0.24	0.194	0.126		
0160 D XXX ON	1.015	0.604	0.423	0.225	0.204	0.175		
0240 D XXX ON	0.631	0.379	0.293	0.175	0.134	0.115		
0260 D XXX ON	0.449	0.272	0.212	0.127	0.1	0.079		
0280 D XXX ON	0.304	0.185	0.15	0.082	0.075	0.064		
0300 D XXX ON	0.801	0.488	0.391	0.268	0.154	0.143		
0330 D XXX ON	0.452	0.23	0.185	0.135	0.085	0.067		
0450 D XXX ON	0.401	0.244	0.193	0.131	0.077	0.069		
0500 D XXX ON	0.277	0.141	0.114	0.068	0.052	0.041		
0650 D XXX ON	0.245	0.148	0.121	0.081	0.047	0.044		
0660 D XXX ON	0.207	0.106	0.086	0.051	0.039	0.031		
0900 D XXX ON	0.185	0.115	0.092	0.06	0.036	0.035		
0990 D XXX ON	0.138	0.07	0.057	0.033	0.026	0.02		
1320 D XXX ON	0.102	0.053	0.042	0.025	0.019	0.015		
1500 D XXX ON	0.09	0.053	0.038	0.026	0.02	0.015		

ADVANTAGES:

- Up to 30% lower ΔP: Benefit Up to 30% cost and emission savings:
- Increased element service life: Benefit lower maintenance and element replacement costs
- More efficient filtration: Benefit ensures long system life and cost-savings
- Additional filter ratings, combined with improved design: Benefit - Increased application flexibility
- Quality Protection: Ensures best protection during the whole life of the equipment.

B - values for Optimicron



Optimicron R Elements

·	Filtration rating							
Size	1 µm	3 µm	5 µm	10 μm	15 µm	20 µm		
0030 R XXX ON	4.928	3.754	2.409	1.471	0.922	0.807		
0060 R XXX ON	2.59	1.295	0.944	0.539	0.494	0.376		
0075 R XXX ON	1.405	1.065	0.735	0.401	0.263	0.241		
0090 R XXX ON	1.235	0.719	0.521	0.333	0.236	0.176		
0110 R XXX ON	1.224	0.719	0.487	0.296	0.234	0.178		
0150 R XXX ON	0.735	0.428	0.31	0.198	0.14	0.105		
0160 R XXX ON	0.878	0.439	0.312	0.177	0.148	0.182		
0165 R XXX ON	0.774	0.518	0.404	0.221	0.123	0.133		
0185 R XXX ON	0.571	0.408	0.315	0.161	0.091	0.077		
0195 R XXX ON	0.42	0.301	0.232	0.119	0.067	0.057		
0210 R XXX ON	0.311	0.18	0.14	0.084	0.055	0.048		
0240 R XXX ON	0.571	0.284	0.201	0.125	0.101	0.077		
0270 R XXX ON	0.201	0.116	0.091	0.054	0.036	0.031		
0280 R XXX ON	0.28	0.141	0.114	0.078	0.058	0.044		
0330 R XXX ON	0.444	0.204	0.15	0.081	0.07	0.056		
0450 R XXX ON	0.347	0.174	0.126	0.077	0.055	0.047		
0500 R XXX ON	0.289	0.143	0.104	0.06	0.046	0.038		
0580 R XXX ON	0.137	0.068	0.049	0.029	0.022	0.019		
0600 R XXX ON	0.129	0.068	0.06	0.033	0.023	0.019		
0660 R XXX ON	0.196	0.093	0.066	0.037	0.031	0.025		
0750 R XXX ON	0.116	0.061	0.05	0.029	0.019	0.018		
0850 R XXX ON	0.152	0.072	0.055	0.032	0.024	0.02		
0950 R XXX ON	0.131	0.057	0.043	0.026	0.021	0.017		
1300 R XXX ON	0.094	0.04	0.032	0.019	0.018	0.012		
1700 R XXX ON	0.074	0.035	0.029	0.015	0.014	0.01		
2600 R XXX ON	0.046	0.02	0.016	0.01	0.009	0.006		

Optimicron® shows the way!

These innovative filter elements can make substantial savings on energy and costs for machine and system operators. The savings apply over the entire service life and the elements offer superior performance at the same time.

The high energy efficiency of the new filter elements therefore reduce CO, emissions.

Our contribution to sustainability!





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