



HYDAC INTERNATIONAL

Optimicron® POWER

Optimized Filter Elements for Applications in Power Stations

HYDAC has developed an innovative advancement in filter element technology that is specifically tailored to API applications. Introducing the Optimicron Power Series, with impressively high levels of robustness, enhanced safety features and a particularly low pressure drop. Optimicron Power elements also boast a compact design and a unique filter mesh pack that allows for a homogeneous flow of the

fluid filtered. Newly designed element support for the filter mesh pack allows for the optimization of the flow channels along the mesh pack and the flow gradients inside the pleat. The result is improved flow conditions and a homogeneous incident flow of fluid through the filter medium. As a consequence, the differential pressure across the filter element is significantly lowered.

HYDAC Integrated Technologies

Optimicron Power is a new application-specific filter element equipped with improved safety features and low pressure drop across the element. The element has a compact design and innovative filter mesh pack that produces a homogeneous flow of the filtered liquid.

Stat-Free technology contributes to increased operating safety and oil service life by eliminating the events of Electro Static Discharge (ESD) in the lube system.

Advanced Outer Wrap Technology

Optimicron Power features a unique outer wrap designed to optimize the incoming flow distribution resulting in improved mesh pack performance and reliability.



Model Code

Size	_____	2600	A	010	ON/PO / -
All standard sizes available (0030 - 2700)					
Type	_____				
A = API - 614 Element					
Filtration Ratings (micron)	_____				
5, 10, 20 = ON/PO					
Element Media	_____				
ON/PO = Optimicron® POWER					
Supplementary Details	_____				
Seals					
(omit) = Nitrile (Standard)					
v = Fluroelastomer (FPM)					
By-Pass					
(omit) = No bypass					
B3 = 43 psid (3 bar)					
B6 = 87 psid (6 bar)					

For pricing and delivery information contact your local HYDAC sales representative or a HYDAC Filter product manager at Filters@hydacusa.com

Changes in the Model Code

Optimicron Power was developed including integrated Stat-Free technology. It will replace all elements labeled with G/HC and SFREE. This change also applies to filter housings currently using G/HC and SFREE elements. As an example, when a customer orders our AFLD filter housing:

Filter Housing

Old: AFLD G/HC 1322 CA5 10 A 1.x/-SFREE

New: AFLD ON/PO 1322 CA5 10 A 1.x

Element

Old: 2600 R 010 G/HC/-SFREE

New: 2600 A 010 ON/PO

A elements (subject to API Standard 614, ISO-10438)		
Optimicron® Power (ON/PO)		
Size	10µm	20µm
120	0.075	0.049
230	0.037	0.024
540	0.018	0.012
850	0.008	0.005
2600	0.004	0.004
2700	0.004	0.003

$\Delta p/Q$ Gradient coefficients in psi/gpm Flow performance determined acc. to ISO 3968:



POWER Applications

Optimicron® Power elements are designed to meet the requirements of the API 614 standard. When used in power plant applications such as turbine lubrication or in the lift system of the turbine, specific requirements are demanded of the filter elements. Since centrifugal pumps are used in this sector, the main emphasis is on obtaining the lowest possible pressure drop when filtering the fluid concerned. The filter element is optimized for applications in power stations such as e.g. turbine lubrication, compressors and the lifting unit on turbines.

