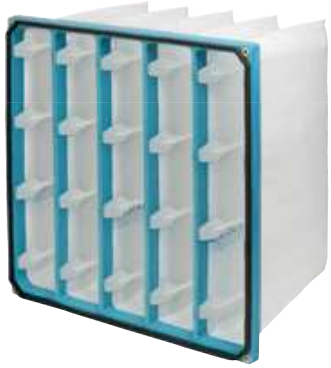
COALESCER

HYDROMAXX, HYDROPACK, HYDROMESH

Coalescing filters offer optimal protection against penetrating water and salt, especially in offshore or coastal environments and in many other locations with high humidity. As pre-filters with special drainage properties, they prevent water droplets from passing through the subsequent filter stages.



COALESCER

HYDROMAXX POCKET FILTERS

SPECIFICATIONS	
Filter medium	Hydrophobic polyester fibers
Recommended final pressure drop	375 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Polyurethane

Application

Viledon® hydroMaxx reverse pocket filters are the next generation of coalescer filters following the field-proven F 45 R pocket filter range. Offering high operational reliability and cost-efficiency they are ideally suited for intake air prefiltration at coastal, offshore and other high humidity locations of

- gas turbines in power generation and in the oil and gas industry,
- compressors and diesel and gas engines.

Features and benefits

hydroMaxx pocket filters offer **four main benefits** in one filtration concept.

1. The reverse media's hydrophobic, progressive nonwoven composition functions as a reliable coalescer for water particles.

This feature enables the water droplets to combine and drain down from the vertical pockets. Thus salt and hydrocarbon ingress will be substantially reduced.

2. Superior dust handling. Thanks to the reverse media concept, dust is not readily stored as in a traditional pocket filter. The hydroMaxx utilizes a self-supporting, integrated cage system to optimize performance.

3. Maximized functional reliability thanks to the leak-proof welded edge configuration of the filter pockets, foam-sealed into a PUR front frame, and dimensionally stable construction of the filter element as a whole.

4. Various 2-in-1 filtration system solutions based on the unique modular clip-on system. This design allows close coupling to either the intermediate or the final filter without any structural modifications.

- The integrated plastic support cage ensures optimum stability as well as easy, timesaving mounting or change of the filter element.
- Pre-installed couplings at the four corners can be used for combination with other pre- or final filters by using the patented Viledon® modular clip-on system.

Delivery notes

Viledon® hydroMaxx can be installed on another Viledon® pocket filter with the aid of an adapter (art. No. 53541191).

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	NUMBER OF POCKETS	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	ISO 16890 CLASS TO ISO 16890
HYDROMAXX 0558x0558x0345 W4	53537798	558×558×345	5	1.8	4,250	65	ISO ePM10 50%

ISO 16890

Subject to technical changes.

COALESCER

HYDROPACK FILTER CELLS

SPECIFICATIONS	
Thermal stability	up to 70 °C
Moisture resistance	up to 100 % rel. hum.
Frame	plastic

Application

hydroPack MP 45 KTC-W filter cells are used for intake air filtration of

- gas turbines in power generation and in the oil and gas industry,
- compressors and diesel and gas engines.

Here they extend the useful lifetimes of the downstream high-performance filters.

Features and benefits of hydroPack MP 45 KTC-W

- A water barrier at the bottom of the filters back side reduces intaken water from reaching the clean-air side. This ensures enhanced prefilter lifetime and protection of the downstream filter stage.
- Thanks to coalescing properties ideally suited for applications where filters are exposed to constant waterspray or fogging.
- hydroPack MP 45 KTC-W Filters are fully-potted resulting in a leak-free construction.
- The entire filter element is metal-free and thus non-corroding and fully incinerable.
- The filter cells are moisture-resistant up to 100 % rel. humidity and thermally stable up to 70 °C. The filtermedium is self-extinguishing to DIN 53438 (Fire class F 1).
- Besides the standard version without gasket hydroPack filter elements are optionally available with a glued on gasket, either gasket on the downstream side (same side as water barrier) or gasket on the upstream side (opposite side of the water barrier).

							EN 779:2012	ISO 16890	
ARTICLE	ARTICLE NUMBER	FRAME	DIMENSIONS (W × H × D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	INITIAL GRAV. ARRESTANCE [%]
MP 45 KTC-W-0595x0595x096-Z00N-hydroPack	53534826	Plastic	595 × 595 × 96	2.2	4,250	70	G4	ISO coarse 65%	65

COALESCER

HYDROMESH METAL FILTERS

SPECIFICATIONS	
Filter material	Knitted wire mesh (AlMg3)
Moisture resistance	up to 100 % rel. hum.
Frame	Aluminium (AlMg3) or stainless steel
Protection grid	Expanded metal aluminium

Application

hydroMesh coalescer filters apply for moisture separation used in intake air filtration systems of

- gas turbines for power generation and in the oil and gas industry
- compressors,
- offshore and coastal installations,
- installations with recurrent high humidity.

Features and benefits

- hydroMesh coalescer are suitable for prefiltration of pulse-jet cartridge systems in very dusty environments that are also characterized by high humidity (e. g. coastal sites in desert areas) or by water ingress.
- They protect the downstream filter stages reliably and remove moisture.
- Can be used as a coarse dust (e. g. sand) prefilter in static filter systems.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W × H × D) [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]
hydroMesh Coalescer AlMg3 610x305x25 mm	53541448	610 × 305 × 25	1,700	65
hydroMesh Coalescer AlMg3 610x610x25 mm	53541447	610 × 610 × 25	3,400	65