

Our range of CERAMIC NANO-Filtration (NF) units are designed to be the most compact & efficient solution where high quality water is required. The skid mounted units are installed like a Plug & Play device, with automated operation & cleaning (CIP).

TYPICAL APPLICATIONS

- · Process Water for industrial use.
- Process Water for laundries, hotels, hospitals or buildings.
- Greywater recycling, irrigation water.
- · Reverse Osmosis (RO) Feed Water.

OPERATING PARAMETERS

Feed TurbidityFiltrate Turbidity7000 NTU1 NTU

Recovery Rate
Bacteria Removal
Virus Removal
99.999% (> Log 6)
99.99% (> Log 4)

• COD reduction 80% - 90%
• pH 0 - 14
• Temperature 10°C - 99°C
• Operating Pressure < 10 bar

• Design Pressure PN 16

QUALITY ASSURANCE

- C € Certified.
- Ceramic Membrane Barrier
- HILLSBRIDGE Continuous Integrity Test.
- HILLSBRIDGE Remote Monitoring & Alarm System.
- In-Line monitoring of Key-Parameters.
- 3rd Party Laboratory Analyses.

PLANT FEATURES

- Complete Nano-Filtration units with nominal permeate capacities of 2 m³/h to 20 m³/h per module.
- Plug & Play installation and Lowest Footprint on the Market.
- · Automated Feed & Recovery Control.
- · Automated Operation & Cleaning In Place (CIP).
- Easy Maintenance & Off the Shelf Equipment.
- Closed Process, No Dismantling, No Odor Emissions.
- Touchscreen HMI with PLC for Easy Monitoring & Control.
- · Remote Access & Control.
- · Customized Alarm System (e.g. SMS based).

MATERIALS USED

• Piping: Stainless Steel 316 / HDPE / PP

Frame: Stainless Steel 304
 Pump Hydraulics: Stainless Steel
 Membranes: Ceramic

INSTRUMENTATION & CONTROLS

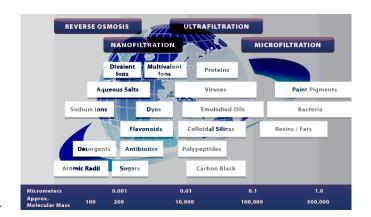
• Pumps: KSB / Grundfos

Flow Meters: KrohnePressure & Level: KrohneValves: Burkert

• Inline Metering: pH, Temp., Turbidity, Pressure,

Flow, Conductivity, Levels

Air Pressure: Wika, various
 Software: HILLSBRIDGE
 Schneider PLC & Touchscreen HMI







MODEL	CeramNF-2.0	CeramNF-5.0	CeramNF-10	CeramNF-20
Filtrate Flow Rate *	2.0 m³/h	5.0 m³/h	10.0 m³/h	20.0 m³/h
Feed Flow Rate	2.5 m ³ /h	6.2 m³/h	12.5 m³/h	25.0 m³/h
Recovery Rate	80%	80%	80%	80%

CERAMIC MEMBRANES							
Housing	SS 316	SS 316	SS 316	SS 316			
Pressure	< 10 bar	< 10 bar	< 10 bar	< 10 bar			
Operating Mode	Turbular	Turbular	Turbular	Turbular			
	Cross Flow	Cross Flow	Cross Flow	Cross Flow			

WEIGHT & DIMENSIONS*						
Width	1′000 mm	1′000 mm	1'800 mm	1'800 mm		
Length	1'800 mm	1'800 mm	2'500 mm	3′500 mm		
Height	2'500 mm	2'500 mm	2'500 mm	2′500 mm		
Weight	750 kg	900 kg	1'500 kg	2'600 kg		

^{*}indicative values, all units are custom designed



