

# **ABSOLUTE-RATED DEPTH FILTER**

## **PLEATED FILTER MEDIA IN MELT-BLOWN POLYPROPYLENE**

## **MATROX<sup>®</sup> HD**

**The only effective alternative  
to filter sheets.**

The development of an innovative technology has let us create this new, extremely versatile and highly cost-effective cartridge, which combines effective clarification with a high contaminant holding capacity.

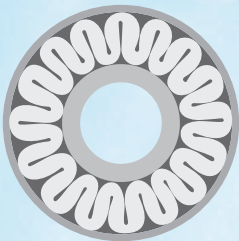
Matrox<sup>®</sup> HD is the first real alternative to filter sheets and lenticular cartridges. Melt-blown technology has been applied together with ultra-fine polypropylene microfibres to create a laminated, pleated filter media that significantly increases both the filtration area and the filter's particulate retention capacity, thanks to the large volumes of void within the element. Multiple superimposed layers of increasing density optimise filtration efficiency. This filter is particularly suitable for the clarification of viscous liquids with high filterability indexes, or to filter fluids with high contaminant content.

Matrox<sup>®</sup> HD cartridges are tested to ensure a very high filtration efficiency. The Matrox<sup>®</sup> HD cartridge is biologically inert, does not adsorb odour, tastes or colour and is cleaned by simply rinsing with hot water.



# MATROX<sup>®</sup> HD

## The only effective alternative to filter sheets.



PLEATED MELT BLOWN POLYPROPYLENE



FILTRATION SOLUTIONS

IONEX LLC - 33131 Miami (FL) USA

DISTRIBUTOR FOR EUROPE:

AB Arnaldo Bassi srl

Via Don G. Calabria, 30 - 20132 Milan - Italy  
Tel. +39.02.25.66.081 - Fax +39.02.25.66.486

www.ionexfilters.com

## TECHNICAL SPECIFICATIONS

- high-precision depth filter, consistent quality performance right up until blocking
- rigid structure
- resists contaminant release even at high  $\Delta p$  values
- biologically inert, no fibre release from the filter media
- no adsorption of colour or odour
- no release of foreign colour, odour or flavour
- wide chemical compatibility, easily regenerated with chemical products
- uniform filtration across the entire surface
- all materials used in manufacture meet the requirements of FDA CFR Title 21
- all materials used in manufacture compliant with USP class VI, 'Plastic Biosafety'
- thermo-bonded construction with no surfactants, binders or adhesives

## OPERATING CONDITIONS

Max. operating temperature	175°F@30 psi (80°C@2,0 bar)
Max. operating pressure	55 psi @85°F (4 bar @30°C)
Recommended operating pressure	20-30 psi (1.5/2.0 bar)

## RECOMMENDED FLOW RATE (H<sub>2</sub>O@68°F/10" – 1.0 psid)

MICRON RATING	1,0 µm	4.5 gpm (17 lpm)
"	2,0 µm	5.5 gpm (20 lpm)
"	4,0 µm	6.5 gpm (25 lpm)
"	6,0 µm	7.5 gpm (28 lpm)
"	10,0 µm	8.5 gpm (32 lpm)
"	20,0 µm	11.0 gpm (41 lpm)
"	40,0 µm	13.0 gpm (49 lpm)
"	50,0 µm	16.0 gpm (60 lpm)
"	90,0 µm	24.0 gpm (90 lpm)

## SANITISATION

Hot water sanitisation	30 min.@175°F (80°C)
Steam sterilisation	20 min.@255°F (125°C)
Chemical sanitisation	with commonly available chemical products

## FILTRATION GRADES

1,0 – 2,0 – 4,0 – 6,0 – 10,0 – 20,0 – 40,0 – 50,0 – 90 µm

Filtration efficiency:>99.99%

(ISO4572 ACFTD AC FINE TEST DUST<20 µm / AC COARSE>20 µm)

## MATERIALS

filter layer	pleated melt-blown polypropylene no resins or binding agents
upstream/downstream supports	polypropylene
inner support core	polypropylene
outer protection cage	polypropylene
end caps	polypropylene
seals	silicone (standard) Viton <sup>®</sup> , EPDM, Buna N, PTFE

## SEALING METHOD

thermo-bonding

## DIMENSIONS

Length	10" (254 mm), 20" (508 mm) 30" (762 mm), 40" (1016 mm)
External diameter	2.71" (69 mm)
Internal diameter	1.02" (26 mm)