LennBag ULD

ULTRA LONG-LIFE FELT BAG

LENNTECH
WATER TREATMENT SOLUTIONS

EN Data sheet

High thickness filtration bag allowing to increase significantly the life time compared to standard felt bags.

With identical porosity, ULD bags allow to filter thinner and up to 5 times longer.

Comparison of ULD bags with standard felt bags

The following tests have been conducted on a normalized bench on a Ø90 mm disk (1 l/min flow rate and particles concentration ISO CTD of 500 mg/l on average, depending on porosity).

	1 µm	10 µm	50 µm
Life span	+ 50%	+ 500%	+ 250%

Description

The ULD felt is 30 to 70% thicker than standard felts while increasing the overall permeability (reduction of the initial pressure drop). This structure allows a wider spectrum of particles to be retained in the thickness of the felt: increased depth filtration for delayed clogging. The outer surface of the felt is flamed to prevent any release of fibers.

ULD bags are particularly well adapted to the retention of gels and deformable gelatinous particles.

Characteristics & benefits

- Wide range of porosity from 1 to 100 µm.
- Standard or custom bag.
- W shaped bag available enabling a 60% increase in filtration area.
- Available in 2 materials : polypropylene (POT) and polyester (PET).
- Improved filtration efficiency.
- Life span increased (retention capacity).
- Reduction of the number of stops.
- Reduction of bags consumption.
- Reduction of global filtration costs (consumables + operation)
- Reduction of storage and destruction costs.
- Perfectly suited for the filtration of deformable particles such as gels.
- O-ring available in polypropylene, galvanized steel and stainless steel versions for maximal compatibility with chemicals and high temperatures.
- Available with molded rings according to several industry standards for a better sealing.
- FDA compliant (PP felt)
- Made from silicone-free materials.
- Lot number on bags and packaging.

Chemical compatibility

	Polypropylene	Polyester
Alkaline	+++	-
Acid	+++	+++
Oxidizer	-	+++
Solvent	+	++
Tmax (°C)	90	140

+++ Excellent | ++ Good | + Fair | - Not compatible

Note: displayed temperatures are only applicable for metal rings. If polypropylene ring, do not go above 90°C.

Conditions of use

Max pressure loss	2,4 bar
Recommended replacement differential pressure	0,7 - 1,4 bar
Max flow rate	15 m^3/h (size 10)

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ORDER REFERENCE

Example :

	A		B		C		D		E
QPT	20	-	PET	-	1	-	EH	-	IW

A / Size

Code	Diameter (mm)	Length (mm)	Volume (liters)	Area (dm^2)
10	180	450	10	26
10W	180	450	5	40
20	180	820	19	44
20W	180	820	10	70
30	260	860	42	65
40	260	1070	53	85
03	95	230	1.1	6
04	107	230	1.2	8
05	110	230	1.3	9
07	95	385	2.3	11
08	107	385	2.8	12
09	110	385	3.2	14
x100	152	510	5.6	18

B / Media

Code	Material
PET	Thick polyester felt
POT	Thick polypropylene felt

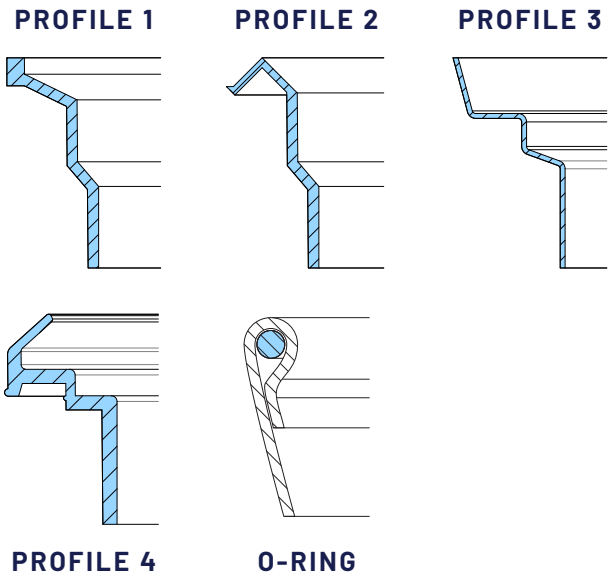
C / Retention threshold

Code	Porosity
1	1 µm
5	5 µm
10	10 µm
25	25 µm
50	50 µm
100	100 µm

D / Ring

Code	O-ring	Available sizes
EH	Galvanized steel	All
S	Stainless steel	All
P	Polypropylene	All

Code	Molded ring	Available sizes
ERP	Profile 1 [PP]	10 / 20
ERS	Profile 1 [PES]	10 / 20
PR	Profile 1 [Santoprene™]	10 / 20
EFS	Profile 2 [PP]	10 / 20 / 04 / 08
EFSE	Profile 2 [PES]	10 / 20 / 04 / 08
X10P	Profile 3 [PP]	X100
EAP	Profile 4 [PP]	10 / 20
EAPE	Profile 4 [PES]	10 / 20
EAS	Profile 4 [Santoprene™]	10 / 20



E / Protective packaging

IW indicates that the bags are filmed individually. If not mentioned, bags are filmed in batches.

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