

Piedmont

ENERGY SAVING ROD TECHNICAL & COMMERCIAL DATA SHEET



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ENERGY SAVING RODS

Internal cartridge support rod



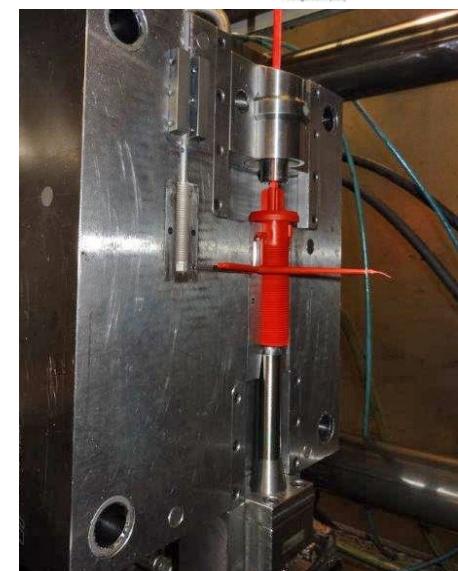
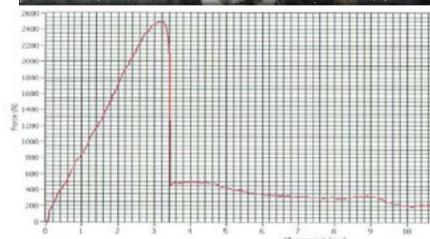
Reinforced, state of the art internal cartridges support rods compared to existing designs in the market

The ENERGY SAVING ROD is the element used to join the filter cartridges and the filter housings, through its intermediate tube sheet. These pieces submerged in seawater and under wear conditions due to mechanical and chemical fatigue, then susceptible to deterioration, requiring their replacement as a spare part.

MAIN CHARACTERISTICS

MATERIAL NORYL + FRP (fiberglass)

- 90°C Design Temperature
- High mechanical resistance (2500 N)
- High chemical resistance
- NSF/ANSI/CAN 61 Certificate
- Two years warranty

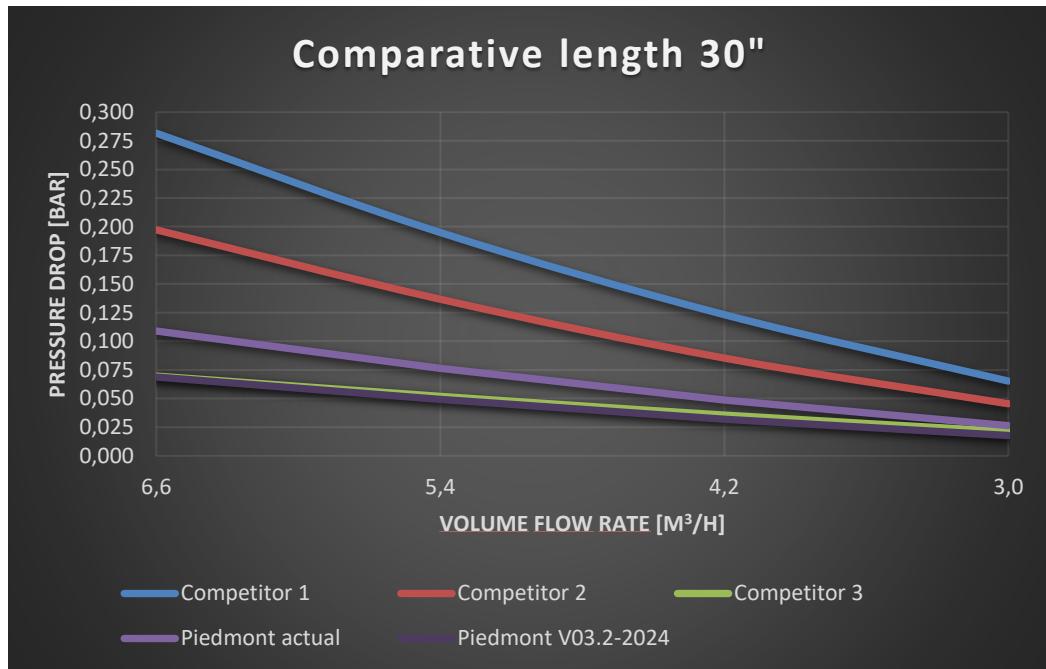


INNOVATE MANUFACTURING PROCESS

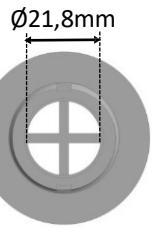
- One single piece (including the ends)
- No glue (Over injected)
- No risks of chemical attacks in joints

LESS DIFFERENTIAL PRESSURE COMPARED TO EXISTING MODELS

Comparison differential pressure curve between Piedmont and competitions.



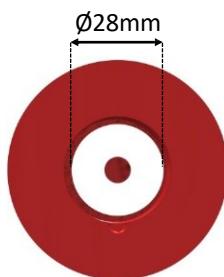
COMPETITOR 01
MINIMUM AREA
281.6 mm²



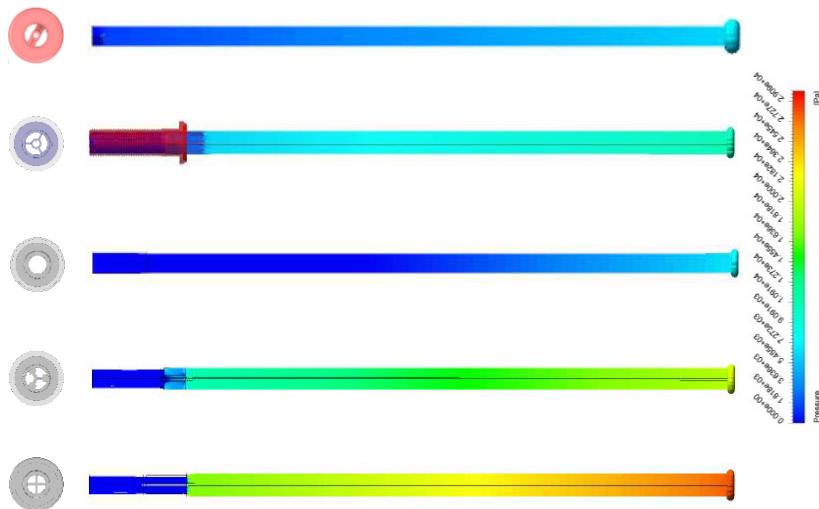
COMPETITOR 02
MINIMUM AREA
258.9 mm²



PIEDMONT
MINIMUM AREA
454.5 mm²



PIEDMONT NEW
MINIMUM AREA
525 mm²

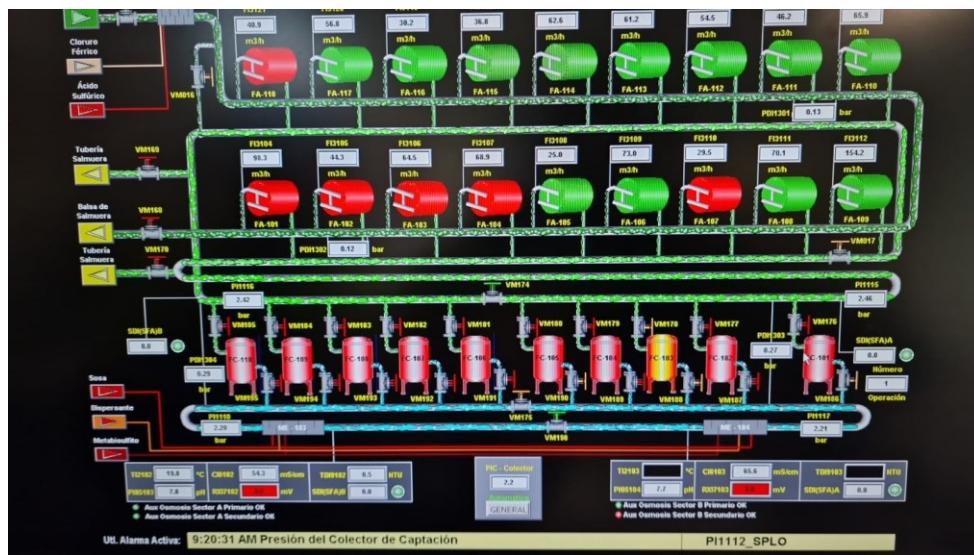
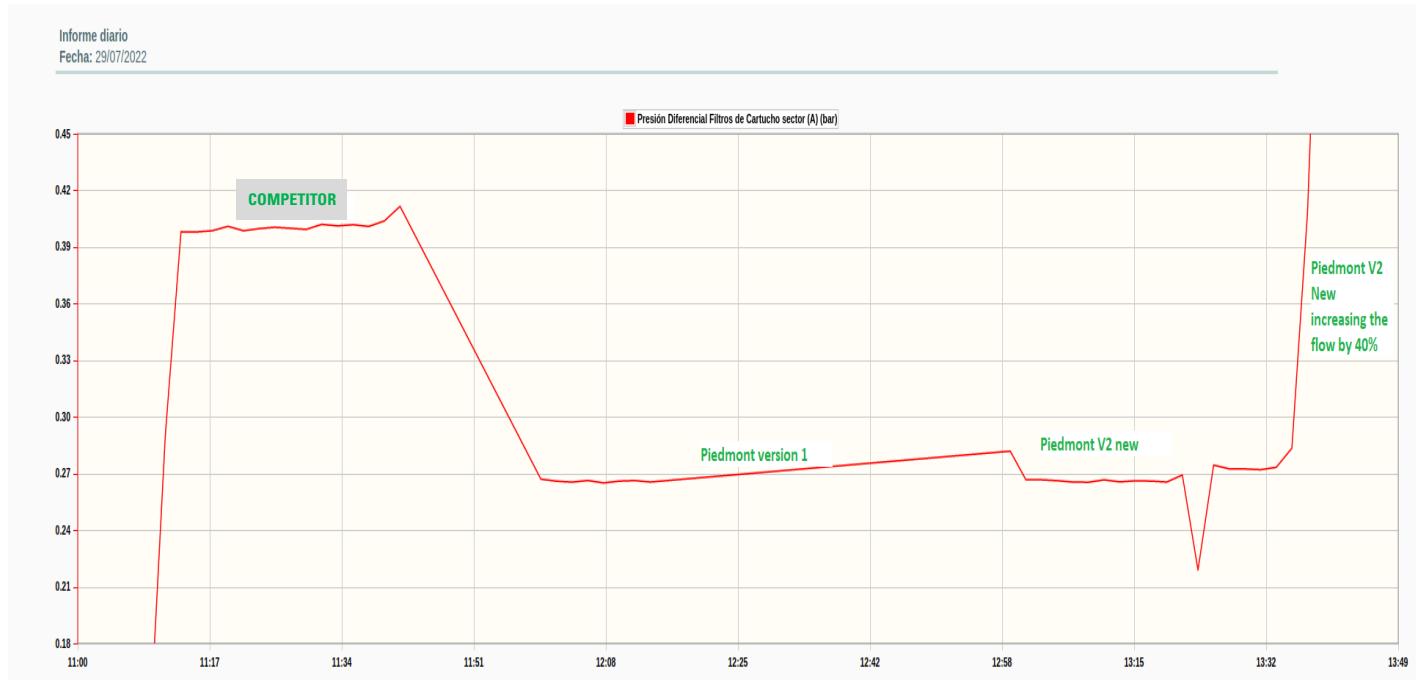


Reducing the pressure loss, allow us important Energy savings per year (Kwh) and a consequently, also an important Carbon Footprint reduction (Metric tons of Carbon dioxide equivalent)

TESTS PERFORMED IN ALICANTE III

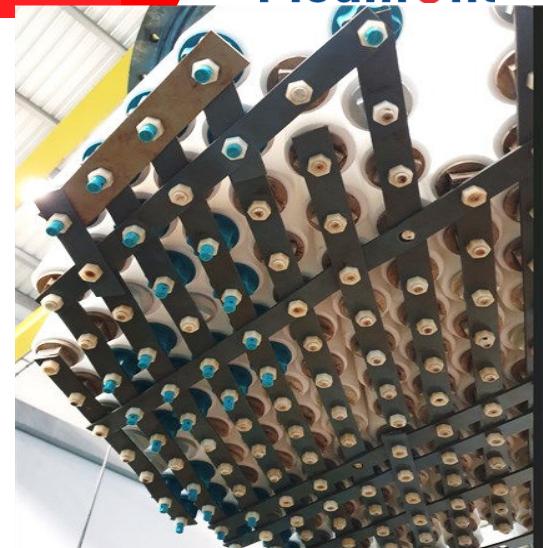
Results:

- Savings: 24,970 kWh/year per housing
- Reduced ΔP : 0.4 bar (Previous) to 0.27 bar (PIEDMONT)
- Faster cartridge replacement: From 36h to 19h due to PIEDMONT's non-gridded system

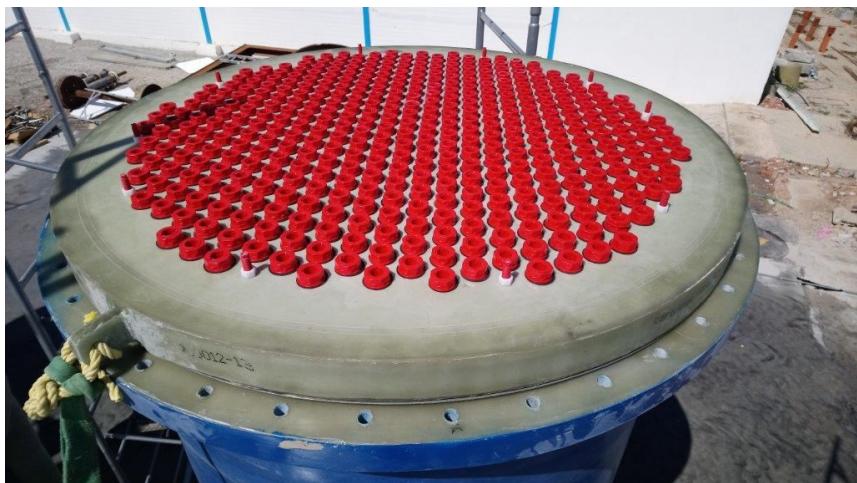


EASY ASSEMBLY-EASY MAINTENANCE

- High-speed assembly nut with ergonomic design for easy and fast cartridge replacement.
- No lattice or grating system.
- Dramatic time reduction for interchanging the cartridges.

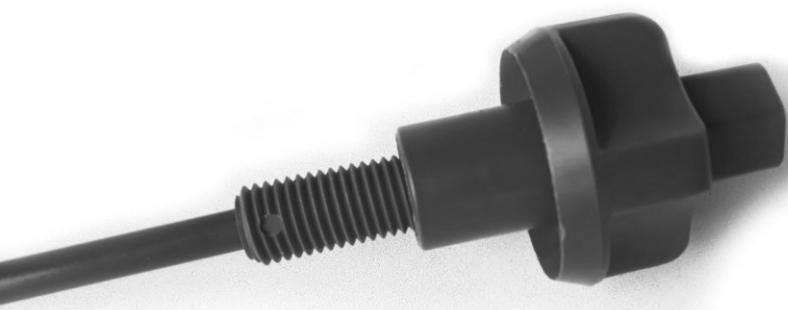


C-FRP-SRS-01-V05



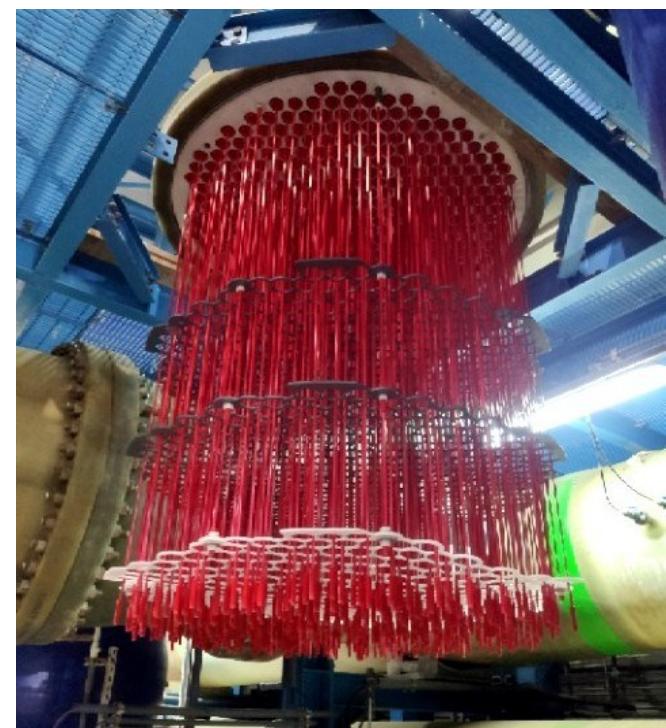
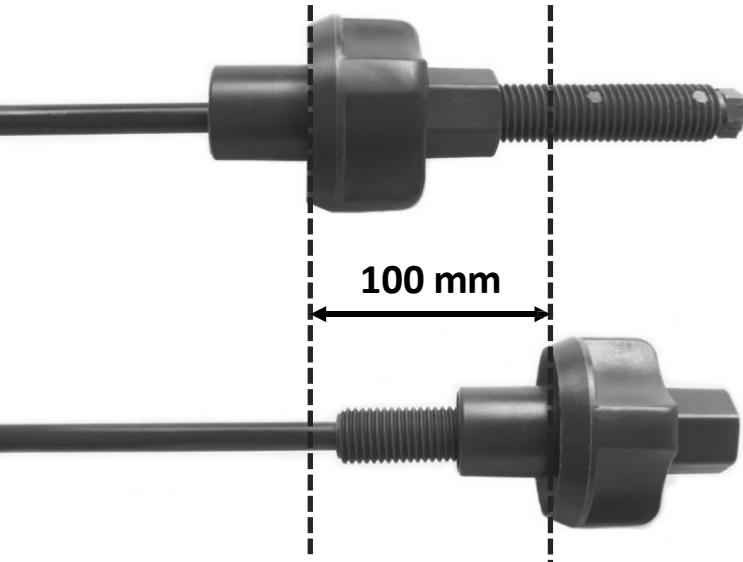
REFERENCES

- 200.000m³/day. SWRO plant.
Not a single break during the first year of operation.



HIGH VERSATILITY

- It is valid for Double Open End (DOE) cartridges (string-wound and melt-blown).
- It absorbs high cartridges length differences (up to 100 mm).



ADVANTAGES OF ENERGY SAVING ROD

- ✓ No springs are required. Easy and quick maintenance
- ✓ Possibility of using DOE elements (string-wound and melt-blown)
- ✓ High design temperature (90° C)
- ✓ One single piece without glue
- ✓ High mechanical resistance
- ✓ Low differential pressure
- ✓ No lattice or grating system
- ✓ Zero reported breaks
- ✓ It absorbs cartridge length differences up to 100 mm
- ✓ Two years warranty from delivery



CORROSION RESISTANT EQUIPMENT FOR WATERTREATMENT & DESALINATION APPLICATIONS

Piedmont

www.piedmontpacific.com



Certified to
NSF/ANSI/CAN 61

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