DO YOU LIKE TO KEEP COOL WHEN THE HEAT IS ON?

HEAT-X ROTOR

Disc heat exchanger for effective water-to-water heat transfer in laundries

- ENERGY SAVINGS IN WASHING AND DRYING/FINISHING PROCESS
- HIGH EFFICIENCY THANKS TO OPTIMAL FLOW SETTINGS
- LARGE HEAT BUFFERING CAPACITY
- MINIMAL MAINTENANCE

PASSIONATE ABOUT LAUNDRY

CHRISTEYNS
LAUNDRY TECHNOLOGY

HEAT-X ROTOR

Working principle

Heat-X Rotor is a disc heat exchanger. It consists of a rotating hollow disc section placed in a shell. Fresh water flows inside the rotating discs, while effluent water flows around the discs. For optimal efficiency, the fresh water flow is adapted to the cycle time, securing a continuous and stable fresh/waste water flow.

Energy savings

Savings in washing process

- **Heat-X Rotor** transfers the heat from effluent to fresh water, saving on average **50% on energy** usage in the wash process.
- The heated fresh water is used for warm rinsing.
- Warm rinsing increases the efficiency of the rinsing process, leading to additional **savings in water** consumption.

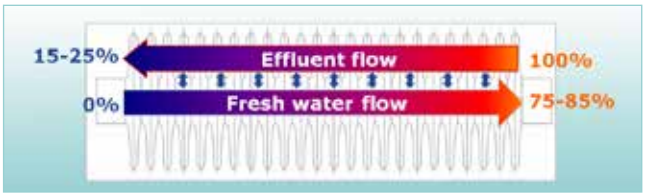
Savings in drying / finishing

- Warm rinsing increases textile temperatures and press efficiency.
  - Less moisture retention in the linen
  - Energy savings of **up to 20%** in drying and finishing
  - Increased drying capacity thanks to shorter drying time

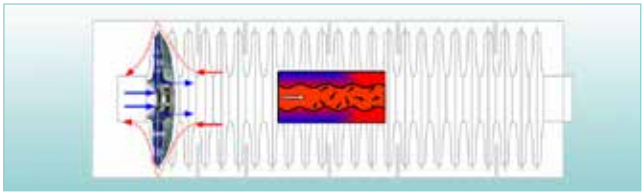
High efficiency

Heat-X Rotor is highly efficient thanks to its **optimal flow settings** :

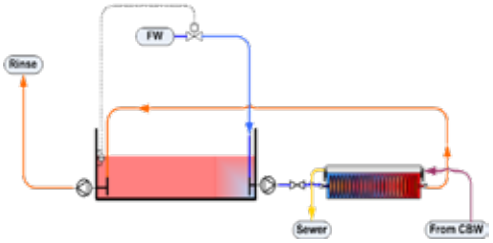
- **Counterflow** : effluent and fresh water circulate in opposite direction



- **Continuous turbulences** in the liquids, enhanced by baffle plates and disc surface design, resulting in very low fouling rate



- **Peak shaving** :
  Heat-X Rotor has a large, self regulating **buffering** capacity.
  Circulation goes through **fresh water tank** to avoid water hammer



Minimal maintenance

- Unique self-cleaning rotating discs
  - Thermal surface remains spotless
  - Possible to process highly soiled wastewater

- Low maintenance thanks to robust steel construction with limited amount of moving parts

Technical data

Model	Heat-X 10	Heat-X 18	Heat-X 24	Heat-X 35
Capacity	4 m^3/h	7 m^3/h	10 m^3/h	15 m^3/h
Length (mm)	2010	2830	3250	4000
Width (mm)	688	727	727	727
Height (mm)	968	870	870	870
Heat-X Rotor can be placed below Lint-X Rotor filter				

Advantages

- Energy savings in washing & drying process
- High efficiency thanks to optimal flow settings
- Large heat buffering capacity
- Low fouling rate thanks to turbulent flow
- Suitable for highly soiled effluent
- Minimal maintenance required

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