

A woman with dual-themed makeup and hair. Her hair is split: the left side is grey and styled in waves, while the right side is bright red and also styled in waves. Her eye makeup is split: the left eye has blue eyeshadow and blue eyeliner, while the right eye has red eyeshadow and red eyeliner. Her lips are also split: the left half is blue and the right half is red. She is holding a small flame over a small ice cube in her hand. The background is split: the left side is a vibrant blue, smoky or steamy texture, and the right side is a bright orange and yellow flame texture.

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TO KEEP COOL
WHEN THE HEAT
IS ON?



HEAT-X ENERGO

Shell-and-tube heat exchanger for effective
water-to-water heat transfer in laundries

SAVES ENERGY IN WASHING AND DRYING / FINISHING PROCESS

ALLOWS COMPLIANCE WITH WASTE WATER REGULATIONS

PLUG-AND-PLAY SYSTEM WITH EXTENSIVE MONITORING
AND CONTROL

AUTOMATIC FLOW MATCHING

PASSIONATE ABOUT LAUNDRY



CHRISTEYNS
LAUNDRY TECHNOLOGY

Working principle

Heat-X Energo is a shell-and-tube heat exchanger. It consists of a tube bundle placed in a pressurized shell. One fluid runs through the tubes and transfers heat to another fluid which flows over the tubes through the shell.

Hardware

Heat-X Energo is offered as an easy to install **plug-and-play system** with the following components :



- Heat exchanger on PE frame work
- Control box with PLC
- Temperature control sensors
- Digital flow meter (fresh water)
- Flanges, valves and piping
- Deep well level probe

Software

Main features of Heat-X Energo's PLC :

- Extended **data logging** capacities (64 MB):
temperatures, fresh water flows, alarms,
pump frequencies, profits,...
- Enhanced **flow matching** control
- UTP + USB connection



Energy savings

Savings in washing process

- **Heat-X Energo** transfers the heat from effluent to fresh water, saving on average **50% on energy** usage in washing 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

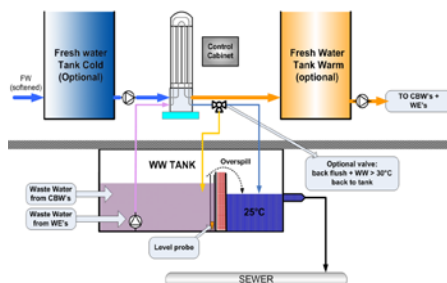


Compliance with waste water regulations

Heat-X Energo can be applied **end-of-pipe for reduction of waste water temperatures**. This allows laundries to stay in line with legal requirements on maximum effluent temperatures.

Efficient heat transfer

Heat-X Energo is highly efficient as a result of its optimal flow settings : a countercurrent, turbulent flow combined with **flow matching control** thanks to smart software.



- Low pressure drops
- Not sensitive to water hammer

Minimal maintenance



Heat-X Energo has a low fouling rate and requires little maintenance.

- Automatic back flush interval to prevent blockages (60" every 40 minutes)
- Periodical cleaning is advised every 4000 production hours

Technical data

Model	V5	V10	V20	V30
Design flow	5 m³/h	9,4 m³/h	14 m³/h	25,6 m³/h
Max flow	8 m³/h	14 m³/h	21 m³/h	38 m³/h
Heat transfer	9,8 m²	16,8 m²	26,3 m²	47,4 m²
Weight (kg)	450	500	550	600
Height (mm)	2200	2250	2300	2400
Width (mm)	510	630	650	700

Main advantages

- Energy savings in washing and drying process
- Allows compliance with waste water regulations
- Extended monitoring and control via PLC
- Efficient heat transfer, combined with automatic flow matching principle
- Plug-and-play system, easy to install