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

HEAT-X AIR

Range of heat exchangers for effective air-to-water heat transfer reclaiming energy from laundry finishing equipment

- SAVING WATER AND ENERGY IN THE LAUNDRY PRODUCTION PROCESS
- ENABLING WARM RINSING, WHICH SHORTENS THE DRYING PROCESS
- NO INFLUENCE ON THE PROPER FUNCTIONING OF THE IRONER

PASSIONATE ABOUT LAUNDRY

CHRISTEYNS
LAUNDRY TECHNOLOGY

HEAT-X AIR

Introduction

Heat-X Air is a range of air-to-water heat exchangers for industrial laundries, used to transfer free energy from ironers to the washing process. Heat-X Air recovers both the sensible and latent heat from the ironers. It is a plug-and-play system, complementary to existing heat exchange technologies.
Christeyns offers two types :

Heat-X Air E

- **For both steam and gas ironers**
- **Using Exhaust air**
- **Single ironer solution**

Heat-X Air C

- **Only for gas ironers**
- **Using Combustion gases**
- **Single ironer solution**

Water & Energy savings

Savings in washing process

- **Heat-X Air** can reclaim up to 35% of the ironer energy input
- **Heat-X Air** transfers the heat from ironers to fresh water, allowing significant energy savings in the 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.

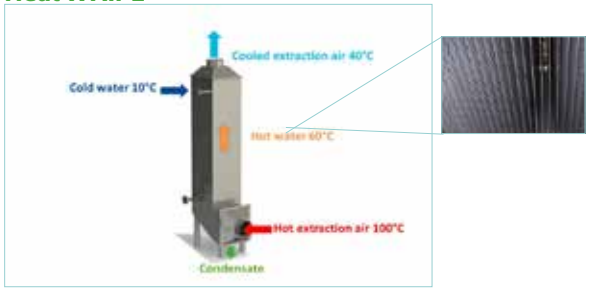
- Less moisture retention in the linen
- Energy savings of **up to 20%** in drying and finishing
- Increased drying capacity thanks to shorter drying time

Indirect heating principle

Heat-X Air is an indirect heating system. As there is no build-up of counterpressure, it is a very sustainable solution that does not influence the proper functioning of the ironer and hence has no negative effect on the ironer's efficiency and output quality.

Working principle

Heat-X Air E



- Pillow plate sections are vertically placed in a shell
- Extracted air from ironer (90°-110°C) flows around plates
- Fresh water passes in counterflow direction in insulated circulation line and is heated to 45-65°C
- Extracted air is cooled below Dew point T (50°C) and condensates
- Lint and wax are trapped away via the condensated water

Heat-X Air C

- Fin tubes placed vertically in a shell
- Flue gases from gas ironer (200°-250°C) are conveyed into heat exchanger and flow around the fin tubes
- Fresh water passes in counterflow direction in insulated circulation line and is heated to +/- 60°C
- Flue gases are cooled below Dew point T (40°C) and condensate
- Condensated water is drained

Technical data

Model	Heat-X Air E 17	Heat-X Air E 27	Heat-X Air C
Max. output	70 kW	100 kW	100 kW
Height	1733 mm	1733 mm	1294 mm
Width	615 mm	835 mm	986 mm
Length/depth	3248 mm	3085 mm	1103 mm
Weight (full)	650 kg	875 kg	435 kg

Main advantages

- Energy savings in washing and drying process
- Sustainable solution - indirect heating principle
- Plug-and-play system, easy to install/integrate

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