



no pollution Industrial Systems Ltd.

heading silently towards zero emissions

Cardboard Industry - Water Loop Heat Recovery System

A large cardboard manufacturing plant in the east of France had a very unfavourable internal air balance, with a Corrugating Ward too hot even in the winter season, despite no heating system installed, and a Converting Ward too cold, despite the many heating coils installed.

The distance between the two wards, and the construction of the plant, made a standard air-to-air heat recovery system impractical. Large air ducts would have been costly and the drop in temperature of the air would have greatly reduced the overall efficiency of the system.

A water based recovery system was designed and installed, to transfer the excessive heat from the corrugating ward and supply it to the converting ward.

The supply of additional warm air, taken from outside the plant, greatly improved the air balance in the factory and contributed to significantly reducing the winter heating bill.



The system can also be used in summer to increase the ventilation of the converting ward, simply by shutting off the water circulation, bypassing the recovery.

- **Water based system, with no cross contamination between the two flows and higher efficiency over a greater distance**
- **Better air balance inside the plant, with less cold drafts**
- **Possibility to divert part of the energy elsewhere**
- **Net reduction of Winter Heating Costs**

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