

The logo for ENJAY, featuring the word in a bold, black, sans-serif font. The 'E' is stylized with three horizontal bars. A thin vertical line is positioned to the right of the logo.

# RECOVER EXCESS HEAT IN ALL TYPES OF VENTILATION

Unlock the full potential of energy recovery



## Enjay Systems

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### Get In Touch

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### Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard,  
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# INTRODUCTION



## Wasting energy is no longer an option

Enjay is a Swedish Greentech company founded in 2018 by Jesper Wirén and Nils Lekeberg. The two founders have over 50 years of experience in HVAC and they decided to solve the industry's major challenge, to recapture energy from excess heat in the air streams that prevail in millions of punishing environments in process ventilation.



They ventured to develop a new generation of industrial heat exchangers that could co-exist with the polluted air streams in processes ranging from commercial kitchens to industrial laundries, from snacks production to heavy industrial welding and from grain dryers to lacquer boxes.



**Startup4Climate**  
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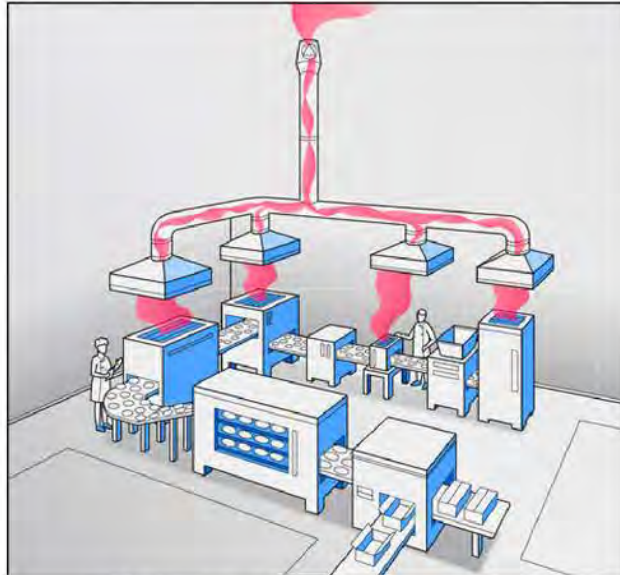
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## WHAT DO WE DO?

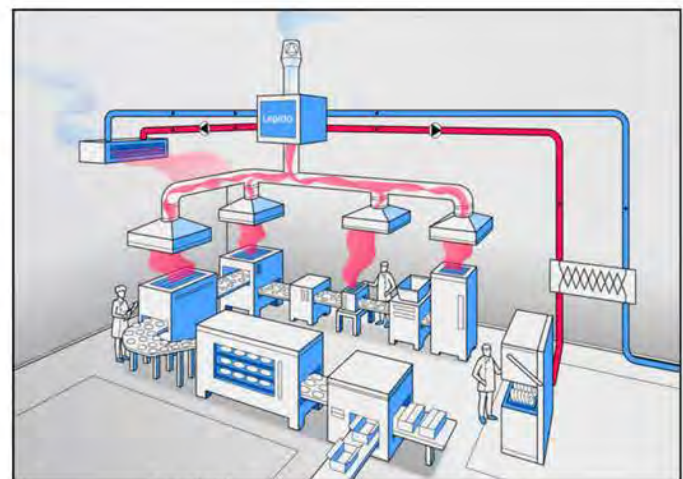


Without energy recovery

In all buildings where there is an ongoing process, **the air gets polluted and is ventilated out of the building via process ventilation.** Due to the pollutants in the exhaust air, this hot air is currently being ventilated without any energy recovery. This is because traditional heat exchangers are not able to cope with pollutants.

**The result is a massive waste of energy/money/CO<sub>2</sub>**

Our technology can be used to **recapture excess heat in all types of process ventilation.** Thanks to our patented design, pollutants in the exhaust air is no longer a problem when it comes to energy recovery.



With energy recovery

Examples of segments, now able to recover energy from their ventilation by using our technology

- Restaurant ventilation (grease and soot)
- Industrial laundries (lint and moisture)
- Polymer factories (particles)
- Food production (grease and moisture)
- Wood dryers (particles)
- Crop dryers (particles)
- Painting (particles)

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## HOW DO WE DO IT?



Lepido - the industrial staggered tube heat exchanger with a refined design to operate effectively in punishing process ventilation environments.

Lepido is the first iteration of a new generation of heat exchangers, designed to unlock the recovery of excess heat from processes where conventional heat exchangers clog and fail.

The patented design creates a balance between heat transfer effectiveness, pressure drop in air and liquid side and minimizes the specific fan and pump power required to run these systems.




A Lepido installed at the rooftop of a fast food restaurant



A Lepido installed at the rooftop of an industrial laundry.



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## WHY YOU SHOULD DO IT?

As the air in the process ventilation maintains a high temperature and air flow, there is a lot of energy/money/CO<sub>2</sub> to recover. The recovered heat can be used to heat replacement air, or returned to the process itself by preheating liquid/air.

### CLIENT CASES

<p>FOOD PRODUCTION</p>  <p>Lantmännen</p>	<p>Type of unit: Food production Location: Sweden Operating hours: 20h/day Air flow exhaust air: 9,7m<sup>3</sup>/s Temp. exhaust air: 40°C Lepido effect: 288 kW Energy recovery: 614.900 kWh/year</p> <p>Monetary savings: €33.300/year Decrease CO<sub>2</sub>: 50 tonnes/year</p>
<p>INDUSTRIAL LAUNDRY</p> 	<p>Type of unit: Industrial laundry Location: Netherlands Operating hours: 16h/day Air flow exhaust air: 2 x 0,6m<sup>3</sup>/s Temp. exhaust air: 75°C Lepido effect: 2 x 27 kW Energy recovery: 240.000 kWh/year</p> <p>Monetary savings: €13.000/year Decrease CO<sub>2</sub>: 60 tonnes/year</p>
<p>FAST FOOD</p> 	<p>Type of unit: Fast food restaurant Location: UK Operating hours: 16h/day Air flow exhaust air: 1,2m<sup>3</sup>/s Temp. exhaust air: 34°C Lepido effect: 33 kW Energy recovery: 54.600 kWh/year</p> <p>Monetary savings: €2.990/year Decrease CO<sub>2</sub>: 13,65 tonnes/year</p>

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# Wasting energy is no longer an option

Our technology is used by leading players in ten markets to recover energy that would otherwise have gone to waste.

Reuse the energy you already paid for.





For any questions or enquiries, please contact us:

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