

Particle- Repellant Heat Recovery Coil



Enables energy recovery in particle-laden industrial exhaust air

Lepido by Enjay

Our particle-repellant heat recovery coil ensures efficient energy recovery in particle-laden industrial exhaust air. Designed to handle dirty air environments, particles pass through without adhering, providing reliable and consistent heat recovery across diverse applications.

This innovation opens up the possibility of heat recovery in areas where it was previously considered impossible.





How it operates

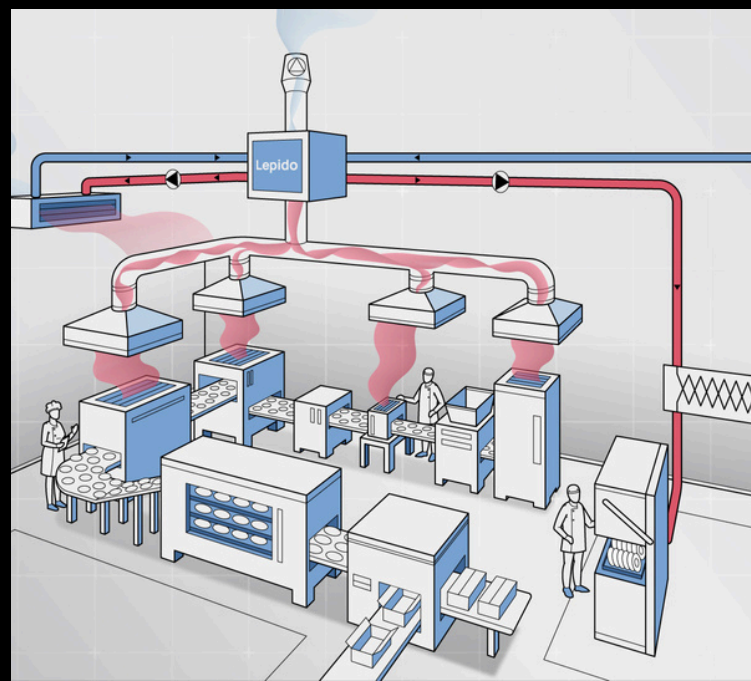
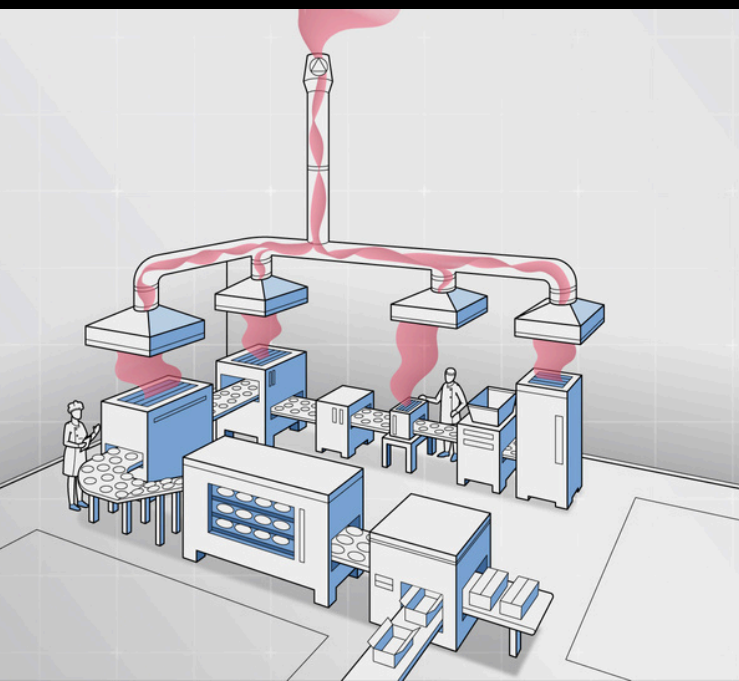
The patented configuration of the tubes creates an airflow where particles travel with the air through the recovery unit without getting stuck. This enables heat recovery in all environments where the ventilation air has been contaminated with particles.





Industrial exhaust air

In all buildings with ongoing industrial or commercial processes, the air inevitably becomes polluted and is ventilated out through process ventilation systems. Our technology enables the recovery of heat from this dirty air. The recovered heat can be used to warm the premises or to heat air/water used in the process. This way, energy consumption is reduced, resulting in economic savings and decreased fossil carbon dioxide emissions.



Examples of usage

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Particle-laden industrial exhaust air is present in many different operational areas. Here are some examples where our technology can be used to recover energy:

- Commercial Kitchens: Recapturing heat from exhaust hoods to reduce energy consumption and operational costs.
- Industrial Laundries: Harnessing waste heat from dryers to preheat incoming water, enhancing efficiency.
- Snacks Production: Recovering heat from ovens and fryers to lower energy usage and improve sustainability.
- Heavy Industrial Welding: Utilizing heat from welding processes to maintain optimal temperatures, reducing overall energy demand.
- Grain Dryers: Reusing hot air from drying processes to improve energy efficiency and cut costs.
- Lacquer Boxes: Capturing heat from painting and coating operations to save energy and reduce emissions.

CLIENT CASES

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INDUSTRIAL LAUNDRY



Type of unit:	Industrial laundry
Location:	Netherlands
Operating hours:	16h/day
Air flow exhaust air:	2 x 0,6m ³ /s
Temp. exhaust air:	75°C
Lepido effect:	2 x 27 kW
Energy recovery:	240.000 kWh/year
Monetary savings:	€13.000/year
Decrease CO ₂ :	60 tonnes /year

FAST FOOD

PRODUCT CODE: #1234567



Type of unit:	Fast food restaurant
Location:	UK
Operating hours:	16h/day
Air flow exhaust air:	1,2m ³ /s
Temp. exhaust air:	34°C
Lepido effect:	33 kW
Energy recovery	54.600 kWh/year
Monetary savings:	€2.990/year
Decrease CO ₂ :	13,65 tonnes/year

FOOD PRODUCTION



Type of unit:	Food production
Location:	Nordics
Operating hours:	20H/day
Air flow exhaust air:	9,7m ³ /s
Temp. exhaust air:	40°C
Lepido effect:	288 kW
Energy recovery	614.90000 kWh/year
Monetary savings:	€33.300/year
Decrease CO ₂ :	50 tonnes/year

Enjay Systems

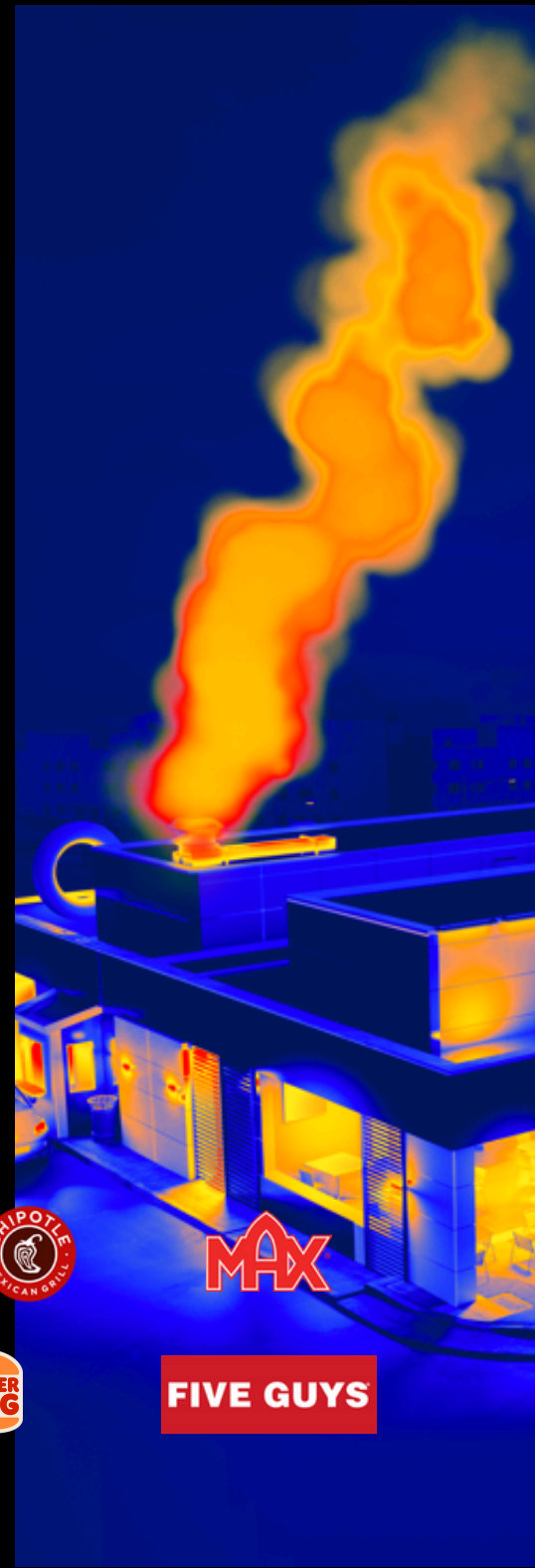
Contact Information

📍 Derbyvägen 20, 212 35, Malmö Sweden

☎ +46 4012 33 30

🌐 www.enjaysystems.com

@ enquiries@enjaysystems.com

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