

ENERGY OF THE FUTURE IS ALREADY HERE.

www.recuperator.eu
www.RecuperatorUSA.com



THE MAIN SOURCE OF ALTERNATIVE ENERGY IS ENERGY SAVING, AND HEAT RECOVERY IS ONE OF THE SIMPLEST, IMMEDIATE AND CONVENIENT METHODS.

Recuperator designs and manufactures plate and rotary heat exchangers, the "core" of any heat recovery system. The high efficiency allows a drastic reduction of energy consumption and air pollution.

Incorporating heat recovery into new and retrofit projects is a duty of all of us in this environmentally aware age.

Heat exchangers specs:

- › Air flow up to 100,000 m³/h (60,000 cfm); Efficiency over 80%.
- › Low pressure drops
- › Different materials availability
- › Low installation and running costs, minimal maintenance

Selection programs

Rex selection program and its DLL, personalised for each customer, are essential tools for both performance and price calculations.

They are always accurate and automatically updated on-line.



 MADE IN ITALY

 40 YEARS
RECUPERATOR
SINCE 1973

RECUPERATOR THE HEAT EXCHANGER



APPLICATIONS



AIR CONDITIONING AND VENTILATION

Pre-heating and pre-cooling in the air handling units



SCHOOLS

Heat recovery for air replacement in classrooms



HOSPITALS

Heat recovery from the exhaust air without mixing of the two air streams



MALLS

Heat recovery for the air conditioning of the space



THEATRES

Heat recovery for the air conditioning of the space



HEAT RECOVERY FROM FLUE GASES

Air pre-heating at burner intake



TELEPHONE

Heat sink into Shelters and Cabinets of mobile telephone industry



ROTOGRAVURE PRINTING MACHINES

Heat recovery from solvent process and ambient heating



SMOKE HOOD

Heat recovery from smoke and gas for industrial kitchens



MUSEUMS

Heat recovery for the air conditioning of the space



RAILWAY INDUSTRY

Heat sink into Converters of air conditioning systems of train cars



SPRAY BOOTHS

Pre-heating and pre-cooling in the spray booths



SWIMMING POOLS

Pre-heating and pre-cooling in the air handling units



CRUISE SHIP

Recovery of sensible and latent heat for air conditioning



ARENAS

Heat recovery for the air conditioning of the space



DRYERS

Air dryers pre-heating and ambient heating purposes



PASSIVE HOUSES

Heat recovery on very low energy consumption houses



MEDICAL

Pre-cooling of the electromedical equipment



AGRICULTURE

Heat recovery for the air conditioning of livestock shelters



PHARMACEUTICAL INDUSTRY

Heat recovery from the exhaust air without mixing of the two air streams



HOTEL

Heat recovery for the air conditioning of the space



SMOKING AREAS

Heat recovery of refresh air in smoking areas



OFFSHORE

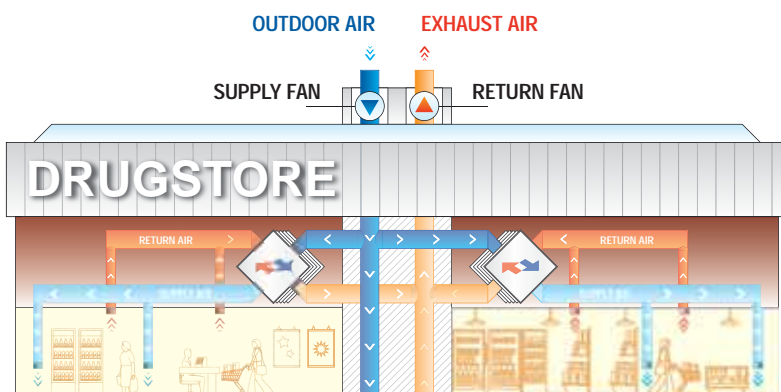
Heat recovery on oil platforms and heat sink into wind turbines



DATA CENTER

Indirect evaporative cooling for Data Center

FOR EXAMPLE, IN A DRUGSTORE...



The air quality in a building is one of the main factors for internal comfort. The air must be continuously changed to maintain safe conditions.

This process wastes energy, which can be recovered by installing a plate heat exchanger.

Let's examine a drugstore with an area of 1235 m² (13,000 sf), and an average density of 310 people. To change the air, 10,000 m³/h (6,000 cfm) of fresh air, is needed.

The example shows a system with our air to air plate heat exchanger:

› **Model**
FI AL 09 N 1400 M 1 AE SM

› **Class of heat recovery H3**
(according to EN 13053)

› **Total year saving:**
Euro 2,632 (US\$ 3,579)

PAY-BACK OF THE INVESTMENT: ABOUT 9 MONTHS