ENESCO industrial

Industrial Energy Efficiency Services & Combustions Optimizations

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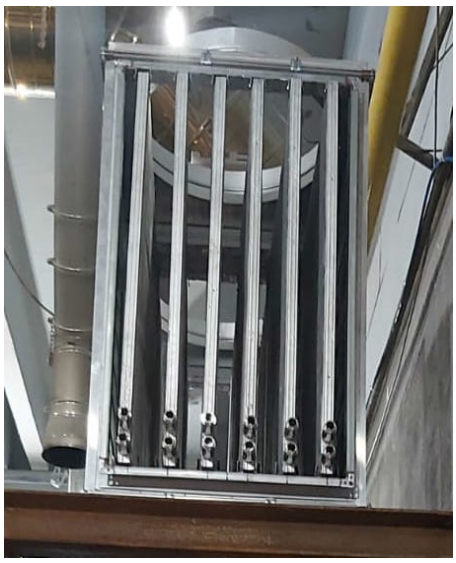
APPLICATION EXAMPLES

TERMOREK heat recovery unit – installation in aluminum melting furnaces

Before installation



During Installation

After installation

The heat recovery unit is made of two recovery modules and provides a total heat exchange surface of **19.2 m^2** and an average recovered thermal power of **200 Kw**.

The recovery unit was mounted on the common piping that collects gases from 4 aluminium melting furnaces, with average annual operating hours of approx. **8000 h/year**. The recovered heat is used for hot water preparation and space heating.

Under these conditions, the heat recovery unit produces/save:

200 KW x 8000 h/an = 1600000 KWh/an = **137,6 TEP/an**

1600000 KWh/an x 0,3 RON/KWh = **480000 RON/an**

480000 RON/an : 5 RON/EURO = **96000 EURO/an**

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TERMOREK heat recovery unit – installation on an industrial tunnel oven

Before installation

During Installation

After installation

The heat recovery unit from the tunnel kiln provides a heat exchange surface of **6.4 m^2** and an average recovered thermal power of **65 Kw**.

The kiln to which the heat recovery unit was installed has average annual operating hours of approx. **8400 h/year**. The recovered heat is used for hot water preparation, in two different locations, independent from the point of view of hydraulic circuits.

Under these conditions, the heat recovery unit produces/save:

65 KW x 8400 h/an = 546000 KWh/an = **47 TEP/an**

546000 KWh/an x 0,3 RON/KWh = **163800 RON/an**

163800 RON/an : 5 RON/EURO = **32760 EURO/an**

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TERMOREK heat recovery unit – installation on an industrial steam boiler

Before installation

During Installation

After installation

The heat recovery unit from the steam boiler provides a heat exchange surface of **9.6 m^2** and a recovered thermal power of approx. **110 Kw**. Thermometers were installed at the flue gas inlet and outlet of this device and, when the boiler is operating at **80 %**, the flue gases enter the recovery unit at **160 ^{0}C** and exit at **120 ^{0}C**. The length of the flue gas path through the recovery unit is **1.2 m**.

For average annual operating hours of **7000 h/year**, the heat recovery unit produces/save

110 KW x 7000 h/an = 770000 KWh/an = **66 TEP/an**

770000 KWh/an x 0,3 RON/KWh = **231000 RON/an**

231000 RON/an : 5 RON/EURO = **46200 EURO/an**

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TERMOREK heat recovery unit – installation on an industrial furnace

The heat recovery unit provides a heat exchange surface of **2.6 m^2** and an average recovered thermal power of **30 Kw**.

The furnace to which the recovery unit was installed has average annual operating hours of approx. **4000 h/year**. The recovered heat is used to heat two **2000 l** acid solution tanks and maintain the solution at a temperature of **50 ^{0}C**.

Under these conditions, the heat recovery unit produces/saves

30 KW x 4000 h/an = 120000 KWh/an = **10 TEP/an**

120000 KWh/an x 0,3 RON/KWh = **36000 RON/an**

36000 RON/an : 5 RON/EURO = **7200 EURO/an**

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TERMOREK heat recovery units – installation on industrial hot water boilers

The heat recovery unit provides a heat exchange surface of **3.0 m^2** and an average recovered thermal power of **35 Kw**.

The hot water boiler to which the heat recovery unit was installed has average annual operating hours of approx. **5000 h/year**. The recovered heat is used to preheat the boiler return, thus contributing to reducing fuel consumption.

Under these conditions, the heat recovery unit produces/saves

35 KW x 5000 h/an = 175000 KWh/an = **15 TEP/an**

175000 KWh/an x 0,3 RON/KWh = **52500 RON/an**

52500 RON/an x 4,7 RON/EURO = **10500 EURO/an**

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