

CASE STUDY : COMBUSTION AIR PREHEATER (RECUPERATOR)



Client : KOROZO AMBALAJ A.S.

Project Discription : ENEVA has engineered, installed and commissioned a combustion air preheating system using recuperator and special burner for a 1.75 MW_{th} thermal oil boiler to increase operation efficiency by %7. Flue gas temperature of boiler decreased to 134 °C from 280 °C, while combustion air temperature increased to 190 °C from ambient temperature.

Heat Recovery : 118 kW_{th}

Annual Natural Gas Saving : 95.000 Sm³

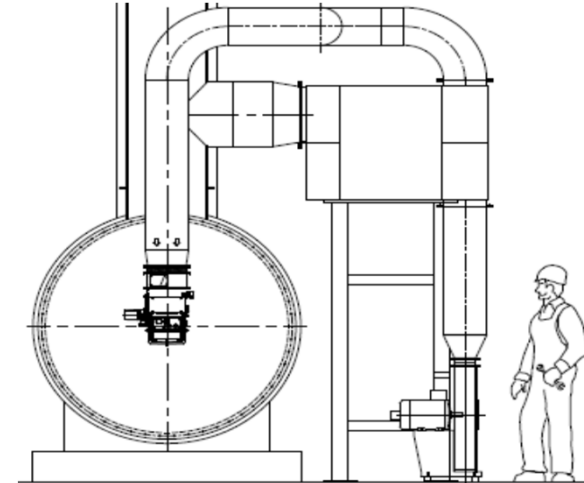
Annual Saving : € 16.000

Annual CO₂ Reduction : 180 tons

Typical Return on Investment : < 4 years

Project Duration : 3 months

Commissioning Date : 10/2020



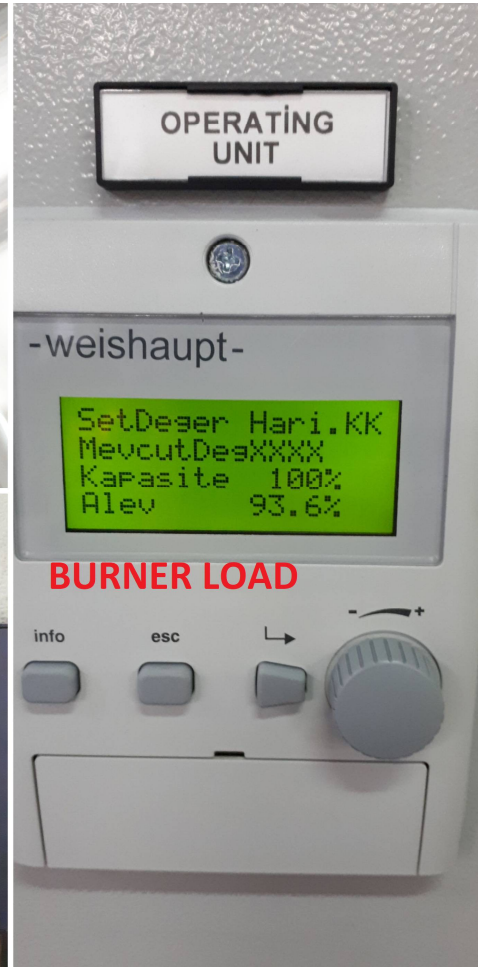
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RECUP. SMOKE OUTLET



RECUP. SMOKE INLET



BURNER LOAD

eneva Energy Engineering		ENEVA ENERJİ SİSTEMLERİ MUHENDİSLİK SANAYİ VE TİCARET LİMİTED SİRKETİ Address : Yakuplu Mah., Hurriyet Blv., Skyport Sit. No: 1/64, PK: 34520 Beylikduzu / İSTANBUL / TÜRKİYE Tel : +90 (212) 982 46 14 e-mail : info@enevaenerji.com.tr Web : www.enevaenerji.com.tr	
CUSTOMER : KOROZO AMBALAJ SAN. TIC. A.Ş.		AIR PREHEATER RECUPERATOR	
PRODUCT		AIR PREHEATER RECUPERATOR	
TYPE		REK-TO1500	
SERIAL NO		2020/12	
PRODUCTION YEAR		2020	
NOMINAL THERMAL CAPACITY		118	kW
DESIGN CODE		N/A	
FLUID (SHELL & TUBE)		AIR & FLUE GAS	
DESIGN TEMPERATURE (SHELL & TUBE)		250 & 320	°C
DESIGN PRESSURE (SHELL & TUBE)		N/A & N/A	BARG
TEST PRESSURE (SHELL & TUBE)		N/A & N/A	BARG
SAFETY VALVE SET PRESSURE		N/A & N/A	BARG
DATE OF PRESSURE TEST		N/A	
SHIPPING WEIGHT		2.200	kg