MODULAR PANEL HEAT REGENERATORS FOR GLASS FURNACES



Heat recovery plant with TVM regenerator installed behind the furnace No. 3 of Hostomel Glassworks in Kyiv Oblast

Areas of Application

The devices are designed to raise efficiency of glass furnace fuel due to recovery of exhaust gas heat for warming water for heat-supply systems

Specification

Heat capacity, MW	0.15 - 3.5
Water temperature at inlet, °C	70
Temperature of exhaust gases	
at outlet, °C	150 - 250
Consumption of exhaust gases,	
kg/sec	1.0 - 3.5
Aerodynamic resistance, Pa	300 - 600
Hydraulic resistance, kPa	5 - 30
Dimensions, mm:	
height	1500 - 4500
length	1700 - 3500
width	1300 - 2500
Payback period, months	3-6

Advantages

Increase in fuel factor by 10 – 30%; decrease in intensity of dust generation; effective cleaning of working surfaces

Stage of Development. Suggestions for Commercialization

IRL8, TRL5
Design of heat recovery plants
and organization of commercial production

IPR Protection

IPR1, IPR2

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