

Continuous-operation installation for thermal biomass processing comprises furnace housing with working chamber located inside housing, which has heat transfer channels and feed channels interconnected in the direction of heat transfer, wherein raw material channels are located between the heat transfer fluid channels, and each adjacent heat transfer fluid channel and raw material channel share a common heat-conducting wall. Channels for supplying air to heat transfer fluid channels are connected to heat transfer fluid channels, wherein at the outlet of each heat transfer fluid channel, device for regulating the heat transfer fluid flow is installed, designed to allow for changing the flow capacity of heat transfer fluid channel outlet. In each duct for supplying air to heat transfer fluid duct, device for regulating the air flow is installed, designed to allow changing the flow capacity of air supply duct to heat transfer fluid duct. In front of each device for regulating heat transfer fluid flow in each heat transfer fluid duct, sensor for measuring heat transfer fluid temperature is installed, wherein installation contains automated control system for each heat transfer fluid flow control device and each air flow control device in air supply duct to heat transfer fluid duct, based on the temperature measured by corresponding heat transfer fluid temperature sensor.