

ASPECTS REGARDING THE THERMO-DYNAMICS IRREVERSIBILITY OF THE STEAM FLOW IN THE ROWS OF BLADES HAVING TIES

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ABSTRACT

Obviously, the condensing boilers utilize the ultimate technology in the gas-fired boilers field. In order to exploit entirely the benefits of these boilers, their flue gases must be released on low temperatures. In these conditions, condensing boilers came as the optimum thermal power source for pavement heating systems, which require low temperatures of the thermal agent. As long pavement heating system is more and more used, any condensing boiler must cope with requirements imposed by this new heating system type, which implies to upgrade the power adjustment system.

The paper presents the testing procedure, results of the tests and solution adopted for the power adjustment system upgrade in the case of a 24 kW gas-fired condensing boiler.

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