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Dept. of Mech. EngTMg, Dalhousie Univ. V.I.Ugursal MECH3805, Supp. Notes on Steam Power Plants Pg 4 of 39 It can be concluded from this brief review that the steam cycle heat rate depends on the thermodynamic efficiencies of the components and the overall design of the steam cycle; therefore, it is not affected by

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flow). The steam pressure limit is based on the fact that when the steam pressure in the boiler rises, thicker fire tubes and chambers are needed – thus the price of the boiler rises. As a result of this, boiler types where water/steam mixture is inside the tubes have lower prices for the same steam capacity and pressure.

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