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Sirota A.A., Radchenko А.N., Konovalov D.V., Radchenko

N.I. Waste heat recovery systems for cooling of cyclic air of marine ICE // Internal combustion engines.

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The effectiveness of cyclic air cooling of marine

diesels by ejector refrigeration machine, recovering the

heat of exhaust gases was analyzed. The characteristics

of waste heat recovery system for air cooling were calculated:

such as specific heat loads on the steam generator

of low-boiling and high pressure working fluid, the

evaporator-air cooler, decrease of the air temperature at

the inlet of diesels. It was shown, that the application of

ejector air cooling machine provides reducing the temperature

of cyclic air by 20…40 ºC and increasing the

efficiency of marine diesel by 1…2 %. The schemes of

waste heat recovery systems for air cooling are proposed.

Il. 3. Bibliogr. 3 names.