**UDC 621.577**

**Radchenko R.N. The use of the heat of exhaust gases for precooling of air in marine ICEs // Internal combustion engines.**

**– 2008. – №1. – P.110-114.**

**The effectiveness of precooling of air at the inlet of**

**marine ICE by refrigeration machine, recovering the heat of**

**exhaust gases has been analyzed. The characteristics of waste**

**heat recovery system for precooling of air: specific heat loads**

**on the generator of high pressure refrigerant vapour,**

**evaporator-air cooler, heat coefficient, decrease in the**

**temperature of air at the inlet of ICE were calculated. It was**

**shown, that the application of ejector waste heat recovery**

**system for precooling of air provides reducing the temperature**

**of air at the inlet of turbocompressor by 20…30 ºC and**

**increasing the efficiency of marine ICE by 1…2 %. The**

**schemes of systems for precooling of air are proposed. Il. 3.**

**Bibliogr. 3 names.**