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Krajniuk A.I., Krajniuk A.A., Bryantsev M.A., Kashuba

V. I. Simulation model of a gas refrigerator with cascade pressure exchanger // Internal combustion

engines. – 2008. – № 2. – P. 26-31.

Now development of cryogenic techniques of separation,

clearing and a liquefaction of oil and natural

gases, extraction of hydrocarbons from dumps, mine and

biological gases, alongside with globalization of manufacture

of food stuffs, integration of the markets of animal

industries and seafoods generate growing necessity

of powerful installations of soft cooling. In this connection

interest to use of the air refrigerating machineries

having a more potential of soft cooling without use of

low-boiling working bodies, prohibited to use by the

decision of the Montreal meeting is restored. In the article

the opportunity of heightening of efficiency of air

refrigerating machines by use of a cascade exchanger of

pressure as detander-compressor, and also the basic aggregate

of compression are considered. Basic schemes of

air refrigerating machines with a cascade exchanger of

pressure are considered. Tabl. 2. Il. 4. Bibliogr. 2

names.