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Development of a circulating system for a jet refrigeration cycle

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Author(s): [Srisastra P](#) (Srisastra, Passakorn)¹, [Aphornratana S](#) (Aphornratana, Satha)¹, [Sriveerakul T](#) (Sriveerakul, Thanarath)²

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Abstract: This paper proposed a workless-generator-feeding (WGF) system for a jet refrigeration cycle, using R141b. This feeding system does not require any mechanical power. The liquid refrigerant from the condenser was fed to the vapour-generator by means of the generator pressure and gravitational force. The system was tested and compared with a conventional system using a mechanical pump. It was found that this system was workable. The heat input to the generator was slightly higher than that for a system using a mechanical pump. The jet refrigeration cycle employing this new feeding system provided a slightly lower coefficient of performance (COP) compared to a system using a mechanical pump. However, this new system did not require any mechanical energy. Therefore, the jet refrigeration system employing this WGF system is truly a heat-power refrigeration cycle. (C) 2007 Elsevier Ltd and IIR. All rights reserved.

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Reprint Address: Aphornratana, S (reprint author), Thammasat Univ, Mech Engn Program, Sirindhorn Int Inst Technol, POB 22, Thammasat Rangsit PO, Pathum Thani 12121, Thailand

Addresses:

1. Thammasat Univ, Mech Engn Program, Sirindhorn Int Inst Technol, Pathum Thani 12121, Thailand
2. Ubon Ratchathani Univ, Dept Mech Engn, Ubon Ratchathani 34190, Thailand

E-mail Addresses: satha@siit.tu.ac.th

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