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## Performance prediction of steam ejector using computational fluid dynamics: Part 2. Flow structure of a steam ejector influenced by operating pressures and geometries

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**Author(s):** Sriveerakul T (Sriveerakul, T.), Aphornratana S (Aphornratana, S.), Chunnanond K (Chunnanond, K.)

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**Abstract:** The aim of this study is to reveal the complication of the flow and the mixing process of a steam ejector used in a jet refrigeration cycle by using the simulation software package (FLUENT). In Part 1 of this work, the CFD results of the steam ejector's performance were validated with the experimental values. After the validation is satisfied, this paper is able to analyze the flow phenomena inside the steam ejector when its operating conditions and geometries were varied. Using the applications provided by the CFD software, the flow structure of the modeled ejectors could be created graphically, and the phenomena inside the flow passage were explored. The CID method was evaluated as an efficient tool to represent the flow inside a steam ejector. (c) 2006 Elsevier Masson SAS. All rights reserved.

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**Reprint Address:** Aphornratana, S (reprint author), Thammasat Univ, Sirindhorn Int Inst Technol, PO Box Thammasat Rangsit Post Office, Pathum Thani 12121, Thailand

**Addresses:**

1. Thammasat Univ, Sirindhorn Int Inst Technol, Pathum Thani 12121, Thailand

**E-mail Addresses:** [satha@siit.tu.ac.th](mailto:satha@siit.tu.ac.th)

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Ji M, Utomo T, Woo J, et al. [CFD investigation on the flow structure inside thermo vapor compressor](#) ENERGY 35 6 Sp. Iss. SI 2694-2702 JUN 2010

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