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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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