This article presents the results of the study performed to obtain a computational simplified model of humidification systems that can be used in field as diagnostic tool in energetic audits of systems in the branch of refrigeration and air conditioning systems (HVAC/R). The simplicity of the model and its accuracy level are crucial for the analysis, to obtain this, a series of tests and experimental analysis on different types of test equipment are made that allows the model validation.

**Keywords**

Humidifier, Commissioning, Computational Model, HVAC/R systems.