

Modeling of frost growth and densification on a ambient air vaporizer

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Ambient air vaporizers (AAV) are widely used in small scale cryogenic gas vaporization applications for reducing the average cost of terminals and maximizing operating efficiency. The main factors that affect the AAVs are frost growth and the deposition on the vaporizer tube. In the present study, a numerical model for predicting the frost behavior and vaporizer capacity of AAV is proposed.