

Title (en)

HEAT EXCHANGE SYSTEM HAVING AN INTEGRATED SUB-COOLER

Title (de)

WÄRMEAUSTAUSCHSYSTEM MIT INTEGRIERTEM UNTERKÜHLER

Title (fr)

SYSTÈME D'ÉCHANGE DE CHALEUR COMPORTANT UN REFROIDISSEUR SECONDAIRE INTÉGRÉ

Publication

EP 3511536 B1 20221130 (EN)

Application

EP 18290005 A 20180110

Priority

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Abstract (en)

[origin: EP3511536A1] A heat exchange system includes a casing enclosing a cavity therein, and a first heat exchange device configured to channel a first heat absorbing fluid therethrough and extending longitudinally within the cavity. Steam received within the cavity is condensable via thermal communication with the first heat absorbing fluid to form a first exhaust stream. The heat exchange system also includes a sub-cooler configured to channel a sub-cooler fluid therethrough and extending longitudinally within the cavity. The sub-cooler is positioned beneath the first heat exchange device such that the first exhaust stream is receivable into thermal communication with the sub-cooler fluid. In some embodiments, the sub-cooler includes a housing that includes a flat topmost surface. Additionally or alternatively, the heat exchange system includes an anti-flash plate that extends longitudinally within the casing between the upper portion and the lower portion of the cavity.

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