

Title (en)

Coil wound heat exchanger and method of cooling a process stream

Title (de)

Wärmetauscher mit gewickelter Spule und Verfahren zur Kühlung eines Prozessstroms

Title (fr)

Échangeur de chaleur à bobine enroulée et procédé de refroidissement d'un flux de procédé

Publication

EP 2857782 A1 20150408 (EN)

Application

EP 13187402 A 20131004

Priority

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Abstract (en)

A coil wound heat exchanger has a shell enclosing a shell space. A tubing assembly is configured inside the shell space, and a refrigerant distributor is arranged inside the shell space gravitationally above the tubing assembly, for allowing a downward stream of liquid refrigerant inside the shell space. A liquid drain line is connected to the shell at a gravitational low level, for draining non-evaporated liquid refrigerant from the shell space. A vapour chamber is arranged inside the shell space, with a vapour chamber inlet. A vapour discharge line is in fluid communication with the shell space of the coil wound heat exchanger for discharging evaporated refrigerant from the shell space. The vapour discharge line and the vapour chamber inlet are separated from each other by gas/liquid separator internals. The gas/liquid separator internals prevent any liquid constituents from entering the vapour discharge line from the shell space.

IPC 8 full level

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CPC (source: EP)

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