

Title (en)
EVAPORATIVE HEAT EXCHANGE APPARATUS WITH FINNED ELLIPTICAL TUBE COIL ASSEMBLY

Title (de)
VERDAMPFUNGSWÄRMETAUSCHER MIT BLOCK AUS ELLIPTISCHEN ROHREN UND RIPPEN

Title (fr)
APPAREIL D'ÉCHANGE DE CHALEUR PAR ÉVAPORATION POURVU D'UN ENSEMBLE TUBE À AILETTES ELLIPTIQUE SPIRALÉ

Publication
EP 2593741 B1 20140903 (EN)

Application
EP 11736229 A 20110708

Priority
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• US 2011043351 W 20110708

Abstract (en)
[origin: US2012012292A1] An improved finned coil tube assembly enhances evaporative heat exchanger performance, and includes tubes, preferably serpentine tubes, in the coil assembly. The tubes have a generally elliptical cross-section with external fins formed on an outer surface of the tubes. The fins are spaced substantially 1.5 to substantially 3.5 fins per inch (2.54 cm) along the longitudinal axis of the tubes, extend substantially 23.8% to substantially 36% of the nominal tube outside diameter in height from the tubes outer surface and have a thickness of substantially 0.007 inch (0.018 cm) to substantially 0.020 inch (0.051 cm). The tubes have a center-to-center spacing generally horizontally and normal to the longitudinal axis of the tubes of substantially 109% to substantially 125% of the nominal tube outside diameter, and a generally vertical center-to-center spacing of substantially 100% to about 131% of the nominal tube outside diameter.

IPC 8 full level
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CPC (source: EP US)
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