

Title (en)

HEAT EXCHANGER WITH IMPROVED CONDENSATE DRAINAGE

Title (de)

WÄRMETAUSCHER MIT VERBESSERTER KONDENSATABFÜHRUNG

Title (fr)

ECHANGEUR DE CHALEUR AVEC SYSTÈME DE DRAINAGE DE CONDENSAT AMÉLIORÉ

Publication

EP 2097708 A1 20090909 (EN)

Application

EP 06846058 A 20061226

Priority

US 2006049290 W 20061226

Abstract (en)

[origin: WO2008079132A1] A heat exchanger includes a first generally vertical header and a second generally vertical header and a generally vertical array of a plurality of generally flat heat exchange tubes extending in a horizontal direction therebetween. Each heat exchange tube has a plurality of channels extending longitudinally in parallel relationship from its inlet end to its outlet end, each channel defining a discrete refrigerant flow path. A plurality of fins extends between parallel-arrayed tubes. To facilitate drainage of the collected condensate from the external surfaces of the flat heat exchange tubes, the tubes are aligned at a slight angle with respect to the horizontal so that the trailing edge of each tube is positioned lower than the leading edge of each tube.

IPC 8 full level

F28F 9/26 (2006.01)

CPC (source: EP US)

F28D 1/05383 (2013.01 - EP US); **F28F 1/022** (2013.01 - EP US); **F28F 1/12** (2013.01 - EP US); **F28F 17/005** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008079132 A1 20080703; CN 101600932 A 20091209; CN 101600932 B 20130508; EP 2097708 A1 20090909; EP 2097708 A4 20131106; US 2010012305 A1 20100121

DOCDB simple family (application)

US 2006049290 W 20061226; CN 200680056807 A 20061226; EP 06846058 A 20061226; US 52092909 A 20090623