

ECLA**EUROPEAN CLASSIFICATION****F28C**

HEAT-EXCHANGE APPARATUS, NOT PROVIDED FOR IN ANOTHER SUBCLASS, IN WHICH THE HEAT-EXCHANGE MEDIA COME INTO DIRECT CONTACT WITHOUT CHEMICAL INTERACTION ([safety devices in general F16P](#); [fluid heaters having heat generating means F24H](#); with an intermediate heat-transfer medium coming into direct contact with heat-exchange media [F28D15/00](#) to [F28D19/00](#); details of heat-exchange apparatus of general application [F28F](#))

F28C1/00

Direct-contact trickle coolers, e.g. cooling towers (building construction [E04H5/12](#); enclosed spaces cooled by trickle [F25](#); components parts of trickle coolers [F28F25/00](#); [N: indirect-contact cooling towers [F28B1/06](#)]) [\[N1204\]](#)

F28C1/00B

- [\[N: comprising outlet ducts for exhaust gases\]](#)

F28C1/02

- with counter-current only

F28C1/04

- with cross-current only

F28C1/06

- with both counter-current and cross-current

F28C1/08

- Arrangements for recovering heat from exhaust steam

F28C1/10

- Arrangements for suppressing noise

F28C1/12

- Arrangements for preventing clogging by frost

F28C1/14

- comprising also a non-direct contact heat exchange

F28C1/16

- Arrangements for preventing condensation, precipitation or mist formation, outside the cooler ([F28C1/14](#) takes precedence)

F28C3/00

Other direct-contact heat-exchange apparatus

F28C3/00B

- [\[N: one heat-exchange medium being a solid \(\[F28C3/10\]\(#\) takes precedence\)\]](#)

F28C3/02

- the heat-exchange media both being gases or vapours

F28C3/04

- the heat-exchange media both being liquids

F28C3/06

- the heat-exchange media being a liquid and a gas or vapour ([temperators for cooling steam F22](#))

F28C3/08

- . with change of state, e.g. absorption, evaporation, condensation ([generating steam under pressure F22](#))

F28C3/10

- one heat-exchange medium at least being a fluent solid, e.g. a particulate material

F28C3/12

- . the heat-exchange medium being a particulate material and a gas, vapour, or liquid

F28C3/14

- . . the particulate material moving by gravity, e.g. down a tube

- F28C3/16 . . . the particulate material forming a bed, e.g. fluidised, on vibratory sieves
- F28C3/18 . . . the particulate material being contained in rotating drums