

# CLAP

FORM N°X262

Version : 1

Directive 2014/68/EU

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Directive References: Article 2

**Subject:** Classification - Micro-channel heat exchangers

**Question:** How to classify micro-channel heat exchangers in which air is one of the exchange fluids?

**Answer:** Micro-channel heat exchangers are to be considered as vessels, see CLAP X062 (PED guideline B-04).

**Reason:**

These vessels are considered to be heat exchangers "using multiple multiport extruded tubes with flow channels of a nominal diameter  $DN \leq 2$  which are connected in parallel on a circular header pipe" (see EN 14276-1:2020 § 3.1.24). These particular tubes with micro-channels do not meet the concept of "pipes" adopted for the heat exchangers covered by the definition of piping in point 3 of article 2 of the PED.

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