

Guideline**1/12****CLAP****FORM N°29****Version : 5****Directive 97/23/EC****Keywords :** Compressor

Vessel

Volume

Directive references: Article 1 § 3.6 - 97/23 EC

Article 1 § 3.10 - 97/23 EC

Adopted by WPG: 07/09/2004**Adopted by CLAP:** 07/09/2004**Subject:** Scope – Hermetically sealed and semi hermetic compressors**Question:** Are hermetically sealed and semi-hermetic compressors in the scope of the directive?**Answer:**

1) Equipment classified as no higher than category I as defined by PED and falling in the scope of one of the directives as listed in article 1, paragraph 3.6, e.g. for low voltage or machinery, is excluded from the scope of PED. This applies to hermetic and semi-hermetic compressors no higher than category I.

2) The exclusion in article 1, paragraph 3.10 is not applicable to hermetic compressors because pressure is a significant design factor since their external envelope has as its principal function to ensure that the refrigerant is confined.

3) For semi-hermetic compressors which include moving parts and for which the external envelope is primarily designed for mechanical loads (speed and vibration), thermal load (to limit the possible deformation due to temperature), stiffness of the structure (external mechanical loads and weight of the equipment), an exclusion based on article 1 paragraph 3.10 is to be assessed on a case by case basis (see CLAP 42 - Guideline 1/11).

Note: In application of the definition of "volume" given in article 1, paragraph 2.5, the volume of the mechanical parts is to be excluded from the volume to be taken into account but not the volume of the oil contained.

Modification compared to the previous adopted version: Copy of guideline 1/12 (07/09/2004).