HANDBOOK REFRIGERATING SYSTEM PROTECTORS



CHAPTER 13 **HERMETIC STRAINERS** FOR REFRIGERATION PLANTS THAT USE THE R744 REFRIGERANT



APPLICATIONS

Filters 4520E illustrated in this chapter have been developed by Castel for all the applications that use the sub-critical R744 refrigeration fluid belonging to Group 2, defined in Article 13, Chapter 1, Point (b) of Directive 2014/68/EU, with reference to EC Regulation No. 1272/2008.

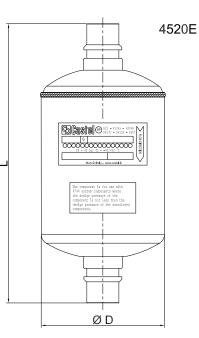
CONSTRUCTION

The filter body is made completely from steel with copper plated solder connections, offering the possibility to solder the copper pipe inside the connections (ODS).

Inside the filters there is a screen basket, with large filter surface, made of austenitic stainless steel AISI 304. The mesh filters in series 4520E are not inspectionable and therefore cannot be cleaned.

TABLE 56: General characteristics of strainers for R744														
	Filtering	Useful Passage Surface [%]	Mesh Opening [mm]	Connections			Kv		TS [°C]		TA [°C]		Risk Category	
Catalogue Number	Surface			ODS		00	M	Factor	PS [bar]	min.	max.	min.	may	according
	[cm ²]			Ø [in.]	Ø [mm]	Ø [in.]	Ø [mm]	[m³/h]		111111.	IIIdX.	111111.	max.	to PED Recast
4520E/M10		36,6	0,166	-	10	-	12	2,4	60	- 40	+80	- 20	+50	Art. 4.3
4520E/M12	58			-	12	-	14	3,4						
4520E/5				5/8"	16	3/4"	-	3,4						

TABLE 57: Dimensions and weights of strainers for R744									
Catalogue Number	Dimensio	Woight [g]							
Catalogue Number	ØD	L	Weight [g]						
4520E/M10		109	195						
4520E/M12	52	113	205						
4520E/5		126	245						



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