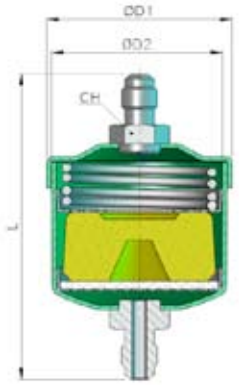
Dimensions and technical characteristics of solid core filter driers with activated alumina type SCA

Type	Nominal volume [cm^3]	SAE flare	Solder connections [in.]		Solder connections [mm]		TS [°C]	PS [bar]	Dimensions [mm]				Weight [g]	Refrigeration capacity [1] [kW]			Water absorption at 25°C [gH_2O]			Weight of de refrigerant a	
			ODF	ODM	ODF	ODM			ØD1	ØD2	L	CH		R22 R410A R407C	R134a R507	R404A	R22 R410A R407C	R134a R507	R404A	R22 R410A R407C	R134 R50
SCA032MM	50	1/4"	-	-	-	-	- 40 + 80 °C	45	57,5	54	103	16	285	10	8,5	7	5	5	4,8	4	4,8
SCA032MF		1/4"	-	-	-	-					93	16/16	283								
SCA032S		-	1/4"	3/8"	-	-					95	-	261								
SCA033MM		3/8"	-	-	-	-					111	16	299	19,5	17,5	13,5					
SCA033S		-	3/8"	1/2"	-	-					97	-	269								
SCA033M10S		-	-	-	10	12															
SCA052MM	80	1/4"	-	-	-	-					116	16	343	11	9	7,5	7	8	7	7	7,5
SCA052S		-	1/4"	3/8"	-	-					107	-	319								
SCA053MM		3/8"	-	-	-	-					124	16	357	23	21	16					
SCA053S		-	3/8"	1/2"	-	-					109	-	327								
SCA053M10S		-	-	-	10	12															
SCA082MM	130	1/4"	-	-	-	-					141	16	415	12	10,5	9	13	13	12,5	12	12
SCA082S		-	1/4"	3/8"	-	-					132	-	391								
SCA083MM		3/8"	-	-	-	-					149	16	429	27	25	17					
SCA083MF		3/8"	-	-	-	-					137	20/16	425								
SCA083S		-	3/8"	1/2"	-	-					134	-	399								
SCA083M10S		-	-	-	10	12															
SCA084MM		1/2"	-	-	-	-					157	19	461	36	33	23					
SCA084S		-	1/2"	5/8"	-	16					141	-	411								
SCA084M12S		-	-	-	12	14															
SCA162MM	250	1/4"	-	-	-	-			77,5	74	154	16	776	14	11	9,5	27	32	26,5	29,5	33,
SCA162S		-	1/4"	3/8"	-	-					145	-	760								
SCA163MM		3/8"	-	-	-	-					162	16	790	31	29	20					
SCA163S		-	3/8"	1/2"	-	-					147	-	745								
SCA163M10S		-	-	-	10	12															
SCA164MM		1/2"	-	-	-	-					170	19	822	41	39	31					
SCA164S		-	1/2"	5/8"	-	16					154	-	782								
SCA164M12S		-	-	-	12	14															
SCA165MM		5/8"	-	-	-	-					179	23	882	54	50	35					
SCA165S		-	5/8"	3/4"	16	-					162	-	802								
SCA324MM	500	1/2"	-	-	-	-			93	89	203	19	1650	50	48	40	48	52	46,5	50,5	50,
SCA324S		-	1/2"	5/8"	-	16					187	-	1590								
SCA325MM		5/8"	-	-	-	-					212	23	1710	57	55	42					
SCA325S		-	5/8"	3/4"	16	-					195	-	1630								
SCA326S		-	3/4"	7/8"	-	-					200	-	1670	65	63	46					
SCA327S		-	7/8"	1.1/8"	-	-								73	70	52					
SCA414MM	670	1/2"	-	-	-	-					234	19	1950	52	50	42	77	83	74,5	72	72
SCA414S		-	1/2"	5/8"	-	16					218	-	1900								
SCA415MM		5/8"	-	-	-	-					243	23	2010	59	57	44					
SCA415S		-	5/8"	3/4"	16	-					226	-	1930								
SCA416MM		3/4"	-	-	-	-					245	27	2050	75	70	48					
SCA416S		-	3/4"	7/8"	-	-					231	-	1970								
SCA417S		-	7/8"	1.1/8"	-	-								83	78	54					
SCA757S	1300	-	7/8"	1.1/8"	-	-					392	-	3500	139	131	91	134	155	139	123	123

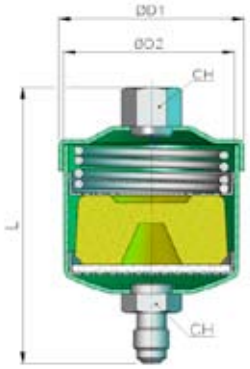
APPLICATIONS: The solid core filter driers with 80% molecular sieves and 20% of activated alumina are suitable for use with fluids proper to the Group II, as defined in Article 9, Section 2.2 of Directive 97/23/EC, therefore not toxic, not inflammable and not explosive fluids; to this macro Group II belong also the refrigerant fluids listed and classified L1 in Annex E of standard EN 378-1:2003. These filters driers are optimized for CFC and HCFC refrigerants with mineral or alkyl benzene oils.

CONSTRUCTION: The filters are completely made of steel, UNI EN 10130 – FeP04. Body and head are TIG welding for having a unique structure. The solid core, not replaceable, is formed by a very compact molecular sieves and activated alumina block, this one and the polyester mat offer a high degree of mechanical and antiacid filtration thanks the presence of alumina. This design ensure that the fluid encounters a minimum strength and efficient dehydration.
The production range includes types with nickel-plated Flare threaded connections and copper plated solder connections.

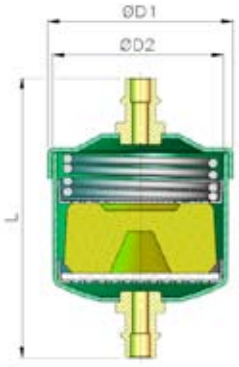
hydratable t 25°C [kg]		Water absorption at 50°C [gH_2O]			Weight of dehydratable refrigerant at 50°C [kg]			Category according to 97/23/CE PED
4a 07	R404A	R22 R410A R407C	R134a R507	R404A	R22 R410A R407C	R134a R507	R404A	
3	5	4	4,5	4	3,5	4,5	4	
5	7	6,5	6,5	6	6	6,5	6	
2	12	11,5	11,5	10,5	11	11	10,5	
5	28	25	26,5	24	24	25	25,5	Art. 3.3
5	46,5	41,5	45	38,5	42,5	48	40	
2	64	67	80	61,5	67	68	48	
3	105	115	148	114	107	116	90	



SCA.. MM



SCA.. MF



SCA.. S

Note:

(1) Maximum values of refrigerating capacity at which correspond a total 0,07bar pressure drop, with condensation at 30°C and evaporation at -15°C according to ARI STANDARD 710:86.