

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

Type	Nominal volume [cm ³]	SAE flare	Solder connections [mm]				TS [°C]	PS [bar]	Dimensions [mm]				Weight [g]	Refrigeration capacity ⁽¹⁾ [kW]			Water absorption at 25°C [gH ₂ O]			Weight of de refrigerant a						
			[in.]		[mm]				ØD1	ØD2	L	CH		R22 R410A R407C	R134a R507	R404A	R22 R410A R407C	R134a R507	R404A	R22 R410A R407C	R134a R507					
			ODF	ODM	ODF	ODM																				
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													
SCA033S		-	3/8"	1/2"	-	-					97	-	269													
SCA033M10S		-	-	-	10	12					-	-	-													
SCA052MM	80	1/4"	-	-	-	-			45	77,5	74	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												
SCA053S		-	3/8"	1/2"	-	-						109	-	327												
SCA053M10S		-	-	-	10	12						-	-	-												
SCA082MM	130	1/4"	-	-	-	-						45	77,5	74	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									
SCA083MF		3/8"	-	-	-	-									137	20/16	425									
SCA083S		-	3/8"	1/2"	-	-									134	-	399									
SCA083M10S		-	-	-	10	12									-	-	-									
SCA084MM		1/2"	-	-	-	-									157	19	461									
SCA084S		-	1/2"	5/8"	-	16	141	-							411											
SCA084M12S		-	-	-	12	14	-	-							-											
SCA162MM		250	1/4"	-	-	-	-	45							77,5	74	154									16
SCA162S	-		1/4"	3/8"	-	-	145										-	760								
SCA163MM	3/8"		-	-	-	-	162										16	790								
SCA163S	-		3/8"	1/2"	-	-	147										-	745								
SCA163M10S	-		-	-	10	12	170		19	822																
SCA164MM	1/2"		-	-	-	-	154		-	782																
SCA164S	-		1/2"	5/8"	-	16	179		23	882																
SCA164M12S	-		-	-	12	14	162		-	802																
SCA165MM	5/8"		-	-	-	-	203		19	1650																
SCA165S	-		5/8"	3/4"	16	-	187		-	1590																
SCA324MM	500	1/2"	-	-	-	-	45		93	89	212	23	1710	50			48	40	48	52	46,5	50,5	50			
SCA324S		-	1/2"	5/8"	-	16					212	23	1710													
SCA325MM		5/8"	-	-	-	-					195	-	1630													
SCA325S		-	5/8"	3/4"	16	-					200	-	1670													
SCA326S		-	3/4"	7/8"	-	-					234	19	1950													
SCA327S		-	7/8"	1.1/8"	-	-					218	-	1900													
SCA414MM	670	1/2"	-	-	-	-					45	93	89	243			23	2010	52	50	42	77	83	74,5	72	72
SCA414S		-	1/2"	5/8"	-	16								243			23	2010								
SCA415MM		5/8"	-	-	-	-		226						-	1930											
SCA415S		-	5/8"	3/4"	16	-		245						27	2050											
SCA416MM		3/4"	-	-	-	-		231						-	1970											
SCA416S		-	3/4"	7/8"	-	-		392						-	3500											
SCA417S		-	7/8"	1.1/8"	-	-		231						-	1970											
SCA417S		-	7/8"	1.1/8"	-	-		231						-	1970											
SCA757S	1300	-	7/8"	1.1/8"	-	-		392						-	3500	139	131	91	134	155	139	123	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.

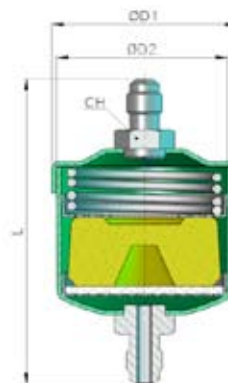
CONSTRUCTION: The filters are completely made of steel, UNI EN 10130 – FeP04. Body and head are TIG welding for having a unique structure. The solid core, not replaceable, is formed by a very compact molecular sieves and activated alumina block, this one and the polyester mat offer a high degree of mechanical 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.

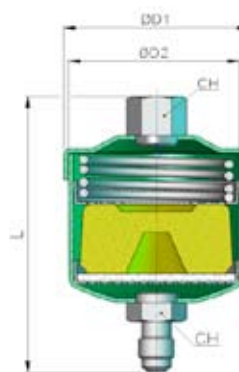
Refrigerant	Dehydratable refrigerant at 25°C [kg]	Water absorption at 50°C [gH ₂ O]			Weight of dehydratable refrigerant at 50°C [kg]			Category according to 97/23/CE PED
		R22 R410A R407C	R134a R507	R404A	R22 R410A R407C	R134a R507	R404A	
3	5	4	4,5	4	3,5	4,5	4	Art. 3.3
5	7	6,5	6,5	6	6	6,5	6	
12	12	11,5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

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.



SCA.. MM



SCA.. MF



SCA.. S