CONDENSATE SEPARATOR
SFHFC series / SFH-SSFC series

DESCRIPTION

SFHFC condensate separators have been developed for high efficient removal of bulk liquids and large impurities from compressed air[(1)] systems. Inside the housing there is an insert that creates controlled rotation of the air. As a result of centrifugal action liquids (water, oil) and large particles are forced to the housing wall, slowed down and accumulated at the bottom of separator housing as condensate. The turbulent free zone in the lower part of the cyclone housing prevents condensate from being picked up and "carried over" into the airstream.
Because of the nature of application, it is essential to install appropriately sized condensate drain on the separator. SFHFC cyclone separators are also available in stainless steel version SFH-SSFC.

APPLICATIONS[(2)]

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application

[(1)]For any other technical gas please contact manufacturer
[(2] SFHFC condensate separator can be used in variety of applications. For applications not listed please contact manufacturer.

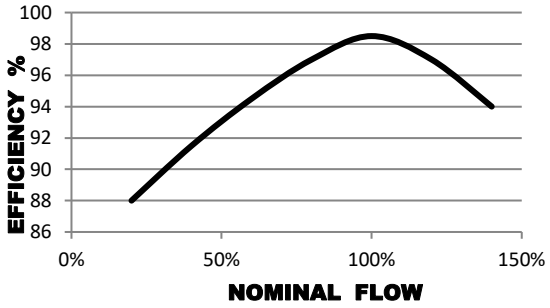
CSFC CYCLONE SEPARATOR RATING ACCORDING TO ISO8573-1

Solid particles	Water	Oil
-	Class 8	-

TECHNICAL SPECIFICATION

Operating temperature	1,5 - 120 °C	35 - 248 °F
Operating pressure	0 - 16 bar(g)	0 - 232 psi
Efficiency[(3)]	>98%	

For min/max operating parameters observe technical specifications of all installed components
[(3)]Under nominal flow, 20°C, inlet droplet size 10μm - 50μm



MATERIALS

Housing material	Carbon steel (Stainless steel[(4)])
Outside protection	Powder paint coated (Epoxy-polyester base)

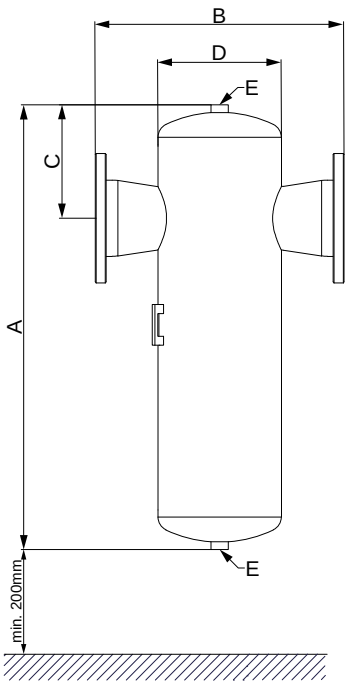
[(4)]Stainless steel version SFH-SS is available on request

SIZES

HOUSING[5]	PIPE SIZE	FLOW CAPACITY		DIMENSIONS [mm]					VOLUME	WEIGHT[6]
	[DN]	[Nm³/h]	[scfm]	A	B	C	D	E	[l]	[kg]
SFHFC029	DN 80	1760	1024	720	400	165	219	1/2"	23	34
SFHFC037	DN 100	2200	1307	890	460	236	244	1/2"	37	43
SFHFC066	DN 125	3940	2331	980	550	250	273	1"	52	55
SFHFC088	DN 150	5300	3108	1040	570	250	300	1"	66	77
SFHFC097	DN 200	5820	3426	1110	690	265	350	1"	99	94
SFHFC142	DN 250	8520	5015	1330	800	360	480	1"	221	195
SFHFC180	DN 300	10770	6357	1470	820	408	550	1"	315	250
SFHFC209	DN 350	12550	7381	1670	920	471	622	1"	458	367

Flow capacity at 7 bar(g), 20°C

[5]Designation belongs to carbon steel housing. Corresponding name for stainless steel housing is SFH-SSFC.
[6]Weight corresponds to SFHFC models. SFH-SSFC series models weight may vary.



PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)

SFHFC029 - SFHFC066	Category 2, Module H
SFHFC088 - SFHFC097	Category 3, Module H
SFHFC142 - SFHFC209	Category 4, Module H1

PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)[7]

SFHFC029 - SFHFC066	Category 3, Module H
SFHFC088 - SFHFC209	Category 4, Module H1

[7] Fluid group must be specified in the order, if not standard fluid group 2 is selected.

CORRECTION FACTORS

To calculate the correct capacity of a given separator based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).
CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP}

OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C_{OP}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

MAINTENANCE

Once per year make a visual check of separator housing and make sure there is no visual damage. At least every six months check if condensate drain is operating properly.

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BUREAU VERITAS	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285	