

CKL-B series

CKL-B - Aluminium condensate separators



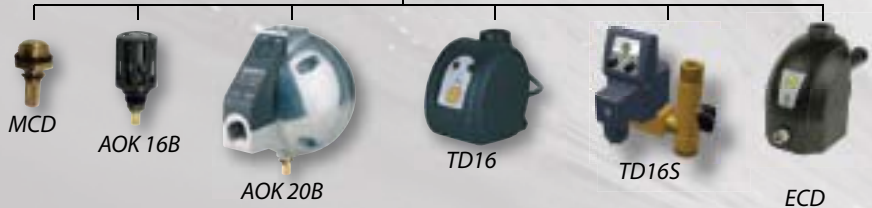
Efficient removal of condensate from a compressed air system has several advantages: extended life of compressed air tools, improved lubrication of all pneumatic components, improved painting processes, reduced corrosion, and elimination of freezing.

These advantages can all be achieved with the installation of Omega Air CKL-B Cyclone separators. This high-efficiency separators will remove condensed water droplets, with a very low pressure drop. They also provide added protection and improved performance for dryers and filters.

Typically, water separators are installed downstream of after coolers, air receivers, refrigerant dryers and strategic points in pipe work installation.

Standard equipment includes automatic condensate drain AOK 16B.

- max. operating pressure: 16 bar (232 psi)
- operating temperature range: 1,5 to 65 °C (35 to 149 °F)



CORRECTION FACTORS

Operating pressure [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating pressure [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor	0,53	0,65	0,76	0,84	0,92	1,00	1,07	1,13	1,19	1,25	1,31	1,36	1,41	1,46	1,51



Benefits

Construction of aluminium cyclone separators assures high efficiency condensate separation with low pressure drop.

Cartridge inside Cyclone separator assures reliable operation for the life of the separator, with no possibility of clogging and increased operating costs.

Condensate Cyclone separator CKL-B satisfies all needs of applications in a wide temperature range from 1,5 to 65 °C (35 to 149 °F) and in a pressure range up to 16 bar (232 psi).

All aluminium separator bodies are coated with powder paint to eliminate corrosion.

Threaded connections are BSP according to ISO7/1 or NPT to ANSI B2.1, if supplied in North America.



Model	Connection size	Flow rate		Dimensions [mm]				Dimensions [inch]				Mass	
	inch	Nm ³ /h	SCFM	A	B	C	D	A	B	C	D	kg	lb
CKL 005 B	3/8	120	70	187	88	21	60	7 ³ / ₈	3 1/2	1 ³ / ₁₆	2 ⁵ / ₁₆	0,7	1,54
CKL 007 B	1/2	155	91	187	88	21	60	7 ³ / ₈	3 1/2	1 ³ / ₁₆	2 ⁵ / ₁₆	0,7	1,54
CKL 010 B	3/4	235	138	257	88	21	80	10 ¹ / ₈	3 1/2	1 ³ / ₁₆	3 ¹ / ₈	0,8	1,76
CKL 018 B	1	365	215	262	125	33	100	10 ⁵ / ₁₆	4 ¹⁵ / ₁₆	1 ⁵ / ₁₆	3 ¹⁵ / ₁₆	1,9	4,19
CKL 047 B	1 1/2	770	452	452	125	33	140	17 ¹³ / ₁₆	4 ¹⁵ / ₁₆	1 ⁵ / ₁₆	5 1/2	2,8	6,17
CKL 094 B	2	1280	753	695	163	43	520	27 ³ / ₈	6 ⁷ / ₁₆	1 ¹¹ / ₁₆	20 1/2	5,3	11,7
CKL 150 B	2 1/2	2460	1447	695	163	43	520	27 ³ / ₈	6 ⁷ / ₁₆	1 ¹¹ / ₁₆	20 1/2	9,2	20,3
CKL 200 B	3	2850	1677	795	240	59	630	31 ⁵ / ₁₆	9 1/2	2 ⁵ / ₁₆	24 ³ / ₄	13,4	29,5



CS series

CS - Welded condensate separators

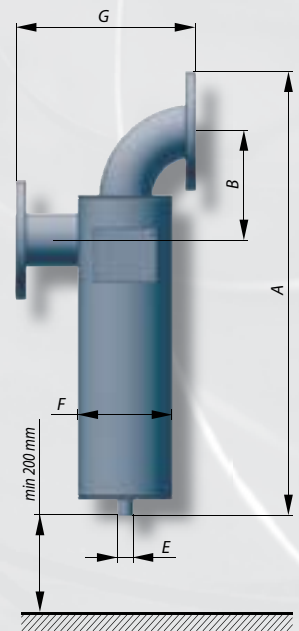
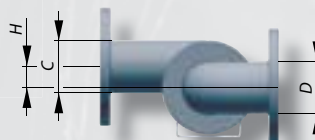


CS Welded cyclone separators are used for the separation of particulates and condensate from large capacity compressed air systems.

They feature a combination of high efficiency and low pressure drop. Tangential inlet connection enables perfect airflow, which does not require additional guidance blades with additional pressure drop.

Cyclone condensate separators are produced in accordance with Pressure Equipment Directive PED 97/23 CE.

Cyclone separators are protected against corrosion by RAL colour painting, which can be defined by customer. We recommend the use of condensate drains produced by our company.



- max. operating pressure: 16 bar (232 psi)
- max. operating temperature: 120 °C (248 °F)

Model	Pipe size		Flow rate		Dimensions [mm]							Dimensions [inch]							Mass		
	DN	Nm ³ /min	SCFM	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H	kg	lb
CS 14	DN80	14	495	745	182	88,9	88,9	1/2"	159,0	302	35	29 ⁵ / ₁₆	7 ³ / ₁₆	3 1/2	3 1/2	1/2	6 1/4	11 ⁷ / ₈	1 ³ / ₈	23	50,7
CS 21	DN80	21	740	745	182	88,9	88,9	1/2"	159,0	302	35	29 ⁵ / ₁₆	7 ³ / ₁₆	3 1/2	3 1/2	1/2	6 1/4	11 ⁷ / ₈	1 ³ / ₈	23	50,7
CS 28	DN80	28,5	1000	745	182	88,9	88,9	1/2"	159,0	302	35	29 ⁵ / ₁₆	7 ³ / ₁₆	3 1/2	3 1/2	1/2	6 1/4	11 ⁷ / ₈	1 ³ / ₈	23	50,7
CS 62	DN125	62,0	2190	1041	280	133,0	133,0	1/2"	219,1	390	43	41	11	5 1/4	5 1/4	1/2	8 ⁵ / ₈	15 ³ / ₈	1 ¹¹ / ₁₆	53	116,8

CS SS - Stainless steel condensate separators

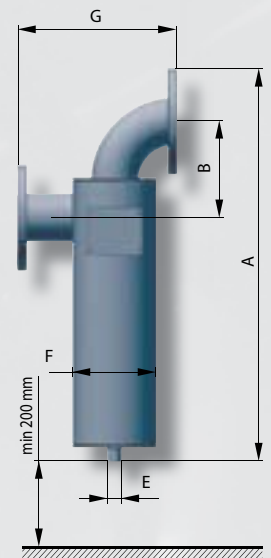
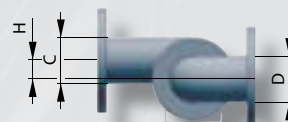
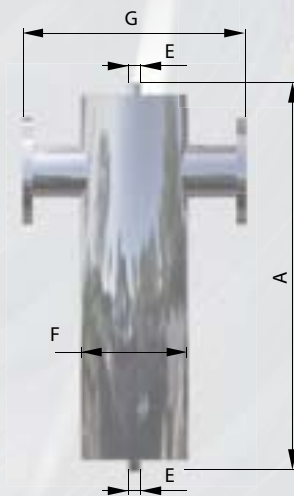
CS SS Welded cyclone separators are used for the separation of particulates and condensate from large capacity compressed air systems.

They feature a combination of high efficiency and low pressure drop. Tangential inlet connection enables perfect airflow, which does not require additional guidance blades with additional pressure drop.

Cyclone condensate separators are produced in accordance with Pressure Equipment Directive PED 97/23 CE. Stainless steel material prevents corrosion of built in materials.

We recommend the use of condensate drains produced by our company.

- max. operating pressure: 16 bar (232 psi)
- max. operating temperature: 120 °C (248 °F)
- material: stainless steel



Model	Connection	Flow rate [Nm ³ /min]	Dimensions [mm]								Mass [kg]
			A	B	C	D	E	F	G	H	
CS SS 14	DN80	14	745	182	88,9	88,9	1/2"	159,0	302	35	23
CS SS 21	DN80	21	745	182	88,9	88,9	1/2"	159,0	302	35	23
CS SS 28	DN80	28,5	745	182	88,9	88,9	1/2"	159,0	302	35	23
CS SS 48	DN100	36,6	800	0	108	108	1/2"	219,1	460	0	42