

# CONDENSATE SEPARATOR

## CKL-B HT

### DESCRIPTION

CKL-B HT condensate separators have been developed for high efficient removal of bulk liquids from compressed air<sup>(1)</sup> and vacuum systems. Inside the housing there is an insert with vanes 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 filter 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.

### APPLICATIONS<sup>(2)</sup>

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



<sup>(1)</sup>For any other technical gas please contact us or your local dealer

<sup>(2)</sup>CKL-B HT condensate separator can be used in variety of applications. For applications not listed please contact us or your local

### RATING ACCORDING TO ISO8573-1

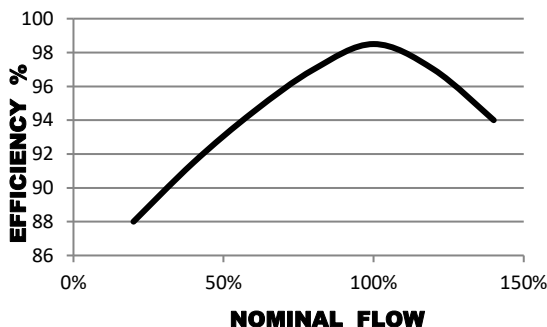
Solid particles	Water	Oil
-	Class 8	-

### TECHNICAL SPECIFICATION

Operating temperature <sup>(3)</sup>	1,5 - 120 °C	35 - 248 °F
Operating pressure	0 - 10 bar(g)	0 - 145 psi
Efficiency <sup>(4)</sup>	>98%	

<sup>(3)</sup>Actual operating temperature depends on sealing material and type of cyclone element. For more information, contact us or your local dealer.

<sup>(4)</sup>Under nominal flow, 20°C, inlet droplet size 10µm - 50µm



### MATERIALS

Housing material	Aluminium
Fittings, Screws	Brass, Brass-zinc plated, Steel
Cover	Polyamide (PA6)
Sealing	FKM
Cyclone element	Stainless Steel 1,4301 + Aluminium end cap
Corrosion protection	Anodized (optional)
Outside protection	Powder paint coated (Epoxy-polyester base)
Lubricant	Shell Cassida Grease RLS 2

**SIZES**

HOUSING	PIPE SIZE [inch]	FILTER ELEMENT	FLOW CAPACITY		DIMENSIONS [mm]				VOLUME [l]	WEIGHT [kg]
			[Nm <sup>3</sup> /h]	[scfm]	A	B	C	D		
CKL 005 B HT	3/8"		60	35	192	88	25	60	0,49	0,6
CKL 007 B HT	1/2"		78	46	192	88	25	60	0,49	0,6
CKL 010 BHT	3/4"	Integrated	120	70	264	88	25	80	0,68	0,7
CKL 018 BHT	1"	CKL-B HT	198	116	264	125	39	100	1,57	1,9
CKL 047 B HT	1 1/2"	Cyclone	510	300	464	125	39	140	2,7	1,9
CKL 094 B HT	2	element	1000	588	694	163	50	520	6,1	5,7
CKL 150 B HT	2 1/2"		1500	882	694	163	50	520	8,3	7,6
CKL 200 B HT	3"		2160	1270	801	242	60	630	16,7	14,1

Flow capacity at 7 bar(g), 20°C

Standard is BSP pipe connection, other pipe connection on request.

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

CKL 005 B HT - CKL 047 B HT

Article 4.3

CKL 094 B HT - CKL 200 B HT

Category 1, Module A

**PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)<sup>(5)</sup>**

CKL 005 B HT - CKL 018 B HT

Article 4.3

CKL 047 B HT

Category 1, Module A

CKL 094 B HT - CKL 200 B HT

Category 2, Module H

<sup>(5)</sup>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).

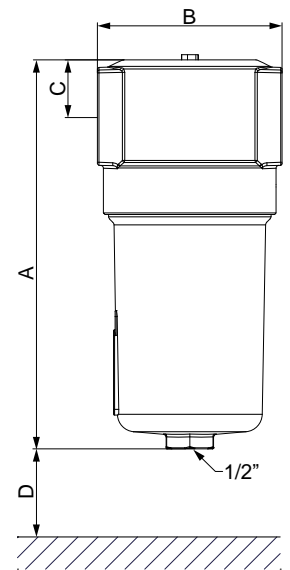
CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C<sub>OP</sub>

**OPERATING PRESSURE**

[bar]	2	3	4	5	6	7	8	9	10
[psi]	29	44	58	72	87	100	115	130	145
C <sub>OP</sub>	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38

**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.



INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

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