

CONDENSATE SEPARATOR

CKL-IHP

DESCRIPTION

CKL-IHP condensate separators have been developed for high efficient removal of bulk liquids from compressed air⁽¹⁾ systems. Inside the housing there is a condensate separator element. This element separates already liquefied water from mainstream and prevents the liquids and large particles from being airborne again. Because of the nature of application, it is essential to install appropriately sized condensate drain on the separator.

APPLICATIONS⁽²⁾

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

⁽¹⁾For any other technical gas please contact us or your local dealer

⁽²⁾CKL-IHP cyclone separator can be used in variety of applications. For applications not listed please contact us or your local dealer.



CKL-IHP CONDENSATE SEPARATOR RATING ACCORDING TO ISO8573-1

Solid particles	Water	Oil
-	Class 8	-

TECHNICAL SPECIFICATION

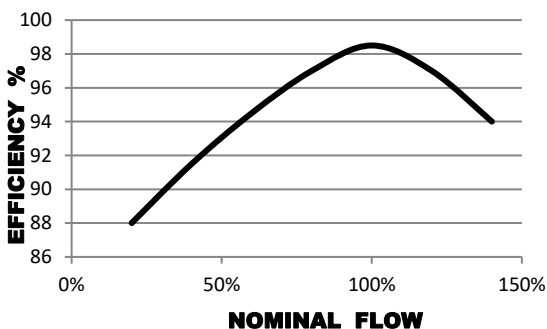
Operating temperature ⁽³⁾	-20 - 120 °C	-4 - 248 °F
Operating pressure	0 – 100, 250, 420 bar(g)	0 – 1450, 3625, 6091 psi
Efficiency ⁽⁴⁾	>98%	

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

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

MATERIALS

Housing material	Stainless steel 1.4301 (1.4404 on request)
Fittings, Screws	Stainless steel 1.4404
Sealing	FKM with PTFE backup ring
Separator element	SS 1.4301
Lubricant	Shell cassida grease RLS 2



SIZES

TYPE	PIPE SIZE [inch]	FILTER ELEMENT	FLOW CAPACITY		DIMENSIONS [mm]				VOLUME [l]	MASS [kg]
			[m ³ /h]	[scfm]	A	B	C	D		
CKL-IHP 003	1/4	IHP0305	40	23,5	182	98	104	30	0,19	7,9
CKL-IHP 005	3/8	IHP0310	70	41,2	182	98	104	30	0,20	7,9
CKL-IHP 007	1/2	IHP0420	130	76,5	230	118	129	36	0,40	15,7
CKL-IHP 010	3/4	IHP0520	195	115	254	118	129	36	0,48	16,6
CKL-IHP 018	1	IHP0525	275	162	276	145	158	46	0,76	27,3
CKL-IHP 030	1 1/4	IHP0725	380	223	328	145	158	46	0,98	29,6
CKL-IHP 047	1 1/2	IHP0730	495	291	385	195	216	65	2,2	67,8
CKL-IHP 094	2	IHP1030	715	421	460	195	216	65	2,9	73,5

Flow capacity at 7 bar(g), 20°C

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

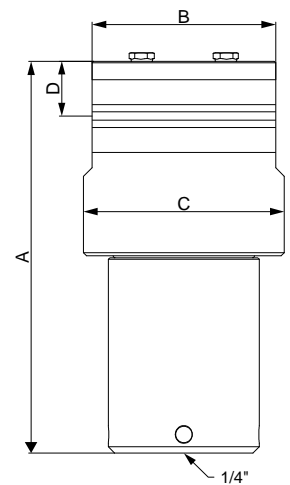
PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)

CKL IHP 003 – CKL IHP 030	Article 4.3
CKL IHP 047	Category 2, Module H
CKL IHP 094	Category 3, Module H

PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)⁽⁵⁾

CKL IHP 003 – CKL IHP 047	Category 3, Module H
CKL IHP 094	Category 4, Module H1

⁽⁵⁾ 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 filter 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]	7	25	40	64	100	250	420
[psi]	100	362	580	928	1450	3625	6091
C _{OP}	1	3	5	8	12	12	12

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

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