# CONDENSATE SEPARATOR CKL-AHP

## DESCRIPTION

CKL-AHP condensate separators have been specifically 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-AHP cyclone separator can be used in variety of applications. For applications not listed please contact us or your local dealer.

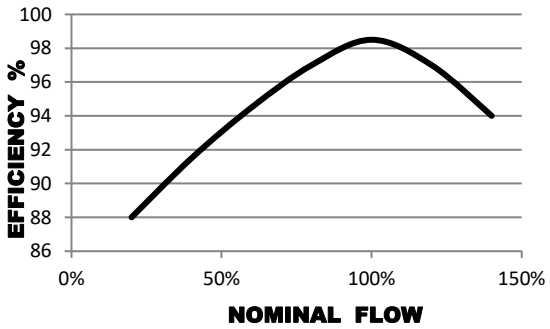
## CKL-AHP CONDENSATE SEPARATOR RATING ACCORDING TO ISO8573-1

| Solid particles | Water | Oil |
|---|---|---|
| - | Class 8 | - |

## TECHNICAL SPECIFICATION

| | | |
|---|---|---|
| Operating temperature | 1,5 - 65 °C | 35 - 149 °F |
| Operating pressure | 0 - 64 bar(g) | 0 - 928 psi |
| Efficiency[3] | >98% | |

[3]Under nominal flow, 20°C, inlet droplet size 10$\mu$m - 50$\mu$m



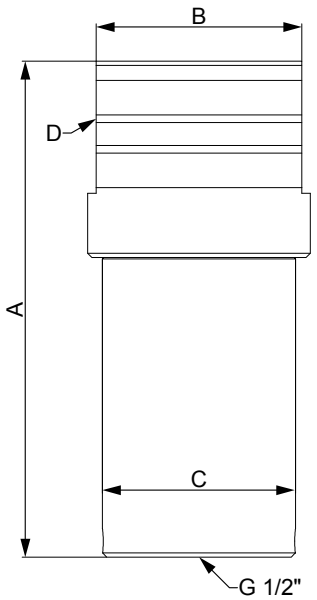

## MATERIALS

| | |
|---|---|
| Housing material | Aluminium |
| Fittings, Screws | Brass, Brass-zinc plated, Steel |
| Corrosion protection | Anodized |
| Sealing | NBR |
| Separator element | Aluminium, SS 1,4301 |
| Lubricant | Shell cassida grease RLS 2 |

## SIZES

| TYPE | PIPE SIZE [inch] | FLOW CAPACITY [$m^3/h$] | [scfm] | DIMENSIONS [mm] A | B | C | VOLUME [l] | MASS [kg] |
|---|---|---|---|---|---|---|---|---|
| CKL-AHP 005 | 3/8 | 30 | 17,6 | 167 | 104 | 90 | 0,6 | 2,25 |
| CKL-AHP 007 | 1/2 | 60 | 35,3 | 167 | 104 | 90 | 0,6 | 2,25 |
| CKL-AHP 010 | 3/4 | 120 | 70,6 | 232 | 104 | 90 | 0,8 | 2,84 |
| CKL-AHP 018 | 1 | 180 | 106 | 258 | 150 | 120 | 1,7 | 6,45 |
| CKL-AHP 030 | 1 1/4 | 270 | 159 | 358 | 150 | 120 | 2,4 | 7,8 |
| CKL-AHP 047 | 1 1/2 | 360 | 212 | 458 | 150 | 120 | 3 | 9,17 |
| CKL-AHP 094 | 2 | 720 | 423 | 665 | 170 | 120 | 7,6 | 18,9 |

Flow capacity at 7 bar(g), 20°C




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

| | |
|---|---|
| AHP 005 - AHP 010 | Article 4.3 |
| AHP 018- AHP 047 | Category 1, Module H |
| AHP 094 | Category 2, Module H |

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

| | |
|---|---|
| AHP 005 - AHP 010 | Article 4.3 |
| AHP 018- AHP 047 | Category 2, Module H |
| AHP 094 | Category 3, Module H |

## 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] | 3 | 5 | 7 | 10 | 13 | 16 | 20 | 30 | 40 | 50 | 60 | 64 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [psi] | 44 | 72 | 100 | 145 | 189 | 232 | 290 | 435 | 580 | 725 | 870 | 928 |
| $C_{OP}$ | 0,50 | 0,75 | 1 | 1,38 | 1,75 | 2,13 | 2,63 | 3,88 | 5,13 | 6,38 | 7,63 | 8,13 |

## 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.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE