

# CKL-C SERIES

## CONDENSATE SEPARATORS

|                       |                                    |
|-----------------------|------------------------------------|
| operating pressure    | <b>20 bar</b>                      |
| volume flow rate      | <b>72 to 2760 Nm<sup>3</sup>/h</b> |
| connections           | <b>3/8" to 3"</b>                  |
| operating temp. range | <b>1,5 to 65°C</b>                 |
| standard colour       | <b>RAL 9005</b>                    |

### APPLICATIONS

- general industrial applications
- automotive
- electronics
- food and beverage
- chemical
- petrochemical
- plastics
- paint



### CONDENSATE DRAINS

## DESCRIPTION

CKL-C condensate separators have been developed for high efficient removal of bulk liquids from compressed air and vacuum systems up to 20 bar. Inside the housing there is an insert with vanes that creates controlled rotation of the air.

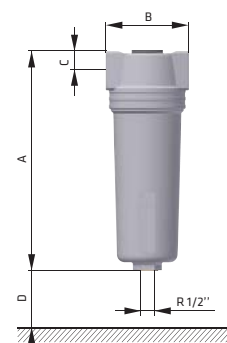
As a result of centrifugal action liquids (water, oil) and large particles are forced to the housing wall, slowed down and accumulated at the bottom of separator housing as condensate. The turbulent free zone in the lower part of the filter housing prevents condensate from being picked up and "carried over" into the airstream.

To discharge condensate from the CKL-C cyclone separator it is essential to install automatic or electronic condensate drain.



## TECHNICAL DATA - CKL-C

| Filter housing size | Pipe size | Max. oper. pressure | Flow rate at 7 bar(g), 20°C |                    | Dimensions [mm] |     |    |     | Mass                                |      |
|---------------------|-----------|---------------------|-----------------------------|--------------------|-----------------|-----|----|-----|-------------------------------------|------|
|                     | inch      |                     | bar/psi                     | Nm <sup>3</sup> /h | scfm            | A   | B  | C   |                                     |      |
| CKL-C 20            | 3/8"      | 20/290              | 72                          | 42                 | 187             | 88  | 20 | 80  | 0,7                                 |      |
| CKL-C 21            | 1/2"      | 20/290              | 96                          | 56                 | 256             | 88  | 20 | 80  | 0,8                                 |      |
| CKL-C 30            | 1/2"      | 20/290              | 150                         | 88                 | 278             | 106 | 25 | 100 | 1,3                                 |      |
| CKL-C 31            | 3/4"      | 20/290              | 216                         | 127                | 278             | 106 | 25 | 100 | 1,3                                 |      |
| CKL-C 40            | 1"        | 20/290              | 282                         | 166                | 252             | 125 | 32 | 120 | 2,1                                 |      |
| CKL-C 43            | 1 1/2"    | 20/290              | 510                         | 300                | 450             | 125 | 32 | 160 | 3,2                                 |      |
| CKL-C 50            | 2"        | 20/290              | 888                         | 522                | 605             | 160 | 43 | 180 | 5,1                                 |      |
| CKL-C 52            | 2 1/2"    | 20/290              | 1440                        | 847                | 685             | 160 | 43 | 200 | 6,3                                 |      |
| CKL-C 61            | 3"        | 20/290              | 2760                        | 1624               | 800             | 240 | 60 | 300 | 12,9                                |      |
|                     |           |                     |                             |                    |                 |     |    |     | quality class - solids (ISO 8573-1) | -    |
|                     |           |                     |                             |                    |                 |     |    |     | quality class - water (ISO 8573-1)  | 8    |
|                     |           |                     |                             |                    |                 |     |    |     | quality class - oils (ISO 8573-1)   | -    |
|                     |           |                     |                             |                    |                 |     |    |     | efficiency                          | >98% |



## CORRECTION FACTORS

|                          |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Operating pressure [bar] | 2    | 3    | 4    | 5    | 6    | 7   | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   |
| Operating pressure [psi] | 29   | 44   | 58   | 72   | 87   | 100 | 115  | 130  | 145  | 160  | 174  | 189  | 203  | 218  | 232  | 247  | 261  | 276  | 290  |
| Correction factor        | 0,38 | 0,50 | 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 | 2,25 | 2,38 | 2,50 | 2,63 |