

FILTER ELEMENT – CKL

Series: AAF Series
(Bulk Liquid Removal)

DESCRIPTION

CKL condensate separators have been developed for high efficient removal of bulk liquids from compressed air⁽¹⁾ and vacuum systems.

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

For a proper operation of the condensate separator insert the flow direction needs to be from outside to inside. Compressed air entering the separator housing is redirected by the water separator insert to a cyclone flow. "Heavy" liquid contaminants within the compressed air are pushed against the inner wall of the housing this way (centrifugal forces), finally draining into the bottom of the housing by gravity while the compressed air, freed from a major part of liquid contaminants, is flowing towards to outlet in the middle of the housing.



FILTER ELEMENT RATING ACCORDING TO ISO 8573-1

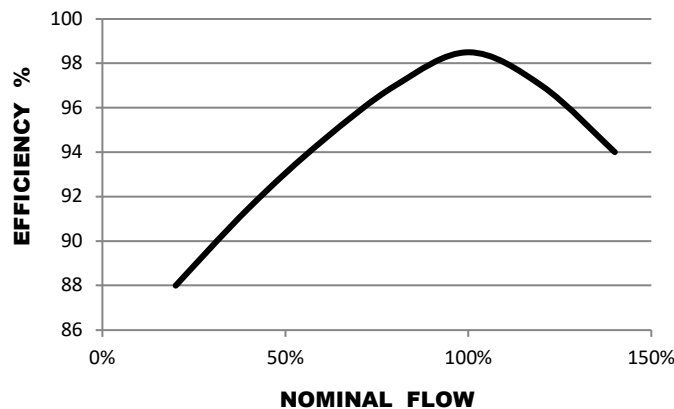
Solid particles class	Water class	Oil class
/	8	/

Typical result, on the assumption of suitable inlet concentrations as well as operating and marginal conditions.

TECHNICAL SPECIFICATION

Operating temperature	1,5 - 65 °C / 35 - 149 °F
Operating pressure	0 - 16 barg / 0 - 232 psi
Efficiency ⁽²⁾	>98%
Flow Direction	OUTSIDE to INSIDE

⁽²⁾ Under nominal flow, 20°C, inlet droplet size 10µm - 30µm



MATERIALS

Outer cylinder	Stainless steel 1.4301
Support (inner)	Stainless steel 1.4301
Bonding	Polyurethane
Endcaps	PA6
Sealing	NBR

SIZES

Model	Diameter [mm]	Height [mm]	Flow Capacity [Nm ³ /h]	Flow Capacity [scfm]	Fits into filter housing
CKL-AAF 0006	33	42	10	6	AAF 0006
CKL-AAF 0016	33	62	18	11	AAF 0016
CKL-AAF 0026	50	38	25	15	AAF 0026
CKL-AAF 0036	50	38	30	18	AAF 0036
CKL-AAF 0056	61	64	60	35	AAF 0056
CKL-AAF 0076	61	74	78	46	AAF 0076
CKL-AAF 0106	61	139	120	70	AAF 0106
CKL-AAF 0186	94	124	198	116	AAF 0186
CKL-AAF 0476	94	325	510	300	AAF 0476
CKL-AAF 0706	94	505	780	459	AAF 0706

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} x C_{OT}


OPERATING PRESSURE

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C _{OP}	0,38	0,5	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

OPERATING TEMPERATURE

[°C]	2	5	10	15	20	25	30	35	40	45	50	55	60	65
[°F]	35,6	41	50	59	68	77	86	95	104	113	122	131	140	149
C _{OT}	1,07	1,05	1,04	1,02	1,00	0,98	0,97	0,95	0,94	0,92	0,91	0,89	0,88	0,87

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015
---	---