Process technology | CLEARPOINT® V

Achieving minimum residual oil concentrations at affordable prices: CLEARPOINT® V activated carbon adsorber

The CLEARPOINT® V activated carbon adsorber is the ideal solution for top quality compressed air with a residual oil content of maximum 0.003 mg/m³.

The CLEARPOINT® V activated carbon adsorber is not only extremely efficient and reliable, but also very cost-effective. It has become an indispensable component in compressed air processing plants. Advanced overall design for outstanding performance.

The perfect match

CLEARPOINT® V activated carbon adsorbers are available as combined units including a METPOINT® OCV compact residual oil vapour measuring system. The METPOINT® OCV compact allows for the continuous online monitoring and documentation of the residual oil vapour concentration measured directly at the compressed air outlet of the activated carbon adsorber. The METPOINT® OCV compact boosts the process safety of your system.

- **Efficient oil vapour adsorption with special activated carbon**
- **Reduced operating costs thanks to low differential pressure and long service life**
- **Complete solution with oil-free dust filter**
- **Available with optional oil test indicator or METPOINT OCV compact residual oil content monitoring unit for extra safety in production processes**

Better through Responsibility

BEKO

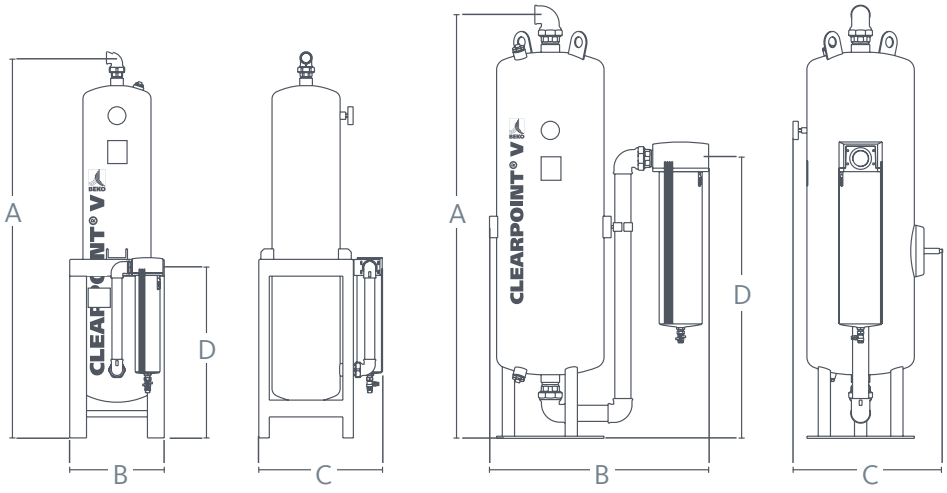
Residual oil aerosol and vapour content at outlet:
better than DIN ISO 8573-1 class 1
(max. 0.003 mg/m³ at 20 °C and 1 bar [a])
for solids up to 1 µm;
for more stringent requirements, install
0.01 µm dust filter

Inlet air: Pressure dew point < 7 °C
(corresponding to rel. humidity < 35% at
25 °C or 20% at 35 °C)
Residual oil aerosol concentration max. 0.01 mg/m³
at 20 °C and 1 bar [a]

Note: At high oil aerosol concentrations
(> 2 mg/m³) at the inlet, install multi-stage
prefiltration

Adsorber operating temperature:
max. 50 °C, recommended 35 °C

Max. operating pressure: 16 bar [gauge],
from L 295 V: 11 bar [gauge]



CLEARPOINT® V	L 205 VWM	L 210 VWM	L 215 VWM	L 220 VWM	L 225 VWM	L 230 VWM	L 240 VWM	L 250 VWM	L 260 VWM	L 275 VWM	L 295 VWM
Adsorber service life* at 35 °C [h]	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Connection	G 1"	G 1"	G 1"	G 1½"	G 1½"	G 1½"	G 2"	G 2"	G 2½"	G 2½"	G 2½"
Volume flow* at 7 bar [gauge] (m³/h)	135	155	200	280	380	500	630	800	1000	1250	1550
Dimensions											
A (in mm)	1580	1490	1490	1850	1850	1810	1980	1940	1980	1980	2080
B (in mm)	340	340	340	450	450	450	735	935	1020	1020	1085
C (in mm)	440	440	440	590	590	590	565	595	700	700	730
D (in mm)	680	680	680	810	810	810	1430	1430	1305	1305	1310
Weight (kg)	65	95	95	145	145	172	210	240	300	300	380
PED97/23/EC category, fluid group 2	II	II	II	III	III	III	III	III	IV	IV	IV

The above performance data
apply to the following operating conditions:
* 7 bar [gauge], 35 °C, rel. humidity 30 %

Deviating operating pressures require different adsorber sizes.
Deviating inlet temperatures affect the service life of the activated carbon.
When choosing an activated carbon absorber for your specific application, contact our specialists.

Correction factors for size and service life

Operating pressure bar [gauge]	4	5	6	7	8	9	10	11	12	13	14	15	16
Fp	0.62	0.75	0.88	1	1.08	1.15	1.21	1.26	1.3	1.37	1.43	1.48	1.53

Inlet temperature [°C]	35° C	40° C	45° C	50° C
Ft	1	1.33	1.54	1.82

BEKO TECHNOLOGIES Ltd
Unit 11-12 Moons Park
Burnt Meadow Road
North Moons Moat
Redditch, B98 9PA

Phone +44 (0) 1527 575778
info@beko-technologies.co.uk
www.beko-technologies.co.uk

78-00453