

AIRCON® V

The AIRCON® is a mobile replaceable adsorption filter which has been specially developed for air and gas treatment and purification.



KEY FEATURES

- quick and easy to install and connect (plug & play)
- can be hired without investment and maintenance costs (via daily contracts)
- no handling of activated carbon on site
- combined transport vessel and filter
- option to test and evaluate new applications without capital investment
- efficient design (low pressure drop / high kinetics), can be installed in series or in parallel

SPECIAL FEATURES

- vertical filter that requires little floor space
- high flow rate per filter module
- sampling point for saturated activated carbon

DIMENSIONS

h: 7.1m x 2.6m x 2.4m



TECHNICAL INFORMATION
ON THE BACK

AIRCON® V

MAXIMUM FLOW RATE	40,000 m ³ /h
MINIMUM FLOW RATE	4,000 m ³ /h
MATERIAL	steel
COATING	Finliner
DIMENSIONS	h: 7.1m x 2.6m x 2.4m
TOTAL VOLUME	40 m ³
MAXIMUM FILL VOLUME	13.5 m ³
MAXIMUM WEIGHT, DRAINED	17.5 tonnes
MAXIMUM FULL LOAD	17,5 ton
TARE	5000 kg
MAXIMUM PRESSURE	100 mbar
EXCESS PRESSURE PROTECTION	to be provided by customer
MAXIMUM NEGATIVE PRESSURE	100 mbar
NEGATIVE PRESSURE PROTECTION	to be provided by customer
OPERATING TEMPERATURE	40°C
MAXIMUM DESIGN TEMPERATURE *	60°C
INLET **	800 diameter
OUTLET **	800 diameter
DRAIN **	1" brass/PTFE ball valve
SEALS	EPDM
PIPEWORK	-
SHUT-OFF VALVE	-
WATER / AIR SAMPLING - CUSTOMER	-
EARTHING	yes
VENTING	-
VENTING DATA TYPE	-
SIPHON BREAKER	-
PED 2014/68/EU	-

* A higher temperature should always be discussed upfront with the sales department and requires extra safety measures by the customer.

** Connections available according to customer requirements

It is the customer's responsibility to determine the suitability of the filter materials for the process flow. This filter is protect by a EU registered community design right, reference 001723511-0003 This filter is protect by a UK registered community design right, reference 90008982670002



For dimensioning please take a 30% security into account

SAFETY

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing activated carbon, appropriate sampling and work procedures including local requirements for potentially low-oxygen spaces should be followed. For certain groups of chemical products, the reaction with or adsorption by the activated carbon surface can be accompanied by the release of a large quantity of exothermic heat, which could give rise to hotspots in the activated carbon bed. In the event of the generally rare occurrence of such hotspots, it is recommended that the activated carbon bed be inertised with a gas such as nitrogen.



PRESSURE DROP CURVE

You can use the pressure-drop graph to calculate and predict the pressure drop (extra info on demand). The pressure drop is dependent on the particle size and the design of the filter itself, and should only be used as a guideline.



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