

# CA Series

CARBON CANISTER  
DIAMETER 152 – 273 mm

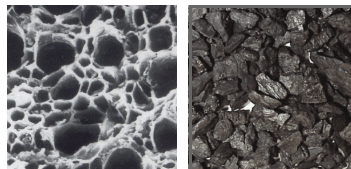


## MAIN APPLICATIONS:

- FINE CHEMICALS
- PETROCHEMICAL
- OIL & GAS
- POWER GENERATION
- GENERAL INDUSTRIES

## CHARACTERISTICS:

- Large diameter for high flow-rate
- Available in two diameters
- Large adsorbing capabilities
- Negligible initial Delta-P
- Two flow directions available: vertical and radial
- Tinned steel hardware
- Suitable for foaming agents removal
- Suitable for odours removal
- Suitable for hydrocarbons decolourisation



# ASCO FILTRI

a **mott** company

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## TECHNICAL DATA

### DIFFERENTIAL PRESSURE

*Canister replacement:*

1.0 bar @ 25 °C

*Max. allowable:*

6.0 bar @ 25 °C

### MAX. WORKING TEMPERATURE

*Max. recommended:*

50 °C

### CONSTRUCTION MATERIALS

*Hardware:*

- Tinned steel

*Barrier sleeve:*

- Cotton

*Gaskets:*

- Buna-n

### DIMENSIONS

*Vertical flow:*

0636 - Dia. 152/38 x H 914 mm

1120 - Dia. 273/52 x H 514 mm

1122 - Dia. 273/52 x H 565 mm

*Radial flow:*

1120 - Dia. 273/52 x H 514 mm

1122 - Dia. 273/52 x H 565 mm

### CARBON CHARGE

0636 - 7.80 kg

1120 - 14.0 kg

1122 - 15.5 kg

### RECOMMENDED FLOW-RATE

*Vertical flow:*

0636 - 200 l/h

1120 - 270 l/h

1122 - 300 l/h

*Radial flow:*

1120 - 270 l/h

1122 - 300 l/h

### Description

Carbon canister represent a valid alternative to the activated carbon bed filters, ideal for decolourising and adsorption of organics, liquid hydrocarbons, emulsions and foaming agents from liquids in the natural gas treatment process like amines, glycol or other process fluids.

Carbon canister CA series are specifically designed to be installed in natural gas treatment plants.

Carbon canister are filled with coal base granular activated carbon with a wide porous structure range to maximise the adsorption property. The average pore size of adopted coal base carbon is in the range of 23-25 Angstroms as the main purpose is to remove hydrocarbons with molecular weight larger than 225; on these applications, used activated carbon will adsorb approx. 250 mg of hydrocarbons for each gram of carbon.

Used activated carbon has approx. 1150 m<sup>2</sup> contact surface for each gram of carbon; for example, the model 1120, offer a contact surface of above 16.1 millions of m<sup>2</sup>.

Factors affecting activated carbon adsorption performance include working temperature, contact time and contaminants nature.

The max. recommended working temperature is 50 °C; when working temperature exceed 65 °C the adsorption capability are reduced at level to make totally ineffective their use.

Similarly, high flow and reduced contact time reduce the ability of the carbon to capture and retain contaminants as well as cause abrasion within the carbon bed.

Activated carbon canister, as good practice, should be protected upstream with a proper pre-filtration to prevent premature fouling and downstream a post filter is recommended to avoid that carbon fines are dispersed in the system.

Activated carbon filters should not develop any significant differential pressure drop over the time, replacement can be done according to scheduled maintenance if fluids contamination is highly constant or keeping under control the filtrate quality.

**Contact us for any further information.**

We reserve the right to change the data of this specification without notice.

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