# CITYCARB CH

V-Bank Filter

### ADVANTAGES

- High particle filtration efficiency
- Can be used to upgrade existing installations
- Rapid Adsorption Dynamics (RAD)
- Compact “2-in-1” filtration solution; particulate and molecular
- Ideal for filtering organic acids
- 100% incinerable

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|---|---|
| **Application** | Particle and odour removal in museums, art galleries, libraries etc |
| **Type** | V-Bank Filter |
| **Frame** | Plastic |
| **Gasket** | Polyurethane, endless foamed |
| **Media** | Synthetic/Activated Carbon |
| **Dimensions** | Filter front dimensions according EN 15805 |
| **Max airflow** | 1,25 x nominal flow |
| **Temperature max** | 50°C |
| **RH. max** | 70% |
| **Installation Options** | Front and side access housings and frames are available |

A compact filter with an additional molecular filtration media layer to provide enhanced IAQ through combined particle filtration and gas filtration.

CityCarb is the ultimate solution when a high performance compact filter and a high performance molecular (gas, odour) filter must be installed in a single location. High efficiency particle filtration media is combined with an exclusive "targeted" molecular filtration media that exploits the benefits of "Rapid Adsorption Dynamics" (RAD) to specifically remove low molecular weight organic acids. These contaminants are unavoidably released from wood and paper based artefacts in cultural heritage establishments due to the degradation of cellulosic polymers. As the target pollutants are from internal sources, the CityCarb CH filter should be mounted in the recirculation or return air system. CityCarb HC
is also extremely effective against the external source pollutants; ozone and nitrogen dioxide.

The filter should be replaced when the pressure loss exceeds the maximum allowable value for the ventilation system or after a maximum of one year. In accordance with good practice, used CityCarb filters should be bagged immediately after removal and disposed of by the appropriate route.

| Type | EN779 | ISO 16890 | Dimensions WxHxD (mm) | Air Flow/pressure drop ($m^3$/h/Pa) | Media area ($m^2$) | Weight (kg) | ePM1 | ePM1min | ePM2,5 | ePM2,5min | ePM10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CIZP-7C 0592/0592/0292 | F7 | ePM1 70% | 592x592x292 | 3400/130 | 8 | 9,6 | 71 | 55 | 79 | 68 | 93 |
| CIZP-7C 0592/0287/0292 | F7 | ePM1 70% | 592x287x292 | 1500/130 | 3,8 | 5 | | | | | |
| CIZP-7C 0592/0490/0292 | F7 | ePM1 70% | 592x490x292 | 2800/130 | 6,6 | 7 | | | | | |

Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2019
Energy class: according to Eurovent RS 4/C/001-2019





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