



## MANN+HUMMEL Contact

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## MANN+HUMMEL Group

MANN+HUMMEL is a leading global expert for filtration solutions. The company group with its headquarters in Ludwigsburg, Germany, develops solutions for motor cars, industrial applications, clean air in interior spaces and the sustainable use of water. In 2018 the group achieved sales of approx. 4 billion euros worldwide with more than 20,000 employees at more than 80 locations. The products manufactured by the group include air cleaner systems, intake manifold systems, liquid filter systems, plastic components, filter media, cabin filters, industrial filters and membrane filters.

Further information about MANN+HUMMEL is available on our website.

MANN+HUMMEL  
ENTARON FC  
Cathode air cleaner  
for fuel cells



- ✓ Flexible housing
- ✓ Easy service
- ✓ Enhanced gas adsorption

# Functional description

The adsorption of critical gases from the cathode air can cause irreversible damage to the catalyst of fuel cells that leads to a loss of performance. The ENTARON FC cathode air cleaner extends the service life of the fuel cell system by reliably protecting the catalyst from these gases.

It also protects the system from channel blocking and wear by separating particles from the cathode air.

## High-performance filter element

- **Well balanced gas adsorption performance** for various gases due to in-house blended activated carbon media
- **Increased adsorption power density** utilizing an award-winning wound layer element design
- **Optimized differential pressure** while boasting advanced gas removal capacity

## Compact housing concept

- **Tool-less and easy service** due to color-coded comfort fasteners
- **Flexible configuration** of the raw air inlet and freely positionable 90 degree elbows, with integrated MAF connection on request
- **Simple installation** by integrated brackets on the housing with through-holes or threaded inserts

# Technical information



Technical features	ENTARON FC 4	ENTARON FC 7.5
Dimensions (housing)	Ø 164 mm x length 330 mm	Ø 216 mm x length 360 mm
Adsorption of	Toluene, n-Butane, Sulfur dioxide (SO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Ammonia (NH <sub>3</sub> )	Toluene, n-Butane, Sulfur dioxide (SO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Ammonia (NH <sub>3</sub> )
Efficiency acc. to DIN 71460	> 80 % @ 0,5 µm (100 m <sup>3</sup> /h) > 98 % @ 5,0 µm (100 m <sup>3</sup> /h)	> 80 % @ 0,5 µm (150 m <sup>3</sup> /h) > 98 % @ 5,0 µm (150 m <sup>3</sup> /h)
Differential pressure	1,3 mbar @ 50 m <sup>3</sup> /h 4,0 mbar @ 100 m <sup>3</sup> /h 7,9 mbar @ 150 m <sup>3</sup> /h 12,8 mbar @ 200 m <sup>3</sup> /h	2,1 mbar @ 100 m <sup>3</sup> /h 5,8 mbar @ 200 m <sup>3</sup> /h 10,6 mbar @ 300 m <sup>3</sup> /h 16,5 mbar @ 400 m <sup>3</sup> /h
Mounting position	Vertical and horizontal position possible	Vertical and horizontal position possible
Service concept	Front servicing with comfort fasteners	Front servicing with comfort fasteners
Protection against water	yes	yes

MANN+HUMMEL is able to use its many years of experience in the area of filtration to meet the requirements for future mobility.



Open the QR-code for more information about products for e-mobility and fuel cell applications from MANN+HUMMEL.