# IonFree Generation II Ion exchange filter for fuel cells





## MANN+HUMMEL IonFree Generation II Ion exchange filter for fuel cells

#### **Functional description**

- Protection against electrical shorts in the stack: lonFree keeps the conductivity of cooling liquid in fuel cells low through ion exchange technology
- Optimum protection: high quality ion exchange resin regarding capacity and purity
- Easy to adapt: different sizes, mounting positions, stud angles and stud types allow easy fit in almost every installation space
- Clean and easy service: no loss of high quality coolant as only the cartridge needs to be replaced

Large variety of possibilities for you to configure our modular kit to fit your specific application.

Please refer to our ion exchange filter family OmniFlow designed for multiple industry segments and applications such as material handling equipment, stationary applications and many more.

Over 12 years experience with ion exchange filters



Open the website for more information about products for electrified powertrains from MANN+HUMMEL.



Watch the video of the ion exchange filter for fuel cell systems.



Visit our E-Mobility Onlineshop to check our offerings and buy directly.

MANN+HUMMEL memberships and partnerships in e-mobility and fuel cells:

### **Hydrogen** Council



















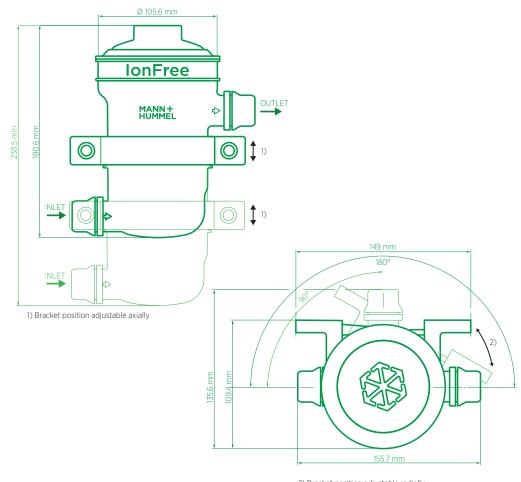


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#### **Technical specification**

	Medium capacity	High capacity
Capacity (cation + anion)	820 meg	1,190 meg
Amount of brackets	1	2
Flow direction	Bottom up	
Mounting orientation	Vertical	
Connector	DIN 3021-A 26 or VDA coupling DN 20	
lon exchange resin	1:1 mixed bed of anion and cation resin in OH <sup>-</sup> / H <sup>+</sup> form	
Max. pressure (absolute)	4.0 bar	
Operating temperature	-40 °C to +90 °C	
Electrical conductivity	< 5 µS/cm	
Pressure loss (@ 10 l/min, 90 °C)	< 190 mbar	< 250 mbar
Product weight	756 g	1065 g
Cartridge spare part order number	ION 7003	ION 7004
Replaceable with a 36 mm hexagon		

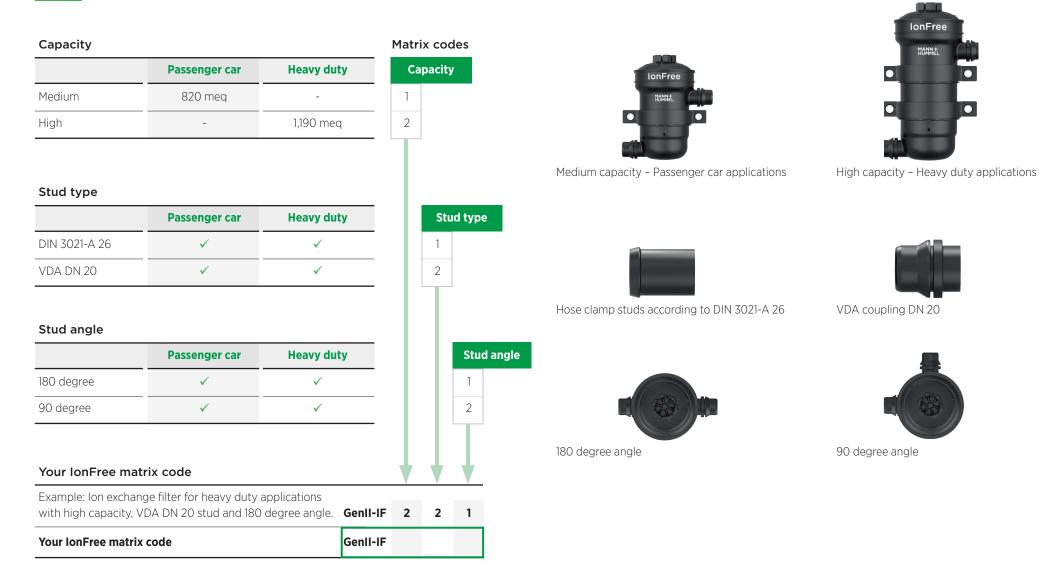
#### **Dimensions**



2) Bracket position adjustable radially



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### **MANN+HUMMEL Contact**

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