CoolantClean
Coolant particle filter for fuel cells and further xEV applications

- ✓ Compact design
- ✓ Lowest pressure drop
- ✓ Suitable materials

Leadership in Filtration

MANN+HUMMEL

MANN+HUMMEL CoolantClean
Coolant Particle Filter for Fuel Cells and Further xEV Applications

Product Features and Concept Advantages

- Best protection of liquid cooled computers, fuel cell stacks and battery systems
- Prevention of blocking of the cooling channels: Removal of particles from the coolant, both in case of initial contamination and during operation
- Lowest pressure drop at high flow rates
- Slim and light design allows an easy integration into the coolant loop
- Different housing and mesh material options that are compatible with coolants and prevent leaching of additives which would increase the coolant conductivity
- Additional customized solutions upon request

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

Hydrogen Council

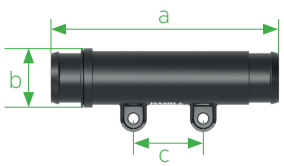
elektromobilität süd-west

brennstoffzelle BW

VDMA Brennstoffzellen

FVV

Technical Specification

Size	CoolantClean 50	CoolantClean 180	CoolantClean 250
Application focus	Computer cooling (e.g. self-driving vehicles)		
	Battery cooling (battery electric vehicles)		
		Stack cooling (fuel cell vehicles)	
	Other automotive, industrial & stationary cooling applications		
Stud type / Size	DIN 3021-B 20	DIN 3021-A 38	DIN 3021-A 46
Dimensions [mm]	   		
	a: 175 b: 50.8	a: 212.8 b: 48 c: 65	a: 212.8 b: 55 c: 65
Flow rate	≤ 50 l/min	≤ 180 l/min	≤ 250 l/min
Differential pressure	125 mbar @ 50 l/min	170 mbar @ 180 l/min	125 mbar @ 250 l/min
System pressure	≤ 2 bar		
Materials	PA6-GF30 (housing) PA (mesh)	PP-GF30 (housing) PP (mesh)	
Cut-off of relevant particle size	> 99 % @ 120 µm	> 99 % @ 175 µm	
Operating temperature	-40 °C to +60 °C	-40 °C to +90 °C	
Service interval	Lifetime / Service Part		
Arrangement in the system	■ Full flow or bypass mode ■ Multiple orientations possible ■ Nearby the inlet of the protected component		

MANN+HUMMEL

MANN+HUMMEL Contact

Sales
Sina Lamparter
Sales Manager New Products
sina.lamparter@mann-hummel.com
Phone: +49 7141 98-3484

Engineering
Andreas Wildermuth
Development coolant particle filter
andreas.wildermuth@mann-hummel.com
Phone: +49 7141 98-2589