

CoolantClean – Coolant particle filter for fuel cells and further xEV applications



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

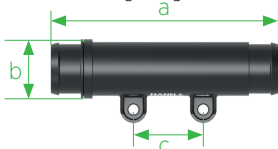


MANN+HUMMEL memberships and partnerships in e-mobility and fuel cells:



Hydrogen Council



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-A 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		≤ 3 bar	
Materials		PP-GF30 (housing) PP (mesh)	
Cut-off of relevant particle size	> 99 % @ 120 µm		> 99 % @ 175 µm
Operating temperature	-40 °C to +90 °C		
Service interval	Lifetime / Service Part		
Arrangement in the system	<ul style="list-style-type: none"> ■ Full flow or bypass mode ■ Multiple orientations possible ■ Nearby the inlet of the protected component 		



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Watch the video of the coolant
particle filter for fuel cells and
further xEV applications.



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