

2 PRODUCT INFORMATION

TECHNICAL DATA - HYDRONIC 3

Heater type		Hydronic 3			
Heater version		D 5 E		B 5 E	
Heating medium		Mixture of water and anti-freeze (Proportion of antifreeze at least 10 % up to 50 % maximum)			
Fuel		Diesel – standard commercially available (EN 590) Blending with max. 30% FAME according to EN 14214 is permitted.		Petrol – standard commercially available (DIN 51600 and EN 228)	
Rated voltage		12 volt			
Control of the heat flow		Maximum	Minimum	Maximum	Minimum
Heat flow (watt)		5000	1300	5000	1800
Fuel consumption (l/h)		0.59	0.15	0.67	0.23
Average electrical power consumption (watt)		during operation		while starting	
without water pump, without vehicle fan relay		32	5	32	7
Operating range		135			
Lower voltage limit: An undervoltage protection installed in the control box switches off the heater if the lower voltage limit is reached.		10.5 volt			
Upper voltage limit: An overvoltage protection installed in the control box switches off the heater if the upper voltage limit is reached.		16 volt			
Allowable operating pressure		up to 2.5 bar overpressure max.			
Water volume in the heater approx.		0.09 l			
Minimum water flow rate of the heater		300 l/h			
Allowable ambient temperature (Also note and follow the information for installation of the heater and metering pump!)		Heater		during operation	
				without operation	
		Metering pump		during / without operation	
				Storage	
		drawn-in combustion air		max. +45 °C, short-term +80 °C (15 minutes)	
				max. +25 °C, short-term +45 °C (15 minutes)	
Interference suppression class		5 (EN 55025)			
Weight – without coolant liquid and additional parts		2 kg			
Protection class to DIN 40050, Part 9		Heater (in operation)		IP5K6K	
		Heater (not in operation)		IP5K9K	
TECHNICAL DATA, WATER PUMP					
Rated voltage		12 volt			
Electrical power consumption		18 watt			
Delivery rate		600 l/h			
Delivery pressure difference		0.15 bar			



ATTENTION

Operating the heater outside the specified technical data can cause malfunctions.

→ The technical data must be complied with at all times.



NOTE

If no limit values are given, the technical data listed is with the usual heater tolerances of $\pm 10\%$ at nominal voltage and Esslingen reference altitude.