

Electrical specifications of the backup heaters and booster heaters

Backup heater	Type			6V					9W					
	Capacity setting			[kW]	2 - 4	2 - 6	2-4 (in case of emergency: 2-6)		6	3 - 6	3 - 9	3 - 6 (in case of emergency: 3 - 9)		
	Capacity stage				2	2	2	2	1	2	2	2	2	
	Capacity stage 1			kW	2	2	2	2	6	3	3	3	3	
	Capacity stage 2			kW	4	6	4	6	-	6	9	6	9	
	Minimum time delay between stages				Note 4					Note 4				
Power supply	Phase				1~					3~				
		Frequency						Hz			50			
	Voltage						V			230 +/-10%				
	Nominal running current						A			17,4 26,1 17,4 26,1 15 8,7 13 8,7 13				
	Current	Zmax (backup heater2)						Ω			-			
		Minimum Ssc value						Complex			0,22			
						kVA			(3)					
Booster heater (optional)(*KH W* models)	Capacity setting						kW			3				
	Capacity stage									1				
	Minimum time delay between stages									Note 5				
	Nominal running current						+EK*V3			A				
	Booster heater						+EK*Z2			13				
	Zmax	Booster heater	(2)				Ω			75				
Nominal running current	Backup heater +	Booster heater	Backup heater + EK*V3			A			30,4 (17,4+13) 39,1 (26,1+13) 30,4 (17,4+13) 39,1 (26,1+13) 28 (15 + 13) 21,7 (8,7+13) 26 (13+13) 21,7 (8,7+13) 26 (13+13)					
			Backup heater + EK*Z2			A			22,5 (15 + 7,5) 16,2 (8,7+7,5) 20,5 (13+7,5) 16,2 (8,7+7,5) 20,5 (13+7,5)					
Minimum Ssc value	Backup heater +	Booster heater + EK*V3	kVA			(3)				(3)				
			Booster heater + EK*Z2			kVA			-				(3)	
Notes	(1)			The above-mentioned power supply of the hydrobox is for the backup heater only.										
	(2)			The optional domestic hot water tank has a separate power supply. In accordance with EN/IEC 61000-3-11, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys ≤ Zmax.										
	(3)			The equipment complies with EN/IEC 61000-3-12.										
	EN/IEC 61000-3-11			European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A.										
	EN/IEC 61000-3-12			European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase.										
Zsys			System impedance											

