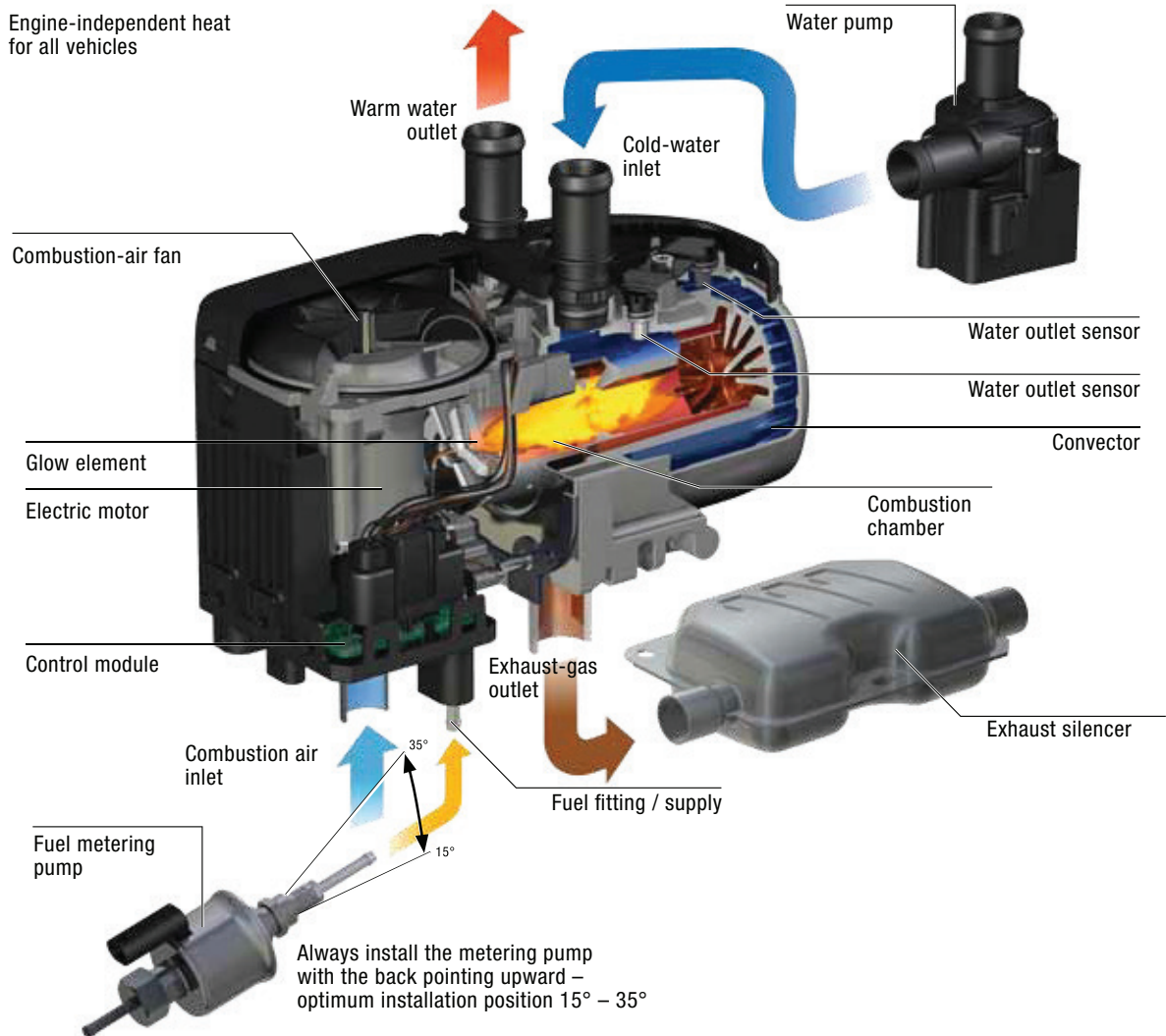


PRODUCT INFORMATION

HYDRONIC S3 ECONOMY: TECHNOLOGY



HYDRONIC S3 ECONOMY* FUNCTIONS:

- Combustion air is conveyed to the combustion chamber by the fan motor and impeller.
- Fuel is drawn from the vehicle's tank.
- Fuel is delivered to the combustion chamber by the metering pump (reciprocating pump).
- The glow element vaporizes this fuel as it enters the combustion chamber and creates a combustible fuel-air mix with the combustion air.
- The resulting flame formation switches off the glow element, transfers the heat to the cooling water via the convector, and diverts exhaust gas via the exhaust silencer.
- The cooling water circulation pump conveys cool water to the heater, where it is warmed by the convector and then routed to the vehicle's convector and combustion engine.

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PRODUCT INFORMATION - Hydronic S3 heaters



EBERSPÄCHER HYDRONIC

Heater	Hydronic S3 Economy	Hydronic S3 Economy	Hydronic S3 Economy	Hydronic S3 Economy
Product package	Heater	Heater	Heater	Heater
Techn. designation	HS3 CS B5E	HS3 CL B5E	HS3 CS D5E	HS3 CL D5E
Order no. for heater	20.2051.05.0000	20.2048.05.0000	25.2993.05.0000	25.2971.05.0000
Order no. for heater with PRMP*	-	-	25.2994.05.0000	25.2990.05.0000
Fuel	Gasoline	Gasoline	Diesel	Diesel
Voltage V	12	12	12	12
Heating medium	Mixture of water and anti-freeze (Proportion of antifreeze at least 10 % up to 50 % maximum)			
Control / heat settings	Infinitely variable	Infinitely variable	Infinitely variable	Infinitely variable
Heat output W	1,800 to 5,000	1,800 to 5,000	1,300 to 5,000	1,300 to 5,000
Fuel consumption l / h	0.23 / 0.67	0.23 / 0.67	0.15 / 0.59	0.15 / 0.59
Power consumption, heater W	7 / 32	7 / 32	5 / 32	5 / 32
Power consumption, water pump W	17	17	17	17
Elec. power consumption, start W	135	135	135	135
Minimum water throughput l / h	300	300	300	300
Lower voltage limit V	10.5	10.5	10.5	10.5
Upper voltage limit V	16	16	16	16
Protection rating	Heater: IP5K6K, IP5K9K, Control module: IP6K6K, IP6K9K			
Dimensions L x W x H mm	215 x 91 x 124	215 x 91 x 124	215 x 91 x 124	215 x 91 x 124
Weight empty kg	2.0	2.0	2.0	2.0



EBERSPÄCHER HYDRONIC

Heater	HS3 CS D6L Commercial			
Product package	Heater			
Order no. for heater	25.2972.05.0000			
Fuel	Diesel - standard commercially available (EN 590) Blending with max. 30 % FAME according to EN 14214 is permitted.			
Voltage V	24			
Heating medium	Mixture of water and anti-freeze (Proportion of antifreeze at least 10 % up to 50 % maximum)			
Control / heat settings	Infinitely variable			
Heat output W	1,300 to 5,600			
Fuel consumption l / h	0.15 / 0.65			
Power consumption, heater W	5 / 37			
Power consumption, water pump W	11			
Elec. power consumption, start W	135			
Minimum water throughput l / h	300			
Lower voltage limit V	20.4			
Upper voltage limit V	32			
Interference suppression	5 (DIN EN 55025)			
Dimensions L x W x H mm	215 x 91 x 124			
Weight empty kg	2.0			

*PRMP: Pressure resistant metering pump

HYDRONIC HS3 CS
COOLANT HEATER - 17,100 BTU / 19,100 BTU

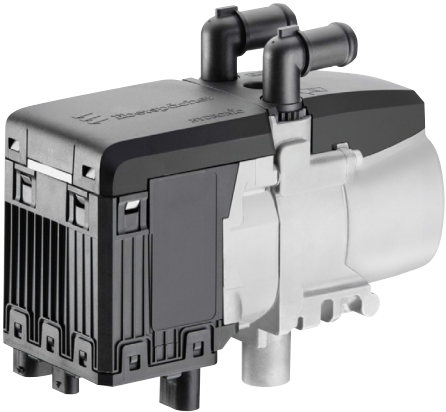
		Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pick-up Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Portal Instructions
HYDRONIC HS3 D5E/D6L CS - DIESEL													
D5E 12V Economy with FMP and water pump - No installation parts	25.2993.05.0000												
D6L 24V Commercial with FMP and water pump - No installation parts	25.2972.05.0000												
HEATER WITH INSTALLATION KIT													
Install Kit HS3 CS D5E 12 V	25.2829.34.0500												
Install Kit HS3 CS D5E Boxed 12 V Right	25.2829.34.0501												
Install Kit HS3 CS D5E Boxed 12 V Left	25.2829.34.0505												
Install Kit HS3 CS D5E 12 V w/ EPRO U/P	25.2829.34.0504												
CONVERSION KIT - HYD1-S/SC TO HS3CS D5E 12V	25.2829.40.2993												
Install Kit HS3 CS D6L 24 V	25.2827.45.0600												
Install Kit HS3 CS D6L Boxed 24 V Right	25.2827.45.0601												
CONVERSION KIT - HYD1-S/SC TO HS3CS D5E 24V	25.2829.40.2972												
HYDRONIC HS3 B5E CS - GASOLINE													
B5E 12V Economy with FMP and water pump - No installation parts	20.2051.05.0000												
HEATER WITH INSTALLATION KIT													
Install Kit HS3 CS B5E 12 V	25.2820.51.0500												
HS1 to HS3 TRANSITION HARNESSES KIT													
HS1 to HS3 heater harness adaptor	20.2900.70.0516												
Ax1 to Ax2/x3 FMP harness adaptor	20.2900.70.0026												

Item in the kit

HYDRONIC HS3 B/D5E/D6L CS



Boxed Kit



Hydronic S3 heater

HARDWARE KIT INCLUDES:

- Fuel Clamps
- Grommets
- Ducting Clamps
- End Caps
- Nuts
- Exhaust Clamps
- Washers
- Exhaust Brackets
- Cable Ties
- Mounting Screws
- Routing Clamps

FUEL SYSTEM INCLUDES:

- Clamps
- 5 mm Fuel Line
- Plastic Fuel Line
- 3.5 mm Fuel Line

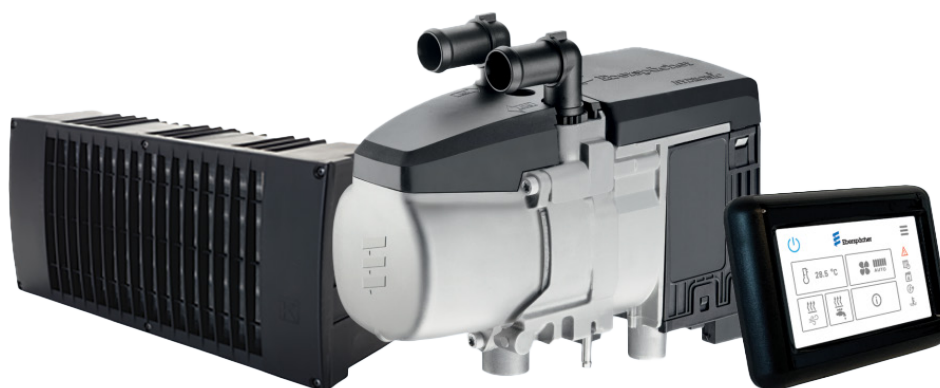
Refer to the Accessories Section for ducting components and additional accessories.

HYDRONIC AQUASYSTEM FOR RV's
HS3 - 17,100 BTU

Hydronic AquaSystem NA - DIESEL	
Install Kit with HS3 D5 12V	25.2800.10.0001
Hydronic AquaSystem NA - GASOLINE	
Install Kit with HS3 B5E 12V	25.2800.10.0002

* Heating Element 1500 W /120 VAC

■ Item in the kit



HARNESSES INCLUDES :

- 1 Hydronic S3 heater harness
Touch Screen harness
Control Power harness
- 2 Coolant pump harness
CAN Bus extension harness

HARDWARE KIT INCLUDES :

- | | | | |
|---|----------------|-----------------|------------------|
| 4 | Grommets | End Caps | Nuts |
| | Exhaust Clamps | Washers | Exhaust Brackets |
| | Cable Ties | Mounting Screws | Routing Clamps |

FUEL SYSTEM INCLUDES :

- Plastic fuel line 2mm X 8.0m~
Fuel hose 3.5mm X 50mm~
Fuel line adaptor 3.5 TO 5 MM
FMP holder
Clamps

Refer to the Accessories Section for ducting components and additional accessories.









CONTROL OPTIONS AND TIMERS

Control units



Model	EasyStart Pro	EasyStart Timer	EasyStart Select	Airtronic mini-controller
Order number	22.1000.35.2200	22.1000.34.1500	22.1000.34.1300	22.1000.32.0700
Interface	CAN	LIN, S+	LIN	S+

Control unit compatibility with heaters

	Hydronic S3 12V CS Economy	CAN	S+ *	-	-
	Hydronic S3 24V CS Commercial	CAN	S+ *	-	-
	Hydronic S3 12V CL Economy	-	LIN	LIN	-
	Hydronic M II 12/24 V	-	LIN	LIN	-
	Hydronic L3 24V (16/24/30/35 kW)	CAN / E-Control	LIN	LIN	-
	Airtronic S3/M3/L3 12 V Commercial	CAN	LIN	LIN	S+ **
	Airtronic M3 12V Recreational	CAN	LIN	LIN	S+ **
	Airtronic S3/M3/L3/XL3 24V Commercial	CAN	S+ * No setpoint input possible	-	S+ **

* With restricted function: diagnostics cannot be run via the control unit

** With restricted function: no external temperature sensor possible

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CONTROL OPTIONS AND TIMERS

- EASYSTART PRO



1. Advantages (functions):

- Intuitive navigation via a control knob
- Integrated temperature sensor
- Operation of up to two heaters separately or two identical (Airtronic or Hydronic) heaters in a group
- Simple plain text diagnostics for users
- Detailed diagnostics function for the workshop
- Integrated residual heat function for Hydronic (CS) heaters: efficient heating using the engine's residual heat
- Altitude mode can be activated manually above 1,500 m (Hydronic S3 Economy (CS))
- Easy-to-read system status display (home screen)
- Timer function: up to three programming locations available
- Display and LED color ring for clearly indicating the status in all operating conditions
- Various installation variants possible (surface mounting with concealed or visible cable routing, flush mounting)
- Mounting-optimized ribbon cable
- Endless heater operating time can be set (Airtronic 2 + Airtronic 3 and Hydronic S3 (CS))
- Menu operation available in English and German, as well as 25 other languages via EasyScan

2. Additional features:

- Setup assistant simplifies installation
- Maintenance interval setting possible
- Immediate heating via the long-press function
- Integration of an additional CAN control unit possible: EasyStart Web (from Q2/2020) or additional EasyStart Pro
- Permanent display illumination possible
- ADR compliant
- Easy diagnostics via EasyScan; no disassembly required

Technical data:

Order number		22.1000.35.2200
Dimensions L x W x H	mm	81.8 x 37.0 x 13.5 (without control knob) 81.8 x 37.0 x 18.6 (with control knob)
IP type of protection		IP5K2
Average standby current draw	mA	< 0.4
Operating temperature	°C	−40 to +85

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