



Our sign
CC/John Dennehy

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Date
Aug 12, 2016

Circular

N-010 CAD

Receiving reference:

MSD / DD North America

State-of-the-art heating with the New Eberspächer Hydronic S3 Economy (5kW) Pre-heater System

Ladies and Gentlemen,

Eberspächer, the leading system developer and supplier of vehicle heaters, is expanding its product portfolio with the new Hydronic S3 Economy (5kW) pre-heater. The water heater impresses thanks to its compact dimensions and flexible installation options for simple retrofitting in a large number of vehicle models. As a ground-breaking all-in-one solution with comprehensive peripheral devices, it offers installation partners many practical advantages. With the new EasyScan, diagnostic and service tool, workshop staff can analyze the operating condition of the pre-heater easily and quickly.

- Compact, efficient water heater
- Innovative peripheral devices and new diagnostic device
- Simplified installation
- CARB approved

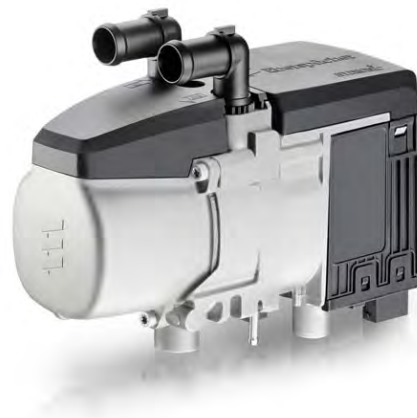
Hydronic S3 Economy (5kW)

Definition:

Hydronic – Water & Electronic, Product line, water heater

S3 – Size and generation, Size (small) Generation 3

Economy – Marketing appendix, entry model



Compact and robust water heater for simple installation

With the third generation of its Hydronic series, Eberspächer is offering an easy-to-operate pre-heater with stepless heating power control. The coolant heater works efficiently with all popular types of fuel. Due to its robust construction – with an encapsulated fan motor and the separation of cold and hot components – it is designed for longevity. A high IP protection class also secures the unit from the ingress of water during high-pressure or steam jet cleaning. The new water spigots are fully rotatable by 360 degrees and are fully replaceable, they ensure convenient and rapid fitting in a range of installation positions. Optimized brackets enable the pre-heater to be mounted anywhere in the smallest possible space and to be attached rapidly and permanently.





Diagnostic and service tool to OEM standards

In the shape of EasyScan, installation partners receive an easy-to-operate diagnostic and service device for comprehensively analyzing the current operating conditions of the heater system. This includes support during the initial start-up of the heating system, the fault analysis of the device and components, a fault output in plain text as well as the functional test of vehicle applications. Workshops can save the results in the form of clear graphics for later evaluation. The diagnostic and service device can be connected via a CAN bus interface to the Hydronic S3 Economy for data transfer. The new EasyScan supersedes the previous diagnostic system, EDiTH, and is also backward compatible with air and water heaters made from 2007/2009.



Information on the operating principle of pre-heaters and on Eberspaecher's product range can be obtained from www.partner.eberspaecher.com.

Link to video: <https://www.youtube.com/watch?v=NJc6p8zl2A4>

P/N	Description	LIST PRICE (CAD)
20.1952.05.0000.0Z	HYDRONIC 3 B5E 12V (Gasoline)	\$2,084.20
25.2652.05.0000.0Z	HYDRONIC 3 D5E 12V (Diesel)	\$2,084.20
25.2819.52.0520.0Z	HYD 3 B5E HEATER ASSEMBLY 12V (Gasoline)	\$1,982.91
25.2826.52.0520.0Z	HYD 3 D5E HEATER ASSEMBLY 12V (Diesel)	\$1,982.91
25.2826.52.0540.0Z	BOXED HYD 3 D5E HEATER ASSEMBLY 12V RIGHT	\$2,412.47
25.2826.52.0545.0Z	BOXED HYD 3 D5E HEATER ASSEMBLY 12V LEFT	\$2,412.47
20.2812.15.2065.0Z	COMBO HEATER A2/DIGI HS3/EASY	\$3,829.32
20.2812.15.2066.0Z	COMBO AD2 DIGI/HS3 BOX RIGHT EASY START	\$4,381.20
20.2812.15.2067.0Z	COMBO AD2 DIGI/HS3 BOX LEFT EASY START	\$4,381.20
22.1550.89.0000.0Z	DIAGNOSTICS UNIT EASY SCAN	\$1,915.86

Best regards
Espar Products, Inc.

John Dennehy
VP Marketing & Communications
Eberspaecher Climate Control Systems

John Giglio
Marketing Coordinator
Eberspaecher Climate Control Systems



HYDRONIC S3 ECONOMY WATER HEATER



HYDRONIC S3 ECONOMY



NEW!



HYDRONIC S3 ECONOMY – OUR MOST COMPACT WATER HEATER:

By launching the Hydronic S3 Economy, Eberspächer introduces a compact water heater into the market that satisfies the latest requirements of all vehicle segments. Its compact dimensions and fantastic flexibility during installation are truly impressive. In addition, the Hydronic S3 Economy uses pioneering Eberspächer CAN bus technology and is made with robust components.

1. ADVANTAGES:

- Robust design
 - Encapsulated fan motor
 - Separation of hot and cold components
 - Electronically commutated motor
- Installation
 - Straight and 90° water spigots (rotate 360°), in any combination
 - New bracket concept
 - New installation recommendations and installation kits
- Diagnostics by using EasyScan
- 85% efficiency
- Uses Eberspächer CAN and LIN bus technology
- Operating temperature range: diesel -40°C to +80°C and petrol -40°C to +60°C
- Stepless heating power control
- Optimised water volume flow thanks to controlled water pump allows for faster window de-icing

2 FURTHER FEATURES:

- Can be used with gasoline, diesel, E10 and B30
- Diagnostic display possible via EasyStart TP7 control units
- Service life 3,000 h
- Elevation capability for up to 1,500 m above sea level, elevation gateway for up to 3,000 m above sea level is in preparation
- Connection diameters:
water 20 mm, exhaust gas 24 mm, combustion air 20 mm



TECHNICAL DATA:

Hydronic S3 Economy		Gasoline	Diesel
Version		B5E	D5E
Heating power control		stepless	
Heating capacity	kW BTu/hr	1.8 to 5.0 6,142 to 17,060	1.3 to 5.0 4,436 to 17,060
Voltage	V	12	
Power	without WP W	24	32
Consumption	with WP W	42	50
Fuel consumption	l/h gal/h	0.67 0.17	0.59 0.15
Operating temperature range	°C °F	-40 to +60 -40 to 140	-40 to +80 -40 to 176
Weight without WP, without MP	kg lbs	2.0 4.4	
Main dimensions L x W x H	mm in	215 x 91 x 124 8.4 x 3.6 x 4.9	
Protection rating		Heater: IP5K6K, IP5K9K, control unit: IP6K6K, IP6K9K*	

* The heater is protected against dust in harmful quantities, against powerful water jets under increased pressure and against water during high pressure / steam jet cleaning (provided it is not in operation). The control unit is fully dustproof, fully protected against powerful water jets under increased pressure, as well as against water during high pressure / steam jet cleaning (provided it is not in operation).



Air Resources Board



Matthew Rodriguez
Secretary for
Environmental Protection

Mary D. Nichols, Chair
9480 Telstar Avenue, Suite 4
El Monte, California 91731 • www.arb.ca.gov

Edmund G. Brown Jr.
Governor

July 21, 2016

Reference No. CIHD-2016-049

Mr. John Dennehy, VP Marketing
& Communications
Espar Products, Inc.
6099A Vipond Drive
Mississauga, Ontario
Canada, L5T 2B2

Dear Mr. Dennehy,

By this letter, the Air Resources Board (ARB) hereby approves one fuel-fired heater manufactured and marketed by Eberspächer (formerly Espar) as meeting the idling emissions reduction requirements specified in Sections 1958.8(a)(6)(D) and 2485(c)(3)(B) of Title 13, California Code of Regulations. The approved model is Hydronic S3 (small coolant heater). The heater is permitted to be installed and operated on all heavy-duty diesel-fueled vehicles with a gross vehicle weight rating (GVWR) over 14,000 pounds, and all diesel-fueled commercial motor vehicles with GVWR over 10,000 pounds.

To aid field identification and enforcement activities, Eberspächer may label the heater approved herein. The label, either a separate one or part of an existing label, may make reference to this approval, e.g., "ARB Approval # CIHD-2016-049" or some other phrase to this effect. The label shall be affixed to the heater and shall not be affixed to any exterior surface of the vehicle into which the heater is installed. The label shall not have an oval shape and shall not exceed 2 inches in height or 3 inches in width. Claims of being "approved" by ARB may be used, however, claims of being "certified" by ARB is not permitted, in any oral or written representations or advertisements.

No change may be made to the hardware or control calibrations of the heaters as described in Eberspächer's application dated May 26th, 2016 and all supplemental information provided for the approval herein, unless specific ARB approval is granted.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

Mr. John Dennehy

July 21, 2016

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If you have additional questions or comments regarding this matter, please contact Ms. Kimberly Pryor, Manager, at 626-575-6640 or by email at kim.pryor@arb.ca.gov.

Sincerely,



Annette Herbert, Chief

Emissions Compliance, Automotive Regulations and Science Division

cc: Kimberly Pryor, Manager
Compression-Ignition and Heavy-Duty Certification Section
Emissions Compliance, Automotive Regulations and Science Division