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The Solution for Freezing Problems with Diesel or Biofuels!

Advantages

- Suitable for Diesel, Biodiesel and Straight Vegetable Oil (SVO/PPO/WVO)
- Prevents fuel gelling (clogged fuel filters, ...)
- Keeps fuel fluid at extremely low temperatures
- High efficiency by heating directly
- · Gentle engine heating Less fuel consumption
- Economical and engine-friendly by eliminating diesel additives
- · Reduces exhaust emissions
- TUV (German Technical Inspection Authority) approved
- Simple and quick installation with detailed instructions
- Suitable for <u>all</u> diesel vehicles and engines: Automobiles, SUVs, Vans, Trucks, Buses, Tractors, Agricultural Machinery, Construction Machinery, Generators, etc.
- · Maintenance-free system
- · Possible to reuse when changing vehicles
- Proven technology Made in Germany

The Problem ...

Diesel fuel and biofuels gel at temperatures below freezing. Paraffin crystals form in the fuel, making it gelly-like and cloudy. As these suspended flakes pass through the filter, they gum up its microporous surface. Within a short period of time, the fuel will no longer flow through the filter to the injection pump. The results: the engine loses power and stops running.

Adding gasoline or additives to prevent fuel gelling offers no real solution but only seem to help on a limited basis. They can have a negative effect on the engine's performance and life cycle, not to mention, they must already be added before it turns cold.



"Winter diesel" (formulated especially for winter usage) does not guarantee a smooth running engine. Winter diesel is laboratory tested to -20° C / -4° F. At still lower temperatures and/or freezing winds, it is unclear whether the engine will even run. In any case, the engine works unregularly, resulting in a greater amount of fuel being consumed.

Once the fuel filter is clogged, only the supply of warmth can solve the problem quickly. By heating, the engine is protected when running on any fuel at any temperature and prevents greater fuel consumption.

... The Solution

The **Diesel-Therm** fuel preheater offers a effective and above all else, a permanent solution for this problem.

Diesel-Therm prevents the filter's pores from clogging up at very low temperatures by warming the fuel with a small heating system, which is mounted in front of the filter. In a matter of seconds, the energy-rich paraffin crystals will dissolve and the fuel passes through the filter as if it would be summer.



clogged fuel filter

open fuel filter

Fuel additives can be done completely away with by installing **Diesel-Therm**. With it, temperature-related operating problems will be effectively eliminated from the fuel system.

To prevent cold problems or a loss of power due to a plugged fuel filter **Diesel-Therm** is activated by the driver with a On-/Off-switch. The heating process is displayed by a pilot lamp and automatically regulated by a thermostat. The heating of the fuel remains as long as the heating device is deactivated over the switch.



Alternative to the fuel filter **Diesel-Therm** can also be installed in front of fuel pumps, solenoid valves, etc. to preheat the fuel.

Installation



Installation instead of the existing banjo screw at the filters entrance (thread M14x1.5/M16x1.5)

Installation at filters entrance in the fuel line (flexible rubber hose with ID 08/10/13 mm)

Installation at filters entrance in the fuel line (polyamide/steel pipe with OD 08/10/12 mm)



Diesel-Therm is available in 12 and 24 volt models. Following components are included in delivery: electric electric continuous-flow heater (12V approx. 200 W / 24V approx. 300 W), thermo switch (regulates the temperature), rotary switch with pilot lamp, relay, cable loom with connectors, fuse and protective caps, miscellaneous materials, detailed installation instructions

References

Diesel-Therm is for example used by: Atlas Weyhausen, Deutz, Faun, Honda, Iveco Magirus, Kaessbohrer Gelaendefahrzeuge, Liaz, Liebherr, MAN, Mitsubishi Motors, Nissan, Toyota.

... after careful examination of your diesel heating system we decided to equip all our ski-run rollers with Diesel-Therm. Kaessbohrer Gelaendefahrzeug AG



Meanwhile we installed **Diesel-Therm** in our own vehicle fleet and recognized that your product improves the operation with biodiesel noticeable at extreme coldness. It's in our interest to offer **Diesel-Therm** also to our customers.

Company Petrotec AG, Borken

... no more problems with freezing. Because of this experience we will offer **Diesel-Therm** also in the next winter season.

Company Claus Laackmann, agricultural machinery and motor vehicles

... we installed and tested several fuel heating systems. We decided to use **Diesel-Therm**. It is a very safe system, the heating is effective already after a short period of time. Within approximately 1 minute

the troublesome smoke, which comes out of the exhaust pipe, vanishes. This is also a contribution to the environmental protection.

Company Adolf Soehner KG, Daimler-Benz Representative

... successful use of **Diesel-Therm**, the busses have always been ready for use, even at very low temperatures and after parking in winter sport locations, without using any flow improvement additives. **Town Council Kirchweihtal**

... no longer problems with fuel gelling at our passenger cars and trucks in the local and long-distance traffic by using **Diesel-Therm**.

Forwarding Agency Bungenberg GmbH

Our planning department tested and released **Diesel-Therm** based on the last year's experiences. It impresses by a very good price-proficiency-relation.

Iveco Magirus AG

... with **Diesel-Therm** the fuel consumption dropped to 3-5 liters per 100 km, the smoke formation was considerably lower.

P. Hoffmann, hauling company

... temperatures of -25° C / -13° F and your diesel heating system satisfied our requirements. We like to equip all our busses and vehicles in the bus and freight traffic with **Diesel-Therm** for the upcoming winter season.

Company Ludwig Ganserer, bus and short-distance haulage

Which Diesel-Therm-Version fits to my vehicle?

Due to the vast number of vehicles or engines on the market, it is almost impossible to make a type-specific statement.

- If there exists a banjo screw with wrench size 19 at the filters entrance, the screw-/filter version with thread size M14x1.5 fits.
- If there exists a banjo screw with wrench size 22 at the filters entrance, the screw-/filter version with thread size M16x1.5 fits.
- If there exists no banjo screw at the filters entrance, the universal version with connectors for the fuel lines has to be used.

In case of doubt we recommend the universal version (fits all).

Where can I have Diesel-Therm installed?

The installation ca be performed by our <u>partners</u> or by any reputable garage/mechanic. Craftmanship and an understanding of diesel engines provided, a DIY (do-it-yourself) installation with the included installation notes is also possible.

<u>Is the electrical preheating of fuel generally allowed?</u>

For your own protection, please check with the appropriate authorities in your country. This is also to be done for any changes on the vehicle.

Article	Description	Price
DH12M14 DH12M16	DIESEL-THERM 12V – Screw-/Filter Version M14x1,5 DIESEL-THERM 12V – Screw-/Filter Version M16x1,5	105,04 € 105,04 €
DHS1208 DHS1210 DHS1213	DIESEL-THERM 12V – Universalversion for rubber hose ID 08 mm DIESEL-THERM 12V – Universalversion for rubber hose ID 10 mm DIESEL-THERM 12V – Universalversion for rubber hose ID 13 mm	113,45 € 113,45 € 113,45 €
DHS1208E DHS1210E DHS1213E	DIESEL-THERM 12V – Universalversion for PA/steel pipe OD 08 mm DIESEL-THERM 12V – Universalversion for PA/steel pipe OD 10 mm DIESEL-THERM 12V – Universalversion for PA/steel pipe OD 12 mm	121,85 € 121,85 € 121,85 €
DH24M14 DH24M16	DIESEL-THERM 24V – Screw-/Filter Version M14x1,5 DIESEL-THERM 24V – Screw-/Filter Version M16x1,5	126,05 € 126,05 €
DHS2408 DHS2410 DHS2413	DIESEL-THERM 24V – Universalversion for rubber hose ID 08 mm DIESEL-THERM 24V – Universalversion for rubber hose ID 10 mm DIESEL-THERM 24V – Universalversion for rubber hose ID 13 mm	134,45 € 134,45 € 134,45 €
DHS2408E DHS2410E DHS2413E	DIESEL-THERM 24V – Universalversion for PA/steel pipe OD 08 mm DIESEL-THERM 24V – Universalversion for PA/steel pipe OD 10 mm DIESEL-THERM 24V – Universalversion for PA/steel pipe OD 12 mm	142,86 € 142,86 € 142,86 €

ID = Indide diameter, OD = Outside diameter

all prices are net prices plus tax and shipping

Order

	Billing Address	Delivery address (if different)
Company name		
Name		
Street		
Zip Place		
E Mail		
Fon / Telefax		
Date / Signature		

Payment in advance. You will receive an invoice from us via e-mail with all transfer data.

Send your order to:

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