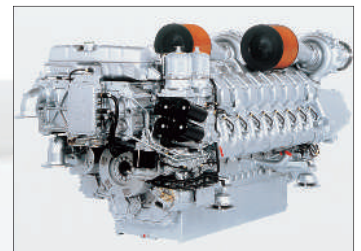


SEPAR FILTER

SEPAR 2000

WITH FUEL HEATING SYSTEM



Willibrord Lösing Filtertechnik e.K.
45517 Hattingen
info@loesing-filter.de +49 2324 9460-0
Made in Germany



SEPAR 2000

The SEPAR 2000 filter equipped with an electric fuel heating system improves the start up of diesel engines in cold weather conditions at or below 0 °C **and** separates the water and particulate which is contained in the fuel – as described in the attached folder.

SEPAR 2000 with heater offers:

- 1 Efficient heating performance
- 2 Heater controlled automatically
- 3 Compact design

Improved engine start-up

SEPAR 2000

FUNCTION OF THE SEPAR 2000 WITH FUEL HEATING

Heat is transmitted to the aluminium centrifuge and vane section very efficiently, so as the fuel enters the filter it starts to become warm. The warmed fuel prevents the filter becoming clogged by paraffin that has formed due to very low temperatures. The fuel filter heating system is controlled by a thermostat which activates the heater at 5 °C, if the fuel temperature reaches 10 °C the heater is switched off as the fuel heating system is not necessary. A pilot lamp located in the switch indicates when the thermostat has activated the heating system. The system is fully protected by a fuse in the filter housing that protects the heater in the unlikely event that the heater temperature reaches 80 °C, also a fuse is fitted to the heater power supply.

The SEPAR heated fuel filter should be installed according to the instructions in the literature provided and in accordance with the connection diagrams shown on the last page.

ELECTRIC CIRCUIT

The heated models SWK 2000/5/50/H and SWK 2000/10/H are supplied with an 'on' and 'off' switch fitted with a pilot lamp that indicates when the heater is on. To activate the heater move the switch to the 'on' position, then start the engine, the heater will now be on if the fuel temperature is below 5 °C and the pilot lamp will be illuminated. The heater is powered by the engine alternator and controlled thermostatically. If the diesel engine is stopped then the heater will be switched off automatically. The heated SEPAR filter is connected to the vehicles electrical system by standard flat 'push on' connections.

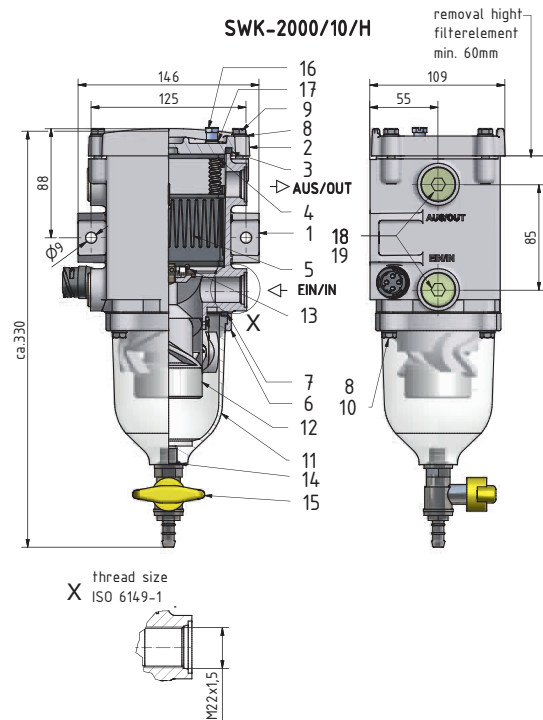
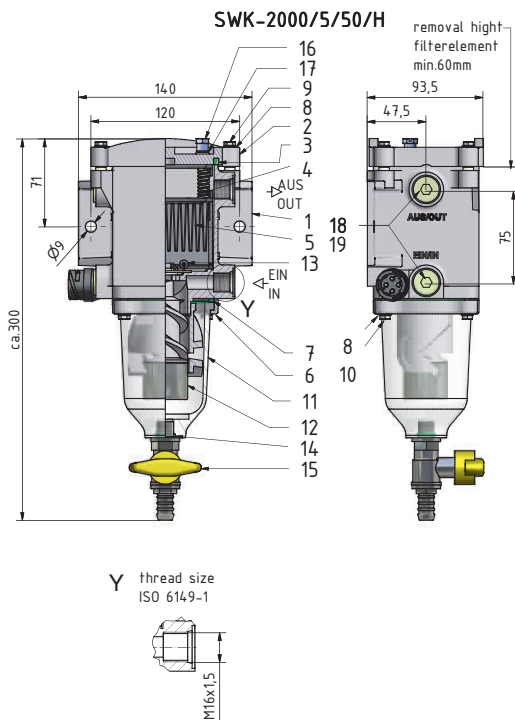
APPLICATION

SEPAR 2000 filters with heater can be installed on any diesel engine with either a 12 or 24 volt electrical system. Preferred applications are trucks, buses, construction and agricultural equipment as well as stationary engine applications that are used in cold climates



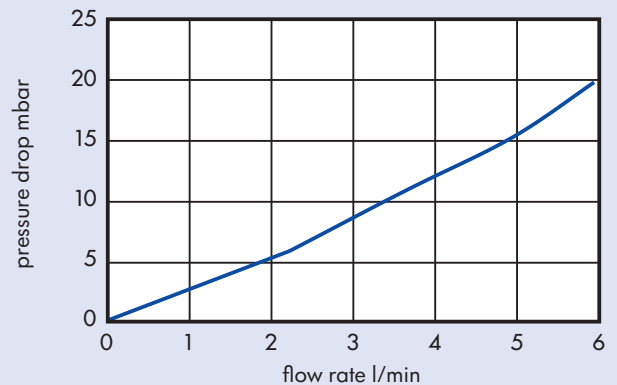
SEPAR 2000

DIMENSIONS OF THE FILTERS



POS.	Article-No.		Pieces	Description
	SWK 2000/5/50/H	SWK 2000/10/H		
1	06 1175	06 1130	1	Housing
2	06 3542	06 3553	1	Lid
3	06 1367	06 1362	1	Lid gasket
4	06 3296	06 3297	1	Spring cassette
5	00530/50/H	01030/H	1	Filter element
6	06 3564	06 3569	1	Bowl retainer ring
7	06 1366	06 1361	1	Bowl gasket
8	06 3447	06 3448	8	Washer
9	06 3430	06 3567	4	Screw (Lid)
10	06 3561	063568	4	Screw (Bowl retainer ring)
11	06 3984	06 3985	1	Bowl
12	06 1192	06 1282	1	Heater 24 V 300 W
13	06 1101	06 1101	1	Board f. temperature control
14	06 1360	06 1360	1	Gasket
15	06 3366	06 3366	1	Drain valve
16	06 3408	06 3408	1	Bleed screw
17	06 3558	06 3558	1	Gasket f. Pos. 16
18	063471	063226	2	Blind screw
19	06 1360	06 1359	2	Gasket f. Pos. 18
20	06 1307	06 1307	1	Mating connector
21	06 1219	06 1219	1	Relay 24 V
22	06 3074	06 3074	1	Heater switch
23	06 1586	06 1586	1	Fuse holder
24	06 1584	06 1584	1	Fuse 20 A
25	06 3087	06 3087	9	Flat plug

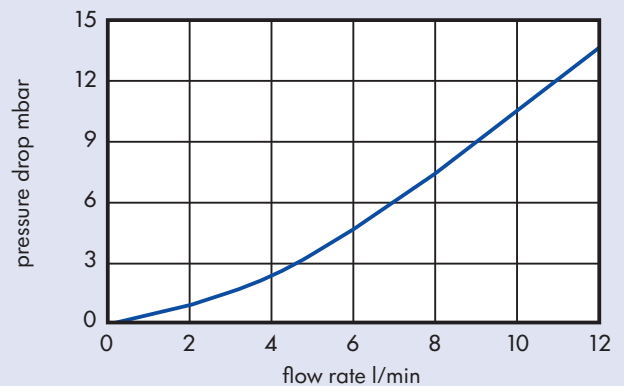
FLOW DIAGRAM SWK 2000/5/50/H



Max. flow rate: 5 l/min

Thread: M 16 x 1,5

FLOW DIAGRAM SWK 2000/10/H

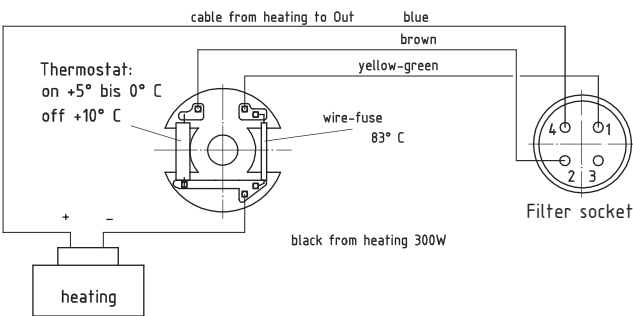


Max. flow rate: 10 l/min

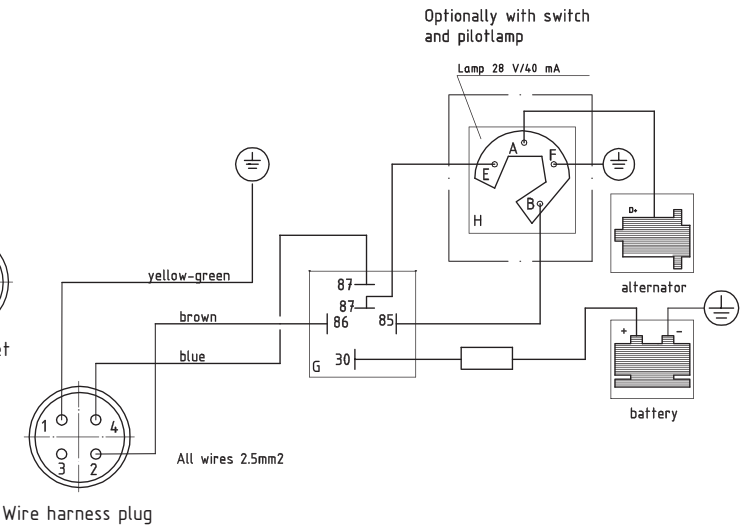
Thread: M 22 x 1,5

SEPAR 2000 ELECTRIC INSTALLATION

Wiring diagram of the filter



Wiring diagram of the vehicle



AVAILABLE VERSIONS

TYPE	Performance	Spare Elements- Pore Size	Max. Flow Rate
SWK-2000/5/50/H	250 W/12 V	00530/50/H – 30 μ	5 l/min
SWK-2000/5/50/H	300 W/24 V	00530/50/H – 30 μ	5 l/min
SWK-2000/10/H	250 W/12 V	01030 H – 30 μ	10 l/min
SWK-2000/10/H	300 W/24 V	01030 H – 30 μ	10 l/min
SWK-2000/10/H	450 W/24 V	01030 H – 30 μ	10 l/min

NOTE

All of the aforementioned types have been approved by the german Kraftfahrt-Bundesamt located in Flensburg with "Allgemeine Betriebserlaubnis" - No. 90533

For installation and maintenance please follow the recommendations in our literature.

We reserve the right to make technical changes without notification

Willibrord Lösing
Filtrertechnik e.K.



Postfach 86 60 09
45517 Hattingen
Am Walzwerk 2
45527 Hattingen
Phone +49 2324 9460-0
Fax +49 2324 40842
info@loesing-filter.de
www.loesing-filter.de