## **SOVU 930**

# Oil preheater uncontrolled

For oil burners with a throughput capacity from 1.5 to 6 kg/h With a continous heating capacity of 35 or 55 watts



Depending on the throughput and heating power of the SOVU 930, the oil outlet temperature is increased by 30... 50° C which increases the ignition capability of the burner considerably, and flame stabilisation is achieved.

## **CONSTRUCTIONAL FEATURES**

The basic component is a tube containing a sintered body, which by its nature has a very large surface area for transmitting the temperature to the oil. The heating power, per unit of surface area is correspondingly low, which prevents

A heating element of 35 or 55 watts is wound round the tube and is protected by a solid brass jacket, secured against rotation. The oil is supplied through a central con-

The release thermostat is thermally connected to the shaft and, together with the terminals for the heating element, is mounted in a plastic housing. This housing protects against shock damage and the ingress of dirt.

Supply cable and preheater can be seperated by a plug connector. This permits easy installation and removal.



## **TECHNICAL DATA**

Operating voltage

Release contact switching current

Heating power Oil flow throughput Permissible pressure Oil volume Preheat time at 15° C input temperature Weight Wrench size - jacket

- oil inlet part

220 / 240 V (-15... +10%) 50 Hz (40 - 60 Hz)

4 A permanent current (cos φ 0.6) 55 / 35 W between 1.5 and ca. 6 kg/h max. 25 bar 2 cm3

35 / 55 sec. 105 g

SW 16 SW 13

## **APPLICATIONS ENGINEERING FEATURES**

To prevent switching off when not desired as a result of oil temperature fluctuations, the SOVU 930 preheater should always be operated with an automatic oil burner safety control having an overriding contact.

The burner safety control must switch off the preheater in the event of a shutdown caused by a fault.

The SOVU 930 preheater is a reliable and rugged design. The central oil connection, the cylindrical shape and the electrical supply with plug connector allow this unit to be fitted in any burner unit. The plug connector is fully compatible with all available connectors.

The **SOVE 930 electronically controlled preheater** is available for more demanding applications (providing increased heating power, oil outlet temperature independant of flow and inlet temperature; thermostat loop and overriding contact not necessairy, max. temperature-limit at 80° C at 0-throughput).

The heating power of the oil preheater should be selected so that with the smallest possible throughput the outlet temperature corresponds to the desired demands according to the diagram shown below.

## **DESCRIPTION OF OPERATION**

The SOVU 930 preheater is an uncontrolled version with a heating element. The temperature of the oil is raised gradually by a heat exchanger with a large surface area. The design ensures a very good distribution of heat.

At the start, the oil gets heated by a heating power of 35 or 55 W until the release temperature has been reached. Then, the contact of the release thermostat closes and the burner will start. In operation, the oil outlet temperature depends mainly on the selected heating power, the throughput and the oil inlet temperature.

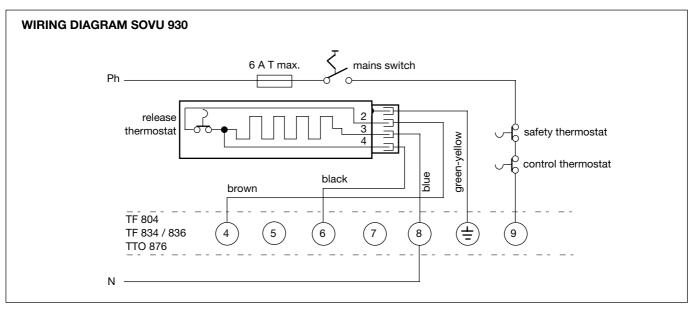
## **COMMISSION AND MAINTENANCE**

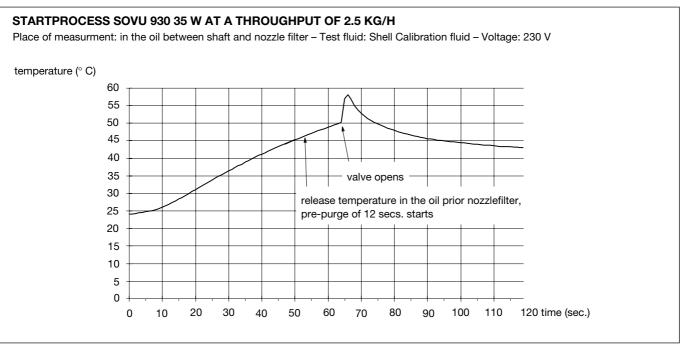
## Important notes

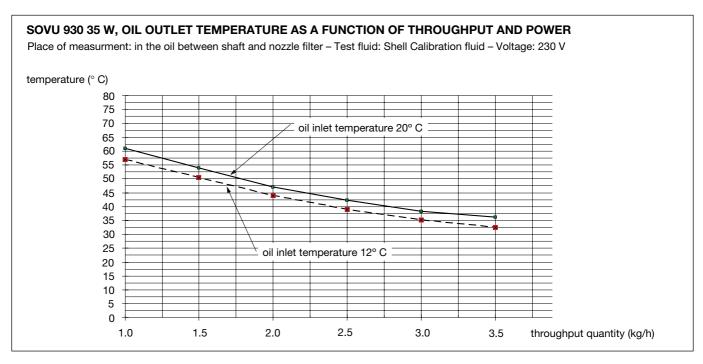
During assembly and wiring, the appropriate installation guidelines have to be fulfilled.

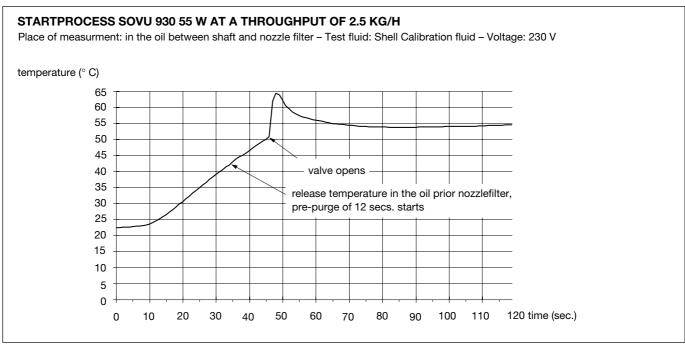
The chosen fuse rating must not, on any account, be higher than the valve given in the technical data.

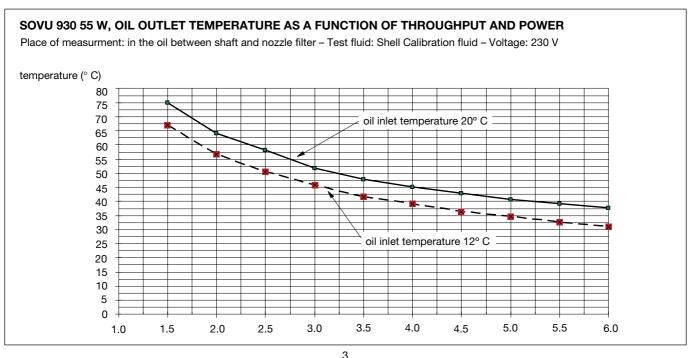
Failure to observe this instruction could, in the case of a short circuit, have serious consequences for the preheater or burner system.

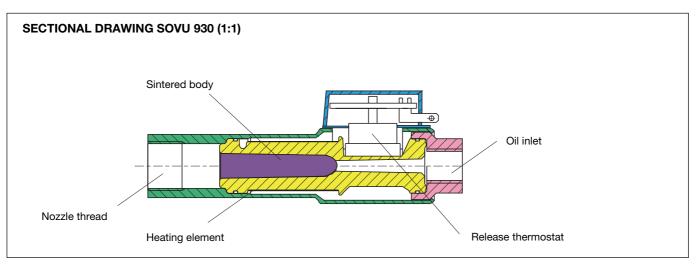


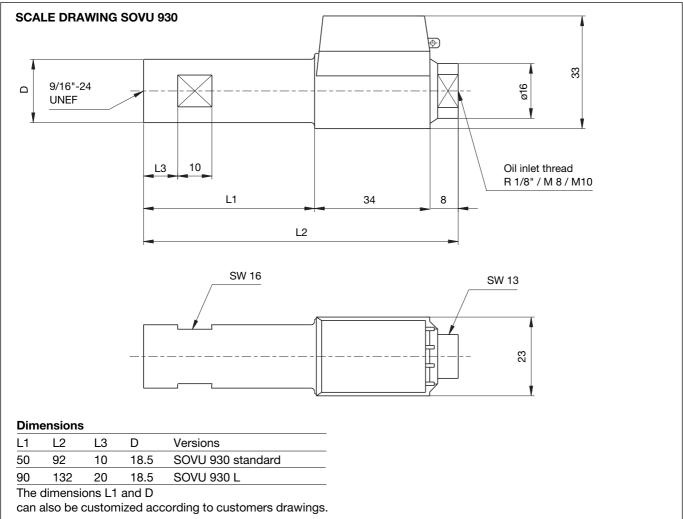












#### **ORDERING INFORMATION ITEM DESIGNATION** ITEM NO. oil preheater preheater SOVU 930 55 W standard 10200 preheater SOVU 930 35 W standard 10300 oil preheater preheater supply-cable 4-pol., 400 mm 7244001 Supply cable The above ordering information refers to the standard version. Special versions are also included in our product range. Specifications subject to change without notice.

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