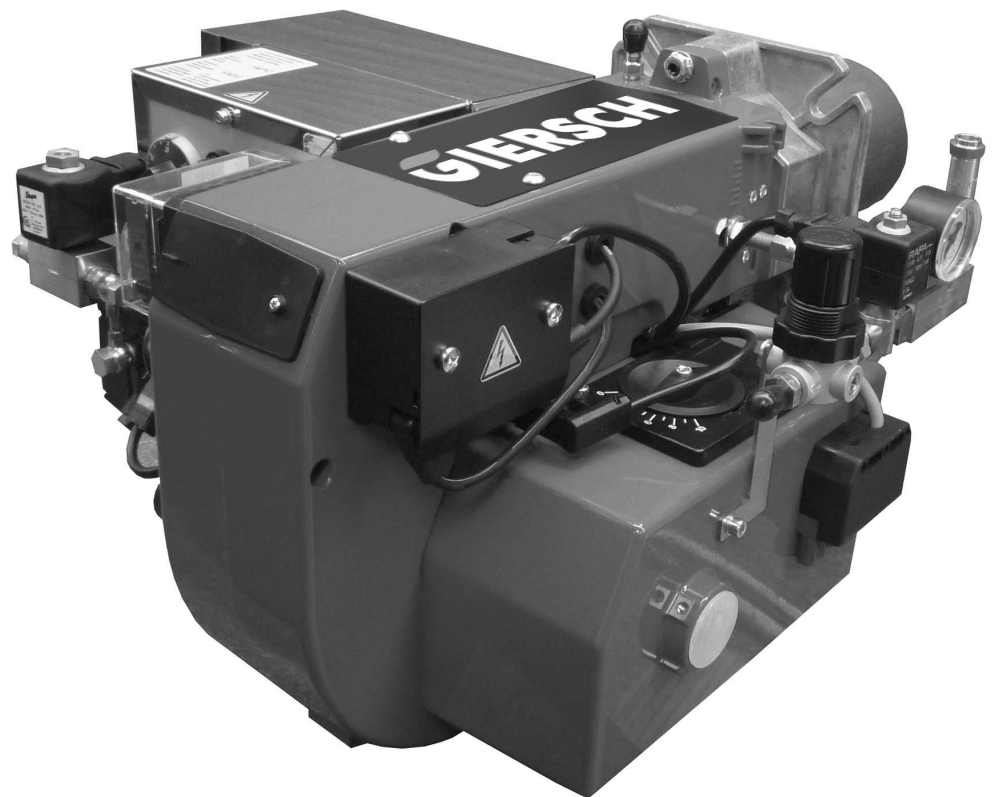


**Technical Information • Data Sheet****Universal Oil Burner GU100****Oil**

Issued April 2024

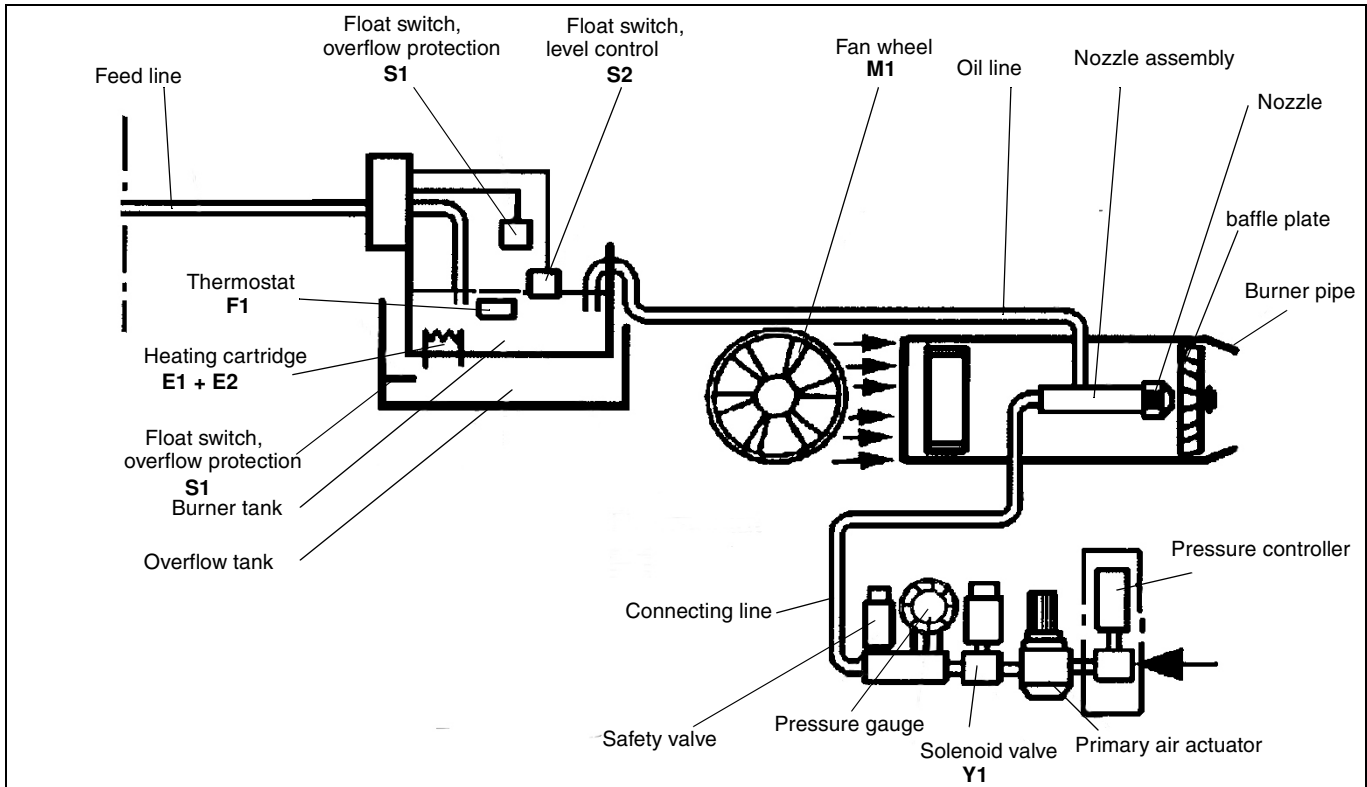
In the interests of continuous product improvement, technical specifications are subject to change without prior notice.



## Functional description

The fuel is pumped out of the supply tank and into the burner tank. A float switch controls the level inside the burner tank. Another float switch (overflow protection) serves as a limiter, which switches to fault if the tank is overfilled. A thermostat regulates the oil temperature in the burner tank and starts the burner when the set temperature is reached. Thereafter, the automatic oil burner control system controls and monitors the operation of the burner. Fuel is aspirated and finely atomised by a special nozzle using the compressed air flowing through the burner, which is used as primary air for the combustion process. The burner blower supplies the secondary air which is added to the atomised spray at the baffle plate. This ensures full combustion and operational reliability. At the oil temperature in excess of 150° C, the safety switch automatically de-energises the burner.

## Air/oil flow schematic



## Technical specification

	Burner type	
Technical specifications		GU100
Output, fuel oil	KW	70 - 132
Oil throughput , fuel oil	kg/h	5,9 - 11,1
Output, rapeseed oil	KW	65 - 101
Oil throughput, rapeseed oil	kg/h	6,4 - 10,0
Compressor output	m <sup>3</sup> /h	11.5
Primary air connection	bar	0.4 - 1.5
Motor output	W	180
Heating element	W	1100
Voltage		1/N/PE ~50 Hz 220 - 240 V
Weight	kg	24
Emission class fuel oil		1
Emission class rapeseed oil		1
NO <sub>x</sub> limit fuel oil		< 250 mg/kWh
NO <sub>x</sub> limit rapeseed oil		< 250 mg/kWh

## Adjustment table



The values given in the table are only setting values for start-up. The system settings required in each case must be redefined if values such as boiler output, calorific value and altitude deviate. **Adjustment is required in any case (due to the system design).**

- For initial start-up, fill the burner tank up to the oil mark by hand.



### Caution !

If the oil level is too high, the float switch will switch off the burner.  
If the oil level is too low, the heating cartridge will become encrusted or damaged.

## Adjustment table for rapeseed oil

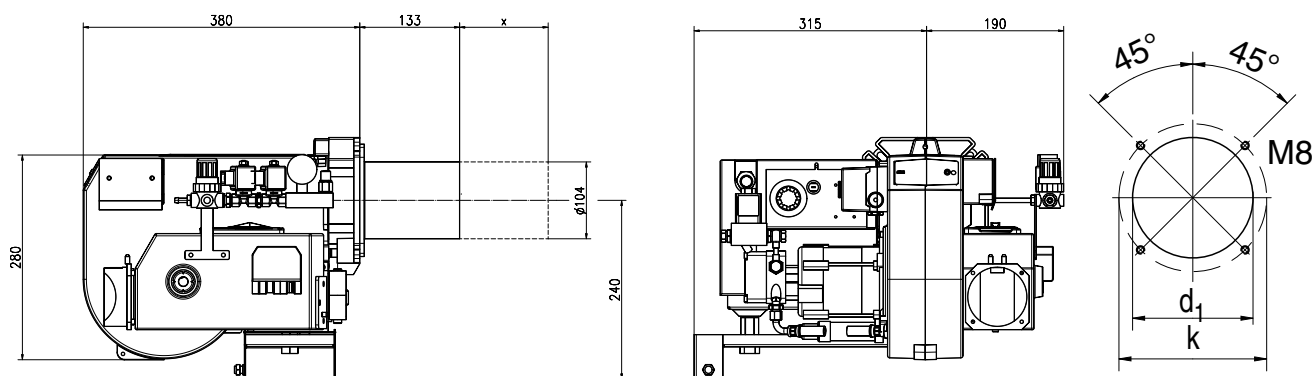
Burner type	GU100						
Output in kW	65	70	78	82	90	96	102
Oil throughput in kg/h	6.4	7.0	7.7	8.1	8.9	9.5	10.1
Primary air in bar	0.5	0.6	0.7	0.8	1.0	1.2	1.5
Secondary air (scale on air damper)	3.0	3.5	3.8	4.0	4.5	5.0	6.0
Thermostat setting in °C	140						

## Adjustment table for fuel oil

Burner type	GU100						
Output in kW	71	82	91	100	117	123	133
Oil throughput in kg/h	5.9	6.9	7.6	8.4	9.8	10.3	11.1
Primary air in bar	0.4	0.5	0.6	0.8	1.0	1.2	1.5
Secondary air (scale on air damper)	3.2	3.8	4.0	4.8	6.2	6.5	7.0
Thermostat setting in °C	0° do not heat						

The thermostat on the burner tank must be set to between "min." for heating oil EL and 140°C for rapeseed oil, depending on the viscosity of the oil.

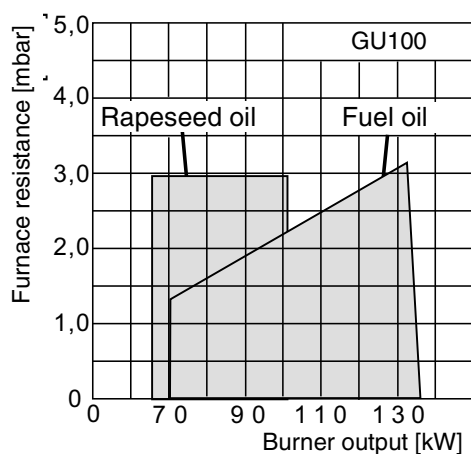
## Burner dimensions / boiler connection dimensions



X= Burner tube extension 100 mm and 200 mm

Burner type	d1	k
GU100	104	160 - 195

## Working range



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