CE

Technical Information • Data Sheet

Universal Oil Burner GU55

Oil

CE
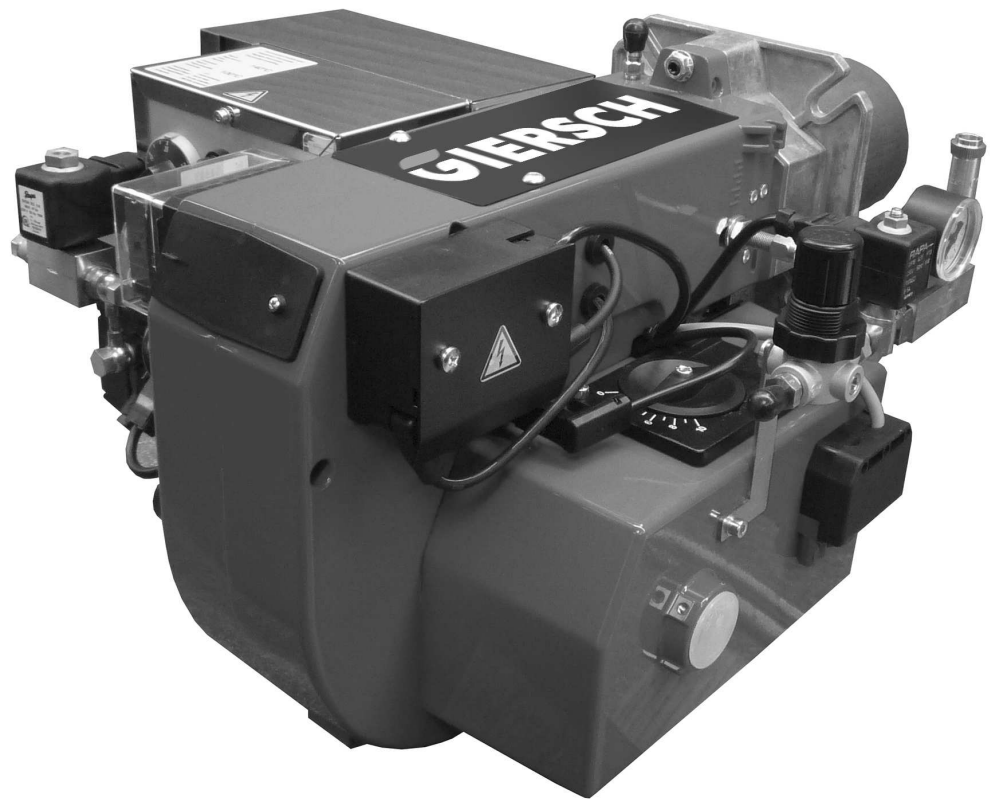
Functional description

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

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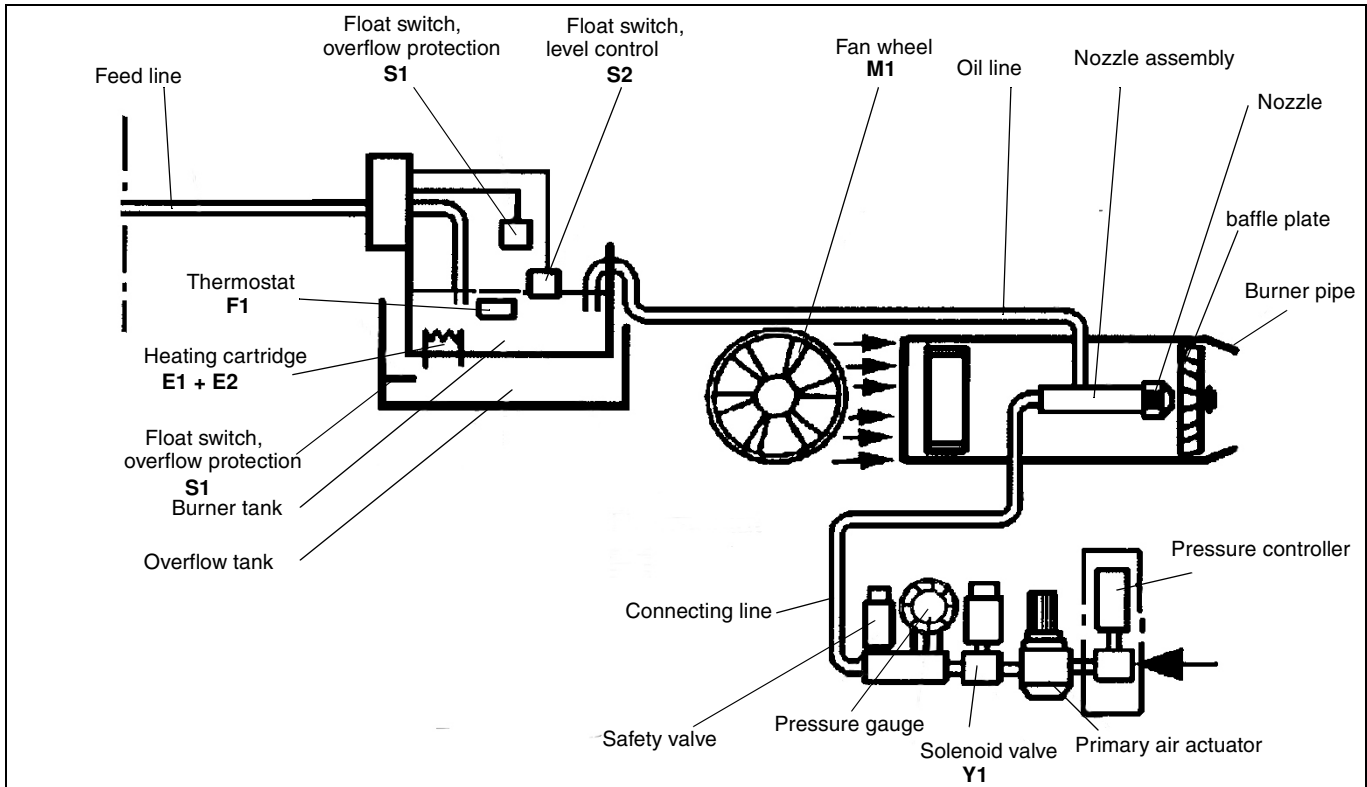
Technical specification

Technical specifications		Burner type				
		GU55				
Output, fuel oil	kW	50 - 75				
Oil throughput fuel oil	kg/h	4,2 - 6,3				
Output, rapeseed oil	kW	40 - 52				
Oil throughput rapeseed oil	kg/h	4,0 - 5,2				
Compressor output	m^3/h	6				
Primary air connection	bar	0.4 - 0.8				
Motor output	W	180				
Heating element	W	1100				
Voltage		1/N/PE ~50 Hz 220 - 240 V				
Weight	kg	23				
Emission class fuel oil		1				
Emission class rapeseed oil		1				
NO_x limit fuel oil		< 250 mg/kWh				
NO_x 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	GU55				
Output in kW	40	44	45	48	50
Oil throughput in kg/h	4.0	4.4	4.4	4.78	4.95
Primary air in bar	0.8	1.0	1.2	1.4	1.5
Secondary air (scale on air damper)	1.7	2.0	2.4	2.8	3.0
Thermostat setting in °C	140				

Adjustment table for fuel oil

Burner type	GU55					
Output in kW	50	54	61	65	67	73
Oil throughput in kg/h	4.2	4.5	5.1	5.5	5.6	6.1
Primary air in bar	0.5	0.7	0.9	1.1	1.2	1.5
Secondary air (scale on air damper)	1.8	2.1	3.0	3.3	3.8	4.0
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.
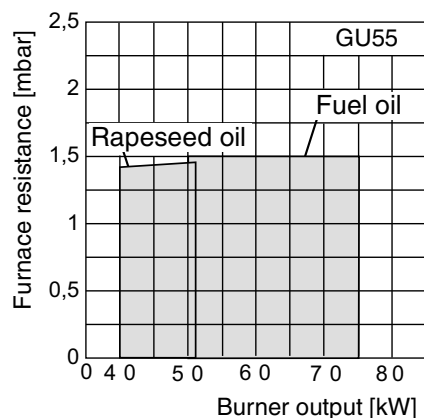
Burner dimensions / boiler connection dimensions
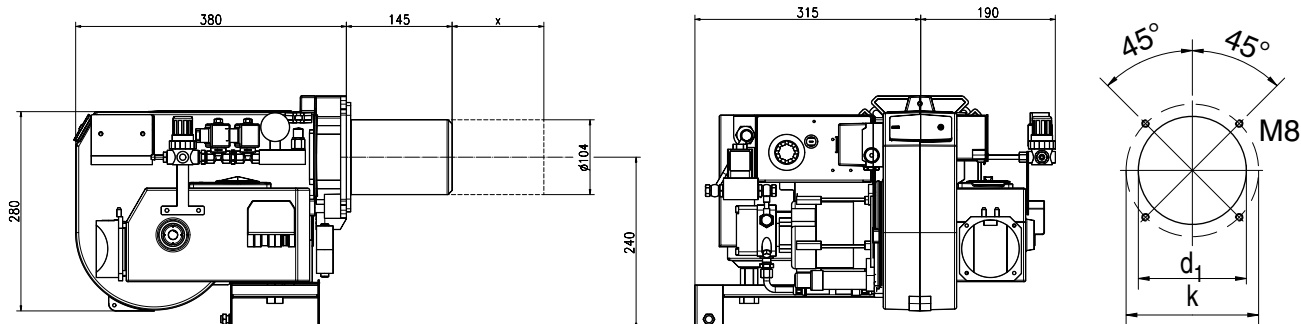
X= Burner tube extension 100 mm and 200 mm

Burner type	d1	k
GU55	104	160 - 195

Working range

Furnace resistance [mbar] vs Burner output [kW]

GU55

Rapeseed oil

Fuel oil

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