

Technical Information • Installation Instructions

GL10

Issued in April 2024
Subject to tech. modifications
to improve the product!

Oil



Contents

1.	Safety instructions	3
2.	Maintenance	3
3.	Technical specifications.....	3
4.	Installing flange and burner	4
5.	Electrical connection.....	4
6.	Oil pump	5
7.	Oil connection	6
8.	Service position	7
9.	Nozzle replacement.....	7
10.	Setting the ignition electrodes.....	7
11.	Setting the air volume (measure "A").....	7
12.	Position snap ring / nozzle tube.....	8
13.	Functional control	9
14.	Oil preheating unit.....	11
15.	Calibration of the boiler-burner	11
16.	Flue connection	11
17.	Exhaust gas thermometer.....	11
18.	Troubleshooting	12
19.	Adjustment table	13
20.	Wiring diagrams.....	15
21.	Exploded diagram and spare parts list	17
22.	Declaration of conformity	19
23.	Burner dimensions / boiler connection dimensions	20
24.	Work ranges	20

1. Safety instructions

Please observe the technical regulations as well as the building authorities and legal stipulations when setting-up and operating the system.

The installation, oil and exhaust gas connection, initial commissioning, power connection as well as maintenance and servicing must only be carried out by a specialist.

The VDE and ÖVE regulations and the specifications of the responsible energy supply company must be taken into account when preparing the electrical connections.

Work may only be carried out on equipment by a specialist in accordance with the valid VDE and ÖVE regulations.

2. Maintenance

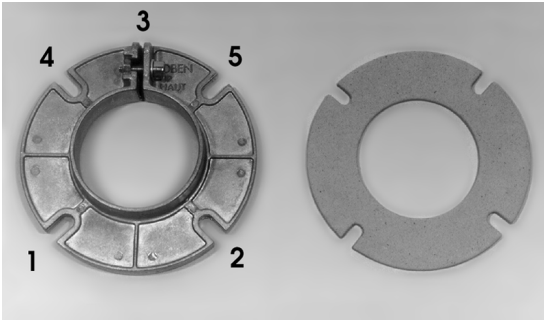
The system must be serviced regularly in accordance with §9 of the Heating Installations Ordinance, in order to ensure a reliable and safe functioning of the device.

One maintenance must be carried out annually. We recommend that you draw up a maintenance contract with an approved specialist company.

3. Technical specifications

	GL10.1-V-L	GL10.1-L	GL10.2-V-L	GL10.2-L
Burner output in kg/h in kW	1.30 - 3.40 15.5 - 40.3	1.51 - 3.40 18.0 - 40.3	2.10 - 5.65 25.0 - 67.0	2.95 - 5.65 35.0 - 67.0
Recommended boiler output in kW (92%)	14.2 - 37.0	16.5 - 37.0	22.5 - 62.0	22.5 - 62.0
Voltage	1 / N / PE ~ 50 Hz / 230 V			
Power consumption in W (max.) Start / operation	305 / 214	230 / 132	330 / 240	240 / 150
Weight in kg (approx.)	11			
Noise emission in dB (A)	58	58	59	59
Emission class	3			
NOx limit value	< 120 mg/kWh			

4. Installing flange and burner



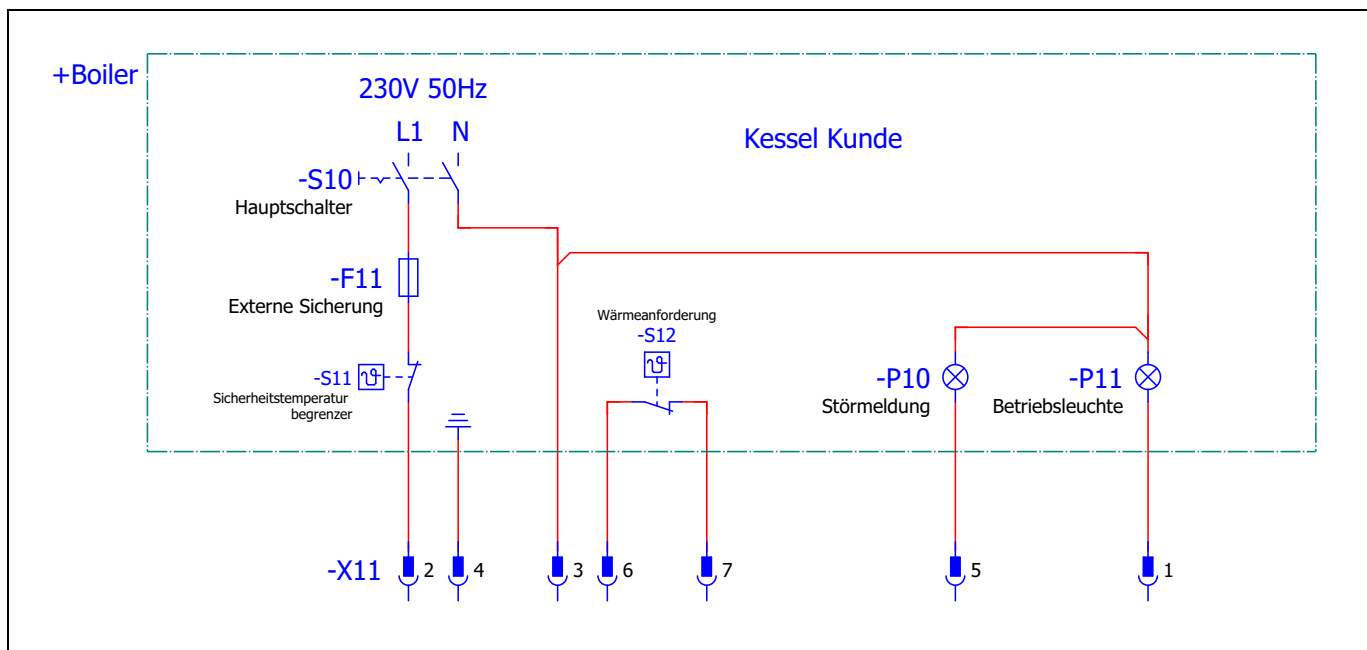
- Install the sliding flange and seal loosely on the boiler door.
- Insert the burner.
- Follow the tightening sequence of the screws.
- Lift the burner when tightening the screws.



The immersion depth of the burner pipe to the respective burner chamber is optimally set via the sliding flange.

5. Establishing the electrical connection of the boiler controller

The electrical connection must be made in the enclosed male connector i.a.w. the wiring diagram taking into consideration local regulations. The supply line must be protected with a 6.3 A slow 10 A quick fuse and for convenience be laid as a flexible cable. If the male connector has already been wired, carry out a control of the connections i.a.w. the accompanying wiring diagram.



6. Oil pump

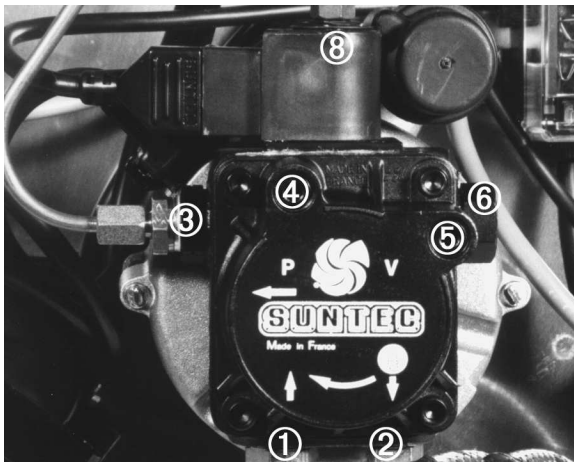
The pump pressure can be set for the respective output (see Adjustment table).

For this:

- unscrew sealing plug 4
- screw in the manometer and set the pump pressure via the adjusting screw 6.

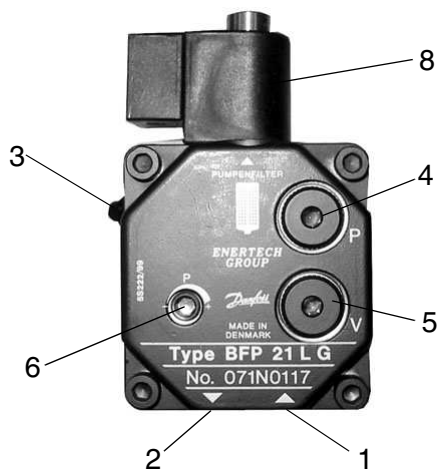
The pump pressures specified in the adjustment table are only reference values and can, if necessary, be deviated from i.a.w. the system conditions.

Caution: The full pump pressure at the manometer is only available to the "Suntec AS47" oil pump after the oil supply release!



Suntec:

- 1 = Feed
- 2 = Return
- 3 = Pressure pipe connection
- 4 = Pressure gauge connection
- 5 = Vacuum gauge connection
- 6 = Pressure setting
- 8 = Solenoid valve



Danfoss:

- unscrew pressure gauge connection 4
- screw in manometer and set pump pressure with pressure setting 6 i.a.w. the adjustment table.

- 1 = Feed
- 2 = Return
- 3 = Pressure pipe connection
- 4 = Pressure gauge connection
- 5 = Vacuum gauge connection
- 6 = Pressure setting
- 8 = Solenoid valve

7. Oil connection

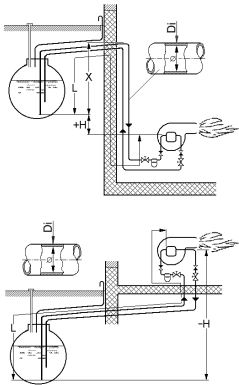
The tables apply to heating oil EL 4.8 cSt and the internal diameter of the oil lines specified in the table. 4 brackets, 1 valve and 1 non-return valve were included for resistance with the suction line length. To prevent possible oil vapours, the dimension X should not exceed a length of 4 m.

- Connect oil pump to the oil line with the enclosed metal hoses.
- The pump should be connected with a feed and return line (twin-pipe system).
- With elevated tanks, the pump can be converted to a single-pipe system.

Assumptions: kinem. viscosity 6 mm²/s at 20°C, T_{oil} = 10°C

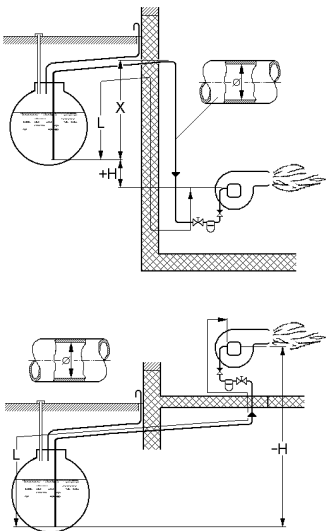
Additional resistances: 4 x 90° elbows, 1 non-return valve, 1 stop valve

Twin-pipe system

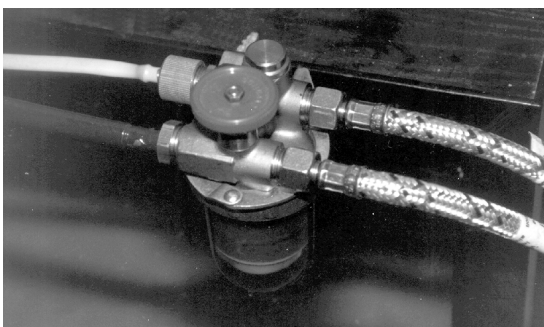


Pump	Di [mm]	H [m]									
		4	3	2	1	0	-1	-2	-3	-4	
Suntec or Danfoss	6	21	18	16	13	11	8	5	-	-	
	8	67	58	50	42	34	25	17	9	-	
	10	100	100	100	100	82	62	42	21	-	

Single-pipe system



Oil through-put [kg/h]	Di [mm]	H [m]									
		4	3	2	1	0	-1	-2	-3	-4	
up to 2.5	4	77	68	58	49	40	31	22	13	-	
	6	100	100	100	100	100	100	87	64	18	
	8	100	100	100	100	100	100	100	100	56	
2.5-5.0	4	39	34	29	25	20	16	11	6	-	
	6	100	100	100	100	100	79	56	32	9	
	8	100	100	100	100	100	100	100	65	28	
5.0-10.0	4	19	17	15	12	10	8	-	-	-	
	6	98	86	74	63	51	39	28	16	4	
	8	100	100	100	100	100	100	88	51	14	
10.0-23.0	6	42	37	32	27	22	17	12	7	-	
	8	100	100	100	85	69	54	38	22	6	



For pure single-pipe operation, unscrew the seal with the underlying diverter plug 8 and only rescrew the seal. Close the return opening 4 with a seal and metal plug. We recommend that you use a heating oil filter with return inlet when changing over to a single-pipe system. This leaves the pump operating in twin-pipe mode. Install the feed and return burner hoses to the filter. Open the oil tap on the filter. Start up the system.

8. Service position



- Release the quick release fasteners
- Remove the base plate from the housing
- Attach the base plate with the clips to the two upper screws (Service position).

During assembly, insert the base plate into the housing and secure with the quick release fasteners.

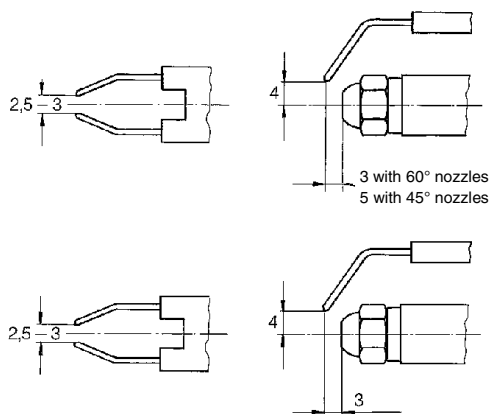
Caution! Ensure the base plate is correctly seated in the housing.

9. Replacing the nozzle



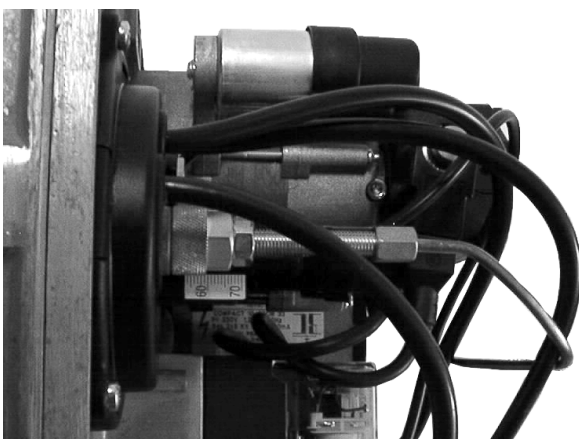
- Attach the base plate in the Service position.
- Release ignition cable from the ignition electrode.
- Release accumulator plate and withdraw upwards.
- Release oil nozzle (spanner SW16), in doing so ensure the nozzle holder is secured against turning via spanner SW 16.
- Replace oil nozzle.

10. Setting the ignition electrodes



The electrodes are factory-set. The specified measurements serve for checking purposes.

11. Setting the air volume measure "A"



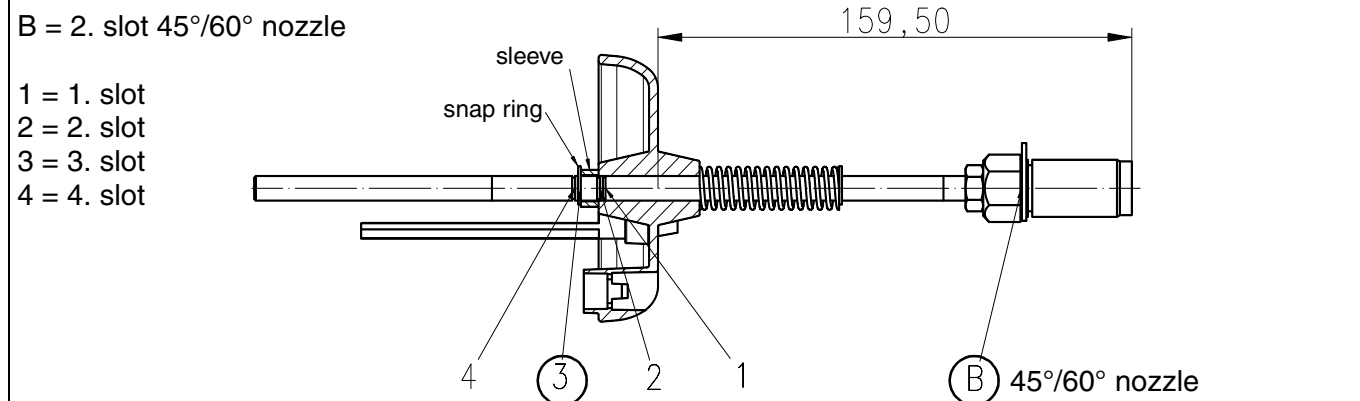
Measure "A"

Measure "A" (see adjustment table, page 15) serves as an orientation guide for setting the burner. Measure "A" describes the position of the nozzle holder with accumulator plate in the burner pipe taper.

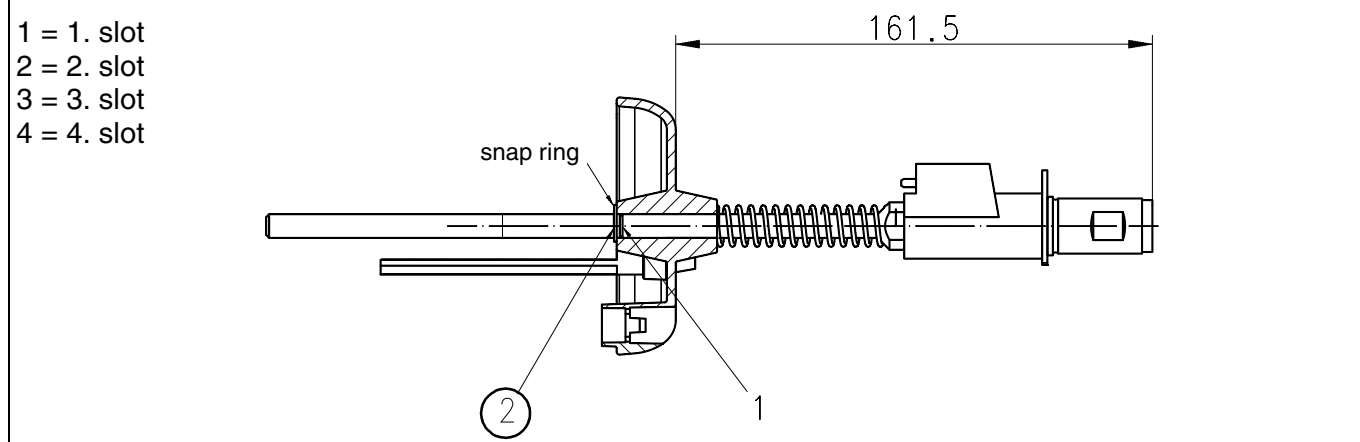
Example: Turn adjusting nut clockwise
Air throughput increases, the CO₂ content in the exhaust gas decreases. The correct setting of measure "A" is checked by measuring the CO₂ at the measuring point in the exhaust gas pipe.

12. Position snap ring / nozzle tube

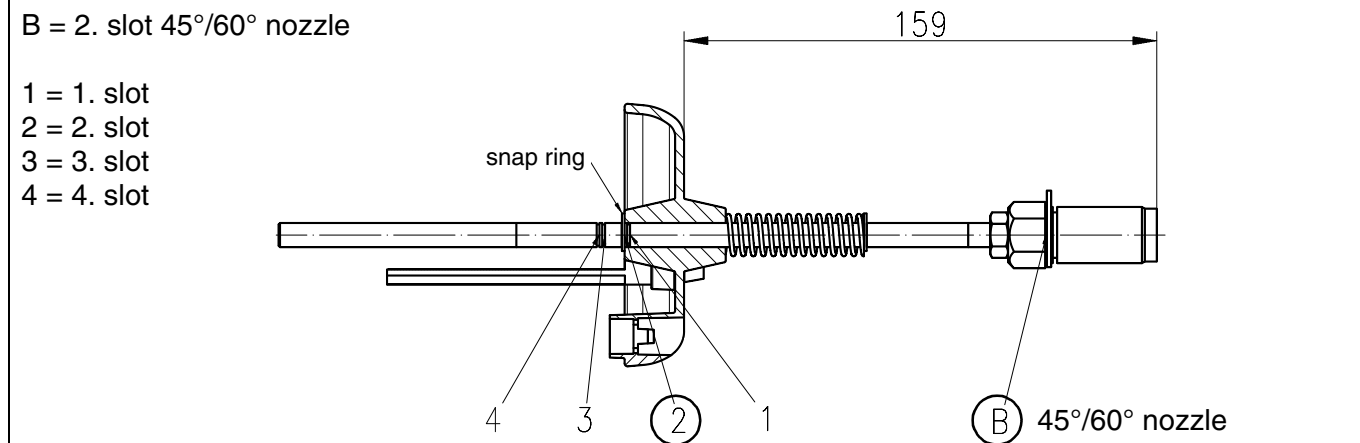
Nozzle tube GL10.1, snap ring for throttle position 3 **with sleeve**



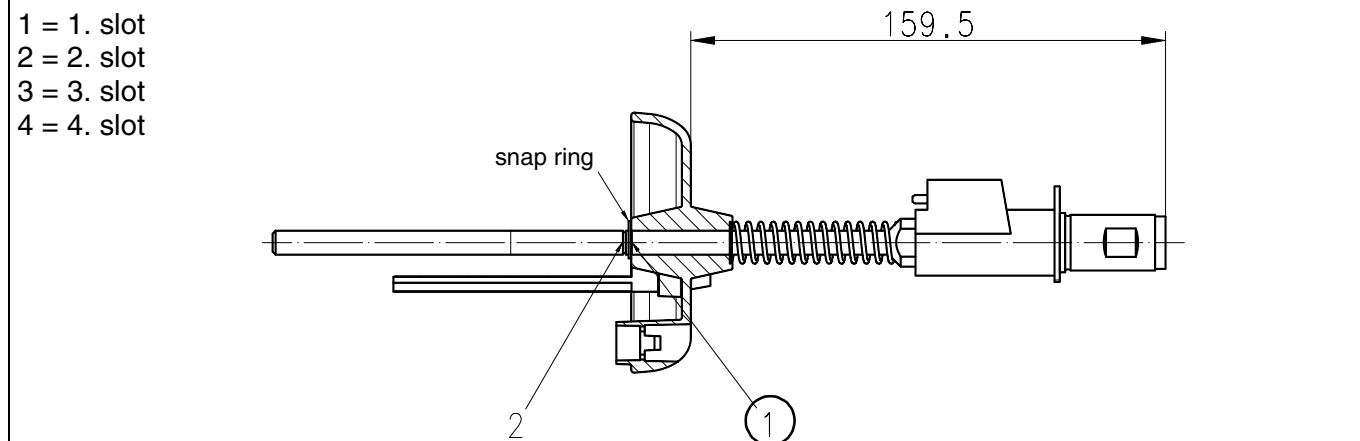
Nozzle tube GL10.1-V, snap ring for throttle position 2 **without sleeve**



Nozzle tube GL10.2, snap ring for throttle position 2 **without sleeve**



Nozzle tube GL10.2-V, snap ring for throttle position 1 **without sleeve**



13. Functional control of flame monitoring control box



Testing the control unit for proper functioning

Danger of fatal injury from electric shocks!



Disconnect electrical cable from power supply before carrying out any work on live parts! Troubleshooting may only be carried out by authorised and trained personnel! Unlocking may only be carried out by an authorised specialist.

When commissioning the plant or when doing maintenance work, make the following safety checks:

Burner startup with flame detector darkened:

- Lockout at the end of «TSA»

Burner startup with flame detector exposed to extraneous light:

- Lockout after no more than 40 seconds.

Burner operation with simulated loss of flame:

- For that purpose, darken the flame detector during operation and maintain that state

Repetition followed by lockout at the end of «TSA»

Safety and switching functions

If a flame failure occurs during operation, the fuel feed shuts off immediately and the system tries a restart, with pre-aeration and retarded ignition. If no flame results, the control box shows a fault after the safety time. The system restarts automatically after an interruption in the power supply. The control box shows a fault if the photo-electric cell detects a light source during the pre-aeration time, after the safety time.

Display during commissioning

Color code table for multi-color signal lamp		
Status	Color code	Color
Waiting time (tw), other Waiting states	○.....	OFF
Oil preheater is heating	●.....	Yellow
Ignition phase, ignition controlled	●○●○●○●○●○●○	Yellow flashing
Operation, flame OK	□.....	Green
Operation, flame poor	○□○□○□○□○□	Green flashing
External light on burner start	□▲□▲□▲□▲□▲	Green-red
Undervoltage	●▲●▲●▲●▲●▲	Yellow-red
Fault, alarm	▲.....	Red
Fault code output, see fault code table	○▲○▲○▲○▲○▲○▲	Red flashing
Interface diagnostics	▲▲▲▲▲▲▲▲▲▲▲▲	Red flickering light

Key:

- Permanent
- OFF
- ▲ Red
- Yellow
- Green

Diagnostics of the cause of fault

After lockout, the red fault signal lamp remains steady on. In that condition, the visual diagnostics of the cause of fault according to the error code table can be activated by pressing the lockout reset button for more than 3 seconds. Pressing the reset button again for at least 3 seconds, the interface diagnostics will be activated. Interface diagnostics works only if the AGK20... lockout reset button extension is not fitted. If, by accident, interface diagnostics has been activated, in which case the slightly red light of the signal lamp flickers, it can be deactivated by pressing again the lockout reset button for at least 3 seconds. The instant of switching over is indicated by a yellow light pulse.

Error code table

Red blink code of signal lamp (LED)	„AL“ at term. 10	Possible cause
2 x blinks	ON	No establishment of flame at the end of «TSA» - Faulty or soiled fuel valves - Faulty or soiled flame detector - Poor adjustment of burner, no fuel - Faulty ignition equipment
3 x blinks	ON	Free
4 x blinks	ON	Extraneous light on burner startup
5 x blinks	ON	Free
6 x blinks	ON	Free
7 x blinks	ON	Too many losses of flame during operation (limitation of the number of repetitions) - Faulty or soiled fuel valves - Faulty or soiled flame detector - Poor adjustment of burner
8 x blinks	ON	Time supervision oil preheater
9 x blinks	ON	Free
10 x blinks	OFF	Wiring fault or internal fault, output contacts, other faults

During the time the cause of fault is diagnosed, the control outputs are deactivated burner remains shut down. The diagnostics of the cause of fault is quit and the burner switched on again by resetting the burner control. Press the lockout reset button for about 1 second (<3 seconds).

Flame monitor with Flame detector QRB



The flame detector is used for monitoring of burning oil flames and for ignition spark.

Trouble-free burner operation is ensured only when the intensity of UV radiation at the detector's location is high enough for the detector's UV cell to ignite during each half wave.

Operability check:

A safety check of the flame failure system must be carried out when the appliance is first commissioned and after any inspections or long periods of inactivity.

Start-up test with flame detector covered:

After expiry of the safety period, the burner should perform a safety cut-out.

Start-up test with flame detector illuminated:

After approx. 20 s of pre-aeration the burner must go over to fault.

Standard. Startup; if burner in operation, darken the flame detector:

Attempt startup again, at the end of the safety time the burner must go over to fault.

14. Oil preheating unit (only GL10.1/.2-V)

The oil preheating unit is connected upstream in the program sequence of the burner and remains in operation until the oil burner is switched off by the control thermostat.

The thermostats built-in to the preheater are responsible for the cold start locking mechanism, which only releases current to the control box after heating.

The electrical preheater is integrated into the nozzle holder and has a controlled heat output. This is adjusted to the respective heat requirement via a PTC resistor.

15. Calibration of the boiler-burner

A precise calibration is necessary for a burning that is low in emissions and energy saving. For this purpose, a burner is assigned to the boiler in accordance with the work ranges and taking into account the combustion chamber resistance. The immersion depth of the burner pipe to the respective burner chamber is set via the sliding flange.

16. Flue connection

The prerequisite for a faultless functioning of the firing system is a correctly dimensioned flue. Dimensioning is carried out in accordance with DIN 4705 taking into consideration DIN 18160 and taking as a basis the boiler and burner output. The flues shall be provided in accordance with DIN 18160 part 1, group 1 for sliding operating modes. The exhaust gas mass flow of the overall nominal heat capacity must be used for the calculation. The effective flue height is reckoned from the exhaust gas inlet in the flue. In addition, we refer to the planning regulations of the individual federal states. The flue design is to be selected in such a way that the risk of condensation or a cold internal flue wall is reduced to a minimum.

We recommend that you install a tension limiter in order to precisely regulate and stabilise the flue.



This results in the following:

1. tension deviations are balanced
2. dampness in the flue is excluded to a large degree
3. downtime losses are reduced

IMPORTANT!

Overdimensioned flue sections or unsuitable flues for LT operating modes are very often specified when redeveloping existing systems. We recommend an appraisal of the flue system by the responsible chimney sweep for the district before installing the boiler system, so that a suitable redevelopment measure can also be devised, in good time, for the flue.

17. Exhaust gas thermometer

The heating system should be equipped with an exhaust gas thermometer for monitoring the exhaust gas temperature. The higher the exhaust gas temperature, the higher the exhaust gas loss. Rising exhaust gas temperatures point to increasing deposits, which reduce the firing efficiency. In the event of an increasing exhaust gas temperature, have the heating system cleaned and readjusted by a specialist.

18. Troubleshooting

Identification	Cause	Remedy
Burner motor is not running	Fuse faulty Safety thermostat locked Setting of controller temperature exceeded Controller faulty Motor faulty Oil preheater: heating or release thermostat faulty Motor-pump coupling faulty	Replace Unlock Try to restart i.a.w. temperature decrease Replace Replace Replace Replace
Burner does (not) start and indicates a faulty after the safety time has elapsed	a) with flame formation: Flame failure controller contaminated, faulty, not correctly inserted or not correctly set Controller faulty b) without flame formation: no ignition Burner not receiving any oil: Valves, oil line closed Oil tank empty Filter contaminated Oil line leaky Pump faulty Foot valve leaky Nozzle contaminated or faulty Solenoid valve faulty Filter in solenoid valve clogged Flame simulation Motor-pump coupling faulty Oil preheater clogged	Clean, replace, correctly insert Replace Ignition electrode and setting, Check ignition transformer and cable Open Refill oil Clean Seal Replace Seal Replace nozzle Replace Clean filter and replace solenoid valve see under functional control "control box" Replace Replace
Flame extinguished during operation	Oil reservoir worn Nozzle filter clogged Oil filter or oil feed lines contaminated Air inlets Solenoid valve faulty	Refill oil Replace nozzle Clean filter and lines Check suction line and firings Replace
Mixing device heavily oiled or has heavy coke crust	Incorrect setting Incorrect nozzle size Combustion air flow incorrect Central heating room insufficiently ventilated	Correct setting dimensions Replace Readjust burner Ensure aeration inlets are sufficiently large
Burner runs intermittently	Oil throughput too great	Install a control box with flying restart circuit

19. Adjustment table

The measure "A" refers to a height of 300m above sea level as well as a room temperature of approx. 20°C and a practically orientated furnace pressure with an exhaust gas CO₂ content of approximately 12.5%. The pump pressure is set via the pressure adjusting screw according to the required burner output.



The values specified in the tables are only reference inputs for commissioning. The respective required system setting must be redetermined in the event of deviating data such as boiler output, calorific value and elevation.

In any case, a system readjustment is necessary!

	Burner output	Boiler output at approx. 92%	Oil throughput	Nozzle size	Spray angle characteristics	Oil pump pressure	Air setting measure "A" approx.	Insulating material filter down left
	[kW]	[kW]	[kg/h]	[USgal/h]	[° -S]	[bar]	[mm]	
GL10.1-V	16.0	14.5	1.35	0.40	60°	12.0	5.0	yes
	17.5	16.0	1.48	0.40	60°	14.5	6.0	yes
	19.5	17.5	1.60	0.45	60°	11.5	6.5	yes
	21.0	19.5	1.77	0.45	60°	13.5	7.0	yes
	22.5	20.5	1.90	0.50	60°	12.5	7.5	yes
	24.0	22.0	2.02	0.50	60°	14.0	8.0	yes
	25.5	23.5	2.15	0.55	60°	12.5	8.5	yes
	27.0	25.0	2.28	0.55	60°	14.0	9.5	yes
	29.0	27.0	2.45	0.60	60°	12.5	10.0	yes
	31.0	28.5	2.61	0.60	60°	14.5	11.0	yes
	32.5	30.0	2.74	0.65	60°	13.0	11.5	yes
	33.5	31.0	2.82	0.65	60°	14.0	12.0	yes
	36.0	33.0	3.04	0.75	60°	11.5	13.0	yes
	37.5	34.5	3.16	0.75	60°	12.5	14.0	yes
40.0	36.5	3.37	0.75	60°	14.0	15.0	yes	
GL10.1	18.0	16.5	1.52	0.40	60°	11.0	6.0	yes
	19.5	18.0	1.64	0.40	60°	13.0	6.5	yes
	21.0	19.5	1.77	0.45	60°	11.5	7.5	yes
	22.5	20.0	1.90	0.45	60°	13.0	8.0	yes
	24.0	22.0	2.02	0.50	60°	12.5	8.5	yes
	25.5	23.5	2.15	0.50	60°	14.0	9.0	yes
	27.0	25.0	2.28	0.55	60°	12.0	9.5	yes
	29.0	27.0	2.45	0.55	60°	14.0	10.5	yes
	31.0	28.5	2.61	0.60	60°	12.5	11.0	yes
	32.5	30.0	2.74	0.60	60°	14.0	11.5	yes
	34.0	31.5	2.87	0.65	60°	12.0	12.0	yes
	36.0	33.0	3.04	0.65	60°	13.0	13.0	yes
	37.5	34.5	3.16	0.75	60°	10.5	13.5	yes
	40.0	36.5	3.37	0.75	60°	12.0	15.0	yes

	Burner output	Boiler output at approx. 92%	Oil throughput	Nozzle size	Spray angle characteristics	Oil pump pressure	Air setting measure "A" approx.	Insulating material filter down left
	[kW]	[kW]	[kg/h]	[USgal/h]	[° -S]	[bar]	[mm]	
GL10.2-V	25.0	23.0	2.11	0.55	60°	12.0	5.5	yes
	27.0	25.0	2.28	0.55	60°	13.5	6.0	yes
	29.0	27.0	2.45	0.60	60°	12.5	6.5	yes
	31.0	28.5	2.61	0.60	60°	14.0	7.0	yes
	33.0	30.5	2.78	0.65	60°	13.0	7.5	yes
	34.0	31.5	2.95	0.65	60°	14.5	8.0	yes
	37.0	34.0	3.12	0.75	45°	13.0	8.5	yes
	39.0	36.0	3.29	0.75	45°	14.5	9.0	yes
	41.0	37.5	3.46	0.85	45°	12.0	9.5	yes
	43.0	39.5	3.63	0.85	45°	13.0	10.5	yes
	45.0	41.5	3.79	1.00	45°	11.5	11.0	yes
	47.0	43.0	3.96	1.00	45°	12.5	12.0	yes
	49.0	45.0	4.13	1.10	45°	10.5	12,5	yes
	53.0	49.0	4.47	1.10	45°	12.5	14.0	no
	55.0	50.6	4.64	1.10	45°	13.0	15.0	no
	57.0	52.5	4.81	1.25	45°	12.5	16.0	no
59.0	54.3	4.97	1.25	45°	13.5	17.5	no	
61.0	56.0	5.14	1.35	45°	11.5	18.0	no	
65.0	60.0	5.48	1.35	45°	13.5	21.0	no	
GL10.2	35.0	32.0	2.95	0.65	45°	12.5	8.0	yes
	37.0	34.0	3.12	0.75	45°	11.0	8.5	yes
	39.0	36.0	3.29	0.75	45°	12.0	9.0	yes
	41.0	37.5	3.46	0.85	45°	11.0	10.0	yes
	43.0	39.5	3.63	0.85	45°	12.0	10.5	yes
	45.0	41.5	3.79	1.00	45°	10.0	11.0	yes
	47.0	43.0	3.96	1.00	45°	11.5	12.0	yes
	49.0	45.0	4.13	1.00	45°	12.0	13.5	yes
	53.0	49.0	4.47	1.10	45°	11.0	14.0	no
	55.0	50.6	4.64	1.10	45°	12.0	15.0	no
	57.0	52.5	4.81	1.25	45°	10.5	16.0	no
	59.0	54.3	4.97	1.25	45°	12.0	17.5	no
61.0	56.0	5.14	1.35	45°	10.0	18.0	no	
65.0	60.0	5.48	1.35	45°	12.0	21.0	no	



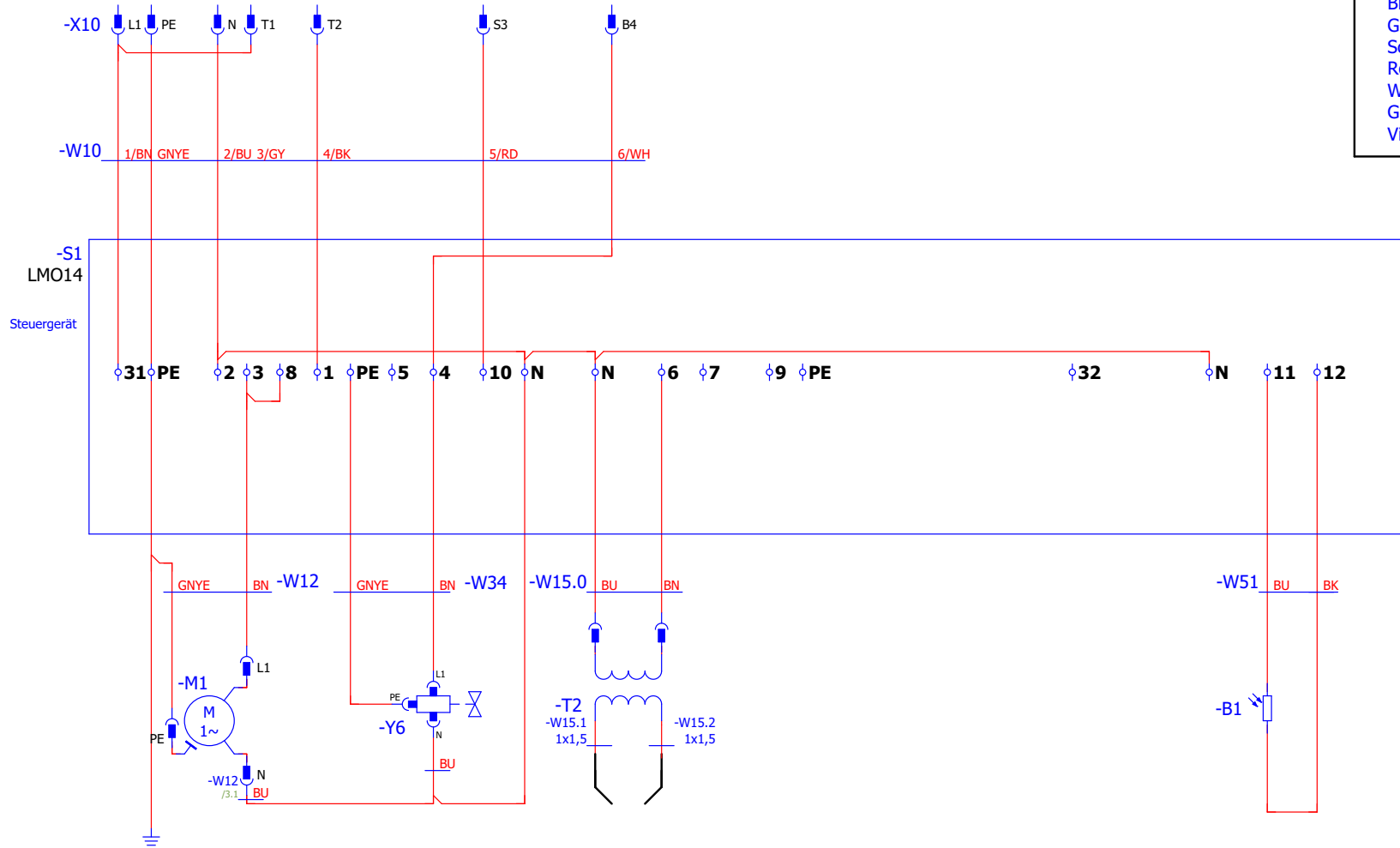
Caution!

From nozzle size 1.10 you have to delete the insulating material filter (1) down left (see picture).



SP_1-1012

Aderfarben	
Braun	- BN
Blau	- BU
Grau	- GY
Schwarz	- BK
Rot	- RD
Weiss	- WH
Grünelb	- GNYE
Violett	- VT



Grundplatte

Lüftermotor

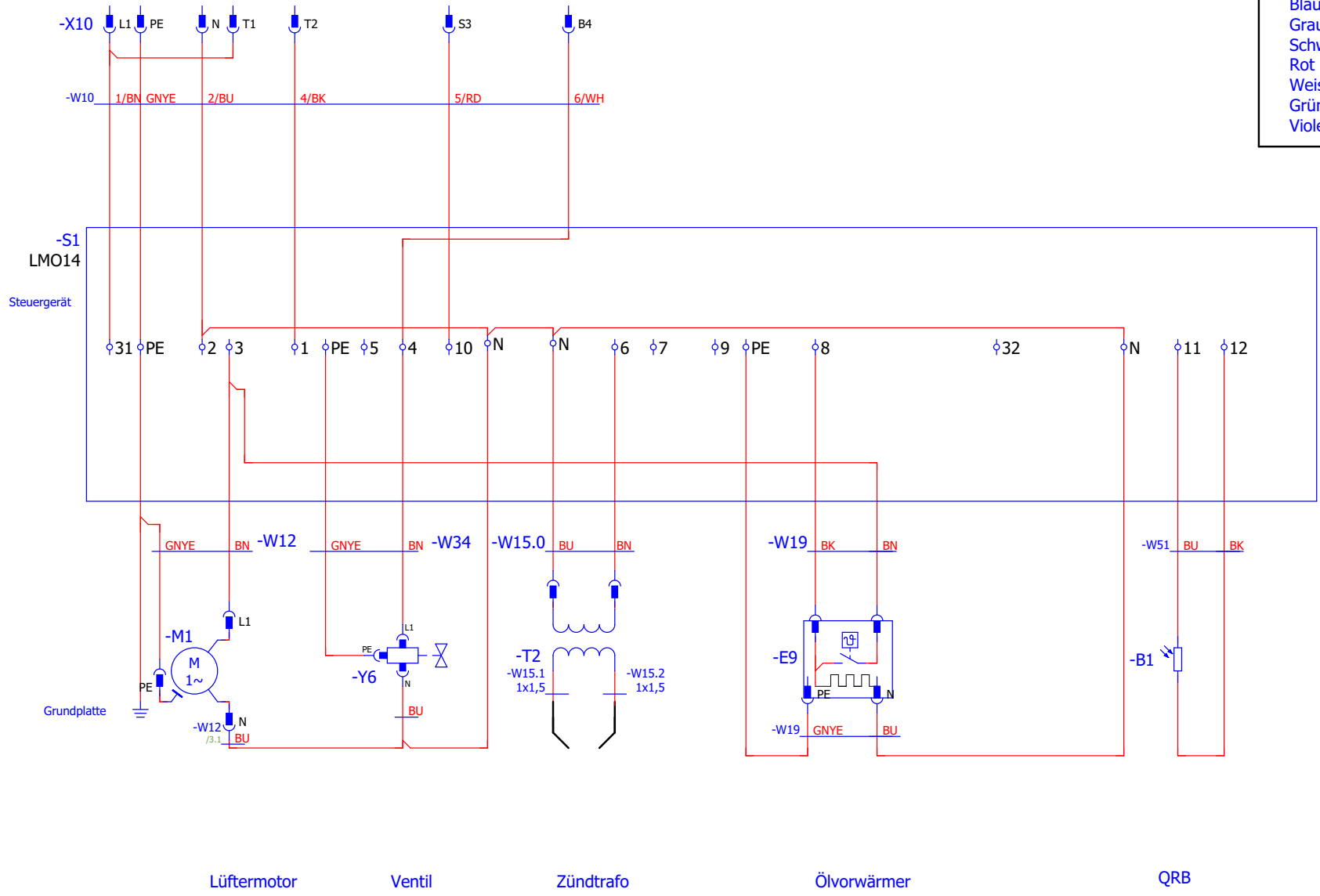
Ventil

Zündtrafo

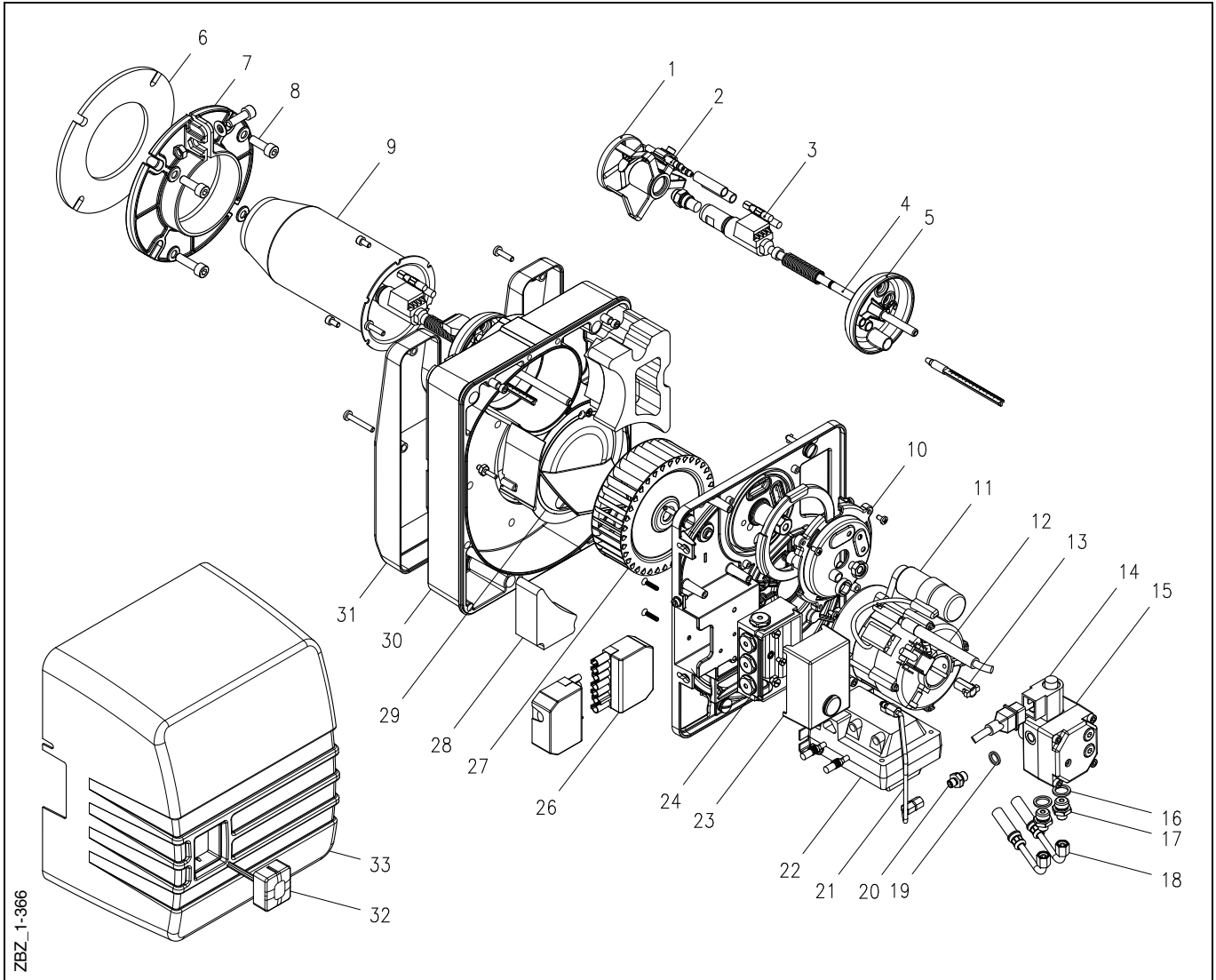
Ölvorwärmer

QRB

Aderfarben	
Braun	- BN
Blau	- BU
Grau	- GY
Schwarz	- BK
Rot	- RD
Weiss	- WH
Grüngelb	- GNYE
Violett	- VT



21. Exploded diagram and spare parts list



Position	Designation	VE	Item no.
1	Accumulator plate with retainer and twin electrode	1	31-90-20869
2	Twin electrode	1	31-90-11411
3	Ignition cable 450 mm long	10	47-90-24835
4	Nozzle holder cpl.for GL 10.1 (Snap ring for throttle position 3 with sleeve)	1	47-90-30048
4	Nozzle holder cpl. with oil preheater and cable (for GL10.1-V) (Snap ring for throttle position 2 without sleeve)	1	47-90-30049
4	Nozzle holder cpl.for GL 10.2 (Snap ring for throttle position 2 without sleeve)	1	47-90-30050
4	Nozzle holder cpl. with oil preheater and cable (for GL10.2-V) (Snap ring for throttle position 1 without sleeve)	1	47-90-30051
4	Nozzle GL10.1-L-K92 short version	1	47-90-30040
4	Nozzle GL10.2-L-K92 short version	1	47-90-30041
5	Air throttle	1	47-90-24478
6	Flange seal	5	31-50-10104
7	Assembly kit cpl. for replacement (Pos. 6, 7, 8)	1	31-90-11421
9	Burner pipe 195 mm lg.	1	47-90-12552
10	Spring cover	1	47-90-24821
11	Motor 230 V / 50 Hz 90 W	1	31-90-11582
12	flame failure controller QRB (108 mm)	1	47-90-29981
13	Motor coupling	1	37-90-11586
14	Solenoid valve	1	47-90-29443
15	Danfoss BFP 21LG pump with connectors	1	47-90-22504
16	Seal 13 x 18 x 2	50	37-50-11293
17	Hose stem NW4 R 1/4	10	47-50-20862
18	Oil hose NW4 1200 mm lg.	2	47-50-10802
19	Seal 10 x 14 x 2	50	37-50-10788
20	Pressure pipe nipple R1/8	5	37-50-20200
21	Pressure pipe for oil pump - nozzle holder	1	47-90-22064
22	Ignition transformer cpl. for replacement	1	47-90-24831
23	Control box LMO14	1	47-90-26320
23	Control box LMO64 with 90s overrun time	1	47-90-29777
24	control box lower part AGK	1	37-90-11310-01
26	Female connector, 7-pole black-brown with cable	1	47-90-22072
27	Impeller ø133x42	1	31-90-11477
28	Insulating material filter	1	47-90-22105
29	Feed nozzle for GL10.1 (Position 0)	1	47-90-22528
29	Feed nozzle for GL10.2 (Position 1)	1	47-90-21774
30	Housing with intake silencer	1	47-90-21770
31	Intake damper cpl.	1	47-90-21768
32	Interference-suppression button, short	5	47-50-21767
33	Burner cover	1	47-90-21765
-	Replacement set of quick release fasteners G / GL10 / GB / GL20 / GG10 / GG20	1	47-90-29352

VE = packaging unit 1, 5, 10, 20, 50 items

22.Declaration of conformity



Enertech GmbH, Postfach 3063, 58662 Hemer

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Declaration of Conformity for Oil Burners

We, Enertech GmbH, Adjutantenkamp 18 in D-58675 Hemer declare under our responsibility that

oil burner type **GB20.., GBZ20..,
GB30.., GBZ30.. and
GL10...**

are conform with the regulations of these directives

MD2006/42/EC
EMC2004/108/EC
BED92/42/EEC
LVD2006/95/EC
ErP2009/125/EG


und are marked with:



EN 267 report OB 2792016T1 TÜV Rheinland Energy GmbH

Hemer, 13.10.2016

ppa. 
Wendel
Sales director

i.V. 
Rebbe
Technical management

Art.-Nr. 89-10--80875 Druck-Nr. 12/15

Geschäftsführer
Dr. Josef Wrobel,
Roger Hancox,
Nicholas Anton

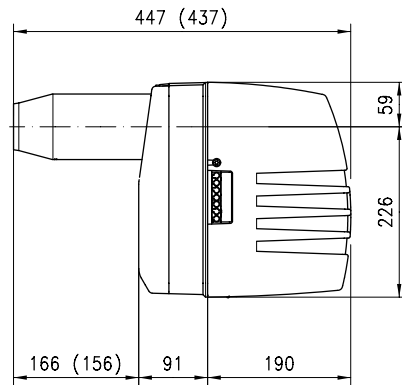
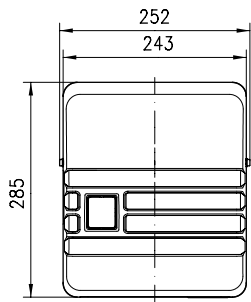
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HRB 1275
UST-IdNr.
DE 811184520

Hausanschrift
Adjutantenkamp 18
58675 Hemer

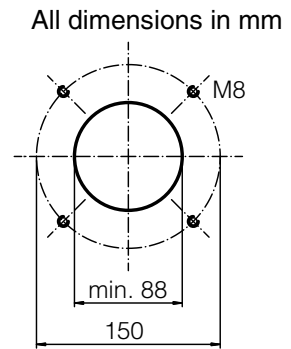
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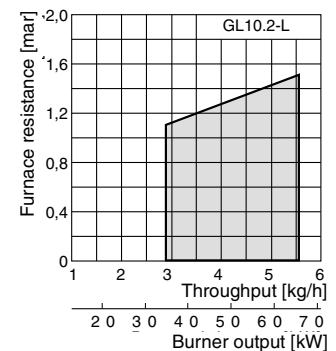
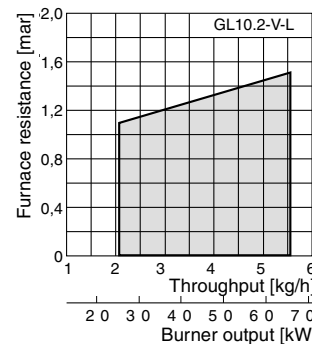
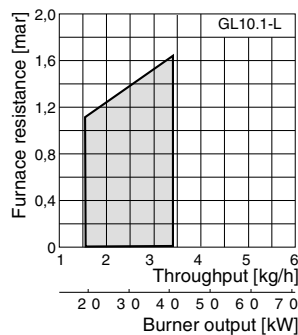
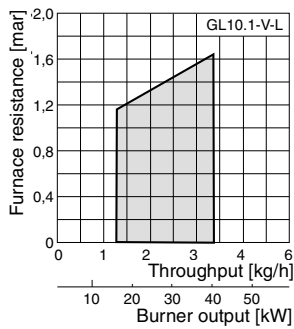
23. Burner dimensions / boiler connection dimensions



Boiler connection dimensions



24. Work ranges



Work ranges i.a.w. DIN EN 267.

The work ranges refer to a height of approx. 200m above sea level and a room temperature of 20°C.

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