

## Technical Information • Data Sheet

# GL10

Issued April 2024  
Right reserved to effect technical  
changes in the interest of product im-  
provement !

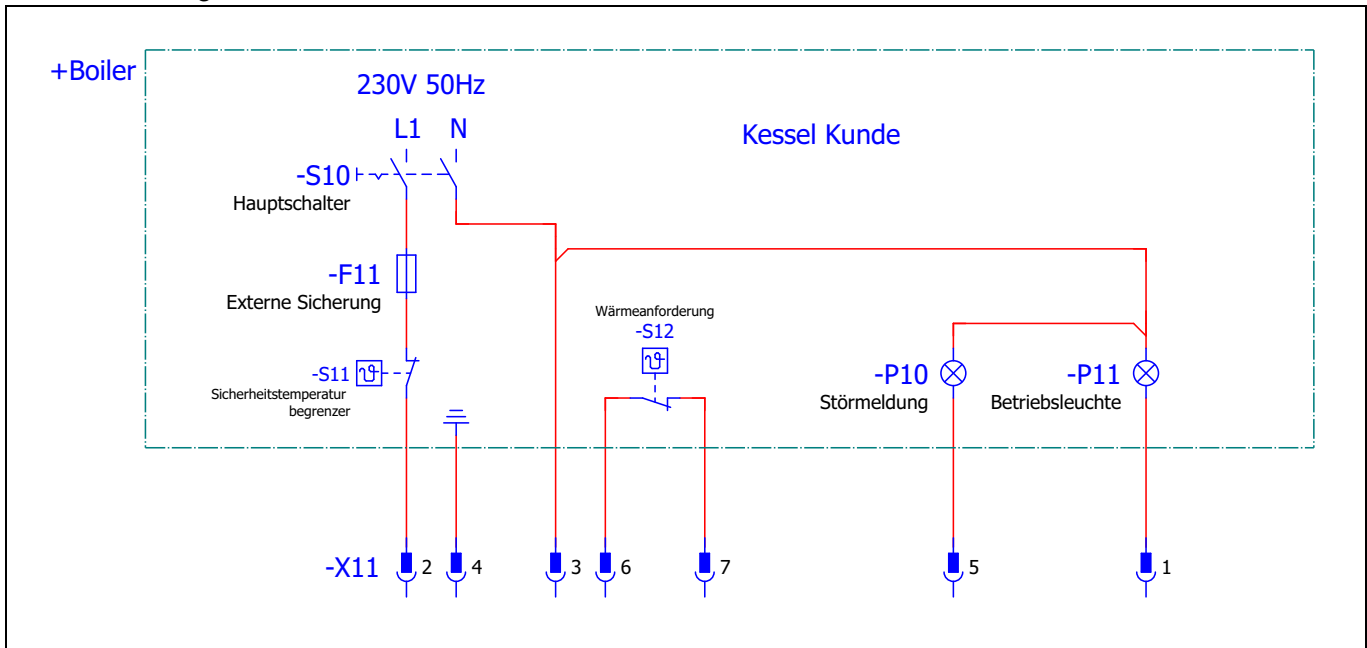
Oil



## Electrical connection

The electrical connection must be made in the enclosed plug section according to the wiring diagram, taking into account local regulations. The supply line must be protected with a 6.3 A slow-blow or 10 A fast-blow fuse and appropriately laid as a flexible cable. If the connector is already wired, check the connections according to the wiring diagram opposite.

Connection diagram



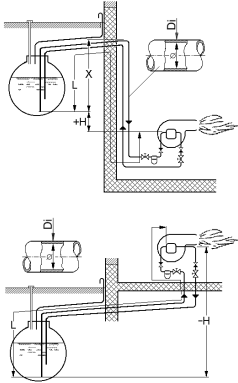
## Oil connection

The tables refer to fuel oil EL 4.8 cSt and the internal diameter of the oil pipes specified in the table. For the suction line length, 4 elbows, 1 valve and 1 non-return valve for the resistance were taken into account. Due to possible outgassing of the oil, the dimension X should not exceed a length of 4 metres.

**Assumptions:** kinem. Viscosity 6 mm<sup>2</sup>/s at 20°C, temperature oil = 10°C

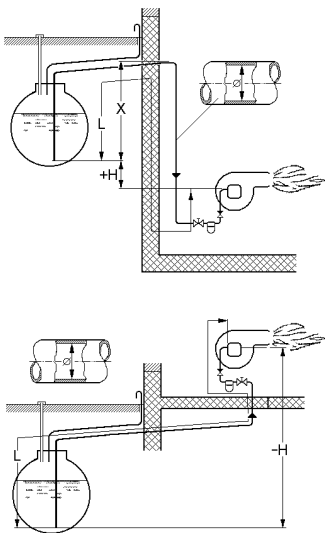
**Additional resistances:** 4 90° bends, 1 non-return valve, 1 shut-off valve

### Two-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 throughput [kg/h]	Di [mm]	H [m]								
		4	3	2	1	0	-1	-2	-3	-4
bis 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

## Technical specifications

	<b>GL10.1-V-L</b>	<b>GL10.2-V-L</b>
Burner output in kg/h in kW	1,30 - 3,40 15,5 - 40,3	2,10 - 5,65 25,0 - 67,0
recommended Boiler output in kW (92%)	14,2 - 37,0	22,5 - 62,0
Voltage	1 / N / PE ~ 50 Hz / 230 V	
Power consumption in W (max.) Start / Operation	305 / 214	330 / 240
Control box	LMO	
Flame failure controller	QRB	
Weight in kg	11	
Noise emission in db(A)	58	59
Emission class	3	
NOx limit value	< 120 mg/kWh	

## Adjustment table

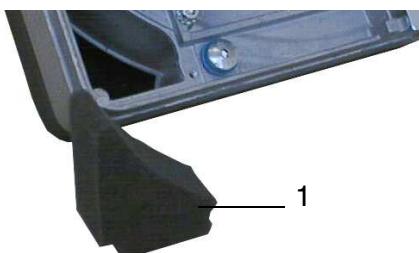
	Burner output	Boiler output ca. 92%	Oil throughput	Nozzle size	Sprühwinkel -charakteristik	Oil pump pressure	Air adjustment Measure "A" ca.	Insulation filler piece bottom left
	[kW]	[kW]	[kg/h]	[USgal/h]	[° -S]	[bar]	[mm]	
<b>GL10.1-V</b>	16,0	14,5	1,35	0,40	60°	12,0	5,0	yes
	17,5	16,0	1,48	0,40	60°	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	

	Burner output	Boiler output ca. 92%	Oil throughput	Nozzle size	Sprühwinkel -charakteristik	Oil pump pressure	Air adjustment Measure "A" ca.	Insulation filler piece bottom left
	[kW]	[kW]	[kg/h]	[USgal/h]	[° -S]	[bar]	[mm]	
<b>GL10.2-V</b>	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	



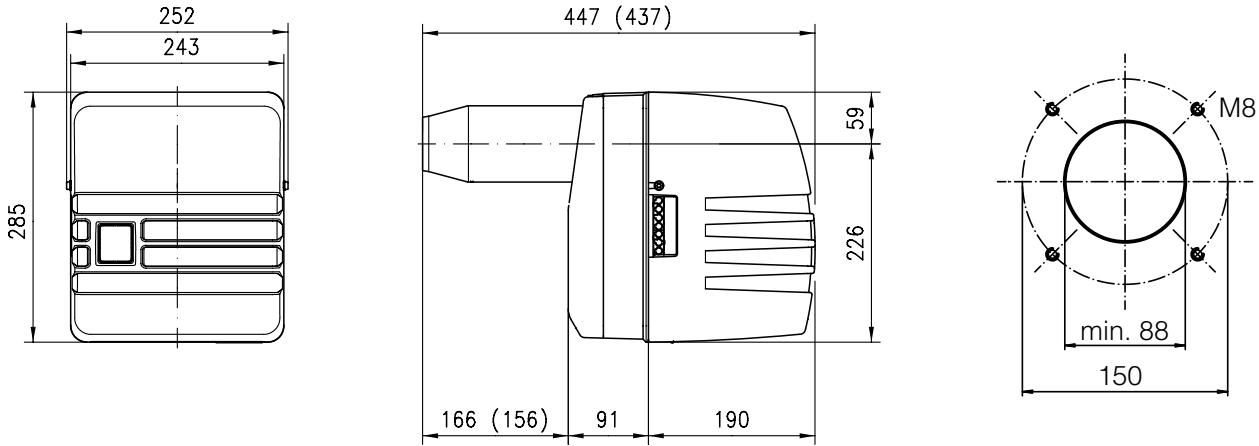
### Attention!

From nozzle size 1.10, the insulation filler piece (1) must be removed at the bottom left (see illustration).

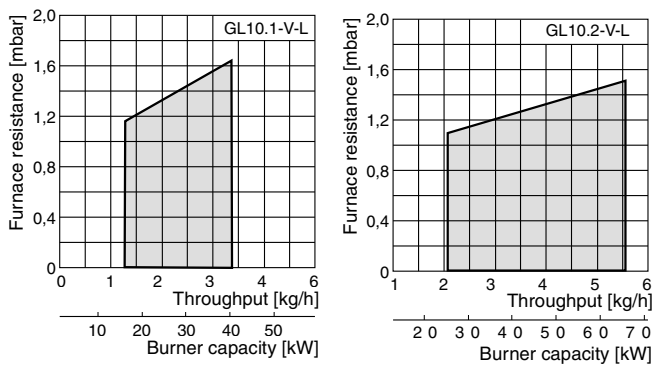


## Overall dimensions / Boiler connection measures

(all dimensions are given in mm)



## Working ranges



Working ranges acc. to DIN EN 267.

The working ranges refer to an altitude of approx. 200 metres above sea level and a room temperature of 20°C.

All information in this technical documentation as well as the drawings, photos and technical descriptions placed at your disposal remain our property and may not be duplicated without our written permission given in advance. Subject to alterations.

# GIERSCH

Giersch GmbH • Brenner und Heizsysteme  
 Adjutantenkamp 18 • D-58675 Hemer • Telefon 02372/965-0 • Telefax 02372/61240  
 E-Mail: info@giersch.de • Internet: <http://www.giersch.de>

