

Technische Information • Data sheet

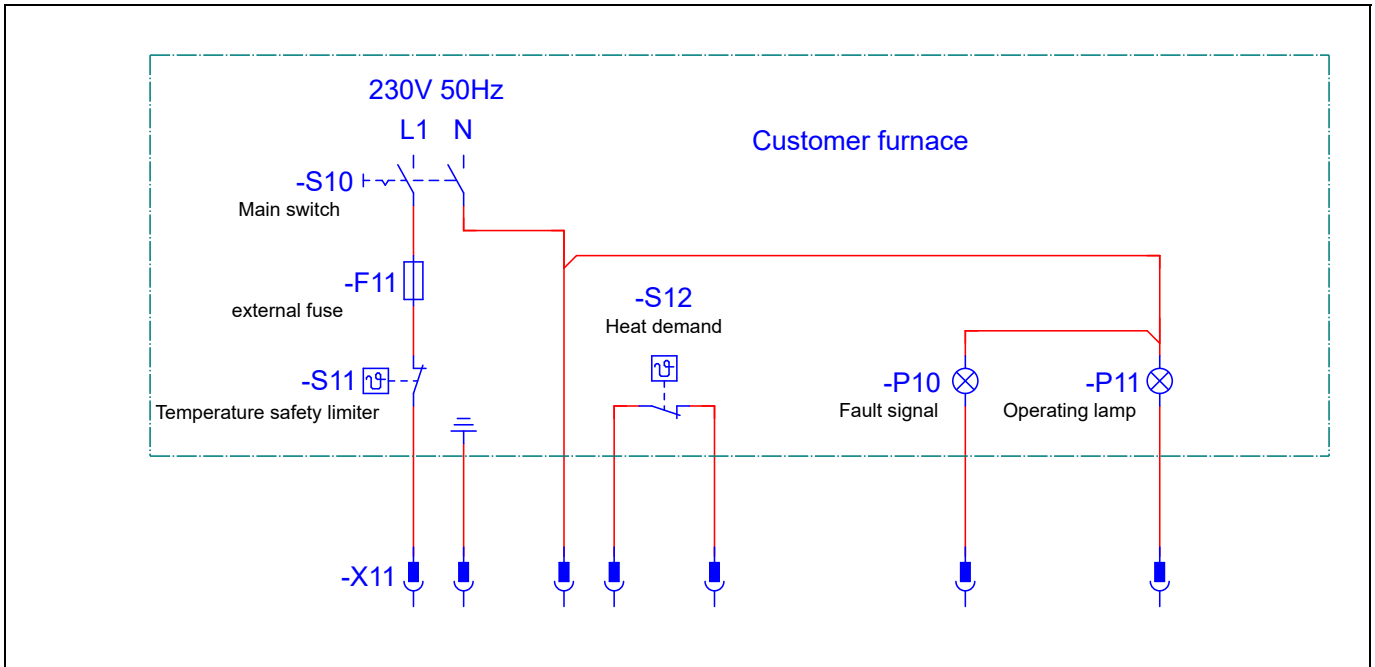
R1

Edition April 2024
Technical changes in the sense of
product improvement reserved!

Oil



Electrical connection

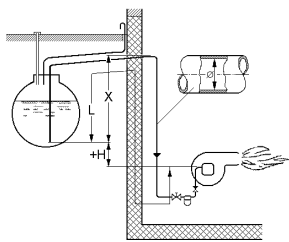


Oil connection

Assumptions: kinematic viscosity 6 mm²/s at 20°C, oil temperatur = 10°C

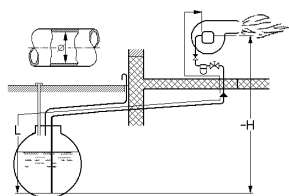
Additional restrictions: 4x 90° bends, 1x non-return valve, 1x shut-off valve

Due to possible gas discharge of the oil, the dimension X should not exceed a length of 4 m



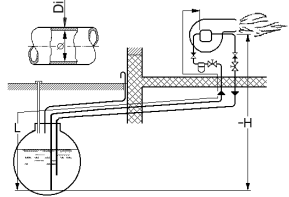
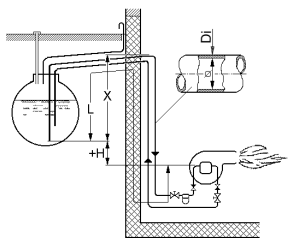
Single-strand system

Oil flow rate [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	5
	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



Double-strand 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	-



Technical specifications

	R1 (-L)	R1-V (-L)
Burner output	1,2 - 4,5 kg/h =14 - 53 kW	1,0 - 4,5 kg/h =12 - 53 kW
recommended boiler output	12,5 - 48 kW 11-41 Mcal/h	11 - 48 kW 9,5-41 Mcal/h
Voltage	1 / N / PE ~50 Hz / 230 V	
Max. power consumption	1,9 A	2,7 A
Motor	90 W	
Weight in kg	12	
Noise emission in dB(A)	≤ 60	
Emissions class	3	
NOx limit value	< 120 mg/kWh	

Setting tables

R1-L with intake silencer

Burner output	Boiler output at $\eta^k = 92\%$	Nozzle	Pump pressure	Oil flow rate	Coarse air adjustment Dimension "A"
[kW]	[kW]	[USgal/°]	[bar]	[kg/h]	[mm]
14,5	13,4	0,30/60°S	10	1,2	4,0
17,5	16,0	0,40/60°S	10	1,5	5,5
20,5	19,0	0,40/60°S	14	1,7	6,5
24,0	22,0	0,50/60°S	12	2,0	8,5
28,0	26,0	0,55/60°S	12	2,4	9,5
32,5	30,0	0,60/60°S	13	2,7	11,5
36,0	33,0	0,65/45°S	11	3,0	12,5
41,0	37,5	0,75/45°S	13	3,5	14,5
47,5	43,5	0,85/45°S	14	4,0	17,5
53,0	48,0	1,00/45°S	12	4,4	18,5

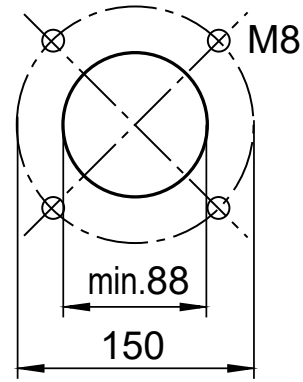
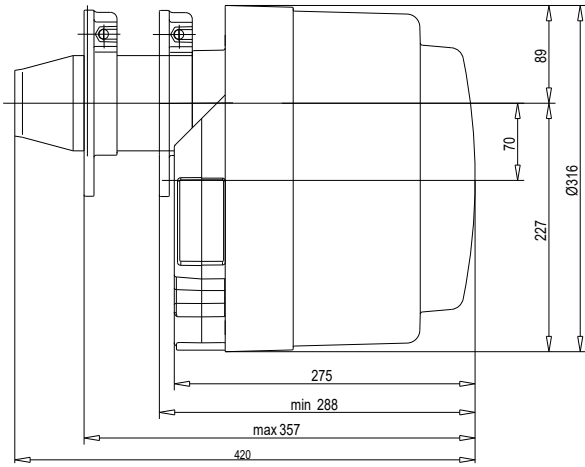
R1-L-V with intake silencer

Burner output	Boiler output at $\eta^k = 92\%$	Nozzle	Pump pressure	Oil flow rate	Coarse air adjustment Dimension "A"
[kW]	[kW]	[USgal/°]	[bar]	[kg/h]	[mm]
13,0	12,0	0,40/60°S	8	1,1	4,0
15,0	14,0	0,40/60°S	10	1,3	4,5
18,0	16,5	0,50/60°S	8	1,5	5,5
20,0	18,5	0,50/60°S	10	1,7	6,5
21,5	20,0	0,55/60°S	8	1,8	7,0
23,0	21,0	0,55/60°S	9	1,9	7,5
25,0	23,0	0,60/60°S	8	2,1	8,0
26,5	24,5	0,60/60°S	10	2,2	9,5
29,5	27,0	0,65/45°S	10	2,5	10,5
32,5	30,0	0,75/45°S	10	2,7	11,5
35,5	32,5	0,85/45°S	9	3,0	13,0
38,5	35,5	0,85/45°S	10	3,2	13,5
41,0	37,5	1,00/45°S	9	3,5	15,0
45,0	41,5	1,10/45°S	8	3,8	16,0
48,5	44,5	1,10/45°S	9	4,1	16,5
51,5	47,5	1,10/45°S	10	4,3	18,5
53,0	49,5	1,25/45°S	10	4,6	20,5

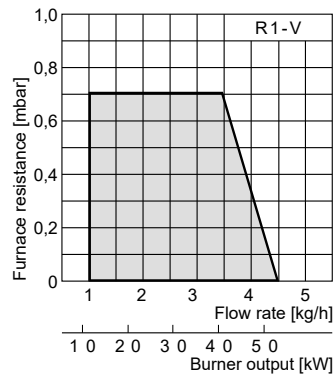
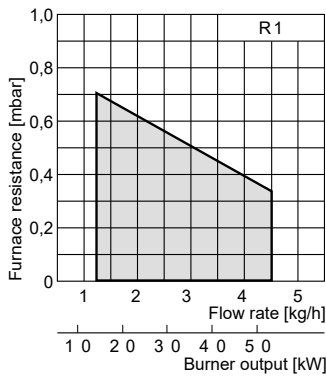
The setting values were determined using Danfoss nozzles.

Dimensions / boiler connection dimensions

All dimensions in mm



Working fields



Working fields tested in accordance with DIN EN 267.

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

All information specified in this technical document as well as the drawings, photos and technical descriptions provided by us remain our property and may not be reproduced without our prior written permission. Subject to change without notice.

GIERSCH

Giersch GmbH - Brenner und Heizsysteme
 Adjutantenkamp 18 - D-58675 Hemer - Phone +49(0)2372/965-0
 E-mail: info@giersch.de - Internet: <http://www.giersch.de>

