

Main dimensions



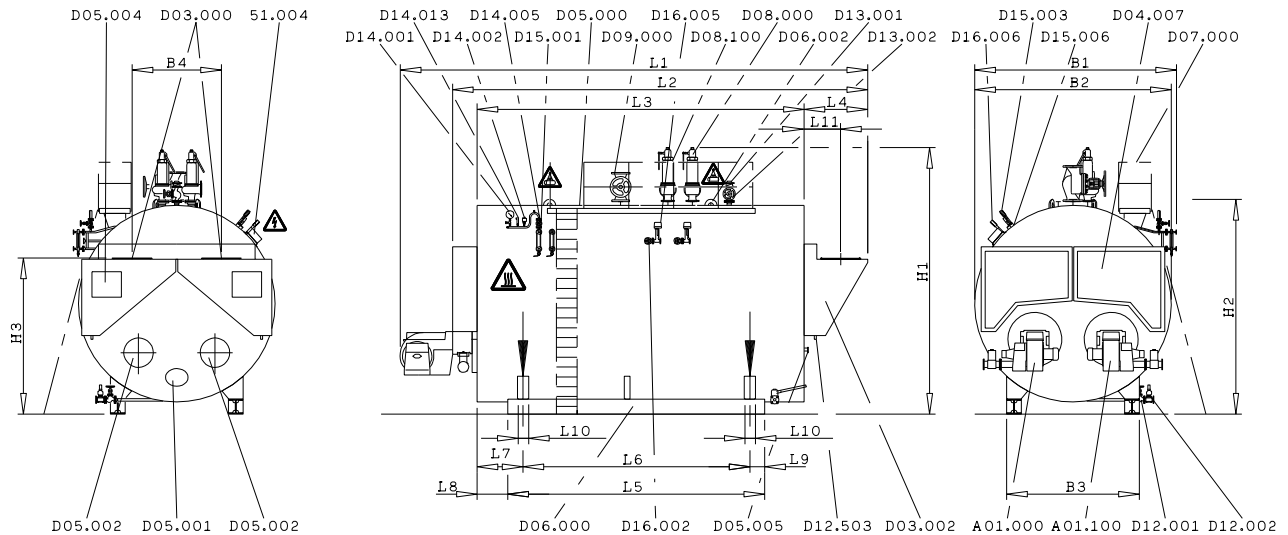
BOSCH

UNIVERSAL steam boiler ZFR

in three-pass flame-tube smoke-tube technology

DA023

Version 3 (06/21)



51.004	Terminal box	D12.001	Drain shut-off valve
A01.000	Burner 1 (left burner)	D12.002	Quick shut-off blow down valve
A01.100	Burner 2 (right burner)	D12.503	Connection for drainage flue gas condensate
D03.000	Flue gas connection socket	D13.001	Feed water shut-off valve
D03.002	Flue gas chamber	D13.002	Feed water non-return valve
D04.007	Reversing chamber door	D14.001	Pressure indicator (with test unit)
D05.000	Inspection opening steam-side	D14.002	Pressure limiter
D05.001	Inspection opening water side	D14.005	Shut-off valve
D05.002	Inspection opening flue gas side	D14.013	Pressure transducer
D05.004	Inspection opening flue gas side	D15.001	Level indicator 1
D05.005	Sight hole		Level indicator 2 option
D06.000	Base frame	D15.003	Level transducer
D06.002	Lifting lug	D15.006	Level limiter
D07.000	Operating platform option	D16.002	Desalting shut-off valve option ⁴⁾
D08.000	Pressure safeguard valve 1	D16.005	Desalting control valve option
D08.100	Pressure safeguard valve 2 option	D16.006	Conductivity transducer option
D09.000	Steam shut-off valve		

Explanation of symbols



Warning: dangerous electrical voltage



Lifting equipment to be fastened here, only



Warning: hot surface, e. g. uninsulated fitting



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UNIVERSAL steam boiler Type	Dimension(s)								Flue gas connection		
	L 1 ²⁾ [mm]	L 2 ¹⁾⁵⁾ [mm]	L 3 [mm]	L 4 [mm]	B 1 [mm]	B 2 ¹⁾ [mm]	H 1 ³⁾ [mm]	H 2 ¹⁾ [mm]	L 11 [mm]	B 4 [mm]	H 3 [mm]
ZFR 20000	8679	7160	5575	1075	3817	3700	4924	4012	603	1500	2850
ZFR 23000	9069	7550	5825	1215	4017	3900	5128	4216	673	1500	3054
ZFR 28000	10039	8570	6655	1355	4117	4000	5232	4320	743	1500	3158
ZFR 30000	10039	8670	6655	1355	4267	4200	5604	4507	743	1800	3345
ZFR 35000	10685	9090	7075	1355	4467	4400	5794	4697	743	1850	3535
ZFR 40000	10935	9340	7325	1355	4467	4400	5874	4697	743	1850	3535
ZFR 50000	10668	9780	7575	1495	4767	4700	6187	5010	813	1850	3848
ZFR 55000	11658	10530	8325	1495	4767	4700	6422	5020	813	1850	3848

UNIVERSAL steam boiler Type	Base frame							wide flange beam [IPB - HEB - DIN1025] [mm]
	L 5 [mm]	L 6 [mm]	L 7 [mm]	L 8 [mm]	L 9 [mm]	L 10 [mm]	B 3 [mm]	
ZFR 20000	4325	3725	925	625	300	225	2470	260
ZFR 23000	4575	3975	925	625	300	225	2600	280
ZFR 28000	5225	4625	925	625	300	225	2700	300
ZFR 30000	5375	4775	850	550	300	225	2800	300
ZFR 35000	5500	4900	950	650	300	225	2900	300
ZFR 40000	5500	4900	1120	820	300	225	2900	300
ZFR 50000	5500	4900	1335	1035	300	425	3100	300
ZFR 55000	6250	5650	1335	1035	300	425	3100	300

- References and defaults to Requirements for the boiler installation room see technical information TI024.
 - Equipment and complete dimensions in accordance with project-related, technical data sheet.
 - The scope of delivery is defined in the order confirmation.
 - The boiler operating weight must be absorbed by the foundation in the area of the front and rear supports.
 - Where dimensions or weights are specified on the datasheet, the following tolerances apply: measurements $\pm 1\%$; transportation weight $\pm 4\%$; maximum weight $\pm 2\%$ (also refer to Technical information TI024, chapter Pipe system)
 - The dimensions are designed for standard insulation:
 - 150 mm thick on the boiler ends
 - 175 mm thick at the rear end
 - 100 mm thick on the boiler shell
 - Dimensioning insertion opening:
 - Positioning height: addition of at least 100 mm to dimension H1 resp. dimension H2 (mounted / not mounted fittings)
 - Positioning width: addition of at least 200 mm to dimension B1 resp. dimension B2 (mounted / not mounted fittings)
 - The height of the boiler house is determined by the system equipment. The clear passage over the operating platform should be at least 2 m.
- 1) Smallest transport dimensions once fittings, burner and terminal box have been removed (without cable ducting; with cable ducting $2 \times + 75 \text{ mm}$).
 - 2) Dimension L1 is a standard gauge and depends on the make, type and rated capacity of burner.
 - 3) Dimension H1 may vary acc. to valve manufacturer.
 - 4) Depending on the hydrochemical mode of the boiler, 2 nozzles are provided with the corresponding valves (if included in the scope of delivery) if necessary.
 - 5) In case of superheater boiler ZFR-X, dimension L2 increases. See data sheet DA003 Fire Tube Dimensions and Burner Add-On Limits.