

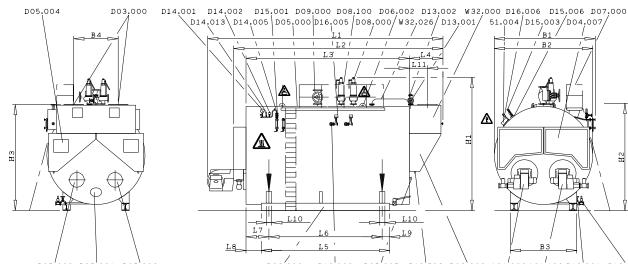
in three-pass flame-tube smoke-tube technology with integrated flue gas heat exchanger

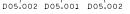
BOSCH

/_{B1}

/ B2

DA029 Version 3 (06/21)





51.004	Terminal box
A01.000	Burner 1 (left burner)
A01.100	Burner 2 (right burner)
D03.000	Flue gas connection socket
D03.002	Flue gas chamber
D04.007	Reversing chamber door
D05.000	Inspection opening steam-side
D05.001	Inspection opening water side
D05.002	Inspection opening flue gas side
D05.004	Inspection opening flue gas side
D05.005	Sight hole
D06.000	Base frame
D06.002	Lifting lug
D07.000	Operating platform option
D08.000	Pressure safeguard valve 1
D08.100	Pressure safeguard valve 2 option
D09.000	Steam shut-off valve
D12.001	Drain shut-off valve

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2

D12.002	Quick shut-off blow down valve
D12.503	Connection for drainage flue gas condensate
D13.001	Feed water shut-off valve
D13.002	Feed water non-return valve
D14.001	Pressure indicator (with test unit)
D14.002	Pressure limiter
D14.005	Shut-off valve
D14.013 D15.001	Pressure transducer Level indicator 1 Level indicator 2 option
D15.003	Level transducer
D15.006	Level limiter
D16.002	Desalting shut-off valve option ⁴⁾
D16.005	Desalting control valve option
D16.006 W32.000 W32.026	Connecting pipe

Explanation of symbols

Warning: dangerous voltage

electrical

Lifting equipment to be fastened here, only

۱L2

LЗ



Warning: hot surface, e. g. uninsulated fitting



in three-pass flame-tube smoke-tube technology with integrated flue gas heat exchanger



DA029

Version 3 (06/21)

UNIVERSAL steam boiler	Dimension(s)							Flue gas connection			
	L 1 ²⁾	L 2 ¹⁾⁵⁾	L 3	L 4	B 1	B 2 ¹⁾	H 1 ³⁾	H 2 ¹⁾	L 11	B 4	H 3
Туре	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
ZFR 20000	8818	7298	5575	1214	3817	3810	4924	4012	603	1500	3985
ZFR 23000	9206	7688	5825	1354	4017	3910	5128	4216	673	1500	4189
ZFR 28000	10228	8758	6655	1544	4117	4000	5232	4320	743	1500	4293
ZFR 30000	10228	8858	6655	1544	4267	4310	5604	4507	743	1800	4480
ZFR 35000	10834	9238	7075	1504	4467	4510	5794	4697	743	1850	4670
ZFR 40000	11124	9528	7325	1544	4467	4510	5874	4697	743	1850	4670
ZFR 50000	10896	10008	7575	1722	4767	4700	6187	5010	813	1850	4983
ZFR 55000	11716	10758	8325	1722	4767	4700	6422	5020	813	1850	4983

UNIVERSAL steam boiler	Base frame							
	L 5	L 6	L 7	L 8	L 9	L 10	В3	wide flange beam
								[IPB - HEB - DIN1025]
Туре	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[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 ± 1%; transportation weight ± 4%; maximum weight ±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.
- Smallest transport dimensions once fittings, burner and terminal box have been removed (without cable ducting; with cable ducting 2 x + 75 mm).
- ²⁾ Dimension L1 is an 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.