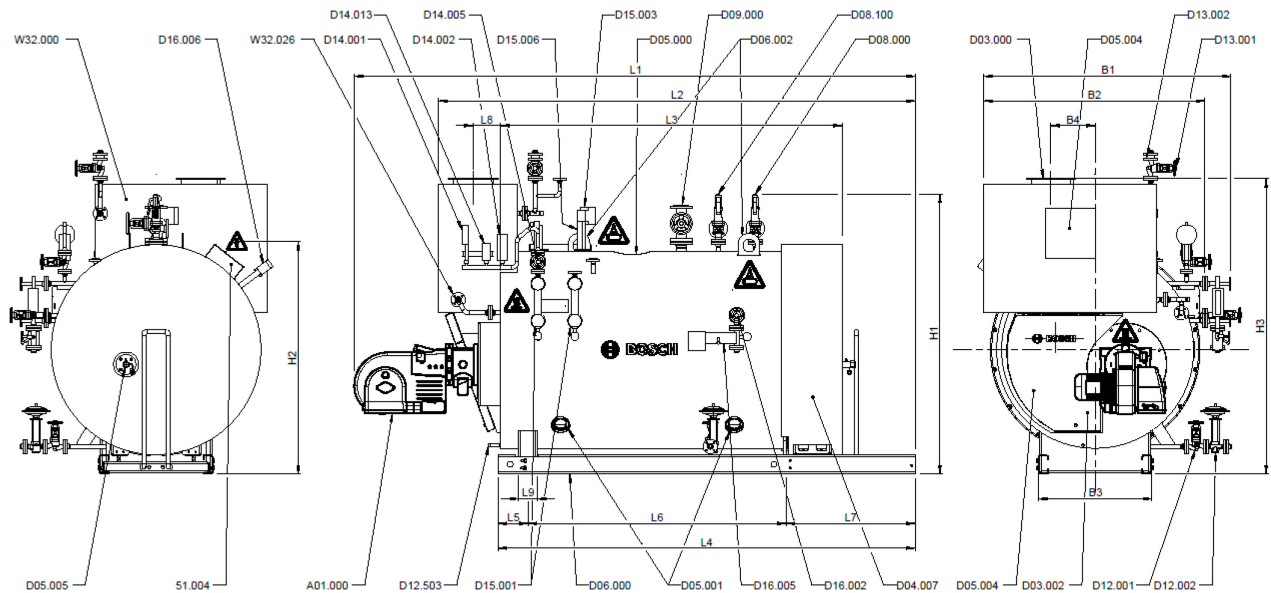


UNIVERSAL Steam boiler CSB

in flame tube smoke tube technology with integrated flue gas heat exchanger

DA441

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51.004	Terminal box	D12.503	Connection for drainage flue gas condensate
A01.000	Burner	D13.001	Feed water shut-off valve
D03.000	Flue gas connection socket	D13.002	Feed water non-return valve
D03.002	Flue gas chamber	D14.001	Pressure indicator (test unit)
D04.007	Reversing chamber door	D14.002	Pressure limiter
D05.000	Inspection opening steam side	D14.005	Shut-off valve
D05.001	Inspection opening water 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	Transportation lug	D15.006	Level limiter
D08.000	Pressure safeguard valve 1	D16.002	Desalting shut-off valve Option
D08.100	Pressure safeguard valve 2 Option	D16.005	Desalting control valve Option
D09.000	Steam shut-off valve	D16.006	Conductivity transducer
D12.001	Drain shut-off valve	W32.000	Economizer
D12.002	Quick shut-off blow-down valve	W32.026	Connecting pipe

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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Boiler type	Dimensions						
	L 1 ³⁾ [mm]	L 2 ¹⁾ [mm]	L 3 [mm]	B 1 [mm]	B 2 ¹⁾ [mm]	H 1 [mm]	H 2 ¹⁾ [mm]
CSB 650	3344	3025	2040	1731	1514	1997	2093
CSB 1250	3898	3586	2510	1856	1652	2142	2180
CSB 2000	4344	3867	2790	2006	1732	2332	2409
CSB 3000	4622	4248	3080	2150	1924	2472	2504
CSB 4300	5282	4869	3610	2242	2026	2652	2421
CSB 5200	5612	5200	3940	2388	2162	2847	2513
CSB 6700	6667	5462	4152	2708	2434	3037	3084
CSB 8100	7246	6140	4650	2883	2609	3292	3234
CSB 11900	8056	6720	5230	3056	2782	3642	3404
CSB 14500	8626	7470	5850	3165	2891	3777	3526
CSB 16400	9070	7720	6100	3271	2997	3817	3505
CSB 19500	9420	8070	6450	3300	3026	4007	3679
CSB 21700	9773	8400	6780	3428	3154	4107	3835
CSB 23600	9993	8620	7000	3529	3255	4207	3870

Boiler type	Flue gas connection			Base frame					
	L 8 [mm]	B 4 [mm]	H 3 [mm]	L 4 [mm]	L 5 [mm]	L 6 [mm]	L 7 [mm]	L 9 [mm]	B 3 [mm]
CSB 650	194	299	2093	2640	210	1415	1015	100	740
CSB 1250	239	330	2180	3110	210	1865	1035	125	800
CSB 2000	205	363	2409	3390	210	2115	1065	150	920
CSB 3000	254	385	2504	3680	210	2365	1105	175	1000
CSB 4300	345	447	2421	4210	210	2865	1135	190	1030
CSB 5200	294	461	2513	4540	210	3165	1165	190	1100
CSB 6700	288	25	3084	4285	240	2405	1200	225	1700
CSB 8100	378	128	3234	4785	240	2905	1200	225	1800
CSB 11900	378	25	3404	5365	240	3485	1200	225	1900
CSB 14500	468	111	3526	5935	260	3915	1300	275	2000
CSB 16400	468	171	3505	6185	260	4165	1300	275	2100
CSB 19500	468	96	3679	6535	260	4515	1300	275	2200
CSB 21700	468	14	3835	6865	290	4785	1300	325	2250
CSB 23600	468	48	3870	7085	290	5005	1300	325	2300

- References and defaults to Requirements for the boiler installation room see technical information TI024.
- If dimensions are missing, the parts are not included in the scope of delivery.
- The scope of delivery is defined in the order confirmation.
- Dimensions with $\pm 1\%$ tolerance, operating / maximum weight specifications with $\pm 2\%$ tolerance.
- The transportation weight specification already contains the surcharges for usual sheet thickness tolerances; therefore, deviations downwards are possible.
- Dimension of the insertion openings:
 - opening height: add at least 100 mm to H1 or H2 (with / without assembled fittings)
 - opening width: add at least 200 mm to B1 or B2 (with / without assembled 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.

Subject to change

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- 1) Smallest transport dimensions once fittings, burner and terminal box have been removed.
- 2) Maximum weight incl. 100 % filled with water.
- 3) Dimension L1 is a standard gauge and depends on the make, type and rated capacity of burner.

When the boiler is larger than or equal to CSB 6700:

- The water-side inspection opening (D05.001) is constructed as a manhole in the base of the boiler at the front. The lateral inspection openings on the water side are omitted.
- The drainage valves (D12.001 and D12.002) are on the front part of the boiler and go to the side of the boiler on the left.
- The base frame is designed with HEB beams.

When the boiler is larger than or equal to CSB 21700:

The boiler has a second set of valves to control the conductivity (D16.102 and D16.105) which are mounted on the same boiler side as the valves D16.002 and D16.005.