

## Main dimensions

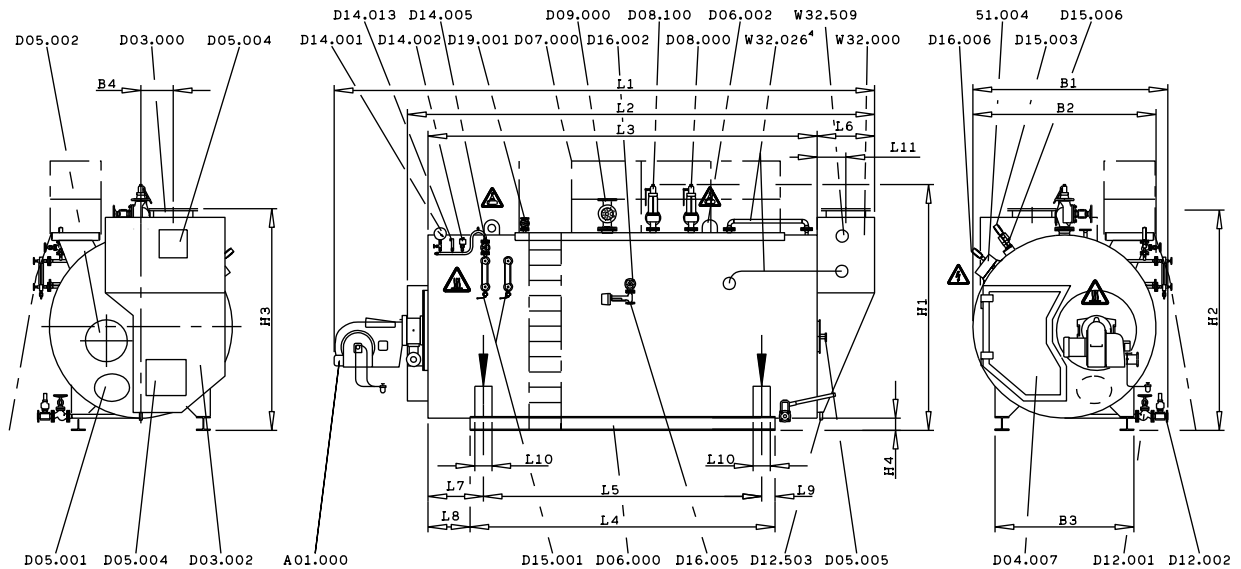


# UNIVERSAL steam boiler UL-S

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

DA009

Version 2 (09/12)



- |         |  |         |   |
|---------|--|---------|---|
| 51.004  | terminal box                             | D12.002 | Quick shut-off blow down valve              |
| A01.000 | Burner                                   | D12.503 | Connection for drainage flue gas condensate |
| D03.000 | Flue gas connection socket               | D14.001 | Pressure indicator (with test unit)         |
| D03.002 | Flue gas chamber                         | D14.002 | Pressure limiter                            |
| D04.007 | Reversing chamber door                   | D14.005 | Shut-off valve                              |
| D05.000 | Inspection opening steam-side            | D14.013 | Pressure transducer                         |
| D05.001 | Inspection opening water side            | D15.001 | Level indicator 1                           |
| D05.002 | Inspection opening flue gas side         |         | Level indicator 2 <b>option</b>             |
| D05.004 | Inspection opening flue gas side         | D15.003 | Level transducer                            |
| D05.005 | Sight hole                               | D15.006 | Level limiter                               |
| D06.000 | Base frame                               | D16.002 | Desalting shut-off valve <sup>5)</sup>      |
| D06.002 | Lifting lug                              | D16.005 | Desalting control valve                     |
| D07.000 | Operating platform <b>option</b>         | D16.006 | Conductivity transducer                     |
| D08.000 | Pressure safeguard valve 1               | D19.001 | vent shut-off valve <b>option</b>           |
| D08.100 | Pressure safeguard valve 2 <b>option</b> | W32.000 | flue gas heat exchanger                     |
| D09.000 | Steam shut-off valve                     | W32.026 | Connecting pipe                             |
| D12.001 | Drain shut-off valve                     |         |   |

### Explanation of symbols



Warning: dangerous electrical voltage



Lifting equipment to be fastened here, only



Warning: hot surface, e. g. uninsulated fitting

Subject to change



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UNIVERSAL steam boiler Type	Dimension(s)								Flue gas connection		
	L 1 <sup>2)</sup> [mm]	L 2 <sup>1)6)</sup> [mm]	L 3 [mm]	L 6 [mm]	B 1 [mm]	B 2 <sup>1)</sup> [mm]	H 1 <sup>3)</sup> [mm]	H 2 <sup>1)4)5)</sup> [mm]	L 11 [mm]	B 4 [mm]	H 3 <sup>4)</sup> [mm]
UL-S 1250	4850	3280	2620	500	1929	1652	2262	2150	233	170	2150
UL-S 2000	4653	3820	2970	640	2102	1825	2512	2232	303	270	2232
UL-S 2600	4972	4260	3270	780	2187	1910	2557	2210	373	290	2210
UL-S 3200	5927	4760	3770	780	2182	1905	2642	2210	373	290	2210
UL-S 4000	6615	5450	4600	640	2439	2165	2947	2575	303	318	2575
UL-S 5000	6615	5450	4600	640	2634	2360	3177	2765	303	273	2765
UL-S 6000	7255	6210	5100	780	2674	2400	3222	2975	373	119	2975
UL-S 7000	7255	6210	5100	780	2774	2500	3312	2958	373	153	2958
UL-S 8000	7845	6800	5550	920	2874	2600	3562	3178	443	85	3178
UL-S 10000	8369	6860	5550	980	3074	2800	3732	3065	503	240	2923
UL-S 12000	9007	7265	5800	1135	3224	2950	3867	3200	588	240	2990
UL-S 13000	9008	7446	5800	1136	3474	3200	4222	3465	588	380	3270
UL-S 14000	8674	7456	5800	1146	3474	3200	4222	3465	598	380	3270
UL-S 16000	9854	8286	6630	1146	3474	3200	4222	3465	598	380	3270
UL-S 17000	9920	8286	6630	1146	3669	3400	4467	3710	598	380	3415
UL-S 18000	9944	8286	6630	1146	3674	3400	4467	3685	598	380	3415
UL-S 22000	9610	8705	7050	1145	3874	3600	4747	3835	598	635	3420
UL-S 28000	9868	8955	7050	1395	4199	4000	5212	4302	778	600	3585

UNIVERSAL steam boiler Type	Base frame								wide flange beam IPB - HEB - DIN1025 [mm]
	L 4 [mm]	L 5 [mm]	L 7 [mm]	L 8 [mm]	L 9 [mm]	L 10 [mm]	B 3 [mm]	H 4 [mm]	
UL-S 1250	2270	1890	385	175	170	80	1060	200	-
UL-S 2000	2570	2150	425	215	210	80	1100	190	-
UL-S 2600	2120	1770	750	575	175	150	1360	135	-
UL-S 3200	2625	2175	798	573	225	150	1360	135	-
UL-S 4000	3750	3400	600	425	175	225	1655	190	180
UL-S 5000	3500	3150	775	600	175	225	1785	165	180
UL-S 6000	4000	3650	675	500	175	225	1820	160	180
UL-S 7000	4000	3650	675	500	175	225	1890	150	180
UL-S 8000	4450	3950	800	550	250	275	1950	170	200
UL-S 10000	4450	3950	800	550	250	275	2080	140	200
UL-S 12000	4450	3950	800	550	250	275	2180	125	200
UL-S 13000	4700	4200	775	525	250	275	2340	140	240
UL-S 14000	4700	4200	800	550	250	275	2340	140	240
UL-S 16000	5500	5000	800	550	250	275	2340	140	240
UL-S 17000	5500	5000	800	550	250	325	2365	185	260
UL-S 18000	5500	5000	800	550	250	325	2365	185	260
UL-S 22000	5800	5200	925	625	300	325	2500	160	260
UL-S 28000	5800	5200	925	625	300	325	2700	225	300

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- 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 boiler operating weight must be absorbed by the foundation in the area of the front and rear supports.
- Dimensions with  $\pm 1\%$  tolerance
- The dimensions are designed for standard insulation:
  - 150 mm thick on the boiler ends
  - 100 mm thick on the boiler shell
- The boiler types UL-S 1250 / 2000 / 2600 / 3200 have inspection openings on the right-hand side, instead of at the rear end.
- For the boiler types UL-S 1250 up to UL-S 3200, the drain shut-off valve and the quick shut-off blow-down valve are installed at the rear axis of the boiler, in order to ensure accessibility to the water-side inspection opening.
- The boiler typ UL-S 4000 has additional inspection openings on the right-hand bottom side.
- 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.
- For the boiler types UL-S 1250 and UL-S 3200 a spindle extension to the steam shut-off valve is optionally available.
- With boiler types up to UL-S 2000, items D15.003 and D15.006 are positioned in the crown of the boiler.
- <sup>1)</sup> Smallest transport dimensions once fittings, burner and terminal box have been removed (without cable ducting; with cable ducting + 75 mm on right).
- <sup>2)</sup> Dimension L1 is an standard gauge and depends on the make, type and rated capacity of burner.
- <sup>3)</sup> Dimension H1 may vary acc. to valve manufacturer.
- <sup>4)</sup> This dimension depends on the flue gas temperature (affects the number of tubes of the economizer aloft).
- <sup>5)</sup> The boiler type UL-S 28000 has basically 2 desalting nozzles.
- <sup>6)</sup> In case of superheater boiler UL-S-X, dimension L2 increases. See data sheet DA002 Fire Tube Dimensions and Burner Add-On Limits.