



UNIVERSAL steam boiler UL-S

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

DA009

Version 3 (06/21)

UNIVERSAL steam boiler Type	Dimension(s)								Flue gas connection		
	L 1 ²⁾ [mm]	L 2 ¹⁾⁶⁾ [mm]	L 3 [mm]	L 6 [mm]	B 1 [mm]	B 2 ¹⁾ [mm]	H 1 ³⁾ [mm]	H 2 ¹⁾⁴⁾⁵⁾ [mm]	L 11 [mm]	B 4 [mm]	H 3 ⁴⁾ [mm]
UL-S 1250	4204	3280	2620	500	1929	1652	2262	2158	232	170	2158
UL-S 2000	4753	3820	2970	640	2102	1825	2512	2245	302	270	2245
UL-S 2600	5091	4260	3270	780	2187	1910	2557	2223	372	290	2223
UL-S 3200	5591	4760	3770	780	2182	1905	2642	2223	372	290	2223
UL-S 4000	6609	5470	4600	660	2425	2165	2947	2593	302	318	2593
UL-S 5000	6826	5470	4600	660	2577	2360	3177	2783	302	273	2783
UL-S 6000	7494	6250	5100	820	2617	2400	3222	2993	372	119	2993
UL-S 7000	7717	6250	5100	820	2717	2500	3312	2976	372	153	2976
UL-S 8000	8282	6815	5550	935	2817	2600	3562	3196	442	65	3196
UL-S 10000	8524	6875	5550	995	3017	2800	3732	3065	502	240	2940
UL-S 12000	8949	7300	5800	1170	3167	2950	3867	3200	588	240	3008
UL-S 13000	8818	7510	5800	1170	3417	3200	4222	3465	588	380	2988
UL-S 14000	8990	7520	5800	1180	3417	3200	4222	3465	598	380	2988
UL-S 16000	9790	8320	6630	1180	3417	3200	4222	3465	598	380	2988
UL-S 17000	10022	8320	6630	1180	3612	3400	4467	3665	598	380	3133
UL-S 18000	10016	8320	6630	1180	3617	3400	4467	3685	598	380	3133
UL-S 22000	10383	8740	7050	1180	3817	3600	4747	3835	598	635	3138
UL-S 28000	10610	8965	7050	1405	4142	4000	5212	4302	778	600	3303

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 T1024.
- 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 T1024, chapter Pipe system)
- 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.
- ¹⁾ Smallest transport dimensions once fittings, burner and terminal box have been removed (without cable ducting; with cable ducting + 75 mm on right).
- 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⁾ This dimension depends on the flue gas temperature (affects the number of tubes of the economizer aloft).
- ⁵⁾ 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.
- ⁶⁾ In case of superheater boiler UL-S-X, dimension L2 increases. See data sheet DA002 Fire Tube Dimensions and Burner Add-On Limits.