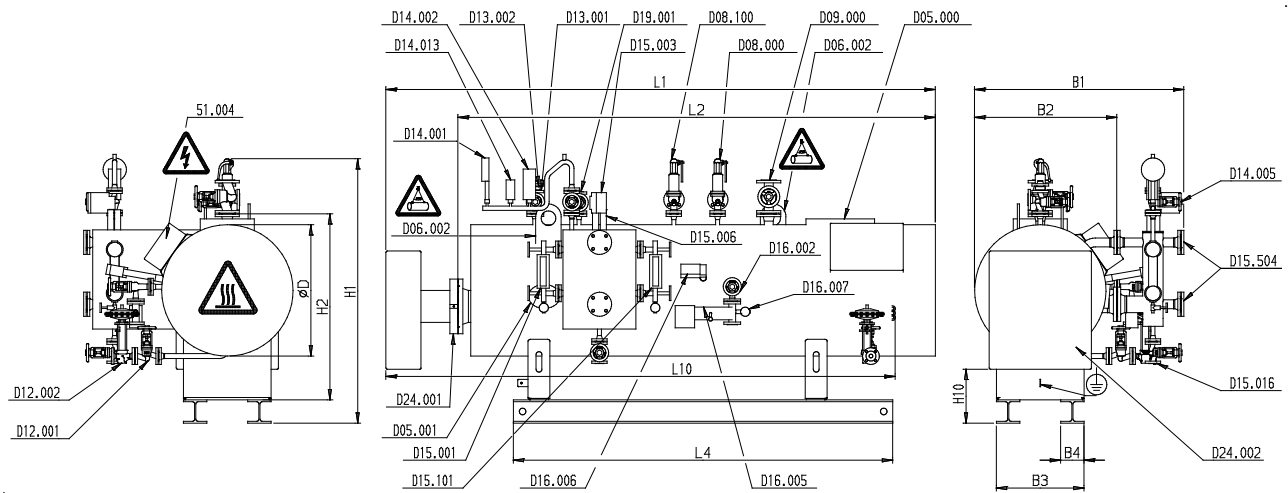


## Electric steam boiler ELSB

DA444

Version 7 (05/26)



(this drawing represents an ELSB 2 – for other capacities, the length to diameter ratio may differ)

|         |                                     |         |                                     |
|---------|-------------------------------------|---------|-------------------------------------|
| 51.004  | Terminal box                        | D14.013 | Pressure transducer                 |
| D05.000 | Inspection opening steam-side       | D15.001 | Level indicator 1                   |
| D05.001 | Inspection opening water-side       | D15.101 | Level indicator 2 option            |
| D06.002 | Lifting eye                         | D15.003 | Level transducer                    |
| D08.000 | Pressure safeguard valve 1          | D15.006 | Level limiter                       |
| D08.100 | Pressure safeguard valve 2 option   | D15.016 | Shut-off valve drain                |
| D09.000 | Steam shut-off valve                | D15.504 | Cleaning opening on the module      |
| D12.001 | Drain shut-off valve                | D16.002 | Desalting shut-off valve            |
| D12.002 | Quick shut-off blow down valve      | D16.005 | Desalting control valve             |
| D13.001 | Feed water shut-off valve           | D16.006 | Conductivity transducer             |
| D13.002 | Feed water non-return valve         | D16.007 | Shut-off valve (sampling)           |
| D14.001 | Pressure indicator (with test unit) | D19.001 | Ventilation shut-off valve option   |
| D14.002 | Pressure limiter                    | D24.001 | Heating bundle                      |
| D14.005 | Shut-off valve                      | D24.002 | Terminal box for the heating bundle |

## Explanation of symbols



Warning: dangerous electrical voltage



Lifting equipment to be fastened here only



Warning: hot surface, e.g. uninsulated fitting



Connection option for equipotential bonding

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| Boiler type | Max. capacity |      | Dimension(s)                 |                              |                           |                           |             |             |                           |
|-------------|---------------|------|------------------------------|------------------------------|---------------------------|---------------------------|-------------|-------------|---------------------------|
|             | [kg/h]        | [kW] | L 1 <sup>4) 5)</sup><br>[mm] | L 2 <sup>1) 4)</sup><br>[mm] | B 1 <sup>2)</sup><br>[mm] | B 2 <sup>1)</sup><br>[mm] | B 3<br>[mm] | H 1<br>[mm] | H 2 <sup>1)</sup><br>[mm] |
| ELSB 1      | 350           | 238  | 3932                         | 3340                         | 1490                      | 980                       | 600         | 1804        | 1341                      |
| ELSB 2      | 700           | 476  | 3992                         | 3350                         | 1490                      | 980                       | 600         | 1804        | 1341                      |
| ELSB 3      | 1.500         | 1021 | 4552                         | 3610                         | 1790                      | 1280                      | 790         | 2184        | 1652                      |
| ELSB 4      | 3.000         | 2041 | 4652                         | 3710                         | 2190                      | 1680                      | 1000        | 2676        | 2042                      |
| ELSB 5      | 5.000         | 3402 | 4932                         | 3980                         | 2390                      | 1880                      | 1200        | 2826        | 2163                      |
| ELSB 6      | 7.500         | 5105 | 5242                         | 4290                         | 2690                      | 2180                      | 1500        | 3261        | 2453                      |

| Boiler type | Heating bundle<br>L 10 <sup>3) 5)</sup> | Base frame<br>L 4 | H10  | Outer diameter<br>D | Boiler body<br>(incl. equipment) | Weight<br>Heating bundle | Total weight<br>(full) |
|-------------|-----------------------------------------|-------------------|------|---------------------|----------------------------------|--------------------------|------------------------|
|             | [mm]                                    | [mm]              | [mm] | [mm]                | [kg]                             | [kg]                     |                        |
| ELSB 1      | 3050                                    | 2600              | 488  | 900                 | 1700                             | 140                      | 2740                   |
| ELSB 2      | 3640                                    | 2600              | 368  | 900                 | 1930                             | 350                      | 2960                   |
| ELSB 3      | 3940                                    | 2600              | 363  | 1200                | 3530                             | 845                      | 5750                   |
| ELSB 4      | 3940                                    | 2600              | 560  | 1600                | 4800                             | 1100                     | 9270                   |
| ELSB 5      | 3950                                    | 2700              | 520  | 1800                | 7230                             | 1720                     | 13410                  |
| ELSB 6      | 3950                                    | 2900              | 500  | 2100                | 9550                             | 2700                     | 19130                  |

- Equipment and complete dimensions in accordance with project-related technical data sheet.
- 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 fixed in the order confirmation.
- 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 shipping weight specification already includes surcharges for usual plate thickness tolerances, therefore deviations downwards are possible.
- Shown with insulation: 100 mm
- Dimensioning of the insertion opening:
  - Insertion height: surcharge of at least 100 mm on dimension H1 or dimension H2 (mounted / unmounted fittings)
  - Insertion width: add at least 200 mm to dimension B1 or dimension B2 (mounted / unmounted fittings)

<sup>1)</sup> Smallest transport dimensions when fittings, heating bundle and terminal box are dismantled.

<sup>2)</sup> For the boiler types ELSB 3 / 4 / 5 / 6 a spindle extension to the steam shut-off valve is optionally available.

<sup>3)</sup> The length of the heating bundle must be taken into account when setting up the boiler. There must be enough space to be able to pull off the heating bundle. (Guideline: Length of heating bundle + maneuvering safety).

<sup>4)</sup> Dimensions may be reduced for other pressure levels.

<sup>5)</sup> The measurement is a guideline and depends on the heating bundle supplier.