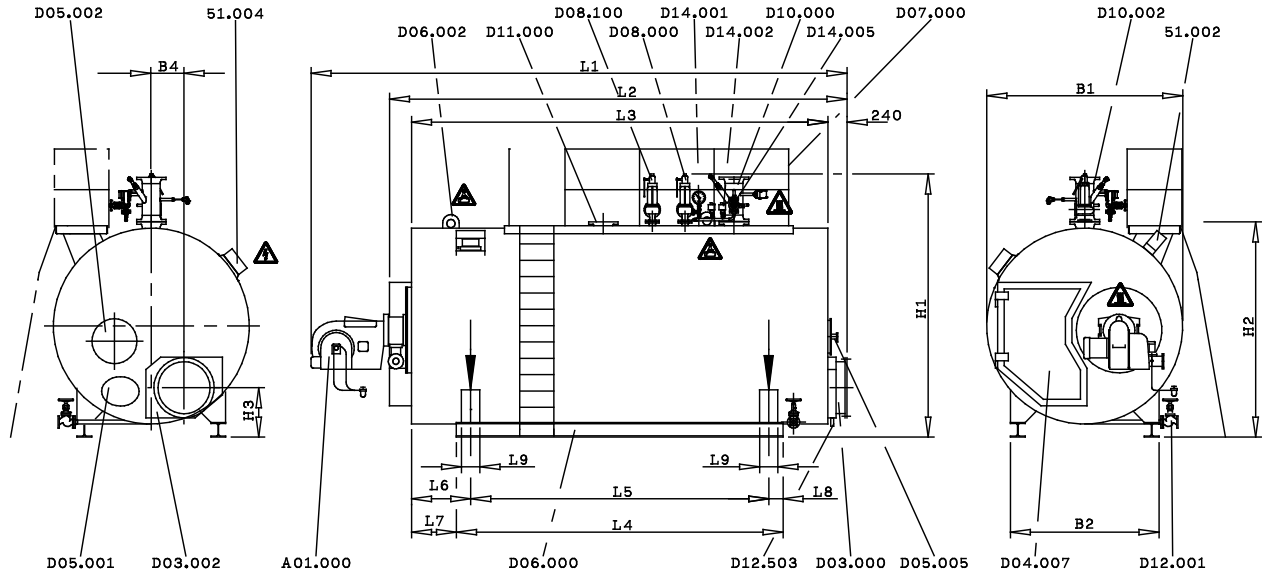


# UNIMAT Hot water boiler UT-H

in three-pass flame-tube smoke-tube technology

**DA050**  
Version 1 (07/12)



- |         |                                  |         |   |
|---------|----------------------------------|---------|---|
| 51.002  | Instrument box <b>Option</b>     | D07.000 | Operating platform <b>Option</b>            |
| 51.004  | Terminal box                     | D08.000 | Pressure safeguard valve 1                  |
| A01.000 | Burner                           | D08.100 | Pressure safeguard valve 2 <b>Option</b>    |
| D03.000 | Flue gas connection socket       | D10.000 | Supply flow                                 |
| D03.002 | Flue gas chamber                 | D10.002 | Supply flow adapter piece <b>Option</b>     |
| D04.007 | Reversing chamber door           | D11.000 | Return flow                                 |
| D05.001 | Inspection opening water side    | D12.001 | Drain shut-off valve                        |
| D05.002 | Inspection opening flue gas side | D12.503 | Connection for drainage flue gas condensate |
| D05.005 | Sight hole                       | D14.001 | Pressure indicator (test unit)              |
| D06.000 | Base frame                       | D14.002 | Pressure limiter                            |
| D06.002 | Transportation lugs              | D14.005 | Shut-off valve                              |

Explanation of symbols



Warning: dangerous electrical voltage



Lifting equipment to be fastened here, only



Warning: hot surface, e. g. uninsulated fitting

## Main dimensions



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| UNIMAT<br>Hot water boiler<br>Type | Dimensions                |                           |             |                           |                           |                           | Flue gas<br>connection |             |
|------------------------------------|---------------------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|------------------------|-------------|
|                                    | L 1 <sup>2)</sup><br>[mm] | L 2 <sup>1)</sup><br>[mm] | L 3<br>[mm] | B 1 <sup>1)</sup><br>[mm] | H 1 <sup>3)</sup><br>[mm] | H 2 <sup>1)</sup><br>[mm] | B 3<br>[mm]            | H 3<br>[mm] |
| UT-H 820                           | 3897                      | 3020                      | 2620        | 1604                      | 2262                      | 1934                      | 165                    | 550         |
| UT-H 1310                          | 4224                      | 3420                      | 2970        | 1806                      | 2504                      | 2085                      | 166                    | 600         |
| UT-H 1700                          | 4600                      | 3720                      | 3270        | 1900                      | 2638                      | 2185                      | 290                    | 550         |
| UT-H 2100                          | 5397                      | 4250                      | 3800        | 1900                      | 2638                      | 2181                      | 190                    | 550         |
| UT-H 2620                          | 6048                      | 5050                      | 4600        | 2150                      | 3002                      | 2510                      | 358                    | 623         |
| UT-H 3270                          | 6088                      | 5170                      | 4600        | 2350                      | 3177                      | 2695                      | 373                    | 688         |
| UT-H 3950                          | 6954                      | 5670                      | 5100        | 2400                      | 3217                      | 2740                      | 345                    | 660         |
| UT-H 4600                          | 6965                      | 5670                      | 5100        | 2500                      | 3437                      | 2825                      | 400                    | 645         |
| UT-H 5250                          | 7415                      | 6120                      | 5550        | 2600                      | 3562                      | 2875                      | 425                    | 690         |
| UT-H 6550                          | 7851                      | 6120                      | 5550        | 2800                      | 3732                      | 3065                      | 380                    | 720         |
| UT-H 7850                          | 8101                      | 6370                      | 5800        | 2950                      | 3957                      | 3200                      | 415                    | 720         |
| UT-H 8500                          | 8101                      | 6550                      | 5800        | 3200                      | 4222                      | 3465                      | 445                    | 750         |
| UT-H 9150                          | 8101                      | 6550                      | 5800        | 3200                      | 4222                      | 3465                      | 445                    | 750         |
| UT-H 10500                         | 8931                      | 7380                      | 6630        | 3200                      | 4327                      | 3465                      | 445                    | 750         |
| UT-H 11150                         | 8931                      | 7380                      | 6630        | 3400                      | 4592                      | 3710                      | 470                    | 865         |
| UT-H 11800                         | 6588                      | 7380                      | 6630        | 3400                      | 4592                      | 3685                      | 470                    | 865         |
| UT-H 14400                         | 7340                      | 7800                      | 7050        | 3600                      | 4747                      | 3835                      | 500                    | 845         |
| UT-H 18300                         | 8575                      | 7800                      | 7050        | 4000                      | 5397                      | 4302                      | 400                    | 950         |

| UNIMAT<br>Hot water boiler<br>Type | Base frame  |             |             |             |             |             |             | Universal columnne<br>IPB - HEB - DIN 1025<br>[mm] |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
|                                    | L 4<br>[mm] | L 5<br>[mm] | L 6<br>[mm] | L 7<br>[mm] | L 8<br>[mm] | L 9<br>[mm] | B 2<br>[mm] |  |
| UT-H 820                           | 2270        | 1890        | 365         | 175         | 190         | 80          | 1060        | -  |
| UT-H 1310                          | 2570        | 2150        | 425         | 215         | 210         | 80          | 1100        | -  |
| UT-H 1700                          | 2120        | 1830        | 840         | 695         | 145         | 150         | 1360        | -  |
| UT-H 2100                          | 2750        | 2300        | 765         | 540         | 225         | 150         | 1360        | -  |
| UT-H 2620                          | 3750        | 3400        | 600         | 425         | 175         | 225         | 1655        | 180  |
| UT-H 3270                          | 3500        | 3150        | 775         | 600         | 175         | 225         | 1785        | 180  |
| UT-H 3950                          | 4000        | 3650        | 675         | 500         | 175         | 225         | 1820        | 180  |
| UT-H 4600                          | 4000        | 3650        | 675         | 500         | 175         | 225         | 1890        | 180  |
| UT-H 5250                          | 4450        | 3950        | 800         | 550         | 250         | 225         | 1950        | 200  |
| UT-H 6550                          | 4450        | 3950        | 800         | 550         | 250         | 225         | 2080        | 200  |
| UT-H 7850                          | 4450        | 3950        | 800         | 550         | 250         | 225         | 2180        | 200  |
| UT-H 8500                          | 4700        | 4200        | 775         | 525         | 250         | 225         | 2340        | 240  |
| UT-H 9150                          | 4700        | 4200        | 800         | 550         | 250         | 225         | 2340        | 240  |
| UT-H 10500                         | 5500        | 5000        | 800         | 550         | 250         | 225         | 2340        | 240  |
| UT-H 11150                         | 5500        | 5000        | 800         | 550         | 250         | 225         | 2365        | 260  |
| UT-H 11800                         | 5500        | 5000        | 800         | 550         | 250         | 225         | 2365        | 260  |
| UT-H 14400                         | 5800        | 5200        | 925         | 625         | 300         | 225         | 2500        | 260  |
| UT-H 18300                         | 5800        | 5200        | 925         | 625         | 300         | 225         | 2700        | 300  |

Subject to change



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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
- Dimension of the insertion openings
  - opening height: Add at least 100mm to H1 or H2 (with / without assembled fittings)
  - opening width: Add at least 200mm to B1
- 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.
- The boiler types UT-H 820 / 1310 have inspection openings on the right-hand bottom side, instead of at the rear and.
- The boiler types UT-H 1700 / 2100 / 2620 have additional inspection openings on the right-hand bottom side.
- <sup>1)</sup> Smallest transport dimensions with 100 mm insulation thickness if fittings, pump bracket and burner are 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> The dimension H1 may vary depending on the valve manufacturer.