

## SPARE PARTS LIST M2 D4L/B4L



This spare parts list is valid for the following engine-independent water heaters:

**Air heaters for diesel fuel**

Airtronic M2, D4L, 12 V

**Order No.**

25.2720.05.0000

**Order No. incl. EasyStart Pro**

25.2753.05.0000

Airtronic M2, D4L, 24 V

25.2729.05.0000

25.2754.05.0000

**Air heaters for petrol****Order No.**

Airtronic M2, B4L, 12 V

20.1987.05.0000

25.2755.05.0000

25.2756.05.0000

25.2757.05.0000

**Order No. incl. EasyStart Pro**

20.2032.05.0000

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## 1 Information

### 1.1 General information

This document is to be used when ordering spare parts for the heaters listed on the title page, to the exclusion of all liability claims.

Depending on the version or revision status of the heater, differences may occur compared to this documentation. Please check this before ordering the spare parts and take any possible differences into account.

### 1.2 Reference Documents

#### Technical description

Describes the function and proper installation and contains all information necessary for safe operation of the heater.

#### Repair instructions

Contains the necessary information for troubleshooting and for repair of the heater.

#### Installation recommendation

Describes vehicle-specific installation situations.

#### Installation Instructions Plus

Supplementary information on heaters and control units.

### 1.3 Determining the quantity required for the order

The information in the “quantity per unit” and “quantity per SU” (sales unit) columns is used to determine the quantity of a spare part required and the SU (sales units) to be ordered.

#### Quantity per unit

The number in this column indicates how many of the spare part concerned are installed in the whole unit.

#### Quantity per SU

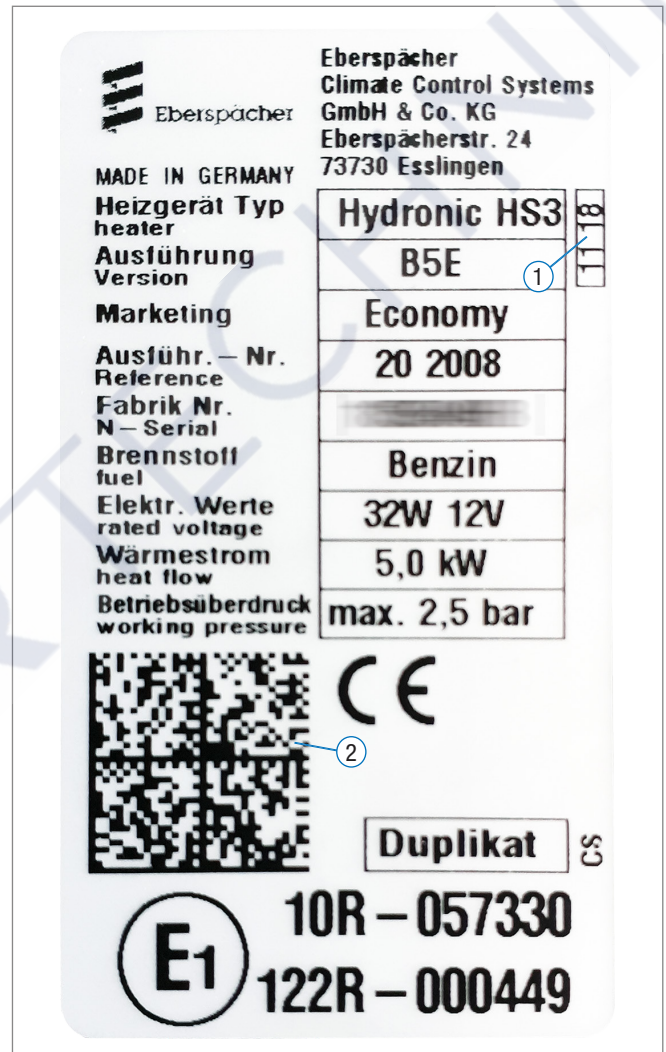
The number in this column indicates how many of the spare part concerned are contained in one SU (sales unit).

#### Order No. (SU)

The order number refers to an SU.

### 1.4 Using the nameplate to determine the production date

To place the spare parts order correctly, in some cases it is necessary to determine the production date of the heater before ordering the spare part. There are two options for doing this on the heater's nameplate.



#### 1 Determination of the calendar week

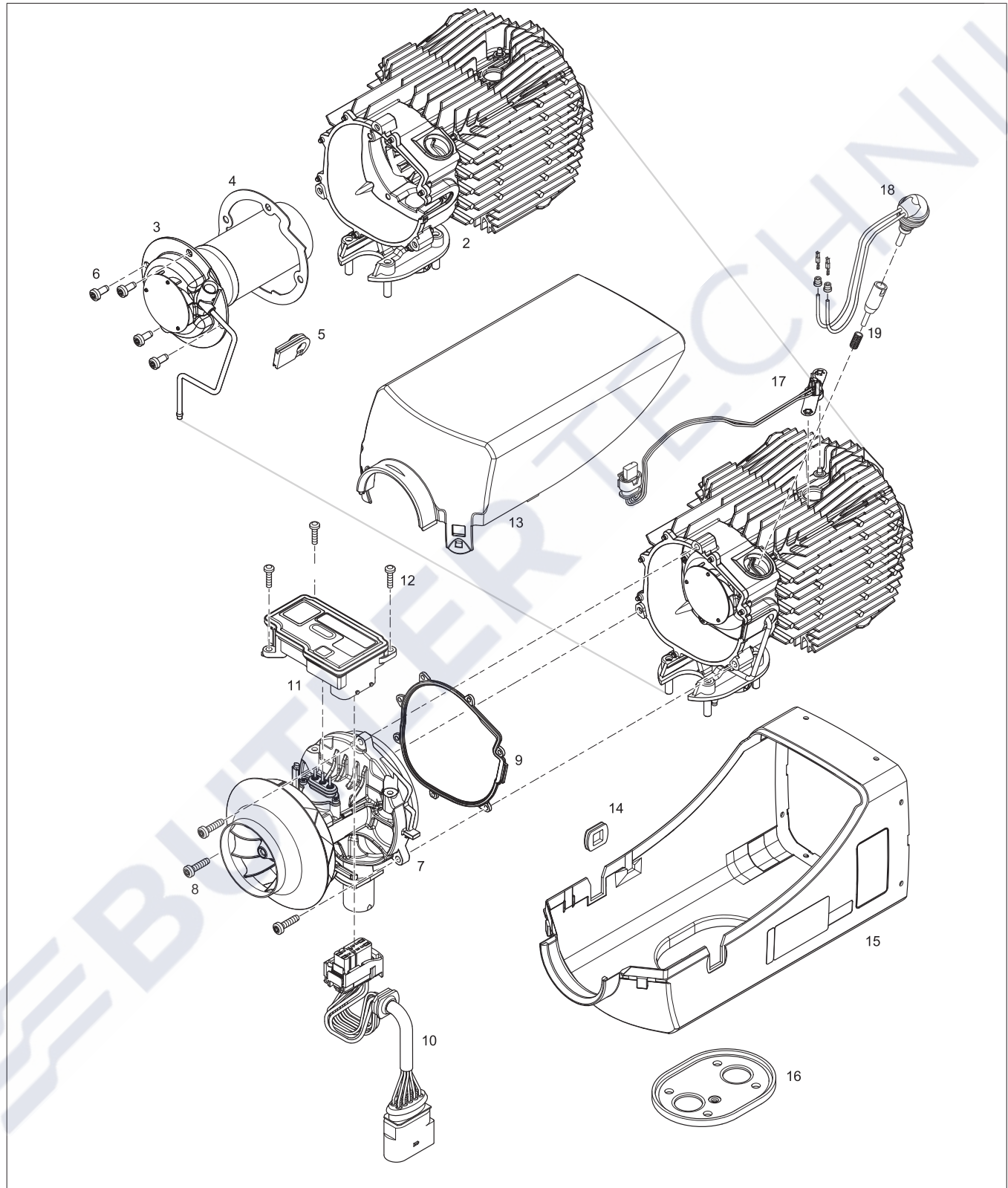
- Representation of the production calendar week as a four-digit number (e.g. “1118” = calendar week 11 in year 2018)

#### 2 Determining the date

- Scan the QR code with a QR code reader.
- The production date is given by the 8-digit representation of the date in the third from last position of the read out text (e.g. “14032018” = 14 March 2018)

## 2 Heater

### 2.1 Spare parts diagram



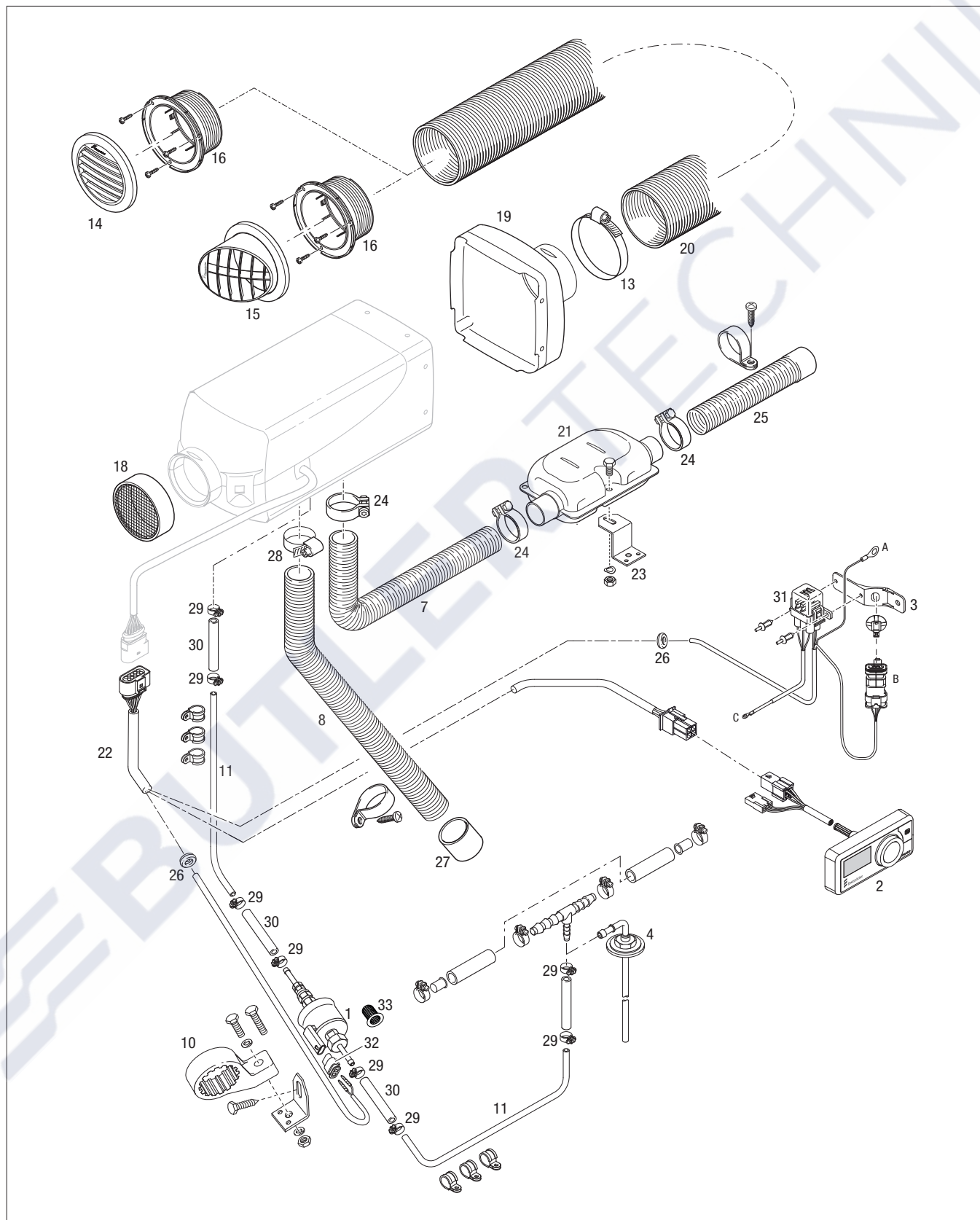
## 2.2 Spare parts list

| Item No. | Quantity<br>per unit | Quantity<br>per SU | Designation                                                                                              | Order No. (SU)                                                                                                                    | For unit                 |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
|----------|----------------------|--------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
|          |                      |                    |                                                                                                          |                                                                                                                                   | B 4 L, 12 V – 20.1987.05 | B 4 L, 12 V – 20.2032.05 | D 2 L, 12 V – 25.2721.05 | D 2 L, 12 V – 25.2753.05 | D 2 L, 24 V – 25.2726.05 | D 2 L, 24 V – 25.2754.05 | D 4 L, 12 V – 25.2720.05 | D 4 L, 12 V – 25.2755.05 | D 4 L, 24 V – 25.2729.05 | D 4 L, 24 V – 25.2756.05 | D 4 R, 12 V – 25.2746.05 | D 4 R, 12 V – 25.2757.05 | E 2 L, 12 V – 25.3015.05 |  |
| 2        | 1                    | 1                  | Heat exchanger incl. seal                                                                                | 25.2720.99.0601<br>25.2721.99.0601<br>20.1987.99.0601                                                                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 3        | 1                    | 1                  | Combustion chamber incl. screws, <a href="#">Item 6</a>                                                  | 25.2720.99.1000<br>25.2721.99.1000<br>20.1987.99.1000                                                                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 4        | 1                    | 1                  | Combustion chamber seal                                                                                  | 25.2113.06.0001<br>25.2069.06.0001                                                                                                |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 5        | 1                    | 1                  | Grommet                                                                                                  | 25.2720.06.0002                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 6        | 4                    | 100                | Cheese-head screw M 5 x 12 Torx                                                                          | <a href="#">Item 3</a>                                                                                                            |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 7        | 1                    | 1                  | Blower 12 V incl. screws, <a href="#">Item 8</a><br><br>Blower 24 V incl. screws, <a href="#">Item 8</a> | 25.2720.99.1500<br>25.2721.99.1500<br>25.2746.99.1500<br>25.2726.99.1500<br>25.2729.99.1500                                       |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 8        | 3                    | 100                | Cheese-head screw M 4 x 10 Torx                                                                          | <a href="#">Item 7</a>                                                                                                            |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 9        | 1                    | 1                  | Seal, blower                                                                                             | 25.2720.01.0003<br>25.2721.01.0003                                                                                                |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 10       | 1                    | 1                  | Cable harness heater                                                                                     | 25.2720.99.0103                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 11       | 1<br>1               | 1<br>1             | Control box 12 V<br><br>Control box 24 V                                                                 | 20.1987.99.5000<br>25.2721.99.5000<br>25.2720.99.5000<br>25.2746.99.5000<br>25.3015.99.5000<br>25.2726.99.5000<br>25.2729.99.5000 |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 12       | 3                    | 100                | Cheese-head screw M 4 x 16 Torx                                                                          | 25.2281.01.0031                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 13       | 1                    | 1                  | Jacket shell, top                                                                                        | 25.2113.01.0001<br>25.2069.01.0600                                                                                                |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 14       | 1                    | 1                  | Grommet                                                                                                  | 25.2069.01.0001                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 15       | 1                    | 1                  | Jacket shell, bottom                                                                                     | 25.2113.01.0100<br>25.2069.01.0100                                                                                                |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 16       | 1                    | 1                  | Seal, flange                                                                                             | 25.2069.01.0002                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 17       | 1                    | 1                  | Sensor, flame monitoring, overheating<br>incl. connector                                                 | 25.2720.99.4000                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 18       | 1                    | 1                  | Glow plug with socket spanner, 12 V<br>Glow plug with socket spanner, 24 V                               | 25.2720.99.0106<br>25.2729.99.0106                                                                                                |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
| 19       | 1                    | 1                  | Lining plug nozzle with tool                                                                             | 25.2069.10.0102                                                                                                                   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |



### 3 Electrics, fuel, hot air and combustion air system

#### 3.1 Spare parts diagram



### 3.2 Spare parts list

|          |                   |                 |                                                                  |                 | For unit                 |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|----------|-------------------|-----------------|------------------------------------------------------------------|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Item No. | Quantity per unit | Quantity per SU | Designation                                                      | Order No. (SU)  | B 4 L, 12 V – 20.1987.05 | B 4 L, 12 V – 20.2032.05 | D 2 L, 12 V – 25.2721.05 | D 2 L, 12 V – 25.2753.05 | D 2 L, 24 V – 25.2726.05 | D 2 L, 24 V – 25.2754.05 | D 4 L, 12 V – 25.2720.05 | D 4 L, 12 V – 25.2755.05 | D 4 L, 24 V – 25.2729.05 | D 4 L, 24 V – 25.2756.05 | D 4 R, 12 V – 25.2746.05 | D 4 R, 12 V – 25.2757.05 | E 2 L, 12 V – 25.3015.05 |
| 1        | 1                 | 1               | Fuel metering pump, 12 V                                         | 22.4552.03.0000 | •                        | •                        | •                        | •                        |                          |                          | •                        | •                        |                          |                          | •                        | •                        | •                        |
| not ill. |                   |                 | Fuel metering pump, 24 V                                         | 22.4553.01.0000 |                          |                          |                          |                          | •                        | •                        |                          |                          | •                        | •                        |                          |                          |                          |
| 2        | 1                 | 1               | Control unit EasyStart Pro (optional)                            | 22.1000.35.2200 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 3        | 1                 | 1               | Bracket diagnostic connector, combi-clip                         | 22.1000.51.4900 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 4        | 1                 | 1               | Fuel remover                                                     | 25.1226.89.5000 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 7        | 1                 | 1               | Exhaust pipe, flexible<br>di = 24 mm, L = 900 mm                 | 360.61.274      | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 8        | 1                 | 1               | Flexible pipe Ø 25 mm                                            | 360.00.006      | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 10       | 1                 | 1               | Bracket fuel metering pump                                       | 22.1000.50.0300 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 11       | 1                 | 8 m             | Pipe 4 x 1 mm                                                    | 890.31.054      | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 13       | 1                 | 1               | Hose clip 50 – 70 mm                                             | 10.2067.05.0070 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
|          |                   |                 | 70 – 90 mm                                                       | 10.2067.07.0090 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 14       | 1                 | 1               | Air outlet, straight, rotatable Ø 60 mm                          | 22.1000.01.0044 |                          |                          | •                        | •                        | •                        | •                        |                          |                          |                          |                          |                          |                          | •                        |
|          |                   |                 | Ø 75 mm, Ø 90 mm                                                 | 22.1000.01.0052 | •                        | •                        |                          |                          |                          |                          | •                        | •                        | •                        | •                        | •                        | •                        |                          |
| 15       | 1                 | 1               | Air outlet, angled, rotatable Ø 60 mm                            | 22.1000.01.0056 |                          |                          | •                        | •                        | •                        | •                        |                          |                          |                          |                          |                          |                          | •                        |
|          |                   |                 | Ø 75 mm, Ø 90 mm                                                 | 22.1000.01.0060 | •                        | •                        |                          |                          |                          |                          | •                        | •                        | •                        | •                        | •                        | •                        |                          |
| 16       | 1                 | 1               | Connection socket Ø 60 mm                                        | 22.1000.01.0035 |                          |                          | •                        | •                        | •                        | •                        |                          |                          |                          |                          |                          |                          | •                        |
|          |                   |                 | Ø 90 mm                                                          | 22.1000.01.0037 | •                        | •                        |                          |                          |                          |                          | •                        | •                        | •                        | •                        | •                        | •                        |                          |
|          |                   |                 | Ø 75 mm                                                          | 22.1000.01.0036 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 18       | 1                 | 1               | Grille Ø 60 mm                                                   | 25.1688.80.0600 |                          |                          | •                        | •                        | •                        | •                        |                          |                          |                          |                          |                          |                          | •                        |
|          |                   |                 | Ø 75 mm                                                          | 25.1552.05.0100 | •                        | •                        |                          |                          |                          |                          | •                        | •                        | •                        | •                        | •                        | •                        |                          |
| 19       | 1                 | 1               | Hood Ø 60 mm                                                     | 22.1000.01.0016 |                          |                          | •                        | •                        | •                        | •                        |                          |                          |                          |                          |                          |                          | •                        |
|          |                   |                 | Ø 90 mm                                                          | 22.1000.01.0019 | •                        | •                        |                          |                          |                          |                          | •                        | •                        | •                        | •                        | •                        | •                        |                          |
|          |                   |                 | Ø 75 mm                                                          | 22.1000.01.0017 |                          |                          | •                        | •                        | •                        | •                        |                          |                          |                          |                          |                          |                          | •                        |
|          |                   |                 | Ø 75 mm                                                          | 22.1000.01.0018 | •                        | •                        |                          |                          |                          |                          | •                        | •                        | •                        | •                        | •                        | •                        |                          |
| 20       | 1                 | 1               | Flexible pipe Ø 60 mm                                            | 10.2114.31.0000 |                          |                          | •                        | •                        | •                        | •                        |                          |                          |                          |                          |                          |                          | •                        |
|          |                   |                 | Ø 90 mm                                                          | 10.2114.37.0000 | •                        | •                        |                          |                          |                          |                          | •                        | •                        | •                        | •                        | •                        | •                        |                          |
|          |                   |                 | Ø 75 mm                                                          | 10.2114.34.0000 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 21       | 1                 | 1               | Exhaust silencer                                                 | 25.1864.81.0100 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 22       | 1                 | 1               | Cable harness heater                                             | 25.2720.80.1100 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 23       | 1                 | 1               | Bracket exhaust silencer, Z shape                                | 20.1533.88.0007 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| not ill. |                   |                 | Bracket exhaust silencer, L shape                                | 20.1348.03.0004 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 24       | 3                 | 10              | Pipe clip                                                        | 22.1000.51.4400 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 25       | 1                 | 1               | Exhaust pipe with end sleeve, flexible<br>di = 24 mm, L = 300 mm | 20.1731.80.0400 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 26       | 2                 | 100             | Grommet                                                          | 20.1280.09.0103 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |
| 27       | 1                 | 1               | End sleeve, combustion air                                       | 25.1729.89.0002 | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |

| Item No. | Quantity<br>per unit | Quantity<br>per SU | Designation                         | Order No. (SU) | For unit                 |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |  |  |
|----------|----------------------|--------------------|-------------------------------------|----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--|--|
|          |                      |                    |                                     |                | B 4 L, 12 V – 20.1987.05 | B 4 L, 12 V – 20.2032.05 | D 2 L, 12 V – 25.2721.05 | D 2 L, 12 V – 25.2753.05 | D 2 L, 24 V – 25.2726.05 | D 2 L, 24 V – 25.2754.05 | D 4 L, 12 V – 25.2720.05 | D 4 L, 12 V – 25.2755.05 | D 4 L, 24 V – 25.2729.05 | D 4 L, 24 V – 25.2756.05 | D 4 R, 12 V – 25.2746.05 | D 4 R, 12 V – 25.2757.05 | E 2 L, 12 V – 25.3015.05 |  |  |  |
| 28       | 1                    | 10                 | Hose clip                           | Ø 20 – 32 mm   | 10.2067.02.0032          | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |  |  |  |
| 29       | 8                    | 100                | Hose clip                           | Ø 9 mm         | 10.2068.00.9098          | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |  |  |  |
| 30       | 1                    | 1                  | Hose                                | i = 3.5 / 3 mm | 360.75.300               | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |  |  |  |
| 31       | 1                    | 1                  | Fuse bracket, complete set          |                | 22.1000.31.0600          | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |  |  |  |
| 32       | 1                    | 1                  | Connector for metering pump         |                | 206.31.294               | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |  |  |  |
| 33       | 1                    | 1                  | Pot-type strainer for metering pump |                | 20.1312.00.0006          | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        | •                        |  |  |  |



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