

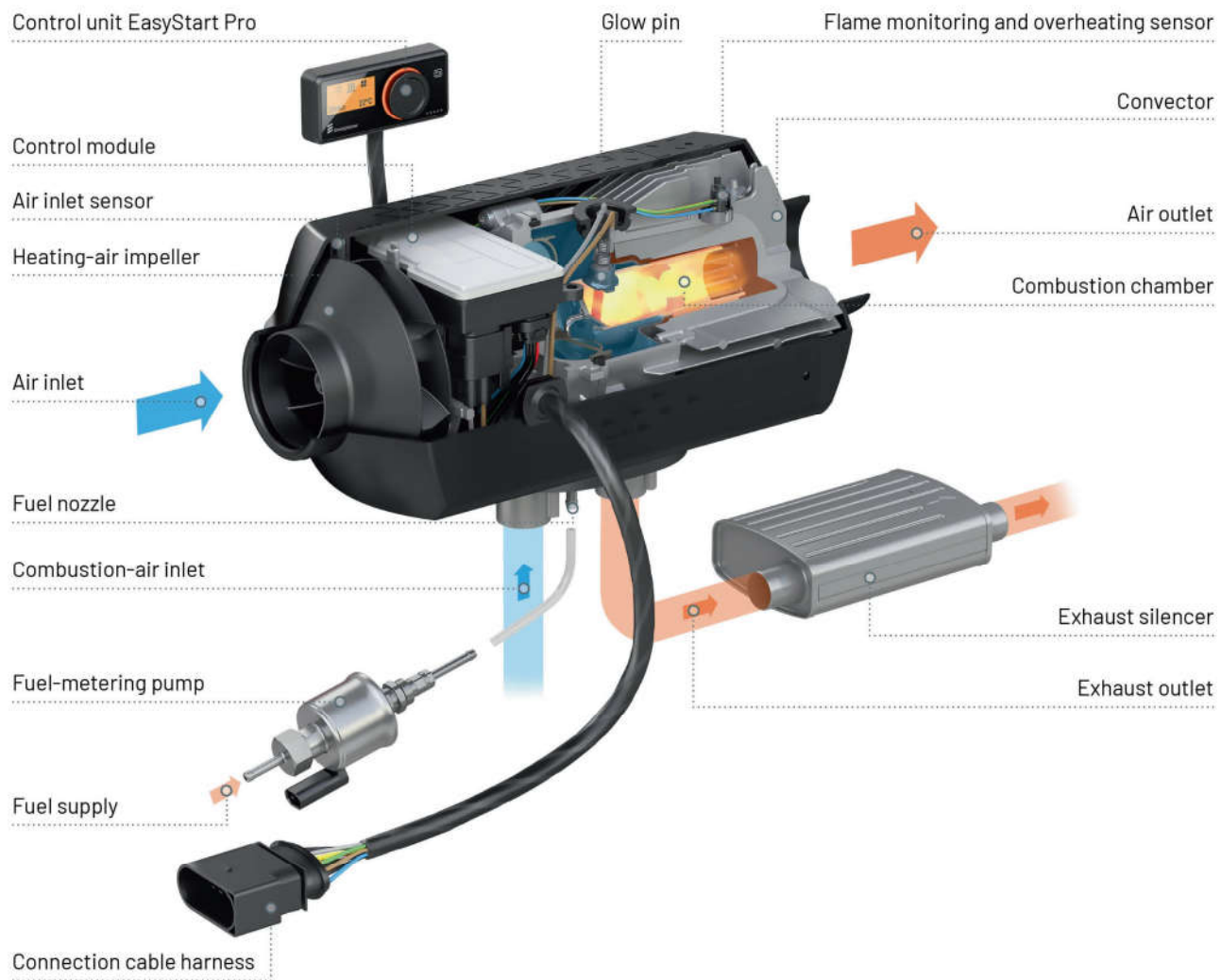
## CLIMATE CONTROL SOLUTIONS FROM EBERSPÄECHER



SEPTEMBER 2024, Rev 1

# PRODUCT INFORMATION

## AIRTRONIC: TECHNOLOGY



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### AIRTRONIC FUNCTIONS:

- Combustion air is conveyed to the combustion chamber by the fan motor and impeller.
- Fuel is drawn from the vehicle's tank.
- Fuel is delivered to the combustion chamber by the metering pump.
- The glow element (filament glow plug from 5 kW) vaporizes this fuel as it enters the combustion chamber and creates a combustible fuel-air mix with the combustion air.
- The resulting flame formation switches off the glow element (or filament glow plug), transfers the heat to the heating air via the convector, and diverts exhaust gas via the exhaust silencer.
- The fan motor and heating-air impeller convey cool air to the heater, where it is warmed by the convector and then blown into the vehicle interior.

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## QUICK REFERENCE GUIDE

### Airtronic S3 (2.2 kW):

Heating comfort for a variety of applications.



Vans, small motor homes, small buses



Truck cabs with sleeping cabins



Construction and agricultural machines without engine-dependent heating



Forklifts and other plant machinery



Electric vehicles

### Airtronic M3 (4 kW):

The high-performance, compact air heater for mid-range requirements.



Large trucks – cabs with sleeping cabins



Vans, small buses



Large agricultural and construction machines



Motor homes



Minivans, and vehicles used for conferences and consultancy

### Airtronic L3 (6 kW):



Vans, workshop vehicles, personnel carriers, small buses (fast heating despite door opening frequently)



Ambulances and emergency medics' vehicles (special heating and temperature requirements)



Freight compartment and freight goods heating plus frost protection and dew point prevention

### Airtronic XL3 (8 kW):

Continuously variable, pre-selectable heating performance regulation.



Large freight compartments, containers



Personnel carriers



Coaches and city buses

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## PRODUCT INFORMATION

The heating output information provided refers to heating the interior of a cold vehicle to around 68 °F or 20 °C in cold outside temperatures. If the heater only needs to maintain the existing temperature of the interior, less heating power is required. The heating outputs are only guide values. The exact heating requirement also depends on other environmental conditions (e.g. wind, materials, cabin walls, heating-air ducting, etc.).

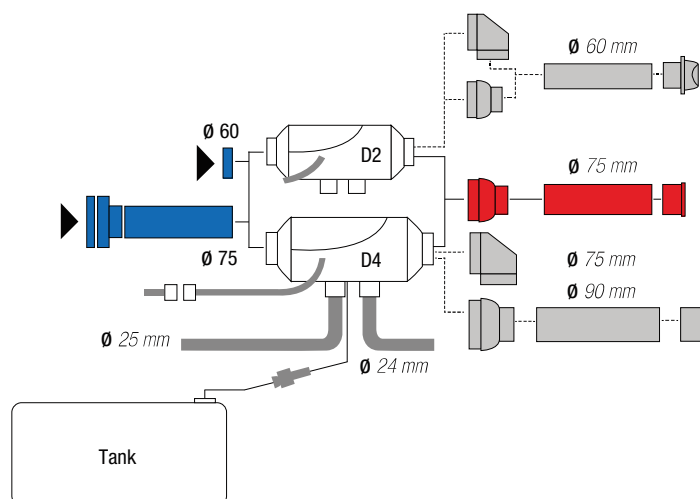
### GUIDE VALUES FOR REQUIRED HEATING OUTPUT

| Example          | Volume of interior     | Outside temperature |                |        |
|------------------|------------------------|---------------------|----------------|--------|
|                  |                        | < -15 °C            | -15 °C to 0 °C | > 0 °C |
| Truck cabin      | < 8 m <sup>3</sup>     | 4 kW                | 3 kW (2 kW)*   | 2 kW   |
| Small bus        | 8 – 12 m <sup>3</sup>  | 5 kW (4 kW)*        | 4 kW (3 kW)*   | 2 kW   |
| Motor home / van | 12 – 20 m <sup>3</sup> | 8 kW                | 6 kW (5 kW)*   | 4 kW   |

\* Values (referring to heat-insulated cabins / vehicles)

### Selecting the device and the respective advantages:

- Airtronic S3 Commercial: the smallest air heater on the market, advantageous in cramped installation spaces. Air ducting with 60 mm or 75 mm air hoses possible. Performance 2,200 Watt (Gasoline 2,000 Watt).
- Airtronic M3 Commercial: output 4,000 W, air ducting with 75 mm or 90 mm air hoses possible, for vans and suitably sized trucks; offers the advantage of high power within a reasonable installation space, wide range of applications from 1,050 W (gasoline 1,300 W) to 4,000 W.
- Airtronic M3 Recreational: for applications requiring a higher air throughput, e.g. for long, complex heating-air ducting in campers/motor homes, boats or ambulances. Performance 4,000 Watt



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# PRODUCT INFORMATION

## EBERSPÄCHER AIRTRONIC



|                                            |             |                                                 |                        |                        |
|--------------------------------------------|-------------|-------------------------------------------------|------------------------|------------------------|
| Heater                                     |             | Airtronic S3 Commercial                         |                        |                        |
| Product Package                            |             | Heater, metering pump                           |                        |                        |
| Techn. designation                         |             | Airtronic S3 D2L - 12V                          | Airtronic S3 D2L - 24V | Airtronic S3 B2L - 12V |
| Order no. for heater                       |             | 25.2953.05.0000                                 | 25.2954.05.0000        | 20.2029.05.0000        |
| Fuel - commercially available (DIN EN 590) | Diesel      | Diesel                                          | Gasoline               |                        |
| Voltage                                    | V           | 12                                              | 24                     | 12                     |
| Heating medium                             |             | Air                                             |                        |                        |
| Heat settings - Controls                   |             | Off / minimum / maximum - Stepless              |                        |                        |
| Heating Perfomance                         | W           | 850 - 2,200                                     |                        | 1,000 - 2,000          |
| Heating Perfomance                         | BTU/hr      | 2900 - 7510                                     |                        | 3400 - 6820            |
| Fuel consumption                           | l/h         | - / 0.1 / 0.27                                  |                        | - / 0.14 / 0.26        |
| Fuel consumption                           | gal/hr      | - / 0.03 / 0.07                                 |                        | - / 0.04 / 0.07        |
| Elec. power consumption, operation         | W           | 4 / 6 / 27                                      | 7 / 9 / 28             | 4 / 11 / 26            |
| Elec. power consumption, start             | W           | ≤ 80                                            | ≤ 90                   | ≤ 80                   |
| Air throughput w/o backpressure            | kg/h        | 20/50/105                                       |                        | 20/65/100              |
| Lower voltage limit                        | V           | 10.5                                            | 21                     | 10.5                   |
| Upper voltage limit                        | V           | 16                                              | 32                     | 16                     |
| Interference suppression                   |             | Interference suppression class 5 (DIN EN 55025) |                        |                        |
| Dimensions L x W x H                       | mm          | 310 x 115 x 122                                 |                        |                        |
| Weight                                     | Kg or (lbs) | Approx. 2.5                                     |                        |                        |
| Ventilation mode                           |             | Available                                       |                        |                        |

## EBERSPÄCHER AIRTRONIC



|                                            |                                                 |                     |                     |
|--------------------------------------------|-------------------------------------------------|---------------------|---------------------|
| Heater                                     | Airtronic M3 Commercial                         |                     |                     |
| Product Package                            | Heater, metering pump                           |                     |                     |
| Techn. designation                         | Airtronic D4L - 12V                             | Airtronic D4L - 24V | Airtronic B4L - 12V |
| Order no. for heater                       | 25.2955.05.0000                                 | 25.2956.05.0000     | 20.2030.05.0000     |
| Fuel - commercially available (DIN EN 590) | Diesel                                          |                     | Gasoline            |
| Voltage V                                  | 12                                              | 24                  | 12                  |
| Heating medium                             | Air                                             |                     |                     |
| Control/heat settings                      | Off/stepless: min.-max.                         |                     |                     |
| Heating Performance W                      | - / 1,050 / 4,000                               |                     | - / 1,300 / 4,000   |
| Heating Performance BTU/hr                 | - / 3583 / 13649                                |                     | - / 4436 / 13649    |
| Fuel consumption l/h                       | - / 0.12 / 0.49                                 |                     | - / 0.17 / 0.55     |
| Fuel consumption gal/hr                    | - / 0.03 / 0.12                                 |                     | - / 0.04 / 0.15     |
| Elec. power consumption, operation W       | 4 / 6 / 37                                      | 7 / 9 / 39          | 4 / 8 / 38          |
| Elec. power consumption, start W           | ≤105                                            | ≤100                | ≤105                |
| Air throughput w/o backpressure kg/h       | 35 / 40 / 185                                   |                     | 24 / 85 / 180       |
| Lower voltage limit V                      | Approx. 10.5                                    | Approx. 21          | Approx. 10.5        |
| Upper voltage limit V                      | Approx. 16                                      | Approx. 32          | Approx. 16          |
| Interference suppression                   | Interference suppression class 5 (DIN EN 55025) |                     |                     |
| Dimensions L x W x H mm                    | 376 x 140 x 150                                 |                     |                     |
| Weight empty Kg                            | 4.5                                             |                     |                     |
| Ventilation mode                           | Available                                       |                     |                     |

# PRODUCT INFORMATION

## EBERSPÄCHER AIRTRONIC



|                                         |                                                 |                     |                     |
|-----------------------------------------|-------------------------------------------------|---------------------|---------------------|
| Heater                                  | Airtronic M3 Recreational                       |                     |                     |
| Product Package                         | Heater, metering pump                           |                     |                     |
| Techn. designation                      | Airtronic D4R - 12V                             | Airtronic D4R - 24V | Airtronic B4R - 12V |
| Order no. for heater                    | 25.2957.05.0000                                 | 25.2958.05.0000     | 20.2031.05.0000     |
| Fuel commercially available(DIN EN 590) | Diesel                                          |                     | Gasoline            |
| Voltage V                               | 12                                              | 24                  | 12                  |
| Heating medium                          | Air                                             |                     |                     |
| Control/heat settings                   | Off/stepless: min.-max.                         |                     |                     |
| Heating Performance W                   | - / 1,050 / 4,000                               |                     | - / 1,300 / 4,000   |
| Heating Performance BTU/hr              | - / 3583 / 13649                                |                     | - / 4436 / 13649    |
| Fuel consumption l/h                    | - / 0.12 / 0.49                                 |                     | - / 0.17 / 0.55     |
| Fuel consumption gal/hr                 | - / 0.03 / 0.12                                 |                     | - / 0.04 / 0.15     |
| Elec. power consumption, operation W    | 5 / 7 / 53                                      | 8 / 10 / 55         | 5 / 10 / 54         |
| Elec. power consumption, start W        | ≤ 105                                           | ≤ 90                | ≤ 110               |
| Air throughput w/o backpressure kg/h    | 37 / 45 / 190                                   |                     | 37 / 85 / 190       |
| Lower voltage limit V                   | Approx. 10.5                                    | Approx. 21          | Approx. 10.5        |
| Upper voltage limit V                   | Approx. 16                                      | Approx. 32          | Approx. 16          |
| Interference suppression                | Interference suppression class 5 (DIN EN 55025) |                     |                     |
| Dimensions L x W x H mm                 | 376 x 140 x 150                                 |                     |                     |
| Weight empty Kg                         | Approx. 2.5                                     |                     |                     |
| Ventilation mode                        | Available                                       |                     |                     |

## EBERSPÄCHER AIRTRONIC



|                                           |                                                 |                        |                         |
|-------------------------------------------|-------------------------------------------------|------------------------|-------------------------|
| Heater                                    | Airtronic L3                                    |                        | Airtornic XL3           |
| Product Package                           | Heater, metering pump                           |                        |                         |
| Techn. designation                        | Airtronic L3 D6L - 12V                          | Airtronic L3 D6L - 24V | Airtronic XL3 D8L - 24V |
| Order no. for heater                      | 25.2959.05.0000                                 | 25.2960.05.0000        | 25.3020.05.0000         |
| Fuel - commercially available(DIN EN 590) | Diesel                                          |                        |                         |
| Voltage                                   | V                                               | 12                     | 24                      |
| Heating medium                            | Air                                             |                        |                         |
| Control/heat settings                     | Off/stepless: min.-max.                         |                        |                         |
| Heating Performance                       | W                                               | - / 1,500 / 6,000      | - / 2,000 / 7,600       |
| Heating Performance                       | BTU/hr                                          | - / 5118 / 20473       | - / 6824 / 25932        |
| Fuel consumption                          | l/h                                             | - / 0.16 / 0.74        | - / 0.23 / 1.01         |
| Fuel consumption                          | gal/hr                                          | - / 0.04 / 0.20        | - / 0.06 / 0.27         |
| Elec. power consumption, operation        | W                                               | 7 / 90                 | 11 / 95                 |
| Elec. power consumption, start            | W                                               | ≤ 90                   | ≤ 85                    |
| Air throughput w/o backpressure           | kg/h                                            | 60 / 80 / 285          | 60 / 120 / 300          |
| Lower voltage limit                       | V                                               | Approx. 10.5           | Approx. 21.4            |
| Upper voltage limit                       | V                                               | Approx. 16             | Approx. 32              |
| Interference suppression                  | Interference suppression class 5 (DIN EN 55025) |                        |                         |
| Dimensions L x W x H                      | mm                                              | 438 x 160 x 170        | 493 x 160 x 170         |
| Weight empty                              | Kg                                              | Approx. 7              | Approx 8.5              |
| Ventilation mode                          | Available                                       |                        |                         |

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AIRTRONIC S3/M3  
GASOLINE AIR HEATER - 7,500 BTU /13,600 BTU

## AIRTRONIC S3/M3 ACCESSORIES

Clamps  
5 mm Fuel Line  
Plastic Fuel Line  
3.5 mm Fuel Line

Refer to the Accessories Section for ducting components and additional accessories. Refer to heater manual for individual installation parts.



