

Vehicle heaters, additional parts, installation tips and technical data



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1 | Heating systems – Air or water?

The basic principle of pre-heaters is to heat the passenger compartment of all kinds of vehicles without having to depend on the heat given off by a running engine. That's a well-known fact. **But at some point or other you must have asked yourself what the actual difference is between air and water heaters.**

Air-based pre-heaters – Eberspächer Airtronic:

Air-based pre-heaters are mostly installed inside the cab and directly heat the air inside it, which is sucked in via the unit's own fan. Their effects are noticeable almost instantly, as the heat in the form of hot gas, which is produced by a burner, does not have to heat up a water circuit first. Modern devices are very quiet, low on emissions and chiefly used to maintain the temperature in the cab of a truck or transporter at a pleasant level even while it is at a standstill (e.g. overnight).

Water-based pre-heaters – Eberspächer Hydronic:

Water-based pre-heaters have a compact design and can be fitted almost anywhere in the engine compartment. They are therefore the pre-heater of choice for cars with interiors too cramped for additional installations. The heat generated by a burner is transferred to the vehicle's cooling water. An (additional) electric circulation pump distributes the heat, even when the engine is switched off. Then, the interior fan is activated automatically

– everything works as it does in normal heater operation. **Water-based heaters therefore not only warm up the interior, but can also, depending on the application, preheat the engine or the tap water in boats or motor homes.** Engines heated in this way can be started more easily in cold weather while also protecting the car battery from the effects of the cold, and producing fewer harmful emissions on starting, as the hotter exhaust temperature enables the catalytic converter to reach its operating temperature more quickly. The cold-starting phase, which produces mechanical stress and higher emissions, is dramatically reduced, as the oil reaches operating temperature fast when the engine is started. This saves fuel and money on the one hand, and lowers CO₂ emissions on the other.

Both systems generally run on the vehicle's fuel, straight out of the fuel tank. Depending on the model, heaters can be activated with a timer switch, radio remote control or cellphone.

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1 | Heating systems: Hydronic – Water heaters








Hydronic S3 (4 kW):

Cab and engine heater







-  Passenger cars (up to 2.0 l displacement)
-  Emergency vehicles
-  Station wagons (with additional thermo-combi valve if using Hydronic 4; ideally use Hydronic 5)
-  Small agricultural and construction machinery
-  Motor yachts up to around 22 ft long*

Hydronic S3 (5 kW):






Cab and engine heater

-  Passenger cars (from 2.0 l displacement)
-  Emergency vehicles
-  Vans, large taxis, minivans
-  Commercial vehicles, including tandem configurations with air heaters
-  Construction and agricultural machines
-  Motor yachts up to around 25 ft long
-  Motor homes*

Hydronic M8 / M10 / M12 (8–12 kW):

-  Commercial vehicles from approx. 150 kW engine power
-  Cargo area heating
-  Military vehicles
-  Large agricultural and construction machinery
-  Motor yachts up to approx. 45 ft long
-  Motor homes

Hydronic L16 / L24 / L30 / L35 (16–35 kW):







-  Coaches and city buses
-  Large freight compartments for goods which need to be kept warm
-  Container setups
-  Diesel locomotives
-  Yachts and ships up to approx. 72 ft long

* The heater is approved for mains operation (230 V/50 Hz), e.g. as is the case for camping or parking areas for motor homes or in marinas for boats, only in combination with a special cable harness (order no.: 25 2652 82 11 00, see page 106). The cable harness is included in the universal installation kit for recreational vehicles (order no.: 25 2652 82 00 00).

1 | Heating systems: Airtronic – Air heaters







Airtronic S2 (2.2 kW):

Heating comfort for a variety of applications.

-  Vans, small motor homes, small buses
-  Truck cabs with sleeping cabins
-  Construction and agricultural machinery without engine-dependent heating
-  Forklifts and other plant machinery
-  Electric vehicles
-  Yachts up to approx. 22 ft long





Airtronic M2 (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 machinery
-  Yachts up to approx. 35 ft long
-  Motor homes
-  Minivans, and vehicles used for conferences and consultancy





Airtronic D5 / B5 (5.5 kW):

TRS-enabled, continuously variable, pre-selectable Interior temperature regulation.

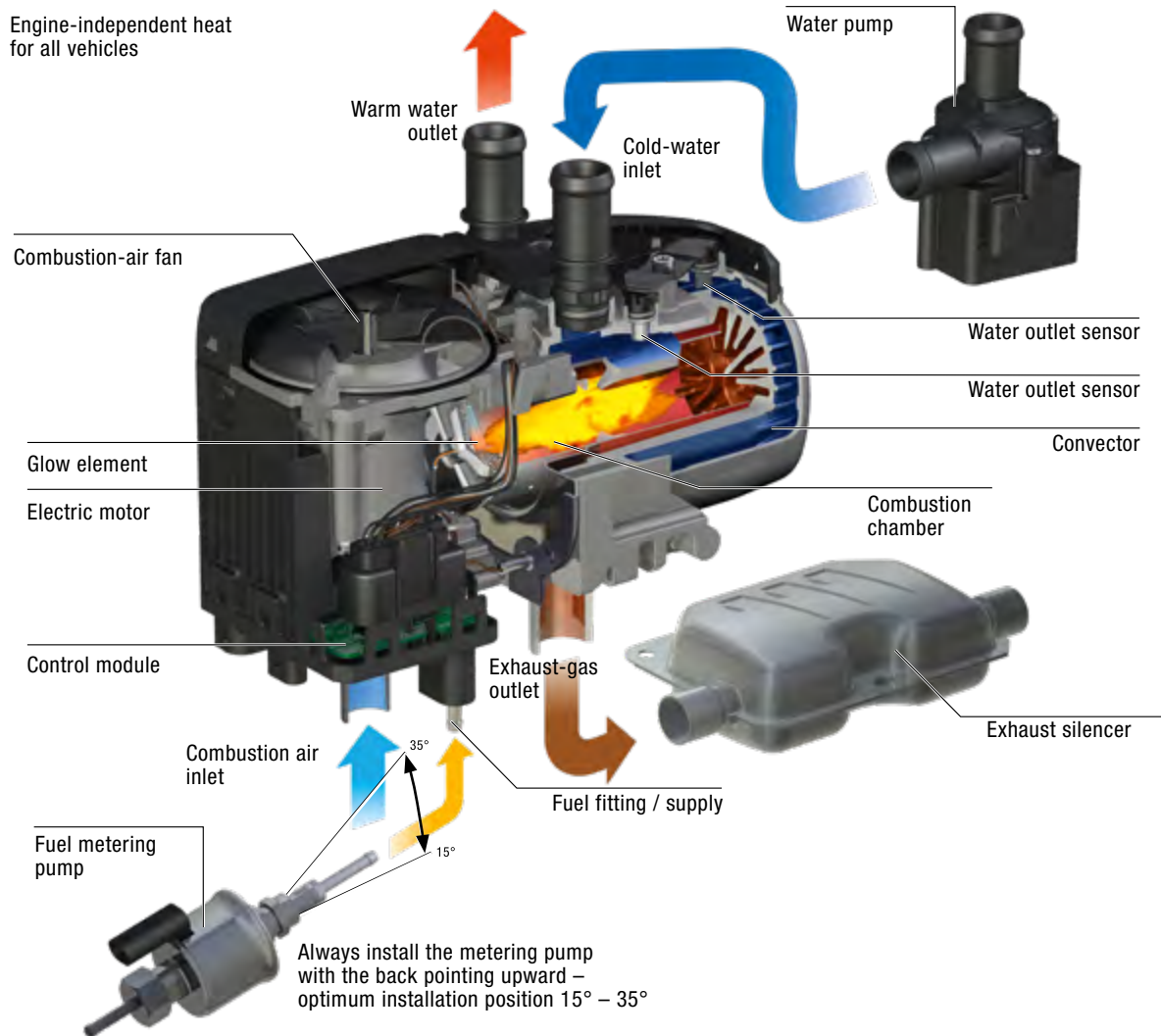
-  Vans, workshop vehicles and personnel carriers, small buses (fast heating despite door opening frequently)
-  Ambulances and emergency medics' vehicles special heating and temperature requirements
-  Freight compartment and freight goods heating plus frost protection and dew point prevention
-  Yachts and ships up to approx. 45 ft long

D8 LC (8kW):

Continuously variable, pre-selectable interior temperature regulation.

-  Large freight compartments, containers
-  Personnel carriers
-  Coaches and city buses
-  Ships up to around 62 ft long

2 | Hydronic S3 Economy: Technology

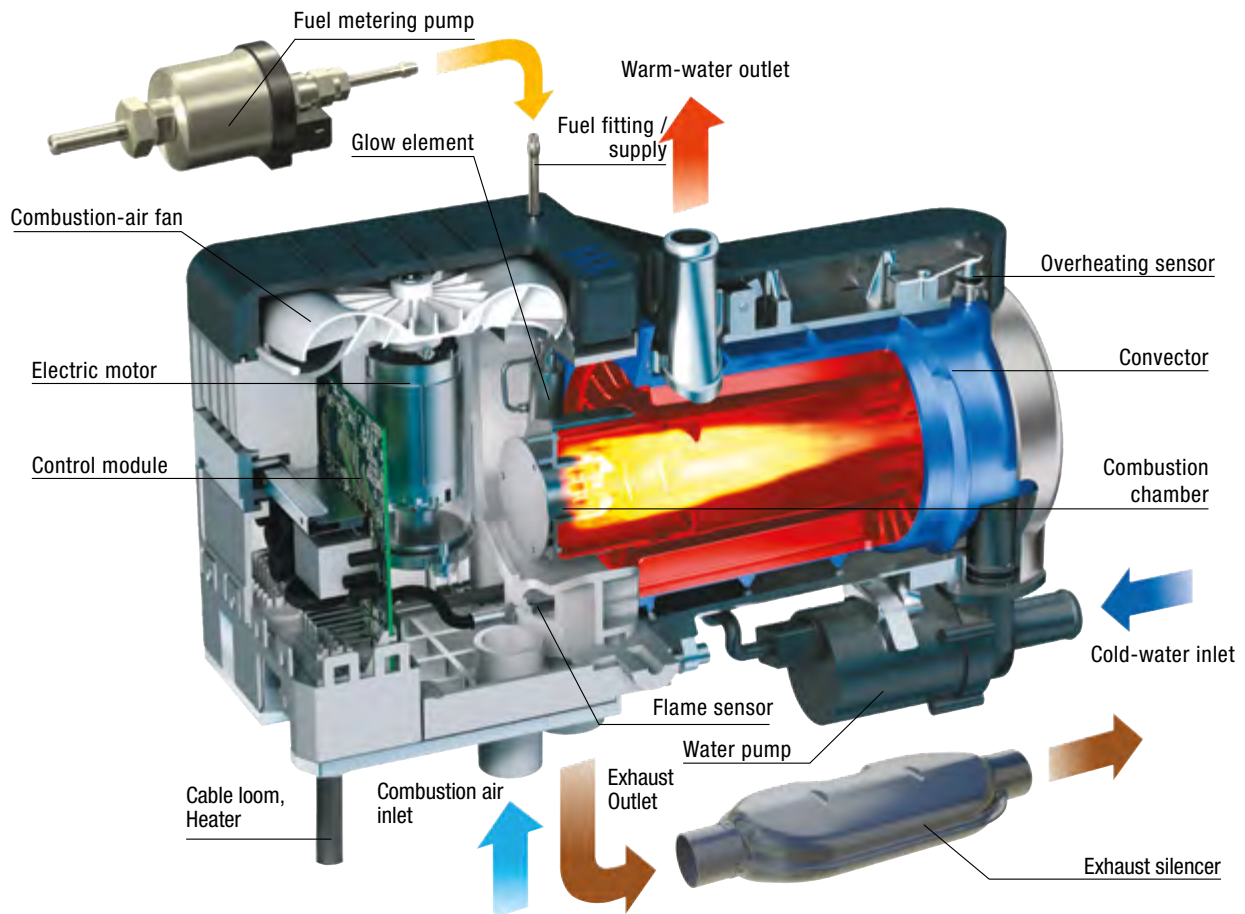


Hydronic S3 Economy* functions:

- Combustion air is conveyed to the combustion chamber by the fan motor and impeller.
- Fuel is drawn from the vehicle's tank.
- Fuel is conveyed to the combustion chamber by the metering pump (reciprocating pump).
- The glow element 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, transfers the heat to the cooling water via the convector, and diverts exhaust gas via the exhaust silencer.
- The cooling water circulation pump conveys cool water to the heater, where it is warmed by the convector and then routed to the vehicle's convector and combustion engine.

* The heater is approved for mains operation (230 V/50 Hz), e.g. as is the case for camping or parking areas for motor homes or in marinas for boats, only in combination with a special cable harness (order no.: 25 2652 82 11 00, see page 106). The cable harness is included in the universal installation kit for recreational vehicles (order no.: 25 2652 82 00 00).

2 | Hydronic M: Technology



Hydronic M 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 conveyed to the combustion chamber by the metering pump (reciprocating pump).
- The glow element vaporises 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, transfers the heat to the cooling water via the convector, and diverts exhaust gas via the exhaust silencer.
- The cooling water circulation pump conveys cool water to the heater, where it is warmed by the convector and then routed to the vehicle's own convector and combustion engine.

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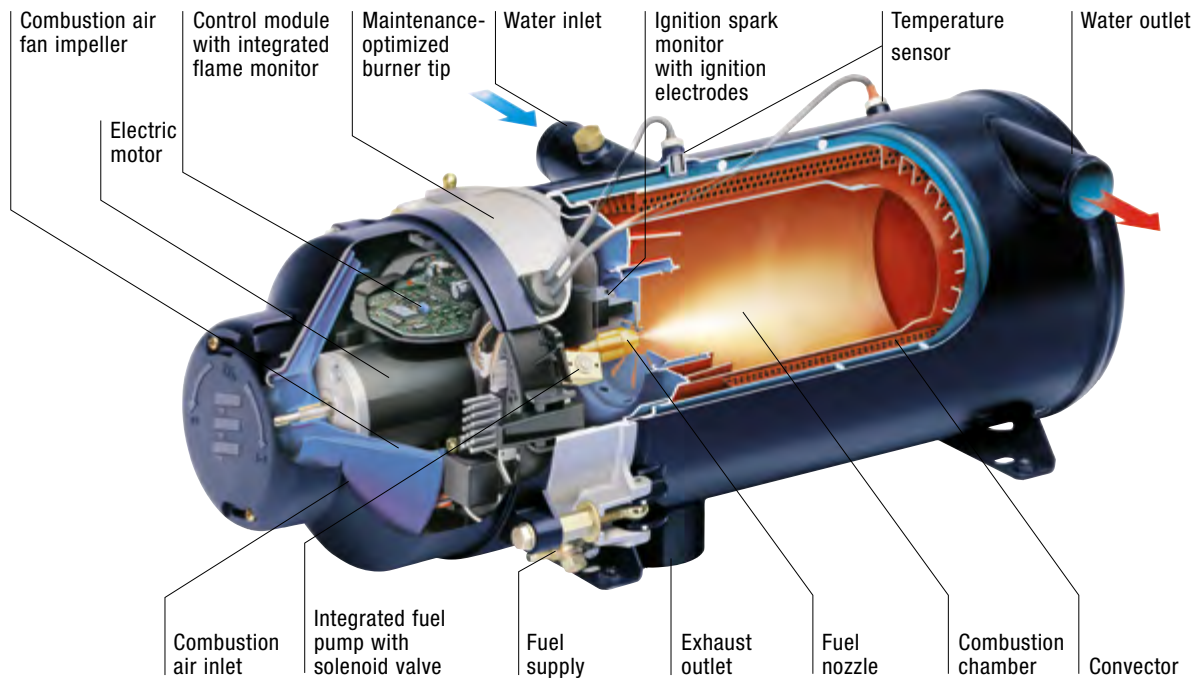
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2 | Hydronic L: Technology



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Hydronic L functions:

- Combustion air is conveyed to the combustion chamber by the fan motor and impeller.
- A gear pump conveys fuel from the vehicle's tank and builds up pressure against the closed solenoid valve.
- The solenoid valve opens and the fuel is atomized by the fuel nozzle in the combustion chamber / flame tube.
- The ignition spark monitor ignites the fuel-air mix.
- The resulting flame detection by an optical flame sensor switches off the ignition spark monitor, transfers the heat to the cooling water via the convector, and diverts exhaust gas via the exhaust silencer.
- The cooling water circulation pump conveys cool water to the heater, where it is warmed by the convector and then routed to the vehicle's own convector and combustion engine.

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Eberspächer Hydronic

Heater	Hydronic 2 Ethanol E4S		
Product package	Heater, water pump, metering pump		
Techn. designation	E4S 12V		
Order no. for heater	20 1920 05 00 00		
Fuel	E85 bio-ethanol according to DIN 51625 / E100		
Voltage	V	12	
Heating medium	Mixture of water and (max 50 %) coolant		
Control / heat settings	low / high / power		
Heat output	W	1,300 / 3,700 / 4,300	
Fuel consumption	l / h	0.23 / 0.67 / 0.78	
Power consumption, heater	W	7 / 20 / 27	
Power consumption, water pump	W	11	
Elec. power consumption, start	W	120	
Minimum water throughput	l / h	250	
Lower voltage limit	V	10.5	
Upper voltage limit	V	16	
Interference suppression	5 (DIN EN 55025)		
Dimensions L x W x H	mm	214 x 86 x 139	
Weight empty	kg	2.4	



Eberspächer Hydronic

Heater	Hydronic S3 Economy*				
Product package	Heater, water pump, metering pump				
Techn. designation	Hydronic S3 Economy B4E	Hydronic S3 Economy B5E	Hydronic S3 Economy D4E	Hydronic S3 Economy D5E	
Order no. for heater	20 2007 05 0000	20 2008 05 0000	25 2933 05 0000	25 2934 05 0000	
Order no. for heater with APRMP*	—	—	25 2943 05 0000	25 2942 05 0000	
Fuel	Gasoline		Diesel		
Voltage	V	12			
Heating medium	Water				
Control / heat settings	Infinitely variable				
Heat output	W	1,800 to 4,300	1,800 to 5,000	1,300 to 4,300	1,300 to 5,000
Fuel consumption	l / h	0.57	0.67	0.53	0.59
Power consumption, heater	W	7 / 24	7 / 32	5 / 27	5 / 32
Power consumption, water pump	W	17			
Elec. power consumption, start	W	135			
Minimum water throughput	l / h	300			
Lower voltage limit	V	10.5			
Upper voltage limit	V	16			
Protection rating	Heater: IP5K6K, IP5K9K, Control module: IP6K6K, IP6K9K				
Dimensions L x W x H	mm	215 x 91 x 180 (with straight connection fittings)			
Weight empty	kg	2.0			

* The heater is approved for mains operation (230 V/50 Hz), e.g. as is the case for camping or parking areas for motor homes or in marinas for boats, only in combination with a special cable harness (order no.: 25 2652 82 11 00, see page 106). The cable harness is included in the universal installation kit for recreational vehicles (order no.: 25 2652 82 00 00).

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Eberspächer Hydronic

Heater	Hydronic S3 Commercial	
Product package	Heater, water pump, metering pump	
Techn. designation	Hydronic S3 Commercial D5L	Hydronic S3 Commercial D6L
Order no. for heater	25 2696 05 0000	25 2745 05 0000
Fuel	Diesel fuel – commercially available (DIN EN 590) Addition of max. 30% FAME according to DIN EN 14214 is permissible.	
Voltage	V	24
Heating medium	Mix of water and antifreeze (proportion of antifreeze min. 10% to max. 50%)	
Control / heat settings	Stepless	
Heat output	W	1,300 to 5,000
Fuel consumption	l/h	0.59
Power consumption, heater	W	32
Power consumption, water pump	W	35
Elec. power consumption, start	W	135
Minimum water throughput	l/h	300
Lower voltage limit	V	20.4
Upper voltage limit	V	32
Protection rating	Heater: IP5K6K, IP5K9K, control unit: IP6K6K, IP6K9K*	
Dimensions L x W x H	mm	215 x 91 x 180 (with straight connection fittings)
Weight empty	kg	2.0

* The heater is protected against dust in harmful quantities, against powerful water jets under increased pressure and against water during high-pressure/steam jet cleaning (provided it is not in operation). The control unit is fully dustproof, fully protected against powerful water jets under increased pressure, as well as against water during high-pressure/steam jet cleaning (provided it is not in operation).

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Eberspächer Hydronic



Heater	Hydronic M8 Biodiesel		Hydronic M10		
Product package	Heater, water pump, metering pump				
Techn. designation	Hydronic M-II (D8W)		Hydronic M-II (D10W)		
Order no. for heater	25 2470 05 00 00	25 2471 05 00 00	25 2434 05 00 00	25 2435 05 00 00	
Fuel	Diesel and FAME (biodiesel)		Diesel		
Voltage	V	12	24	12	24
Heating medium	Water				
Control / heat settings	low / medium / high / power				
Heat output	W	1,500 / 3,500 / 5,000 / 8,000		1,500 / 3,500 / 8,000 / 9,500	
Fuel consumption	l / h	0.18 / 0.4 / 0.65 / 0.9		0.18 / 0.4 / 0.9 / 1.2	
Power consumption, heater	W	6 / 10 / 17 / 26		6 / 10 / 31 / 57	
Power consumption, water pump	W	29			
Elec. power consumption, start	W	200		120	
Minimum water throughput	l / h	500			
Lower voltage limit	V	10	20	10	20
Upper voltage limit	V	15	30	15	30
Interference suppression	5 (DIN EN 55025)				
Dimensions L x W x H	mm	331 x 138 x 221			
Weight empty	kg	6.2			

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Eberspächer Hydronic

Heater		Hydronic M12	Hydronic M12
Product package		Heater, water pump, metering pump	
Techn. designation		Hydronic M-II (D12W)	
Order no. for heater		25 2472 05 00 00	25 2473 05 00 00
Fuel		Diesel	
Voltage	V	12	24
Heating medium		Water	
Control / heat settings		low / medium 1 / medium 2 / medium 3 / high / power	
Heat output	W	1,200 / 1,500 / 3,500 / 5,000 / 9,500 / 12,000	
Fuel consumption	l / h	0.15 / 0.18 / 0.4 / 0.65 / 1.2 / 1.5	
Power consumption, heater	W	5 / 6 / 10 / 17 / 57 / 103	
Power consumption, water pump	W	29	
Elec. power consumption, start	W	120	
Minimum water throughput	l / h	500	
Lower voltage limit	V	10	20
Upper voltage limit	V	15	30
Interference suppression		5 (DIN EN 55025)	
Dimensions L x W x H	mm	331 x 138 x 221	
Weight empty	kg	6.2	

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Eberspächer Hydronic



Heater	Hydronic L16	Hydronic L24	Hydronic L30	Hydronic L35
Product package	Heater			
Techn. designation	Hydronic L-II (HL2-16)	Hydronic L-II (HL2-24)	Hydronic L-II (HL2-30)	Hydronic L-II (HL2-35)
Order no. for heater	25 2486 02 00 00	25 2487 02 00 00	25 2599 02 00 00	25 2600 02 00 00
Order no. for compact heater	—	25 2487 05 00 00	25 2599 05 00 00	25 2600 05 00 00
Fuel	Diesel and fuel oil			
Voltage V	24			
Heating medium	Water			
Heat output W	16,000	24,000	30,000	35,000
Fuel consumption l / h	2	2.9	3.65	4.2
Power consumption, heater W	60	80	105	120
Power consumption, water pump W	104 – 210*			
Minimum water throughput l / h	1,400	2,000	2,600	3,000
Lower voltage limit V	20			
Upper voltage limit V	30			
Dimensions L x W x H mm	600 x 230 x 222			
Weight empty** kg	18			

* depending on the water pump model

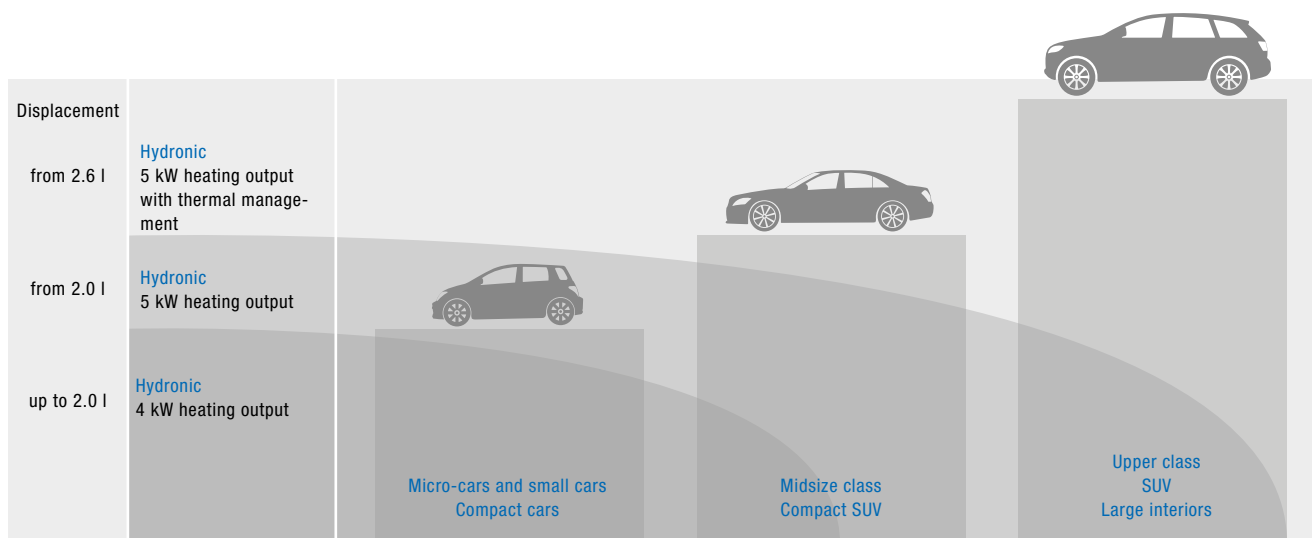
Eberspächer water pumps for Hydronic L



Water pumps	Flowtronic 5000	Flowtronic 5000 S	Flowtronic 6000 SC
Order no. for water pump	25 2488 26 00 00	25 1818 30 00 00	25 2488 25 00 00
Coolant	Water-glycol mix with up to max 50 % glycol		
Delivery rate l / h	5,200 at 0.2 bar		6,000 at 0.4 bar
Operating pressure bar	max. 2		
Nominal voltage V	24		
Elec. power consumption W	104		210
Protection class	IP5K4	IP54A	IP25 (potted electronics)
Dry running	No		Yes – motor switches itself off after 45 minutes
Shaft-impeller connector	Mechanical seal		Magnetic coupling
Weight empty* kg	2.04	2.2	2.5

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2 | Water-heater range for cars



Advantages:

- Hydronic S3 Economy & Commercial (4 to 6 kW): New bracket design plus straight and 90° angled water fittings (rotatable through 360°) which can be used in any combination for faster installation. New installation recommendations and kits are available.
- Hydronic M2 (8 to 12 kW): provide increased power for larger engines and cabins, e.g. large trucks, small buses, cargo areas.
- Hydronic L (16 to 35 kW) is ideally suited for buses, trains, boats and cargo areas.

Fuel compatibility:

- **Multifuel E85:** The Hydronic 2 B5S and B5SC with fuel kit (E85 kit) for heating electric vehicles and multifuel vehicles; fuel kit order number 22 1000 20 31 00.
- **Biodiesel:** Hydronic S3 Economy (up to 30 %), Hydronic M8 (100 %), Hydronic M10 / M12 (up to 20 %).
- **E10:** all (professionally installed) water heaters.

Expert tips for installing the pressure-resistant metering pump: You need to know the fuel pressure. The return line must end just above the floor of the tank and must not be fitted with a check valve. Diesel vehicles can then be connected straight to the return line. Please also always take note of the technical description of the particular equipment.

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2 | Vehicle-specific additional parts

The product package for individual devices generally includes the heater itself, the fuel-metering pump and the water pump. For retrofitting vehicles for which Eberspächer provides installation recommendations, a vehicle-specific installation kit (IK) and, if applicable, an air-conditioning kit are also required.

<p>Heater</p>	<ul style="list-style-type: none"> • Heater • Water pump • Metering pump 	
<p>Vehicle-specific installation kit</p>	<ul style="list-style-type: none"> • Heater mounting bracket • Water hoses • Fuel lines • Cable harnesses • Combustion-air hose • Exhaust hose with silencer • Climate control kit if applicable 	
<p>EasyFan / A/C kit</p>	<ul style="list-style-type: none"> • Cable harness • Preconfigured cable harness • Relay • IPCU (see also Service, options with IPCU, if there is no EasyFan / A/C kit) 	
<p>Control unit</p>	<ul style="list-style-type: none"> • Easy Start Pro / Remote / Remote+ / EasyStart Web 	

Images are for illustrative purposes only

2 | Universal installation kits

The following table shows the housing types and product packages of the various water heater models along with their corresponding installation kits. In contrast with individual devices, complete packages include the heater (incl. fuel-metering and water pump) and universal installation kit. The universal installation kit includes a host of (vehicle independent) parts required for installation. In this case, additional vehicle-specific installation parts are required which are not listed in the respective installation recommendations. If Eberspächer provides no installation recommendations for a particular vehicle, you can still retrofit a pre-heater using a complete package (see also the next section, “Hydronic – retrofit parts range for passenger cars”, step 4B).

Water heaters	Heater	Individual devices	Vehicle-specific IK A/C kit if applicable	Universal IK	Universal IK for recreational vehicles *
Hydronic S3 Economy CS (12V) *	25 2933 05 00 00		x	25 2933 80 00 00	25 2652 82 00 00
	25 2943 05 00 00		x		
	25 2934 05 00 00		x		
	25 2942 05 00 00		x		
Hydronic S3 Commercial CS (24V)	25 2696 05 00 00			25 2696 80 00 00	
	25 2745 05 00 00				
Hydronic M2	25 2470 05 00 00	x		25 2435 81 00 00	
	25 2471 05 00 00	x			
	25 2434 05 00 00	x			
	25 2435 05 00 00	x			
	25 2472 05 00 00	x			
	25 2473 05 00 00	x			

* The heater is approved for mains operation (230 V/50 Hz), e.g. as is the case for camping or parking areas for motor homes or in marinas for boats, only in combination with a special cable harness (order no.: 25 2652 82 11 00, see page 106). The cable harness is included in the universal installation kit for recreational vehicles (order no.: 25 2652 82 00 00).

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2 | Retrofit parts range for passenger cars

Installation of the Hydronic S3 with 4 or 5 kW heating output:

1 | Logging into the Partner Portal

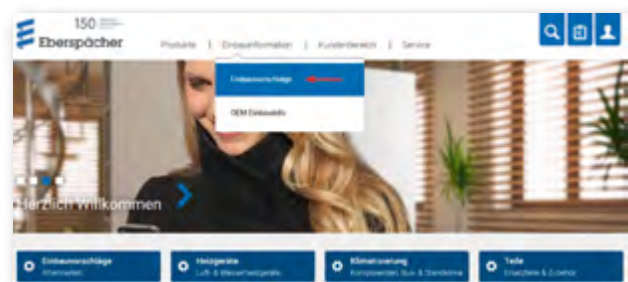
Log into the Eberspächer Partner Portal with your personal access details (email and password):

<http://partner.eberspaecher.com>



2 | “Installation Information” pane

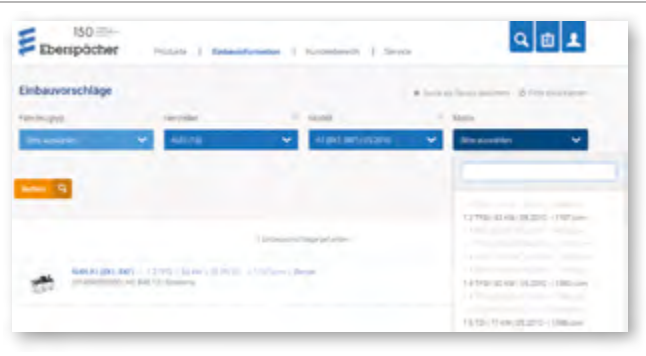
Next, select the “Installation Information / Installation Recommendations” tab.



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3 | Selecting your vehicle type

Using the dropdown menu, select the required vehicle and confirm with the "Search" button.



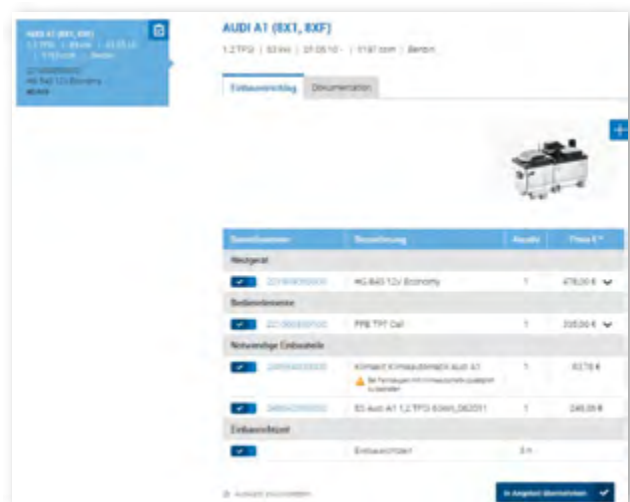
4a | There is an installation recommendation for the vehicle

If there is an existing retrofit installation recommendation for the vehicle, the vehicle model will be listed along with the recommended heater, including the price (excl. sales tax). Click on the vehicle in the list. The parts required for the installation are now displayed:

- Recommended **heater** (including water pump and fuel metering pump)
- **Control unit**
- **Vehicle-specific installation kit** including all parts required for the mechanical installation
- **A/C kit** if applicable (for models with automatic air conditioning)
- Additional installation parts if applicable
- Recommended **installation guide time**

* Heaters and control units with a black arrow after the price can be adapted if necessary by clicking the arrow and making a selection.

If you click the "Get estimate" button, this will take you to the estimates pane where you can obtain a quote.



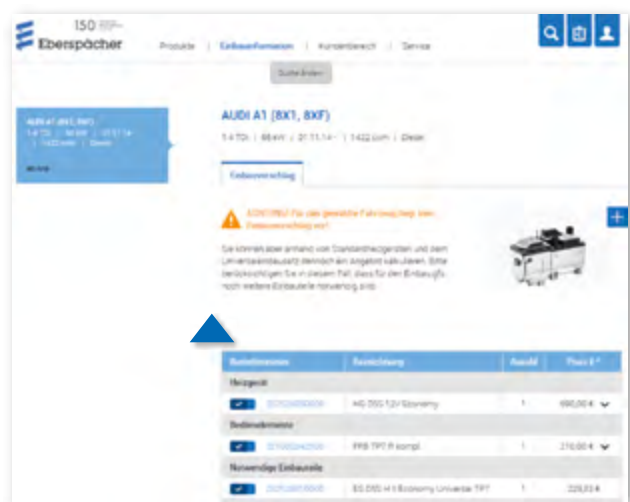
4b | There is no installation recommendation for the vehicle

EXPERT TIPS

If there is no installation recommendation, you will see a note to this effect and the installation recommendation will be grayed out. However, it may still be possible to retrofit an Eberspächer pre-heater in the selected vehicle by using the universal installation kit. The required installation parts are displayed.

- Recommended **heater**
- **Control unit**
- **Required installation parts**
- **Installation guide time**

* Heaters and control units with a black arrow after the price can be adapted if necessary by clicking the arrow and making a selection.



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2 | Retrofit parts range

Installation of the Hydronic M water heater with 8 – 12 kW heating output:

Installation parts for the **Hydronic-M** heaters are usually heavily application-dependent. Planning installation of these heaters requires not only the heater and universal installation kit but also, where applicable, additional installation parts that need to be determined during installation planning. Please see the section on “Accessories” for the corresponding additional parts. For example, with convector and boiler installations, a wide range of heating options can be used in parallel.

Hydronic-M heater installations generally require the following parts:

- Hydronic M heater with 8 kW, 10 kW or 12 kW output, 12 or 24 V
- Hydronic M universal installation kit
- Control unit (of your choice)
- Additional installation parts based on application, if applicable (see also “Accessories” section)

See also the sections on “Complete packages / universal installation kits”, “Device range” and “Control units”.

Installation of the Hydronic L water heater with 16 – 35 kW heating output:

Installation parts for the **Hydronic L** heaters are also heavily application-dependent. As a result there is no universal installation kit for these heaters.

Alongside the heater, installation planning needs to include some additional installation parts which have to be specified during planning. Please see the section on “Accessories” for the corresponding additional parts. Again, for example, there is a host of heating options that can be used in parallel in convector and boiler installation.

The **24 kW, 30 kW and 35 kW heater variants** are available individually as well as in a compact version. To make heater installation easier the compact version comes with the water pump and fuel filter and their installation parts pre-installed.

- Hydronic L 16 kW, 24 kW, 30 kW or 35 kW heater as individual device or compact version
- Additional parts for connecting the water circuit
- Additional parts for the fuel supply
- Additional parts of the exhaust system
- Control unit (of your choice)

See also the sections on “Device range” and “Control units”.

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2 | Optional add-ons

Altitude kit*:

Suitable for older heater generations such as Hydronic, Hydronic 2 and Airtronic 1 and is required from altitudes of around 1,500 m. When the heater starts, the pressure sensor measures the atmospheric pressure cyclically and sends the measured values to the heater control module. The control module evaluates the measured values and if required, adjusts the fuel feed in the metering pump to the current atmospheric pressure. It begins reducing fuel feed at around 1,400 m, which immediately starts to reduce heating power by around 9 % for every 1,000 m in altitude.

An altitude kit is no longer required for the new heater generations **Hydronic S3 Commercial (CS)** and the **Airtronic 2** models.

A manual altitude function using CAN control units is possible for the **Hydronic S3 Economy (CS)**.

Heater operation up to altitudes of 3,000 m. The **Hydronic S3 Economy (CL)** does not support an altitude function.

The **Hydronic M10/M12** models also feature automatic altitude adjustment. The heating can be operated up to altitudes of 3,500 m.

Check the compatibility of the heater, and pressure sensor and control unit before installation. (Please look for “H-Kit“ on the heater identification label)

Technical data altitude kit (22 1000 33 22 00):

Max. permissible height: approx. 3,500 m

Measuring range: 600 hPa to 1,150 hPa

Nominal voltage: 12 / 24 V

Operating voltage: 8 to 32 V

Dimensions: 76 x 76 x 29 mm

Operating temperature: -40 °C to +85 °C

Identification label:

1. In this case, on the right-hand side of the heater identification label you will see “H-Kit”. If the label carries this mark, the heater is suitable for automatic altitude adjustment.

2. The heater’s packaging (box) carries a sticker on which you will find the drawing number of the heater: The last two characters of this number (e.g. “0N”) specify heater status. Based on this information, the Technical Hotline can tell you whether the heater is compatible with the altitude kit. If the label is not legible, please contact the Technical Hotline.



Fig.: Identification label

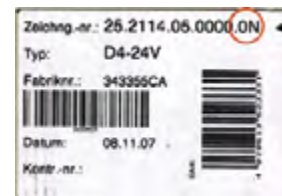


Fig.: Sticker on heater box

Technical Hotline: 01805 262626

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2 | Optional water circuits on a Hydronic S3 Economy* example

“Inline integration” of cooling circuit:

Cut through the vehicle's water feed hose from the engine and the convector.

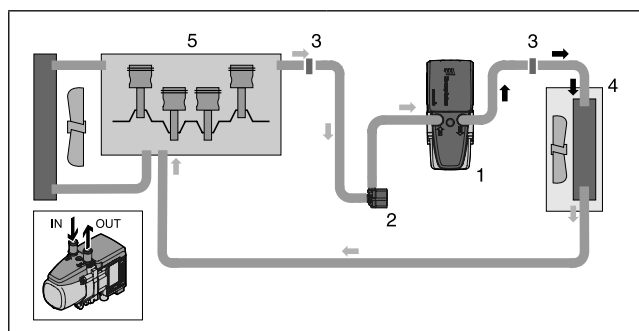
Connect the heater and water pump to the water feed hose using the connection fittings and water hoses.

Run and connect a water hose from the water pump pressure fitting to the heater water inlet fitting.

Heating characteristic

When the heater is switched on, heat is initially only conveyed to the vehicle's engine via the vehicle convector.

Once the coolant temperature reaches approx. 30 °C, the vehicle's fan starts up and heat is supplied to the passenger compartment as well.



- | | |
|--------------------|------------------|
| 1 Heater | 4 Convector |
| 2 Water pump | 5 Vehicle engine |
| 3 Connecting piece | |

Cooling circuit with check valve:

Cut through the vehicle's water feed hose from the engine to the convector and insert the check valve.

Connect the heater and the water pump and hoses to the check valve.

Run and connect a water hose from the water pump pressure fitting to the heater water inlet fitting.

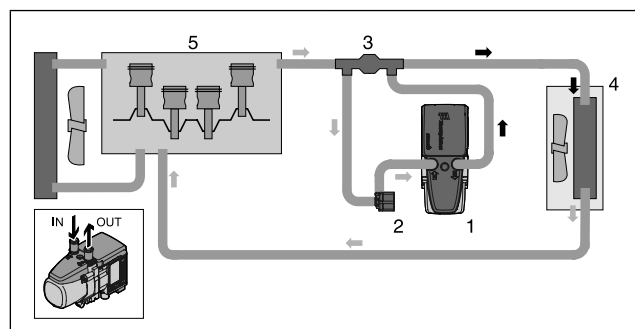
Heating characteristic

When the heater is switched on, heat is initially only conveyed to the vehicle's engine via the vehicle convector.

Once the coolant temperature reaches approx. 30 °C, the vehicle's fan starts up and heat is supplied to the passenger compartment as well.

Advantage of in-line integration in the water circuit

No loss of performance on the vehicle heater when the heater is switched off.



- | | |
|---------------|------------------|
| 1 Heater | 4 Convector |
| 2 Water pump | 5 Vehicle engine |
| 3 Check valve | |

i Note:

- The check valve must be ordered separately – see page 77 f. for order number.

* The heater is approved for mains operation (230 V/50 Hz), e.g. as is the case for camping or parking areas for motor homes or in marinas for boats, only in combination with a special cable harness (order no.: 25 2652 82 11 00, see page 106). The cable harness is included in the universal installation kit for recreational vehicles (order no.: 25 2652 82 00 00).

Cooling circuit with combi valve:

Using the 5-connection combi valve

If the water feed and return lines between the vehicle's engine and convector are installed separately in the engine compartment, the 5-connection combi valve must be used along with a T-piece.

Using the 6-connection combi valve

If the water feed and return lines between the vehicle's engine and convector are installed in parallel in the engine compartment, the 6-connection combi valve can be used (without a T-piece).

Heating characteristic in pre-heating mode – small cooling circuit:

Initially the heat from the heater, at a coolant temperature of approximately 67 °C, is conveyed only to the vehicle convector, rapidly heating the vehicle interior.

Once the coolant temperature reaches around 67 °C, some of the heat from the heater is also conveyed to the engine. This allows the engine to be pre-heated while preventing the "small cooling circuit" for interior heating from cooling too fast.

Heating characteristic in additional heating mode – large cooling circuit

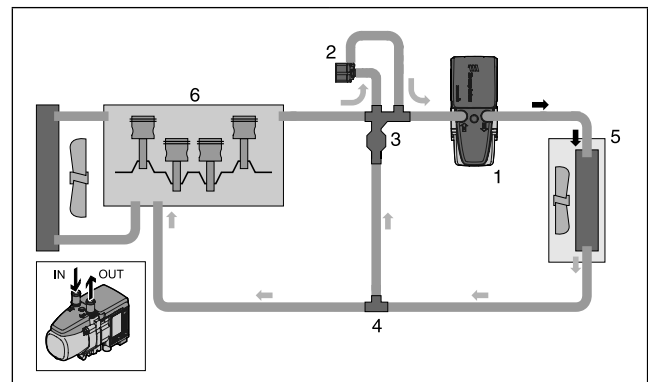
When the vehicle's engine is operating, heat is distributed evenly between its convector and engine, making the warmup phase even shorter and heating the vehicle interior.

Installing a combi valve with 5 connections:

Cut the water feed hose running from the vehicle's engine and convector, and install the combi valve.

Cut through the water return hose from the vehicle's convector and engine and insert the T-piece.

Connect the heater and water pump and hoses to the combi valve and T-piece as shown in the drawing.



- | | | | |
|---|-----------------------------|---|-------------------|
| 1 | Heater | 4 | T-piece |
| 2 | Water pump | 5 | Vehicle convector |
| 3 | Combi valve (5 connections) | 6 | Vehicle engine |

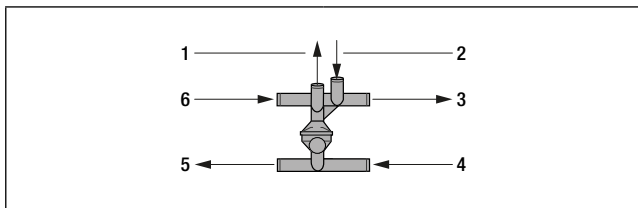
* The heater is approved for mains operation (230 V/50 Hz), e.g. as is the case for camping or parking areas for motor homes or in marinas for boats, only in combination with a special cable harness (order no.: 25 2652 82 11 00, see page 106). The cable harness is included in the universal installation kit for recreational vehicles (order no.: 25 2652 82 00 00).

2 | Optional water circuits on a Hydronic S3 Economy* example

Installing a combi valve with 6 connections:

Cut the water feed and return lines between the vehicle's engine and convector and install the combi valve.

Connect the heater and water pump and hoses to the combi valve as shown in the drawing.



- | | |
|-------------------|--------------------------|
| 1 To water pump | 4 From vehicle convector |
| 2 From water pump | 5 To vehicle engine |
| 3 To heater | 6 From vehicle engine |

Cooling circuit with two check valves:

To pre-heat the vehicle interior only (vehicle engine disengaged)

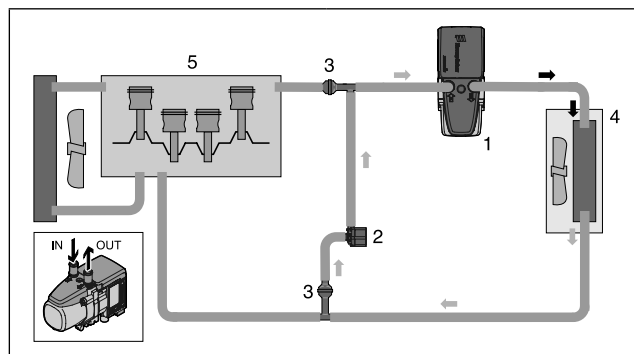
Cut the water feed and return lines between the vehicle's engine and convector and insert the combi valve. It is essential to observe the flow direction through the check valves.

Install the heater in the water feed hose between the check valve and the vehicle's convector

Connect the water pump and hoses to the check valve.

Heating characteristic

When the heater is switched on, the heat is conveyed only to the vehicle's convector. Once the coolant temperature reaches approx. 30 °C, the vehicle's fan starts up and the heat is supplied exclusively to the passenger compartment.



- | | |
|----------------------------|---------------------|
| 1 Heater | 4 Vehicle convector |
| 2 Water pump | 5 Vehicle engine |
| 3 T-piece with check valve | |

* The heater is approved for mains operation (230 V/50 Hz), e.g. as is the case for camping or parking areas for motor homes or in marinas for boats, only in combination with a special cable harness (order no.: 25 2652 82 11 00, see page 106). The cable harness is included in the universal installation kit for recreational vehicles (order no.: 25 2652 82 00 00).

2 | Hydronic S3 optional add-ons – fuel supply

Diesel:

- Hydronic S3 Economy with pressure-resistant metering pump:
- Advantage: easy to connect to the vehicle's fuel system, speeding up installation
- Prerequisite: Fuel pressure < 2 bar for diesel, no check valve on tank connection, return line ends just above tank floor

Please note! The following versions of the Hydronic S3 Economy include the pressure-resistant metering pump:

D4E 12 V: 25 2943 05 00 00

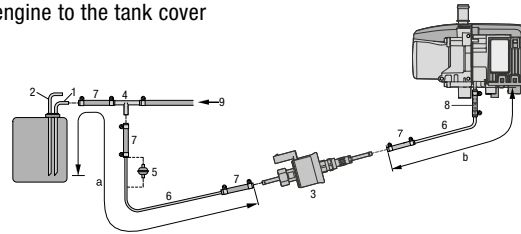
D5E 12 V: 25 2942 05 00 00

Gasoline:

- Gasoline applications with a pressure of > 0.2 bar also require the pressure reducer

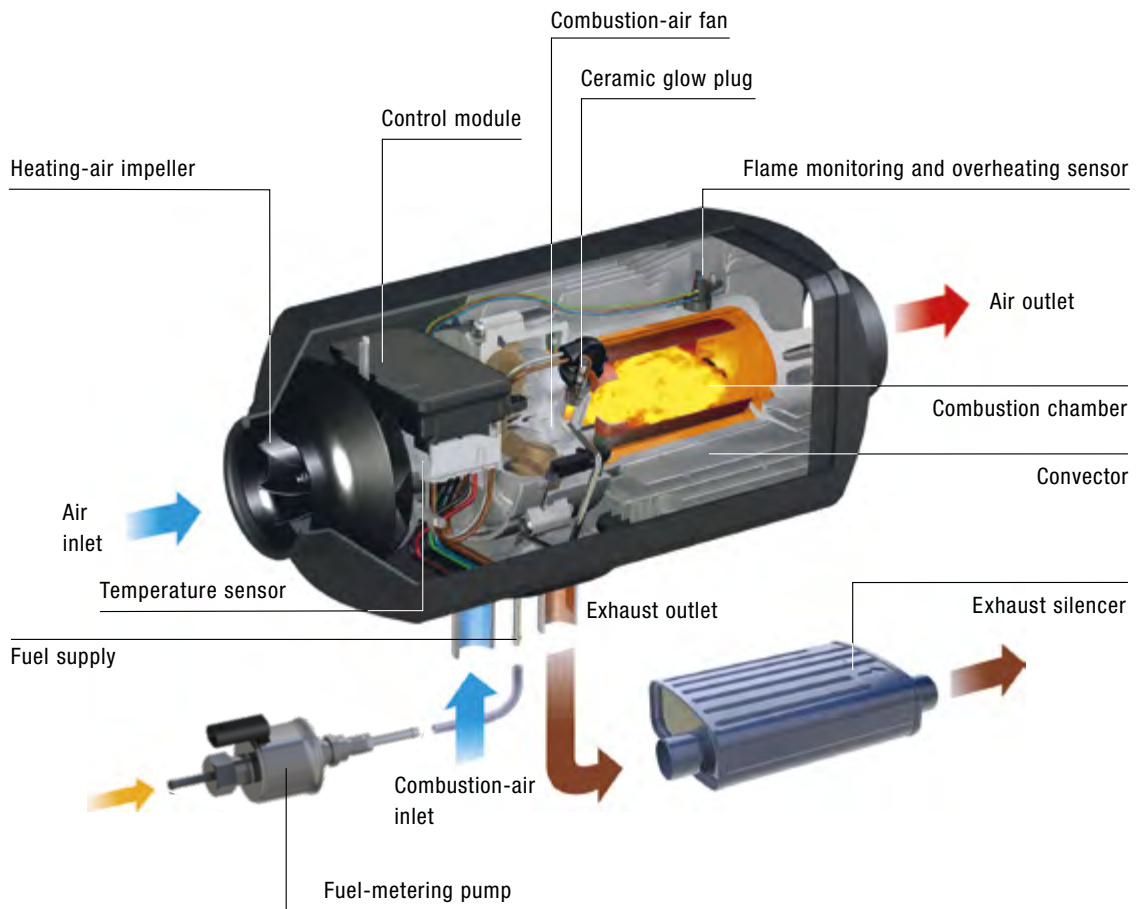
Please note! For fuel lines pressurized at 2.0 bar to max. 4.0 bar, use the pressure reducer (order no. 22 1000 20 08 00) or a separate tank connection.

Fuel is extracted via a T-piece in the fuel return pipe from the engine to the tank cover



- | | | |
|---|--|--|
| 1. Fuel return line from vehicle tank cover | 5. Fuel filter – required only for contaminated fuel | 9. From vehicle engine to tank fitting |
| 2. Fuel supply line from vehicle tank cover | 6. Fuel pipe, 4 x 1 (di = Ø 2 mm, blue) | Permissible line lengths: |
| 3. Metering pump (pressure resistant up to 2.0 bar) identified with a green label | 7. Fuel hose 3.5 x 3 (di Ø 3.5 mm), approx. 50 mm long | Suction side: |
| 4. T-piece | 8. Adapter (Ø 4.5/3.5 mm) | a = max. 2 m |
| | | Pressure side: |
| | | b = max. 6 m |



3 | Airtronic: technology






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 conveyed to the combustion chamber by the metering pump.
- The glow element 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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		Airtronic S2 Commercial		Airtronic S2 Commercial
Heater		Airtronic S2 Commercial		Airtronic S2 Commercial
Product package		Heater, metering pump		
Techn. designation		Airtronic D2L – 12V	Airtronic D2L – 24V	Airtronic E2L – 12V
Order no. for heater		25 2721 05 00 00	25 2726 05 00 00	25 3015 05 00 00
Fuel		Diesel		Bio-ethanol E100
Voltage V		12	24	12
Heating medium		Air		
Control / heat settings		Off/stepless: min.-max.		
Heat output W		– / 850 / 2,200		
Fuel consumption l / h		– / 0.1 / 0.28		– / 0.16 / 0.49
Elec. power consumption, operation W		4 / 6 / 31		4 / 6 / 31
Elec. power consumption, start W		≤ 100		
Air flow volume w/o backpressure kg / h		13 / 42 / 105		
Lower voltage limit V		10.5	21	10.5
Upper voltage limit V		16	32	16
Interference suppression		Disturbance class 5 (DIN EN 55025)		
Dimensions L x W x H mm		310 x 115 x 122		
Weight empty kg		2.7		
Ventilation mode		available		

					
		Airtronic M2 Commercial		Airtronic M2 Recreational	Airtronic M2 Commercial
Heater		Airtronic M2 Commercial		Airtronic M2 Recreational	Airtronic M2 Commercial
Product package		Heater, metering pump			
Techn. designation		Airtronic D4L – 12 V	Airtronic D4L – 24 V	Airtronic D4R – 12 V	Airtronic B4L
Order no. for heater		25 2720 05 00 00	25 2729 05 00 00	25 2746 05 00 00	20 1987 05 00 00
Fuel		Diesel			Gasoline
Voltage V		12	24	12	12
Heating medium		Air			
Control / heat settings		Off/stepless: min.-max.			
Heat output W		– / 900 / 4,000			– / 1,300 / 3,800
Fuel consumption l / h		– / 0.11 / 0.51			– / 0.18 / 0.54
Elec. power consumption, operation W		5 / 6 / 42		5 / 6 / 65	5 / 7 / 42
Elec. power consumption, start W		≤ 100			
Air flow volume w/o backpressure kg / h		22 / 60 / 180		22 / 55 / 185	24 / 85 / 180
Lower voltage limit V		10.5	21	10.5	10.5
Upper voltage limit V		16	32	16	16
Interference suppression		Disturbance 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			

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Eberspächer Airtronic



Heater	Airtronic B5	Airtronic D5	Airtronic D5
Product package	Heater, metering pump		
Techn. designation	Airtronic L (B5)	Airtronic L (D5)	Airtronic L (D5)
Order no. for heater	20 1859 05 00 00	25 2361 05 00 00	25 2362 05 00 00
Fuel	Gasoline	Diesel	
Voltage V	12		24
Heating medium	Air		
Control / heat settings	low / medium / high / power		
Heat output W	2,000 / 2,700 / 4,800 / 5,500	1,600 / 2,700 / 4,800 / 5,500	
Fuel consumption l / h	0.27 / 0.37 / 0.65 / 0.75	0.2 / 0.34 / 0.58 / 0.66	
Elec. power consumption, operation W	15 / 30 / 80 / 85	25 / 35 / 80 / 85	
Elec. power consumption, start W	250		
Air flow volume w/o backpressure kg / h	125 / 180 / 275 / 280	155 / 190 / 275 / 280	
Lower voltage limit V	10,5		21
Upper voltage limit V	16		32
Interference suppression	Disturbance class 5 (DIN EN 55025)		
Dimensions L x W x H mm	530 x 170 x 185		
Weight empty kg	9.3		
Ventilation mode	available		

Eberspächer Airtronic



Heater	D8 LC	D8 LC
Product package	Heater, metering pump	
Techn. designation	8 L (D8 LC)	8 L (D8 LC)
Order no. for heater	25 1890 00 00 00	25 1891 00 00 00
Fuel	Diesel	
Voltage V	12	24
Heating medium	Air	
Control / heat settings	low / high	
Heat output W	3,500 / 8,000	
Fuel consumption l / h	0.4 / 1.05	
Elec. power consumption, operation W	115	
Elec. power consumption, start W	330	380
Air flow volume w/o backpressure kg / h	310	
Lower voltage limit V	10	20
Upper voltage limit V	14	28
Interference suppression	Long-distance (additional measures possible)	
Dimensions L x W x H mm	653 x 260 x 250	
Weight empty kg	14	
Ventilation mode	available	

3 | Selecting the air heater

The heating output information provided refers to heating the interior of a cold vehicle to around 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.).

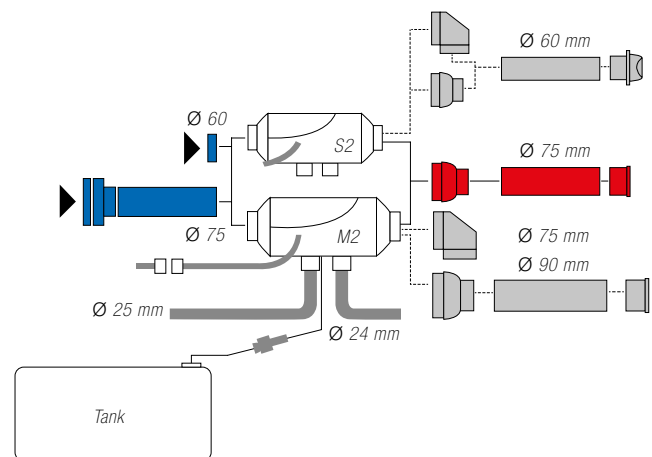
Guide values for required heating output

Example	Volume of interior	Outside temperature		
		< -15 °C	-15 °C to 0 °C	> 0 °C
Truck cabin	< 8 m ³	4 kW	4 kW (2 kW)*	2 kW
Small bus	8 – 12 m ³	5 kW (4 kW)*	4 kW*	2 kW
Motor home / van	12 – 20 m ³	8 kW	4 kW (5 kW)*	4 kW
Yacht / boat	> 20 m ³	see documentation: Marine catalog		

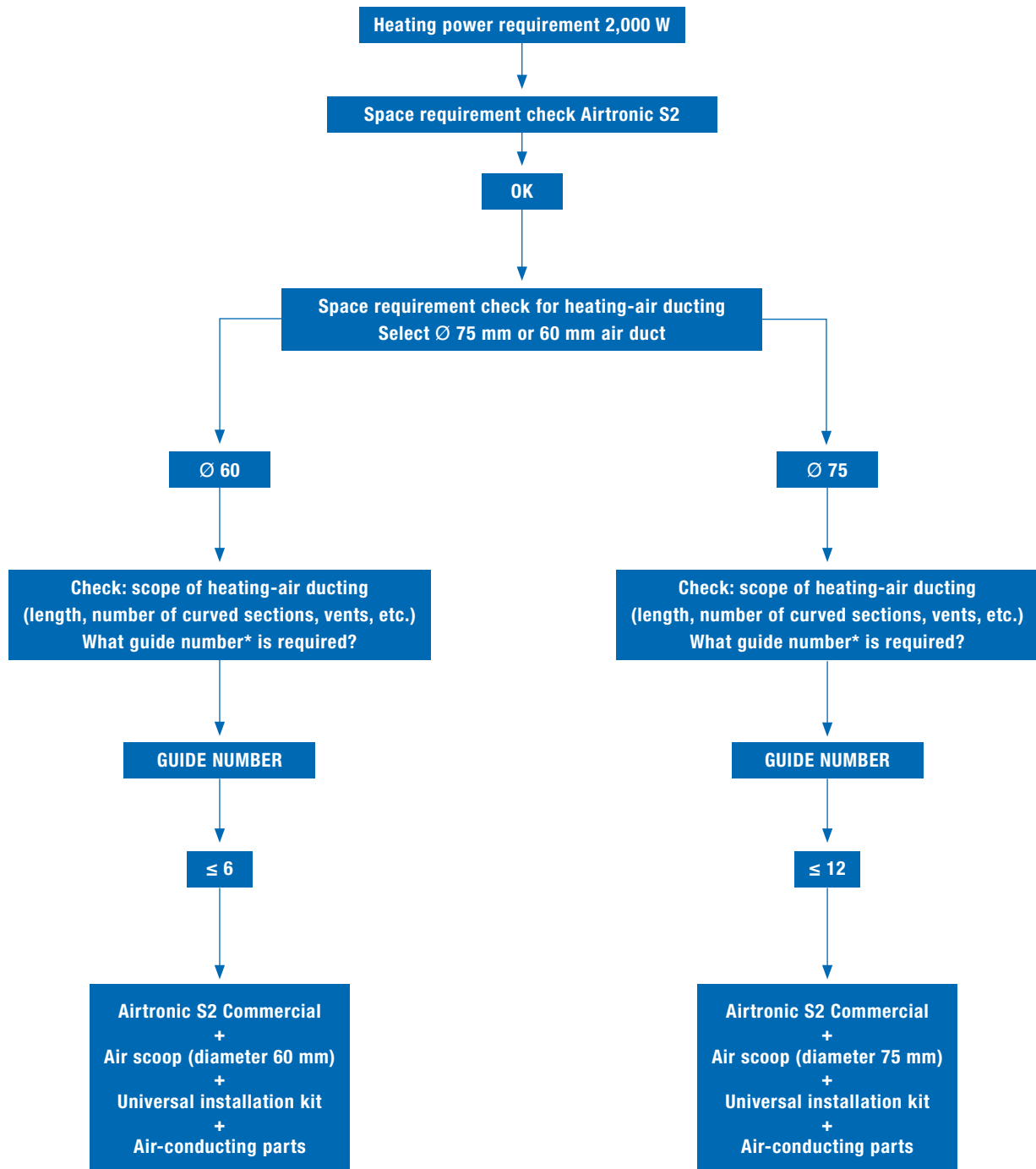
* Values (referring to heat-insulated cabins / vehicles)

Range of devices and their respective advantages:

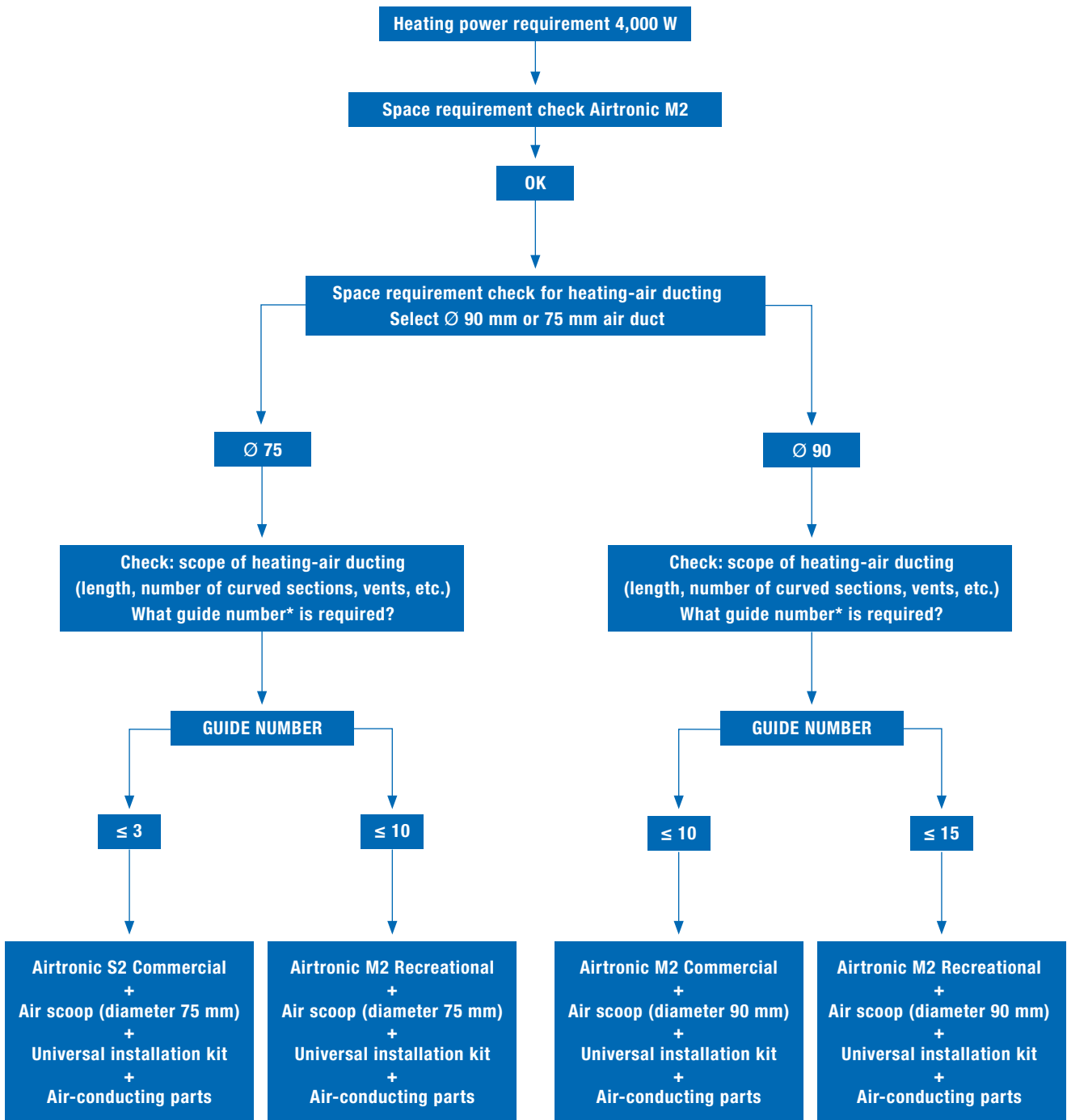
- **Airtronic S2 Commercial:** the smallest air heater on the market, advantageous in cramped installation spaces. Air ducting with 60 mm or 75 mm air hoses possible.
- **Airtronic M2 Commercial:** output 4,000 W, air ducting with 75 mm or 90 mm air hoses possible, for vans and suitably sized trucks; offers the advantage of high power within a reasonable installation space, wide range of applications from 900 W (gasoline 1,300 W) to 4,000 W.
- **Airtronic M2 Recreational:** for applications requiring a higher air throughput, e.g. for long, complex heating air ducting in campers/motor homes, boats or ambulances.



3 | Selecting the air heater



* Guide number: each component of the heating-air ducting (air hose, curved sections, vents, etc.) has a line guide number. The sum of these line guide numbers must not be greater than the guide number for the heater, otherwise the heater could malfunction – e.g. overheat. The higher the guide number for the heater, the more heating-air ducting components may be connected. Please refer to Eberspächer's Accessories catalog for a detailed explanation of guide numbers.



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3 | Installation kits

General notes on heating-air ducting:

Heating-air ducting can also be mounted onto the heater. Each part has a line guide number which indicates the reduction in the heating-air throughput. In order to give you the opportunity to check that the installation you have planned does not reduce the heating-air throughput to an inadmissible level, we have calculated a heater guide number for each heater and a line guide number for each heating-air ducting; see information in the guide number tables:

0 = no temperature increase,
– = no line guide number.

The total of the line guide numbers of the heating-air ducts connected to the heater must not be greater than the heater guide number, as otherwise the vent temperature would be inadmissibly high, the heat distribution would be uneven and the overheating sensor would respond. If the total of the line guide numbers is greater than the heater guide number, the total can be reduced by selecting a larger diameter for the air ducts or switching from a one-duct to a two-duct system.

1-duct means:

One heating-air duct leads to or from the heater. The line guide numbers under “1-duct” apply.

2-duct means:

After the heater, the heating-air line divides into two ducts. Up until this branch, the line guide numbers specified under “1-duct” apply, from the branch onwards the line guide numbers under “2-duct” apply. Note the information on air ducting and calculating the total of the guide line numbers starting on page 42.

When using two air ducts or multiple vents, at least one of the ducts must be permanently open.

The branch that can be closed must not be taken into account when calculating the total of the line guide numbers.

Rule of thumb:

Double cross-section or two lines the same, routed in parallel = 1 / 4 of the guide number.

Example:

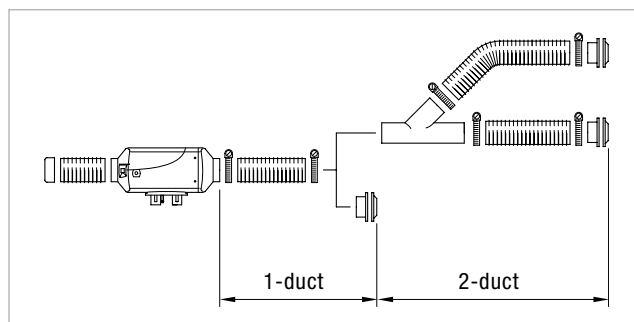
Hose Ø 60 mm

Cross-section A = 19.6 cm², guide number 1.0

Hose Ø 75,

Cross-section A = 44.2 cm², guide number 0.25

With smooth welded pipes, the line guide number is only half of the flexible hose with the same diameter (i.e. double pipe length).



With innovative air control units:

To counter the uneven distribution of warm air in systems with multiple ducts and vents, we have developed innovative air flow regulating elements that are simply clipped into the hose connection fitting of the air vent. These patented regulating elements reduce the air flow cross-section accordingly and therefore the amount of air that escapes. Available for fitting diameters 60, 75 and 90 mm.



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The new range of air vents:

Particularly colorfast and durable even at high temperatures, the covers of our completely re-designed range of vents are impressive, featuring a streamlined and high-quality design that allows for a variety of flow directions. They are available in white and black, allowing seamless integration into any interior.

- Clear, simple system thanks to the modular design.
- Plug-in connections between cover and fitting or fitting and air hose for easy assembly.
- Fittings available in 50, 60, 75 and 90 mm.



Heater guide numbers:

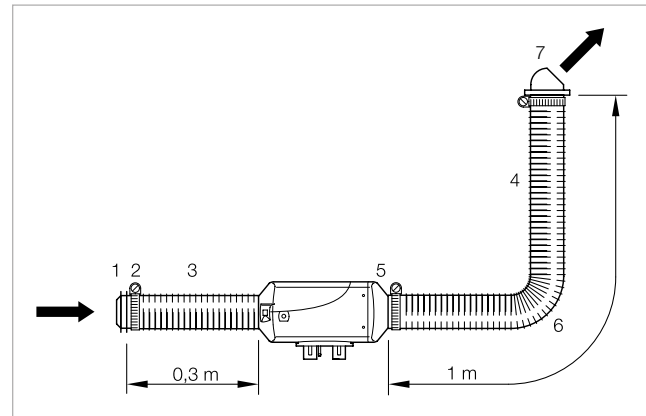
Heater	Guide number
Airtronic S2 with scoop 60	6
Airtronic S2 with scoop 75	12
Airtronic M2 Commercial with scoop 75	3
Airtronic M2 Recreational with scoop 75	10
Airtronic M2 Commercial with scoop 90	10
Airtronic M2 Recreational with scoop 90	15

Example calculation for heating-air ducting:

Airtronic: Heater guide no = 6

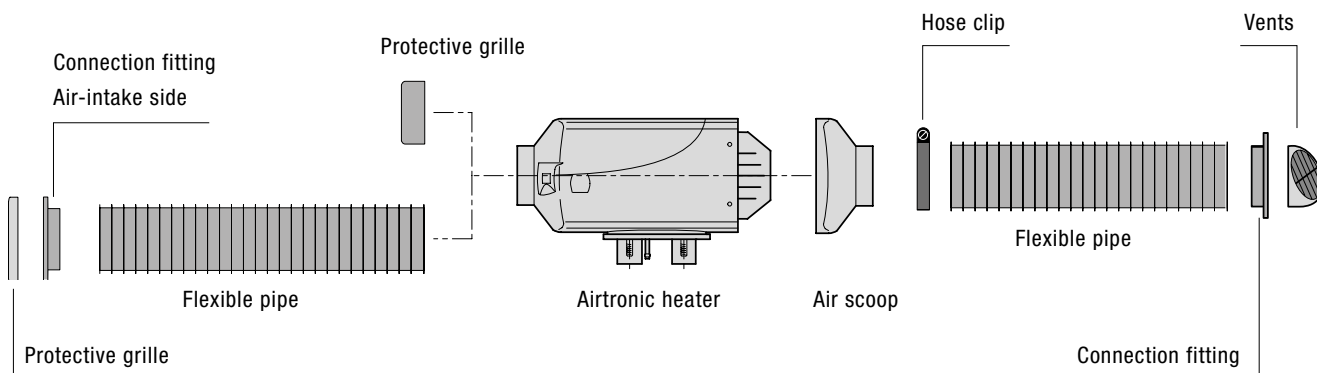
NO.	DESCRIPTION	Line guide number
1	Protective grille	1.7
2	Connectors Ø 60	1.7
3	Flex. Pipe Ø 60, 0.3 m long	0.3
4	Flex. Pipe Ø 60, 1.0 m long	1.0
5	Straight air scoop, Ø 60	0
6	1 x 90° elbow, flex. pipe	0.6
7	Rotating air vent	1.4
Total of the line guide numbers		5.0

Total of line guide numbers, 5.0, does not exceed the heater guide number 6, so the installation is admissible.



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3 | Parts for Airtronic 2 installation



Installation with 60 mm parts

Heater	Order no. Heater	Order no. Universal installation kit	Protective grille 60 mm	Air scoop 60 mm	Flexible pipe 60 mm
AS2 D2L 12V	25 2721 05 00 00	25 2720 80 00 00	25 1688 80 06 00	22 1000 01 00 16	10 2114 31 00 00
AS2 D2L 24V	25 2726 05 00 00				

Installation with 75 mm or 90 mm parts

Heater	Order no. Heater	Order no. Universal installation kit	Protective grille 75 mm	Air scoop 75 mm	Flexible pipe 75 mm	Air scoop 90 mm	Flexible pipe 90 mm
AS2 D2L 12V	25 2721 05 00 00	25 2720 80 00 00	-	22 1000 01 00 17	10 2114 34 00 00	-	-
AS2 D2L 24V	25 2726 05 00 00						
AM2 D4L 12V	25 2720 05 00 00		25 1552 05 01 00	22 1000 01 00 18	22 1000 01 00 19	10 2114 37 00 00	
AM2 D4L 24V	25 2729 05 00 00						
AM2 B4L 12V	20 1987 05 00 00						
AM2 D4R 12V	25 2746 05 00 00						

The universal installation kit is required for all Airtronic 2 heaters.

The following items must be ordered in addition to the parts listed in the table (air scoop, installation kit, grille and flexible pipe):

- Fuel extractor
- Hose clip
- Fittings: Ø 50/60/75/90 mm depending on air ducting
- Vents: Ø 50/60 depending on air ducting, or for 75/90 mm

The following items are additionally required depending on the customer application:

- Control unit
- Fuel kit

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Vents



	Flat vent, 0°	Flat vent, 30°
	Order no.	Order no.
75/90 mm black	22 1000 01 0048	22 1000 01 0052
75/90 mm white	22 1000 01 0049	22 1000 01 0053
50/60 mm black	22 1000 01 0040	22 1000 01 0044
50/60 mm white	22 1000 01 0041	22 1000 01 0045



	Flat vent, lockable	Upright vent, 30°
	Order no.	Order no.
75/90 mm black	22 1000 01 0076	22 1000 01 0060
75/90 mm white	22 1000 01 0077	22 1000 01 0061
50/60 mm black	22 1000 01 0072	22 1000 01 0056
50/60 mm white	22 1000 01 0073	22 1000 01 0057



	Upright vent, 90°	Fitting
	Order no.	Order no.
75/90 mm black	22 1000 01 0068	-
75/90 mm white	22 1000 01 0069	-
50/60 mm black	22 1000 01 0064	-
50/60 mm white	22 1000 01 0065	-
black Ø 90 mm	-	22 1000 01 0037
black Ø 75 mm	-	22 1000 01 0036
black Ø 60 mm	-	22 1000 01 0035
black Ø 50 mm	-	22 1000 01 0034
Air control element		Inner diameter of fitting can be reduced with the air control element
Ø 75 mm	22 1000 01 0080	
Ø 90 mm	22 1000 01 0081	

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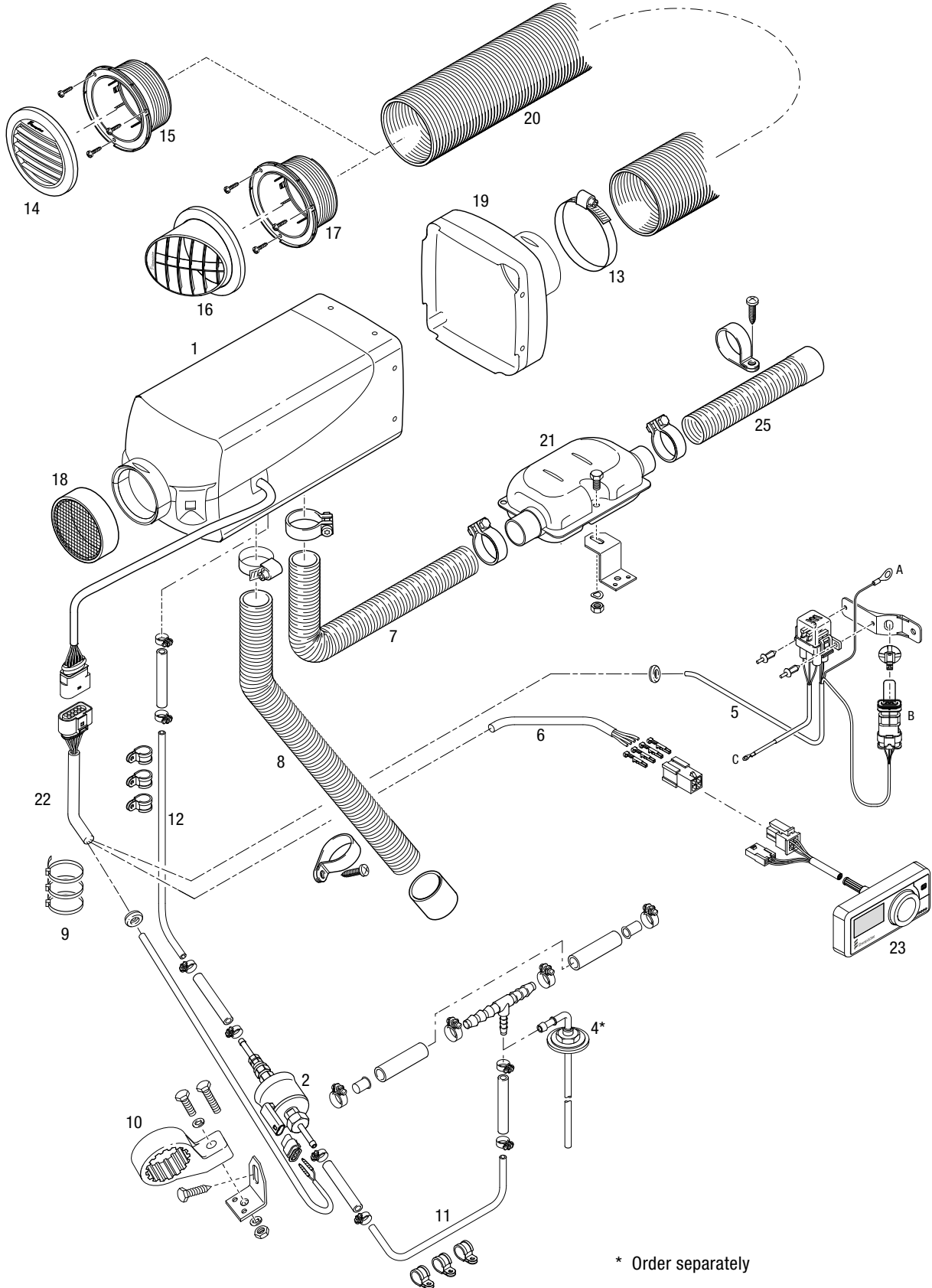
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3 | Product package Airtronic S2 & M2

Heater, installation kit and additional parts



* Order separately

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Heater – product package:	
1	Heater
2	Metering pump
Universal installation kit 25 2720 80 0000:	
5	Cable harness, pos. / neg. (included with Item 22)
6	Cable harness, operation (included with Item 22)
7	Flexible exhaust pipe, length 900 mm
8	Combustion-air hose, 1 m long
9	Cable tie (2 x 10)
10	Mounting bracket, metering pump
12	Pipe, 4 x 1.0 (7.5 m long)
21	Exhaust silencer
22	Wiring harness, heater
25	Flexible exhaust pipe with end piece
To be ordered separately:	
4	Fuel extractor
13	Hose clip (1x)
14	Vent, 30°, Ø 75 mm / Ø 90 mm
15	Fitting, Ø 75 mm / Ø 90 mm
16	Upright vent, 30°, Ø 60 mm
17	Fitting Ø 60 mm
18	Grille
19	Air scoop
20	Flexible pipe

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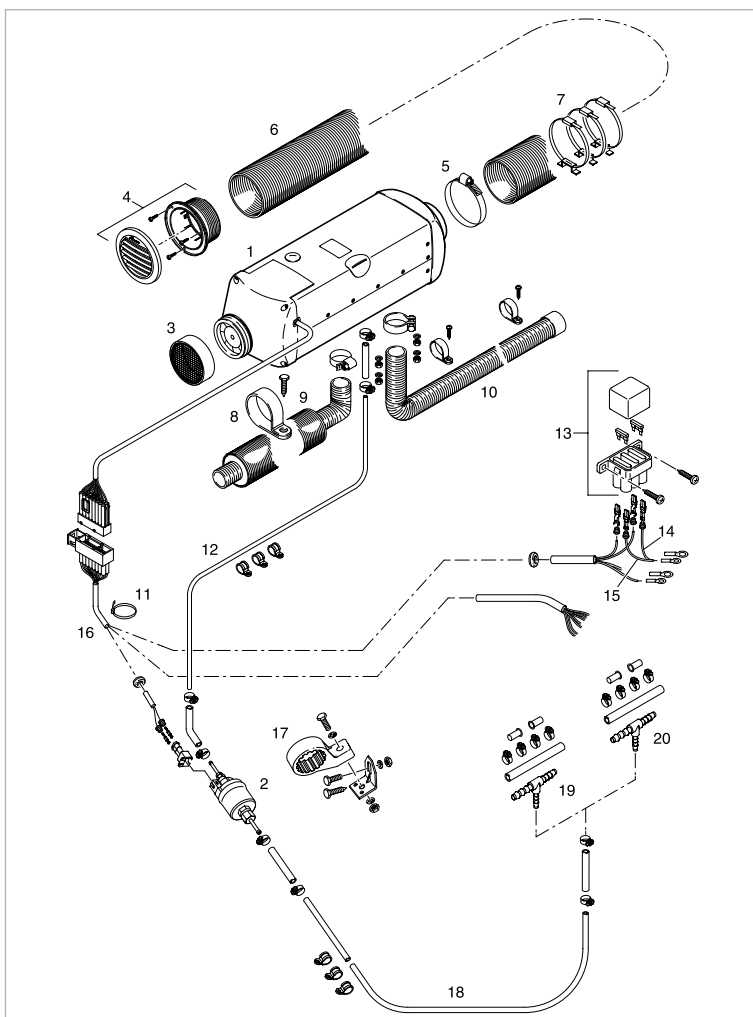
3 | Product package Airtronic L

Heizgerät, Einbausatz und Zusatzteile

Air heaters	Heater	Universal IK
Airtronic L – B5, 12 V	20 1859 05 0000	25 2361 80 0000
Airtronic L – D5, 12 V	25 2361 05 0000	
Airtronic L – D5, 24 V	25 2362 05 0000	

Please note:

- See page 50 for control units.
- Parts with no image number are small parts which are bagged.
- If the installation requires additional parts, see page 81.



Heater – Product package:

- | | |
|---|------------------|
| 1 | Airtronic heater |
| 2 | Metering pump |

Universal installation kit – Product package:

- | | |
|----|-----------------------------------|
| 3 | Grille, Ø 90 mm |
| 4 | Flat vent, 30° with 90 mm fitting |
| 5 | Hose clip, Ø 90 mm – 110 mm (2 x) |
| 6 | Flexible hose Ø 90 mm |
| 7 | Bracket (3x) |
| 8 | Pipe clip, Ø 50 mm |
| 9 | Intake silencer |
| 10 | Flexible exhaust pipe Ø 24 mm |
| 11 | Cable tie 200 (2 x 10) |
| 12 | Fuel pipe, 4 x 1.25, 7.5 m long |
| 13 | Fuse holder |
| 14 | Plus cable, 1 ² rt |
| 15 | Plus cable, 4 ² rt |
| 16 | Cable harness |
| 17 | Mounting bracket, metering pump |
| 18 | Fuel pipe, 6 x 2, 1.5 m long |
| 19 | Hose connector 8 / 6 / 8 |
| 20 | Hose connector 10 / 6 / 10 |

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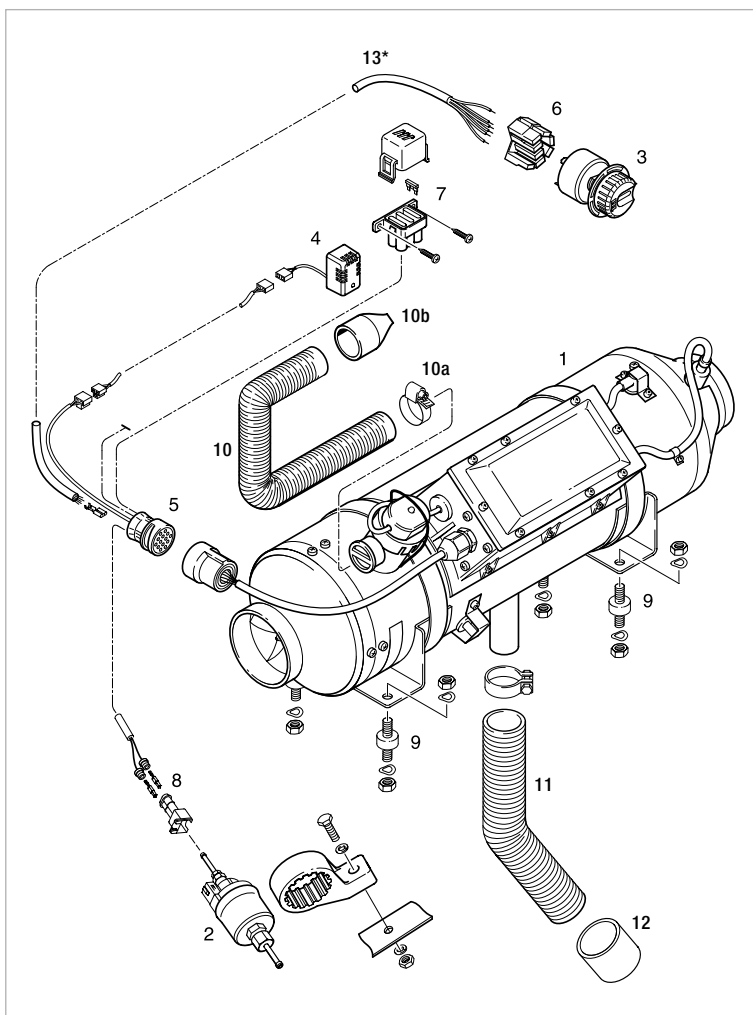
3 | Product package air heater D8 LC

Heizgerät, Einbausatz und Zusatzteile

Air heaters	Heater
D8 LC, 12 V	25 1890 00 0000
D8 LC, 24 V	25 1891 00 0000

Please note:

- See page 50 for control units.
- Parts with no image number are small parts which are bagged.
- If the installation requires additional parts, see page 81.



Heater – Product package:

1	Heater, pre-mounted
2	Metering pump with integrated fuel filter and mounting bracket
3	Control unit
4	Temperature sensor, external
5	Cable harness with connection parts
6	Bushing connector housing with connection parts
7	Blade fuse with fuse holder
8	Bushing connector housing with busing connectors and seals (2 x)
9	Rubber-metal buffer with fastening parts (4 x)

Not included in product package:

10	Combustion air hose	10 2114 25 0000
10a	Hose clip	10 2067 03 2050
10b	End sleeve for combustion-air hose	25 1480 89 0400
11	Flexible exhaust pipe LW42	360 61 381
12	End sleeve for flex. exhaust pipe LW42	22 1000 40 0200
13*	Cable harness, control unit	

* Self-assembly with the 5 m cable harness (Order no. 22 1000 30 0300). Cut the existing connectors off the cable harness. Prepare the cable strands for the bushing connectors and fit them. The bushing connectors are included in the product package. Connect the cable harness to the cable harness connector (5) and to the bushing connector housing of the control unit (6) following the circuit diagrams at the end of the documentation.

3 | Guide numbers

Airtronic S2 Commercial

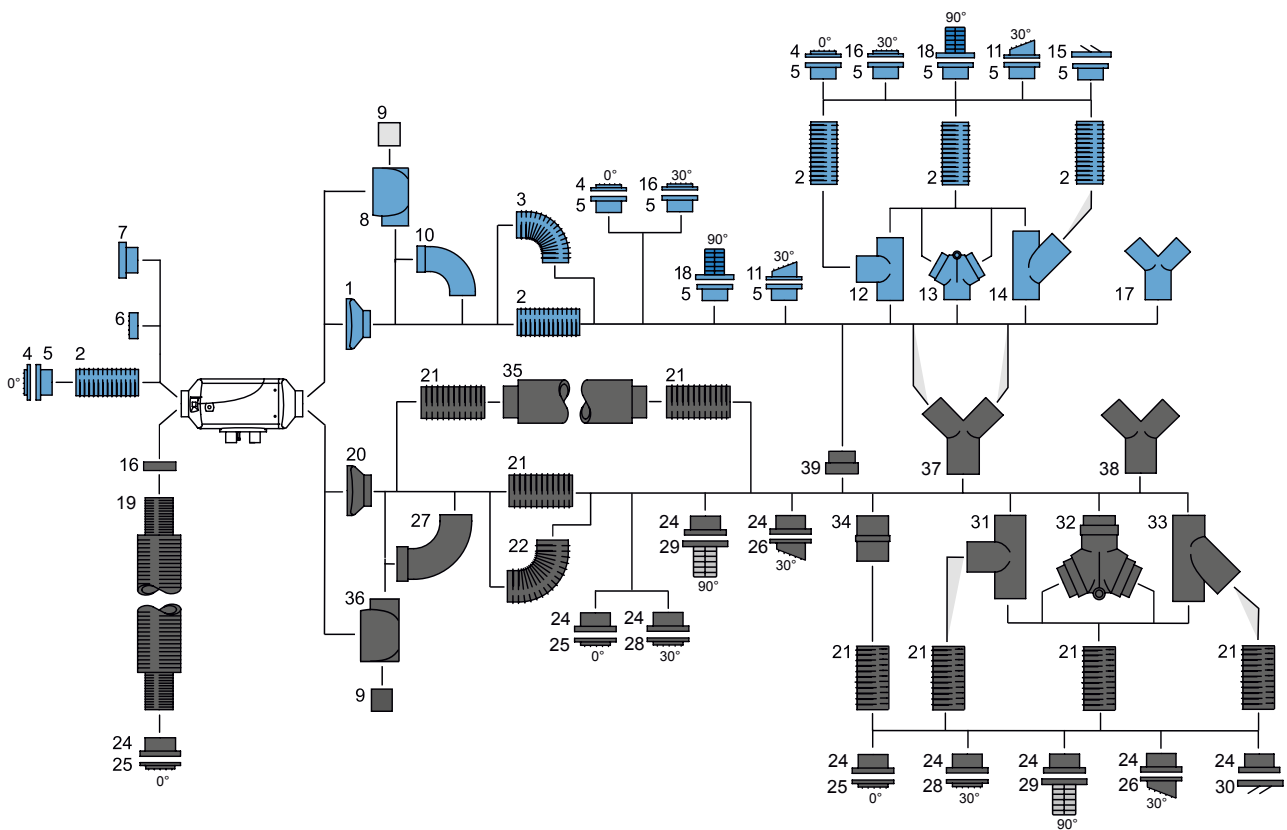
Heater number **6** – with Ø 60 air scoop

Heater number **12** – with Ø 75 air scoop

The drawing shows the application options for the main air ducts.
There are no installation examples.

Please note:

For an explanation of one- and two-duct heating-air ducting, see page 118.



- = Ø 50 mm
- = Ø 60 mm
- = Ø 75 mm

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No.	Name (Dimensions in mm)	Line guide number 1-duct	Line guide number 2-duct	See series no. sec. 8 air-conducting parts
Heating-air duct with Ø 60 scoop (heater guide number 6)				
1	Scoop, Ø 60	0	0	21
2	Flex. pipe Ø 60 per m	1.0	0.25	1
3	90° elbow, flexible pipe	0.6	–	–
4	Flat vent, 0° with Ø 60 fitting	0.5	0.1	13
5	Fitting, Ø 60	0	0	16
6	Heater grille, Ø 60	0	–	17
7	Air filter, Ø 60	1.6	–	5
8	Ball-shaped scoop, Ø 60	4.8	–	32
9	Ø 50 connection fitting for Ø 60 / Ø 75 ball-shaped scoops	4.5	–	31
10	Pipe elbow, 90° Ø 60	4	–	33
11	Upright vent, 30° with Ø 60 fitting	3.2	0.8	10
12	T-junction	1.4	0.25	35
13	Butterfly valve Ø 60 / 60 / 60 with "right / left" flap position	–	0.6	40
14	Y-junction	–	1	43
15	Closable vent Ø 50 / 60	–	–	12
16	Flat vent, 30° Ø 50 / 60	0.7	0.2	11
17	Symmetrical metal Y-junction Ø 60 / 50 / 50	–	0.3	42
18	Upright vent, 90° Ø 50 / 60	n / a	n / a	14
Heating-air duct with Ø 75 scoop (heater guide number 12)				
19	Adapter			
20	Scoop, Ø 75	0	0	21
21	Flex. pipe Ø 75 per m	1	0.25	1
22	90° elbow, flex. pipe, Ø 75	0.2	–	1
23	Intake silencer, Ø 75	0.7	–	4
24	Fitting, Ø 75	0	0	20
25	Flat vent, 0° Ø 75 / 90 with Ø 75 fitting	0.6	0.1	13
26	Upright vent, 30° Ø 75 / 90 with Ø 75 fitting	0.5	0.15	10
27	Pipe elbow, 90° Ø 75	4.5	–	33
28	Flat vent, 30° with Ø 75 fitting	0.5	0.15	11
29	Upright vent, 90° with Ø 75 fitting	0.8	0.15	14
30	Closable vent Ø 75 / 90 with Ø 75 fitting	0.6	0.2	11
31	T-junction Ø 75 / 75 / 75	–	0.8	35
32	Butterfly valve, Ø 75 / 75 / 75 Flap position "left / right" Flap position "center"	–	1.2	40
33	Y-junction Ø 75 / 75 / 75	–	0.6	43
34	Hose connector fitting, Ø 75	0.5	0.1	44
35	Silencer, Ø 75	0.6	–	3
36	Ball-shaped scoop, Ø 75	6	–	32
37	Symmetrical plastic Y-junction Ø 75 / 60 / 60	–	0.8	42
38	Symmetrical metal Y-junction Ø 75 / 50 / 50	–	0.9	42.1
39	Adapter Ø 75 – 60	3.2	–	45

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3 | Guide numbers

Airtronic M2 Commercial

Heater number **3** – with Ø 75 air scoop

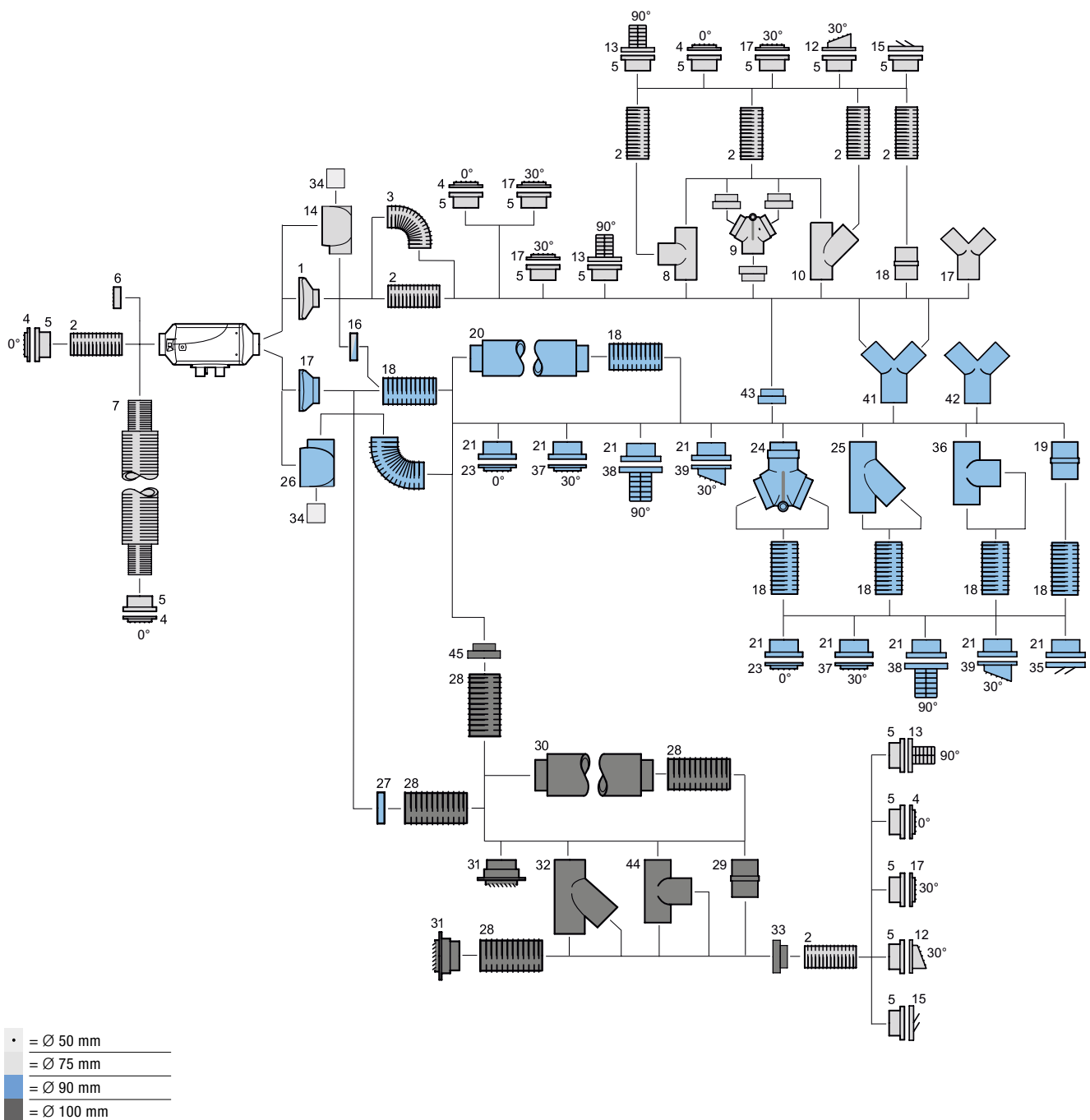
Heater number **10** – with Ø 90 air scoop

The drawing shows the application options for the main air ducts.
There are no installation examples.

* Heater guide numbers for the Airtronic M2 Recreational are different, see page 35.

Please note:

For an explanation of one- and two-duct heating-air ducting, see page 118.



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No.	Name (dimensions in mm)	Line guide number 1-duct		Line guide number 2-duct		See series no. sec. 8 air-conducting parts
		Ø 75	Ø 90	Ø 75	Ø 90	
Heating-air duct with a Ø 75 scoop (heater guide number 3)						
1a	Scoop, Ø 75	0	–	–	–	21
2	Flex. pipe Ø 75 per m	1	–	0.25	–	1
3	90° elbow, flexible pipe, Ø 75	0.2	–	–	–	1
4	Flat vent, 0° with Ø 75 fitting	0.4	–	0.1	–	13
5	Fitting, Ø 75	0.0	–	0.0	–	16
6	Grille, Ø 75	2.0	–	–	–	17
7	Intake silencer, Ø 75	0.8	–	–	–	4
8	T-junction, Ø 75	–	–	0.5	–	35
9	Butterfly valve Ø 90 / 90 / 90 with 75 / 90 adapters	–	–	1.8	–	40
10	Plastic Y-junction Ø 75 / 75 / 75	–	–	0.6	–	43
11	Flat vent, 30° with Ø 75 fitting	0.4	–	0.1	–	11
12	Upright vent, 30° with Ø 75 fitting	0.6	–	0.2	–	10
13	Upright vent, 90° with Ø 75 fitting	1.1	–	0.3	–	14
14	Ball-shaped scoop, Ø 75	2.0	–	–	–	32
15	Closable vent with Ø 75 fitting	–	–	–	–	12
16	Ring, Ø 75 / 90	0.5	–	–	–	34
17	Symmetrical plastic Y-junction Ø 75 / 60 / 60	–	–	0.9	–	42
18	Hose connector	0.5	–	0.1	–	44
Heating-air duct with Ø 90 scoop (heater guide number 10)						
1b	Scoop, Ø 90	–	0	–	–	21
18	Flex. pipe Ø 90 per m	–	1	–	0.25	1
19	Hose connector fitting, Ø 90	–	0.5	–	0.1	44
20	Silencer, Ø 90	–	0.7	–	–	3
21	Fitting, Ø 90	–	0	–	0	16
23	Flat vent, 0° with Ø 90 fitting	–	1.1	–	0.3	13
24	Butterfly valve, Ø 90 / 90 / 90	–	1.2	–	–	40
25	Y-junction Ø 90 / 90 / 90	–	–	–	0.3	43
26	Ball-shaped scoop, Ø 90*	–	5.0	–	–	32
27	Ring, Ø 90 / 100	–	0	–	–	34
28	Flexible pipe, Ø 100, per m	–	0.4	–	–	1
29	Hose connector fitting, Ø 100	–	0.1	–	–	44
30	Silencer, Ø 100	–	0.5	–	–	3
31	Rotatable vent Ø 100	–	2.1	–	0.5	11.1
32	Y-junction Ø 100 / 100 / 100	–	–	–	0.5	43
33	Adapter Ø 75 – 100	–	–	–	0.8	45
34a	Connection fitting 50x Ø 75	–	–	–	1.0	31
34b	Connection fitting 50x Ø 90	–	–	–	2.5	31
35	Closable vent with Ø 90 fitting	–	–	–	–	12
36	T-junction, Ø 90	–	–	–	0.6	35
37	Flat vent, 30° with Ø 90 fitting	–	2.0	–	0.4	11
38	Upright vent, 90° with Ø 90 fitting	–	2.7	–	0.3	14
39	Upright vent, 30° with Ø 90 fitting	–	2.4	–	0.6	10
40	90° elbow, flexible pipe, Ø 90	0.1	–	–	–	1
41	Symmetrical plastic Y-junction Ø 90 / 75 / 75	–	–	–	0.9	42
42	Symmetrical plastic Y-junction Ø 90 / 60 / 60	–	–	–	2.1	42
43	Adapter Ø 75 – 90	–	3.3	–	–	45
44	T-junction, Ø 100	–	–	–	0.4	35
45	Adapter Ø 90 – 100	–	0.4	–	–	45

* Cannot be used with the Airtronic D4 Plus



3 | Guide numbers

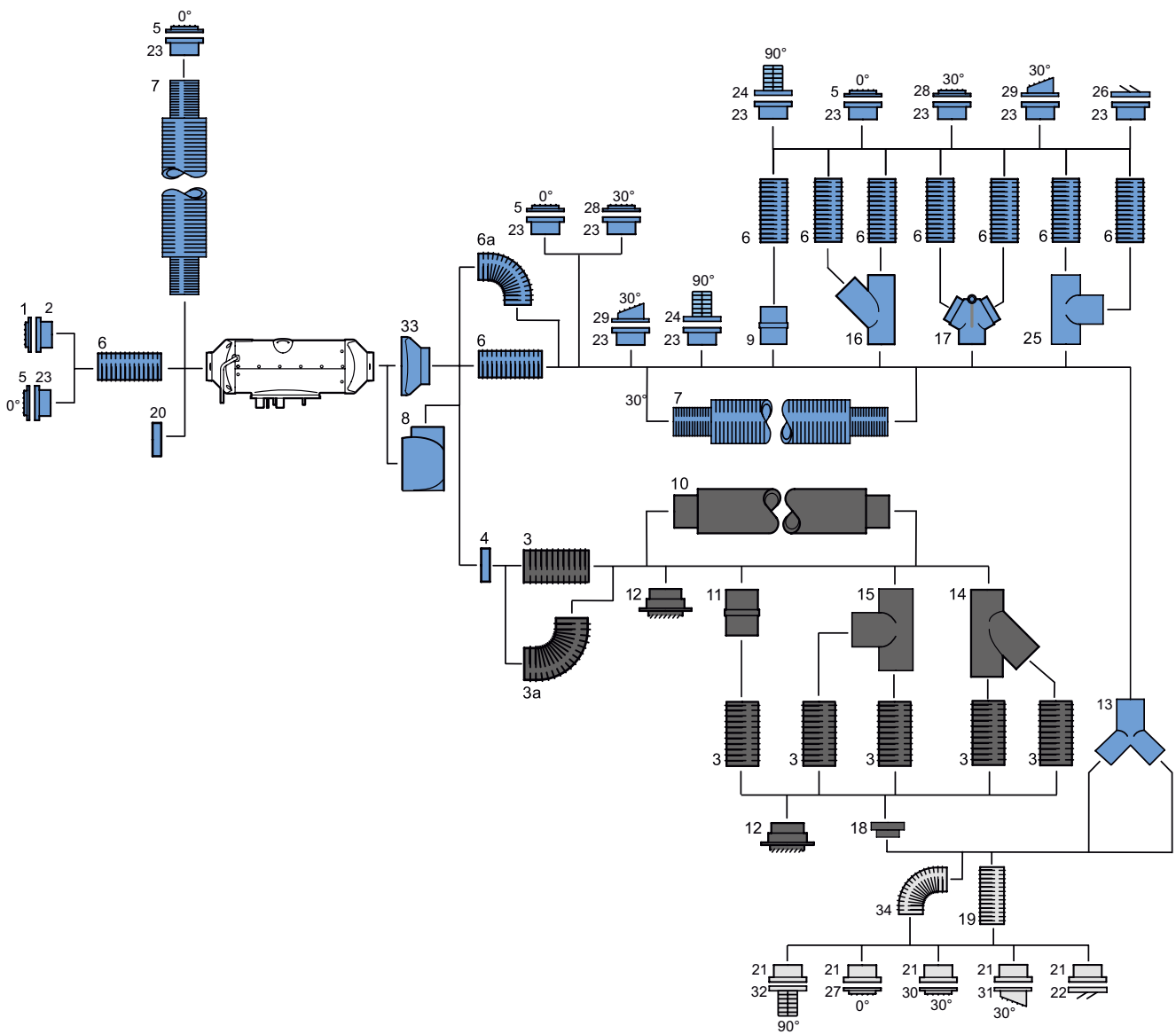
Airtronic L

Heater number 10

The drawing shows the application options for the main air ducts.
There are no installation examples.

Please note:

For an explanation of one- and two-duct heating-air ducting, see page 118.



- = Ø 75 mm
- = Ø 90 mm
- = Ø 100 mm

No.	Name (Dimensions in mm)	Line guide number 1-duct	Line guide number 2-duct	See series no. sec. 8 air-conducting parts
Heating-air duct with Ø 90 scoop (heater guide number 10)				
1	Metal grille vent Ø 90	0.6	0.2	13.1
2	Hose fitting Ø 90	0	0	18
3	Flexible pipe, Ø 100, per m	0.6	0.2	1
3a	90° elbow, flexible pipe, Ø 100	0.6	–	1
4	Adapter Ø 90 / 100	0	–	45
5	Flat vent, 0° with Ø 90 fitting	1	0.2	13
6	Flexible pipe, Ø 90, per m	1	0.25	1
6a	90° elbow, flexible pipe, Ø 90	0.2	–	1
7	Intake silencer, Ø 90	0.8	–	3
8	Ball-shaped scoop, Ø 90	8	–	22
9	Hose connector fitting, Ø 90	0.5	0.1	46
10	Silencer, Ø 100	0.5	–	3
11	Hose connector fitting, Ø 100	0.4	0.1	44
12	Flat vent, Ø 100, 30°	2	0.5	11.1
13	Symmetrical plastic Y-junction Ø 90 / 75 / 75	–	0.9	42
14	Y-junction Ø 100 / 100 / 100	–	0.5	43
15	T-junction Ø 100 / 100 / 100	–	0.5	35
16	Y-junction Ø 90 / 90 / 90	–	0.6	43
17	Butterfly valve, Ø 90 / 90 / 90	–	1.1	40
18	Adapter Ø 75 – 100	3.2	–	45
19	Flexible pipe, Ø 75, per m	4	1	1
20	Plastic heater grille, Ø 90	2	–	17
21	Fitting, Ø 75	0	0	16
22	Closable vent with Ø 75 fitting	–	–	12
23	Fitting, Ø 90	0	0	16
24	Upright vent, 90° with Ø 90 fitting	3	0.8	14
25	T-junction Ø 90 / 90 / 90	–	0.6	35
26	Closable vent with Ø 90 fitting	–	–	12
27	Flat vent, 0° with Ø 75 fitting	2.5	0.7	13
28	Flat vent, 30° with Ø 90 fitting	1.7	0.4	11
29	Upright vent, 30° with Ø 90 fitting	2.3	0.6	10
30	Flat vent, 30° with Ø 75 fitting	2.7	0.8	11
31	Upright vent, 30° with Ø 75 fitting	2.1	0.5	10
32	Upright vent, 90° with Ø 75 fitting	4.7	1.2	14
33	Scoop, Ø 90	0	0	–
34	90° elbow, flexible pipe, Ø 75	1	0.25	1

* Item 4 – when using the Ø 90 / 100 adapter, cut the grille

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3 | Guide numbers

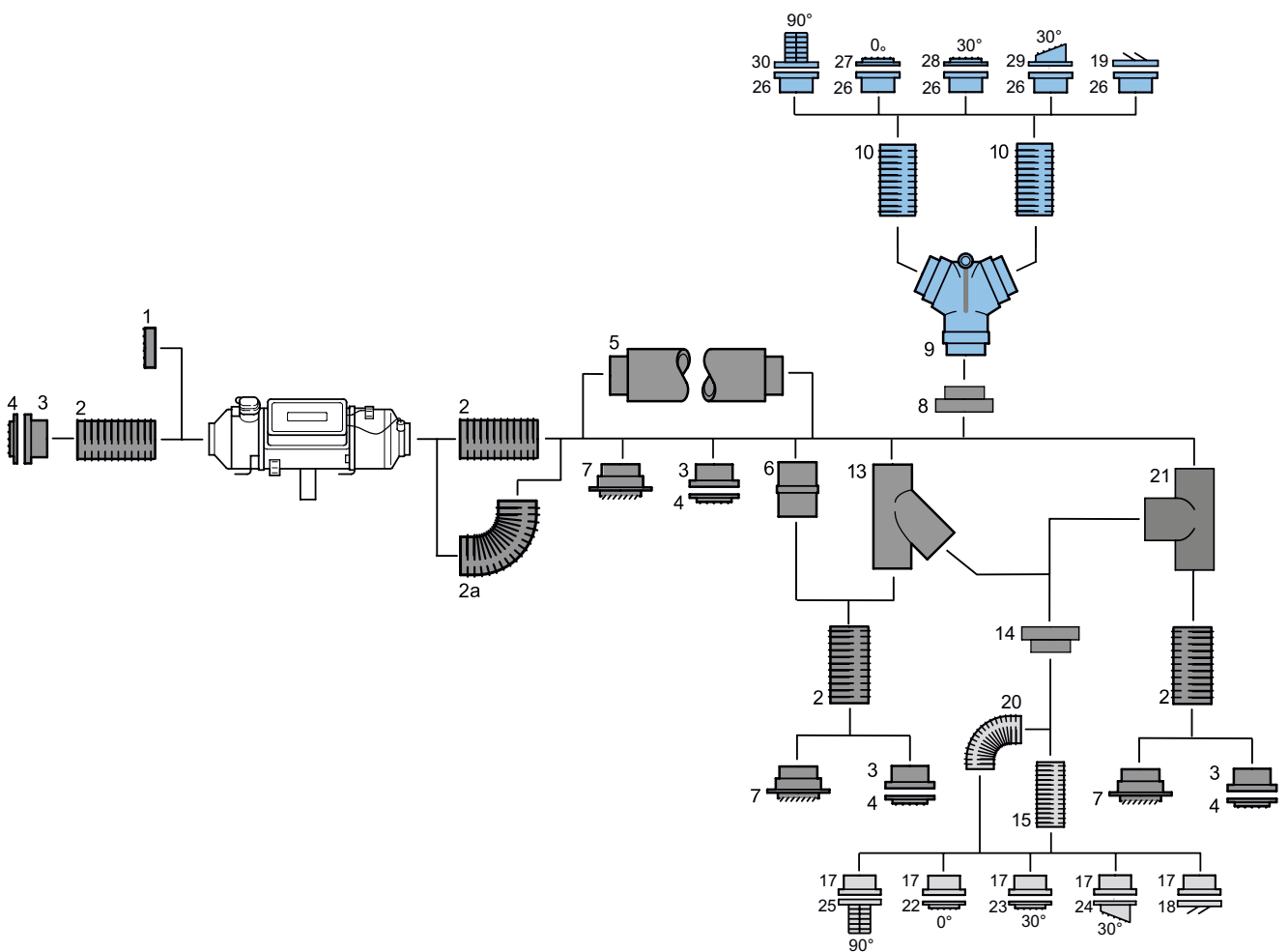
Air Heater 8 L

Heater number 8

The drawing shows the application options for the main air ducts.
There are no installation examples.

Please note:

For an explanation of one- and two-duct heating-air ducting, see page 118.



- = Ø 75 mm
- = Ø 90 mm
- = Ø 100 mm

No.	Name (Dimensions in mm)	Line guide number 1-duct	Line guide number 2-duct	See series no. sec. 8 air-conducting parts
Heating-air duct with Ø 100 scoop (heater guide number 8)				
1	Grille, Ø 100	0.1	–	17
2	Flexible pipe, Ø 100, per m	1	0.25	1
2a	90° elbow, flexible pipe, Ø 100	0.5	0.15	1
3	Metal hose fitting, Ø 100	0	0	18
4	Grille, Ø 100	1.8	0.1	13.1
5	Silencer, Ø 100	1.1	0.25	3
6	Hose connector fitting, Ø 100	0.5	0.1	44
7	Rotatable vent Ø 100	5.5	1.2	11.1
8	Adapter Ø 90 – 100	1.4	–	45
9	Butterfly valve, Ø 90 / 90 / 90	–	2.6	40
10	Flexible pipe, Ø 90, per m	3	0.8	1
13	Y-junction, Ø 100	–	0.4	43
14	Adapter Ø 75 – 100	6.1	–	47
15	Flexible pipe, Ø 75, per m	–	2	1
17	Fitting, Ø 75	0	0	16
18	Closable vent 75	–	–	12
19	Closable vent 90	–	–	12
20	90° elbow, flexible pipe, Ø 75	–	1.1	1
21	T-junction, Ø 100	–	0.2	35
22	Flat vent, 0° with Ø 75 fitting	–	1.3	13
23	Flat vent, 30° with Ø 75 fitting	–	1.5	11
24	Upright vent, 30° with Ø 75 fitting	–	1.6	10
25	Upright vent, 90° with Ø 75 fitting	–	1.8	14
26	Fitting, 90	0	0	16
27	Flat vent, 0° with Ø 90 fitting	–	0.8	13
28	Flat vent, 30° with Ø 90 fitting	–	1.1	11
29	Upright vent, 30° with Ø 90 fitting	–	1.1	10
30	Upright vent, 90° with Ø 90 fitting	–	1.3	14

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4 | Control units

Control units						
Model	Mini-Controller Control unit	EasyStart Select Control unit	EasyStart Remote Remote control	EasyStart Remote+ Remote control	EasyStart Pro Timer switch	EasyStart Web **/** Web-based remote control
Order number	22 1000 32 07 00	22 1000 34 13 00	22 1000 34 81 00	22 1000 34 17 00	22 1000 35 22 00	22 1000 34 78 00
Interface	S+	LIN	LIN, S+	LIN, S+	CAN	LIN, S+, CAN ¹
Basic Functions	w Heating / ventilation on / off		<ul style="list-style-type: none"> Heating / ventilation on / off Operating time adjustable 	<ul style="list-style-type: none"> Heating / ventilation on / off Long-press function for immediate heating A second / additional heater can be operated 		<ul style="list-style-type: none"> Heating / ventilation on / off Can be operated via all internet-compatible devices incl. voice assistant
Programming the timer	—	—	—	<ul style="list-style-type: none"> Three programming locations within seven days Selection of an individual day of the week or one of three time periods (Mon–Fri / Sat+Sun / Mon–Sun) 	<ul style="list-style-type: none"> Three programming locations within seven days Selection of individual days of the week or one of three time periods (Mon–Fri / Sat+Sun / Mon–Sun) 	<ul style="list-style-type: none"> Three programming locations within seven days Selection of individual days of the week or one of three time periods (Mon–Fri / Sat+Sun / Mon–Sun) <p>(only via CAN communication (EasyStart 7.1))</p>
Operating time settings	Continuous operation	60 min. preset	Adjustable 10, 20, 30, 40, 50 or 60 min.	Adjustable 10–120 min.; additionally endless with Airtronic	10–720 min. or endless	
Pre-ventilation*	Yes	Yes	No	Yes	Yes	Yes
Display Interior temperature	—	—	—	Yes	Yes	Yes
Range	—	—	Up to 1 km under optimum conditions		—	Unlimited (given network coverage)
Diagnostic capability	—	Display of fault number	—	Diagnosis via fault number in Workshop menu	Simple diagnostics in text form via User menu Diagnostics via Workshop menu	Simple diagnostics in text form via User menu Remote diagnostics via Workshop menu

The control unit's specific scope of functions depends on the heater and the connection type used (S+ / LIN / CAN).

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Control units						
Model	Mini-Controller Control unit	EasyStart Select Control unit	EasyStart Remote Remote control	EasyStart Remote+ Remote control	EasyStart Pro Timer switch	EasyStart Web **/** Web-based remote control

Specifics in connection with Hydronic heaters:

Residual heat function possible	—	—	—	—	Yes *	Depending on the heater type
Timer programming: automatic run time calculation	—	—	—	Yes	Yes	Yes
Manual high-altitude operation Hydronic S3 Economy (CS) possible	—	—	—	—	Yes	Yes

Specifics in connection with Airtronic heaters:

Lower air flow temperature can be set	—	—	—	—	Yes	Yes
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¹ The existing EasyStart Web 22 1000 34 51 00 can be upgraded to the CAN-compatible EasyStart Web 2019 via EasyScan.

* Depending on heater type

** End users can pre-book connectivity at standard cellphone rates for 12 months at a time at www.myeberspaecher.com

*** Network coverage available in the following countries: Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain and Northern Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Sweden, Switzerland, Turkey, Ukraine and Belarus.

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4 | Optional add-ons

Selection of control and display sensors

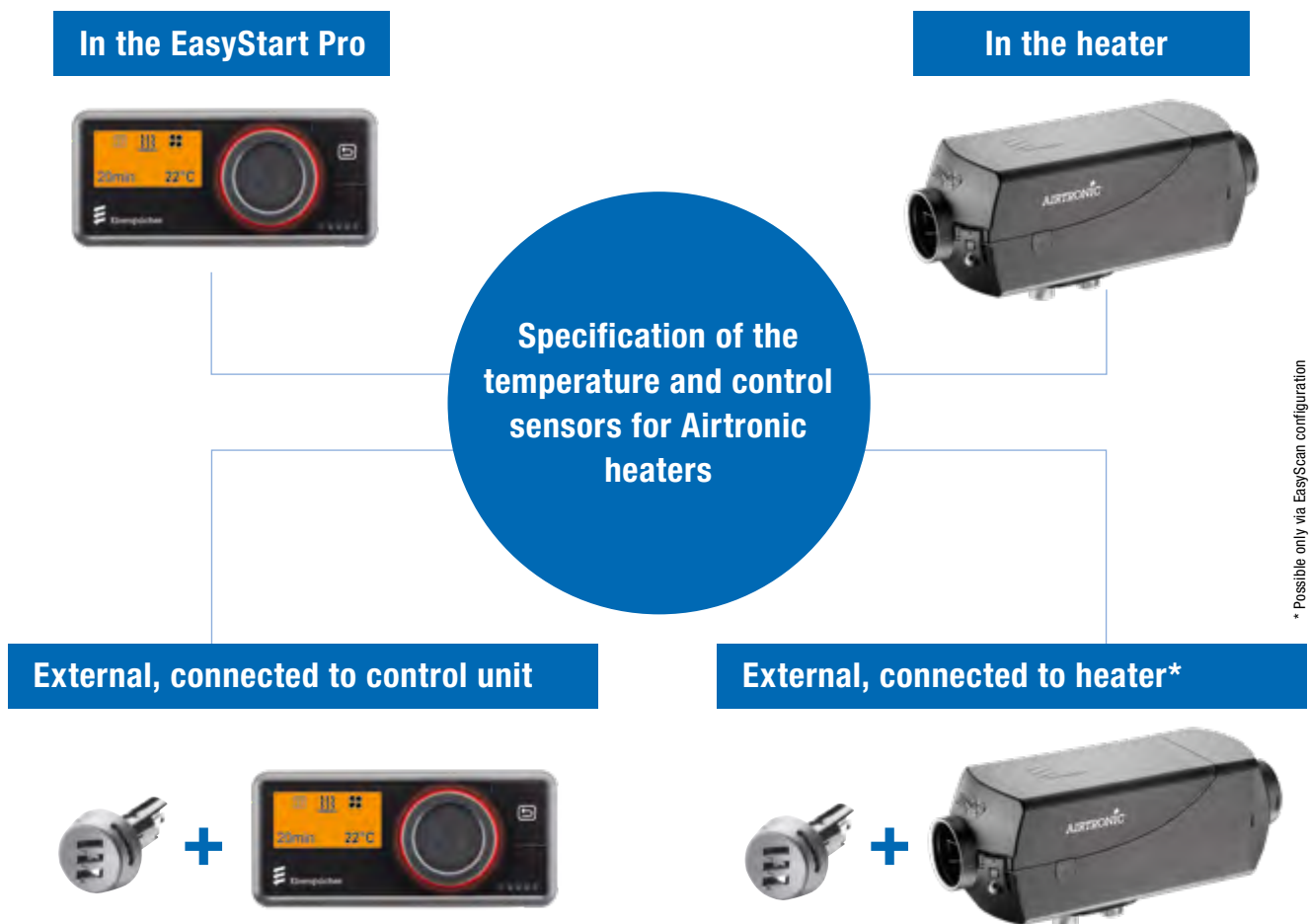
The EasyStart Pro has an integrated temperature sensor, which is used to determine the interior temperature. An exterior temperature sensor additionally can be connected and implemented in the system upon installation. The temperature sensor, which is built into the heater, can also be used by air heaters to determine the interior temperature. The sensors to be used for temperature control (control sensor) and for temperature display (display sensor) can be set via the EasyStart Pro during commissioning.

Specifics regarding fresh-air mode:

The control sensor must not be the internal heater sensor.

There are three options:

- Use of the integrated temperature sensor of the EasyStart Pro
- Connection of an external temperature sensor to the EasyStart Pro
- Connection of an external temperature sensor to the air heater














* Possible only via EasyScan configuration

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4 | Control units – compatibility with heaters

Control units							
Model	Airtronic Mini-controller	EasyStart Select	EasyStart Timer	EasyStart Remote Remote control	EasyStart Remote+ Remote control	EasyStart Pro	EasyStart Web **/*** Web-based remote control
Order no.	22 1000 32 07 00	22 1000 34 13 00	22 1000 34 15 00	22 1000 34 81 00	22 1000 34 17 00	22 1000 35 22 00	22 1000 34 78 00
Interface	S+	LIN	LIN, S+	LIN, S+	LIN, S+	CAN	LIN, S+, CAN ¹

Compatibility of control units with heaters

	Hydronic S3 12V CS Economy	–	–	S+ *	S+	S+ *	CAN	CAN
	Hydronic S3 24V CS Commercial	–	–	S+ *	S+	S+ *	CAN	CAN
	Hydronic S3 12V CL Economy	–	LIN	LIN	LIN	LIN	–	LIN
	Hydronic M II 12/24 V	–	LIN	LIN	LIN	LIN	–	LIN
	Hydronic L16, L24, L30, L35	–	–	S+ *	S+	S+ *	–	S+ *
	Airtronic S2/M2 12V Commercial	S+ **	LIN	LIN	LIN – no setpoint input possible	LIN	CAN	CAN
	Airtronic M2 12V Recreational	S+ **	LIN	LIN	LIN – no setpoint input possible	LIN	CAN	CAN
	Airtronic S2/M2 24V Commercial	S+ **	–	S+ * no setpoint input possible	S+ no setpoint input possible	S+ * no setpoint input possible	CAN	CAN
	Airtronic D2, D3, D4, D4+, B4 (1st Gen.)	S+	LIN	LIN	No setpoint input possible	LIN	–	LIN
	Airtronic D5, Airtronic B5	S+ *	LIN	LIN	LIN	LIN	–	LIN
	Air heater D8LC	–	–	–	S+ ***	S+ ***	–	S+ ***

¹ The existing EasyStart Web 22 1000 34 51 00 can be upgraded to the CAN-compatible EasyStart Web 2019 via EasyScan.

* With restricted function: diagnostics cannot be run via the control unit

** With restricted function: no external temperature sensor possible

*** Can be used only as an additional remote control to supplement the permanently installed control unit. No setpoint input possible.

4 | Combination options via CAN communication

Possible from Facelift Release 2 in 04/2020

Combination options for heaters and control units via CAN

1 × Hydronic



1 × Airtronic



EasyStart Web

EasyStart Pro

Individual or combined control units possible

2 × Hydronic



Controllable individually or as a group

2 × Airtronic



Controllable individually or as a group

1 × Hydronic + 1 × Airtronic



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4 | Control units – EasyStart web*



1. Advantages (functions):

- Pre-installed SIM chip
- Integrated antenna in the receiver allows for easy installation
- Three interfaces: CAN, LIN, switching plus (S+)
- Support of complex applications through a combination of up to two heaters and one additional CAN-compatible control unit (e.g. EasyStart Pro) – see Compatibility and Combinations section
- Display of error classes for the user
- Remote diagnostics by the workshop (must be approved by the end customer)
- Smartwatch compatibility and Alexa voice control
- High altitude operation can be activated manually above altitudes of 1,500 m in combination with the Hydronic S3 Economy CS
- Integrated residual heat function (when combined with Hydronic S3 CS)
- LIN and S+ interfaces permit flexible fuse for older heater generations as well

2. Further features:

- Use of all available networks for optimum connectivity
- No need to fit or replace a SIM card
- Roaming function enables use in other countries without additional costs
- Convenient, cost-effective pre-booking of a flat rate for 12 months at a time
- Intuitive operation with newly designed smartphone app
- Compatibility with all internet-enabled devices via wireless-optimized browser version
- Automatic calculation of the operating time (depending on application)
- Current status display (e.g. operational state, interior temperature and timer)
- Can be combined with other control units (depending on application)
- The heater can be flexibly controlled using a variety of control units (depending on application)

Technical data:

Order number		22 1000 34 78 00
Dimensions L x W x H (without fastening brackets)	mm	66 x 106 x 25
Protection rating		IP 40 to ISO 20653
Average standby current draw	mA	< 1
Current consumption during data transfer	A	< 0.5
Max. continuous current draw (during operation)	mA	< 30
Operating temperature	°C	-40 to +85
Wireless module		Quad-band GSM module (2G)

* Network coverage available in the following countries: Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain and Northern Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Sweden, Switzerland, Turkey, Ukraine and Belarus.

4 | Control units – EasyStart Pro



1. Advantages (functions):

- Intuitive navigation with control knob
- Integrated temperature sensor
- Operation of up to two heaters separately or two identical (Airtronic or Hydronic) heaters in a group
- Simple plain text diagnostics for users
- Detailed diagnostics function for the workshop
- Integrated residual heat function for Hydronic (CS) heaters: efficient heating using the engine's residual heat
- Altitude mode can be activated manually above 1,500 m (Hydronic S3 Economy (CS))
- Easy-to-read system status display (home screen)
- Timer function: up to three programming locations available
- Display and LED color ring for clearly indicating the status in all operating conditions
- Various installation variants possible (surface mounting with concealed or visible cable routing, flush mounting)
- Mounting-optimized ribbon cable
- Endless heater operating time can be set (Airtronic 2 and Hydronic S3 (CS))
- Menu operation available in English and German, as well as 25 other languages

2. Further features:

- Setup assistant simplifies installation
- Maintenance interval setting possible
- Immediate heating via the long-press function
- Integration of an additional CAN control unit possible: EasyStart Web (from Q2/2020) or additional EasyStart Pro
- Permanent display illumination possible
- ADR compliant
- Easy diagnostics via EasyScan; no disassembly required

Technical Data:

Order no.		22 1000 35 22 00
Dimensions L x B x H	mm	81.8 x 37.0 x 13.5 (without control knob) 81.8 x 37.0 x 18.6 (with control knob)
Protection rating		IP5K2
Average standby current draw	mA	< 0.4
Operating temperature	°C	-40 to +85

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4 | Service: EasyScan diagnostic and service tool

EasyScan – the new diagnostic and service tool for Eberspächer pre-heater systems:

EasyScan is the diagnostic and service tool for the future – it is the workshop's future-proof solution for challenges in the long term. The new tool is the successor to our existing diagnostics system EDiTH and accordingly, is backward compatible. Usually air and water heaters from 2007 and 2009, respectively, can be diagnosed.

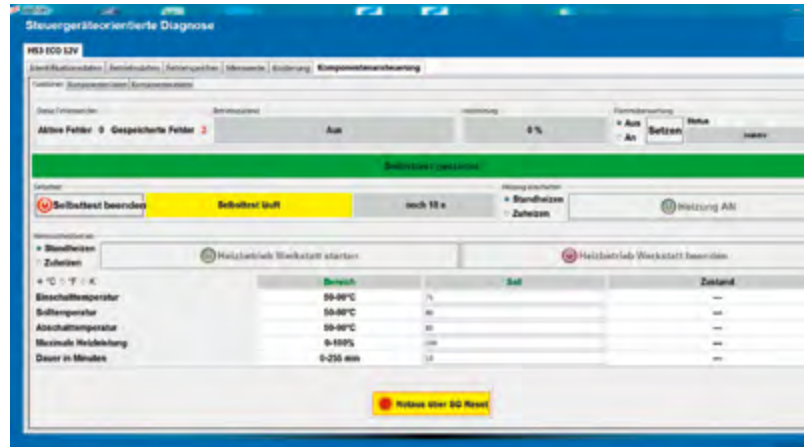


Fig.: Component or workshop test

1. Advantages (functions):

- New, modern, user-friendly interface
- Comprehensive evaluation of current operating status
- Error analysis of devices and components
- Error code output for heaters with CAN communication including additional system parameters
- Heating application function check
- Commissioning support for heating systems with CAN communication
- Integrated results log at the end of commissioning and for diagnostic sessions
- Existing heater adapters can continue to be used
- Direct link to the Eberspächer Partner Portal at any time
- Datasets can be installed, e.g. for the EasyFan Flap and Fan module, as well as EasyStart Web firmware updates

2. Further features:

- PC software is downloaded via the Partner Portal
- Alternative for installing and updating software locally from a data carrier
- Ongoing updates provided on the Partner Portal
- Product package: VCI, USB cable and Y adapter cable (connection for existing heaters and forthcoming applications)



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4 | Service: EasyScan diagnostic and service tool

Technical data:

Part number		22 1550 89 00 00
Compatibility		Air and water heaters Hydronic 1 (12 V), Hydronic 2, Hydronic 2 Commercial (12 V & 24 V), Hydronic S3 Economy (12 V), Hydronic M II (12 V & 24 V), Airtronic 2 (12 V & 24 V) and all future heaters
Temperature range	°C	-40 to +70
Dimensions L x W x H	mm	82 x 72 x 24
Protection rating		IP 20

PC system requirements:

- Standard PC or laptop with Windows 7 or later
- Hardware: Processor speed min. 1 GHz
- RAM: min. 1 GB (3 GB recommended)
- USB port
- OS: Windows 7 (32- + 64-bit, SP1) or later

Languages	DE / EN FR / IT / CZ / PL / CN / JP / KO / RU
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Fig.: Graphic representation of startup process

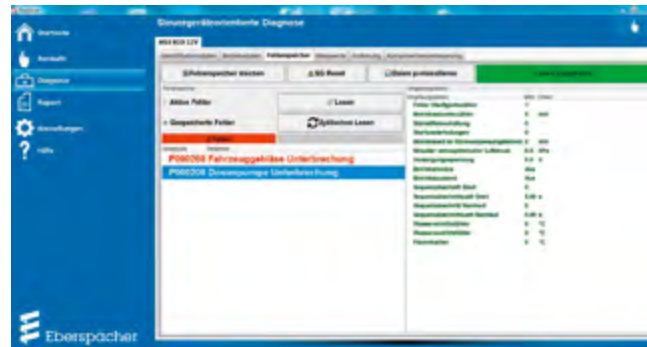


Fig.: Error memory readout

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4 | Service: Additional diagnostic devices

Eberspächer diagnostics options:

- **EasyScan:** requires PC, ISO adapter and software – see heater fault finding or EasyScan instructions on the Partner Portal
- **With EasyStart control units:**
See heater and control unit fault finding on the Partner Portal
- **With existing diagnostic devices 22 1512 89 00 00 and 22 1529 89 00 00 and with the new diagnostic device 22 1545 89 00 00**
See heater fault finding or diagnostic device instructions on the Partner Portal

Testing heaters using	EasyScan	CONTROL unit / diagnostic device
Full test without PC		x
Full test with PC	x	

EasyScan:

- Reads out general heater data, e.g. running times for function tests in the vehicle and on the test bench, parameter displays
- Individual component activation for components testing or line filling
- Hydronic S3 and Airtronic 2 heaters may be diagnosed in detail only with EasyScan, EasyStart Pro and EasyStart Web.

Diagnostic device 22 1545 89 00 00 is used for Hydronic 1, Hydronic 2 and Airtronic 1:

- If EasyScan and PC are not available
- If EasyStart Select, Timer, Remote, Remote+ or Web is not installed
- As a replacement for defective diagnostic devices 22 1512 89 00 00 and 22 1529 89 00 00

Diagnostic devices:

- For correct commissioning or rapid diagnostics in vehicles, without a diagnostics-enabled control unit
- If there is no PC
- Minimal installation

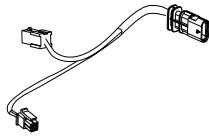
4 | Testing equipment

Testing equipment for heaters:



Designation	Item no.
EasyScan	22 1550 89 00 00
Diagnostic device (new timer)	22 1545 89 00 00

Current adapter cables:



Designation	Item no.
Hydronic I 3/4/5 kW	22 1000 31 63 00
Hydronic 2 Economy / Comfort	22 1000 33 78 00
Hydronic M-II	22 1000 33 44 00
Hydronic 2 (OEM)	22 1000 32 64 00
Airtronic 1 (D2/D3/D3 Plus/D4/D4 Plus)	22 1000 31 86 00
EasyFan / EasyStart Web	22 1000 34 57 00

Adapter cables for older heaters:



Designation	Item no.
Air heater compact	22 1000 30 69 00
Air heater C (D1L C DAF)	22 1000 30 20 00
D9W, Hydronic 10 (old diagnostic timer)	22 1000 30 05 00
D9W, Hydronic 10	22 1000 31 83 00
Hydronic 10 (25 2161/25 2162)	22 1000 32 52 00
Hydronic 16/24/30/35	22 1000 31 66 00
D1/3LC MAN	22 1000 30 32 00
Hydronic 30 Neoplan	22 1000 31 16 00
D1LC/D1LC compact RVI	22 1000 31 23 00
D1/3LC compact DAF	22 1000 31 21 00

* Diagnostic function using EasyScan depends on the diagnostic device or diagnostic protocol of the heater.

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5 | Fan and flap module EasyFan

EasyFan – the new fan & flap module for Hydronic 1, 2 and S3 Economy in passenger car applications:

The Fan & Flap module EasyFan is a product developed in-house for activating vehicle fans and air and heating flaps. As a customer you will benefit from the usual high-quality Eberspächer support and well-maintained data.



1. Advantages (functions):

- Automatic activation of vehicle fan and air and heating flaps: no need for the user to set the fan or flaps to “Defrost” in the vehicle before the heating process
- All previously selected fan and flap settings are automatically restored after the heating process or after the engine has started
- For Hydronic 1, 2 and S3 Economy, delivered pre-programmed for vehicle-specific installation
- Automotive electronics fault protection: no physical connection between product and CAN unless the ignition is switched off, otherwise automatic cutoff

2. Further features:

- Vehicle-specific EasyFan modules are available for a wide range of cars and A/C versions
- Impress customers who own the following brands of car: Audi, BMW, Citroen, Dodge, Fiat, Ford, Honda, Infinity, KIA, Land Rover, Mazda, Mercedes-Benz, Nissan, Peugeot, Renault, Seat, Skoda, Subaru, Toyota, VW

As always, for more details please visit:

partner.eberspaecher.com

- Input signal:
 - EasyFan is activated via the fan output or a CAN message from the heater
- Output signal:
 - Fan and flap settings are controlled via CAN messages to the climate control unit
 - Two hardware versions for high- and low-speed CAN are available to accommodate the various car bus systems on the market.



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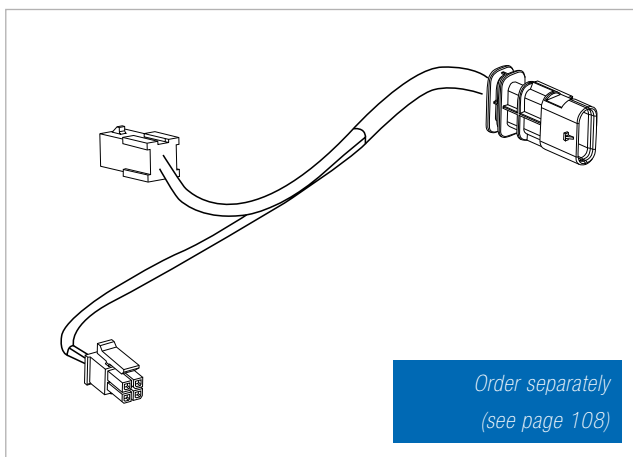
Technical data:

Programmed versions	For part numbers, see the vehicle-specific A/C kit on the Partner Portal	
Current draw	mA	50
Closed-circuit current	mA	0.1
Protection rating	IP 40	
Operating temperature	°C	- 40 to +85
Dimensions L x W x H (with fastening brackets)	mm	72 x 76 x 23

EasyFan Programmierkabel

Required for programming EasyFan modules.

Order no.: 22 1000 34 57 00



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5 | A/C kit with IPCU for controlling the vehicle's fan

The IPCU is part of the A/C kit:

A/C kits should be installed first!

OPTIONS:

- See installation recommendations / Service Portal as to whether A/C kit is available
- If there is no A/C kit, see Service Portal:
- IPCU programming list (Download area)
- Call the Technical Hotline

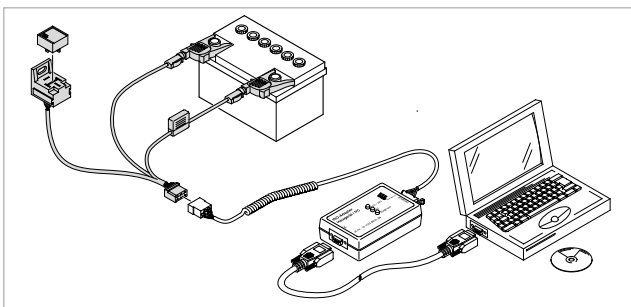
WARNING:

- Taking measurements requires specialist knowledge in automotive electronics
- Taking measurements requires the vehicle manufacturer's circuit diagrams
- We can accept no liability for measuring errors which result in permanent damage to the vehicle's air-conditioning system and / or measuring devices and diagnostics equipment

Programming options with EDiTH Basic:

Adapter cable for IPCU configuration

Order no.: 22 1000 32 74 00



Introduction to taking measurements with the relevant instruments:

Universal multimeter with frequency meter and duty cycle or an oscilloscope (workshop equipment).

TAKING MEASUREMENTS:

- Preselect voltage meter measuring range minimum U3; measure according to circuit diagram
- Switch on ignition
- Change fan speed using A/C control unit
- If the voltage is changeable between 0 – 5 V or 0 – 10 V: voltage divider, choose a low fan speed, note voltage values

No clear change:

- Switch fan to 0, measure direct current in voltage range
 - Voltage to battery: **Low activity** or
 - 0 V: **High activity**, note
- **Important: do not exceed maximum voltage!**
- Switch to frequency measurement, **read and note frequency**
- Select low fan speed, switch to duty cycle and note **duty cycle in %**
- Choose a fan speed that puts the duty cycle at ~50 %, switch the measuring device to minimum U13, **read voltage, multiply by 2 and note**

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6 | The benefits for workshops

Robust design, high-performance, sophisticated technology: Eberspächer fuel heaters have made a name for themselves around the world. For every application, our innovative heating technology ensures an extremely comfortable degree of warmth as soon as the driver or passengers enter a vehicle. Use our products for the benefit of your customers – and therefore to your advantage. We have summarized the most important reasons why both you and your customers should choose Eberspächer.

More turnover and better workshop utilization:

Selling pre-heaters is a high-margin alternative to conventional workshop business. Make the best possible use of this opportunity to increase your workshop's utilization.

Potential:

More than 90% of customers who have bought a pre-heater would opt for this extra again with their next vehicle.

Partnership:

As an Eberspächer Partner you are comprehensively trained so that you have all the necessary know-how on Eberspächer pre-heaters. You also have access to our Web portal where you can obtain important information such as installation recommendations, prices and catalogs. At the start of the season you receive our comprehensive advertising package.

Here's how you can support sales internally:

- Your customer will only buy something he knows and loves. That means your demonstration vehicles should have a pre-heater too!
- Motivation is everything: in the run-up, make sure that your salespeople are fired up and fully-versed on the subject of pre-heaters.
- To make sure they close the deal: provide your employees with impressive sample calculations for available leasing and finance offers.
- Go for maximum impact: drive the advertising message on your homepage, in your newsletter or with direct mail too.

So when you're planning, here are the key areas to consider:

- Provide your sales team and your parts and service managers with campaign information in good time.
- Set out which vehicle models the promotional package can be offered for.
- Make sure you provide a careful calculation of the package price.
- Order our advertising materials and use them for optimum effect at your premises.
- Make sure you have the necessary parts in stock!
- Check that your pre-heater workshop knowledge is up-to-date and if you need a refresher, use the training provided by your distributor and Eberspächer.
- Together with your team, work through a guideline for your sales discussions. Next – some compelling arguments!

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6 | The benefits for end customers



Customer benefits for car owners:

- Not only do you no longer have to waste time scraping the ice off the windows in the morning – a pre-heater also ensures you have a pleasantly warm car to get into after playing sports, having a wellness treatment, or spending an evening at the movies or theater. A pre-heater is also a true status symbol which every high-end car should have.
- The Eberspächer pre-heater ensures that your windows are thawed in time for you to leave, and do not fog up. A clear view of the road and no need to wear a thick winter jacket at the steering wheel – for real safety!
- A cold start puts as much of a burden on the engine as many miles of highway driving. A modern pre-heater prevents this, because it heats not only the interior but also the engine via the cooling circuit. The extremely wear-inducing cold-start phase is avoided, which helps to maintain the vehicle's value.
- An engine warmed by a pre-heater consumes considerably less fuel when starting and for the first few minutes of a journey, because the cold-starting or warm-up phase described earlier does not occur.
- Pollutant emissions during a warm start are lower than during a cold start. This not only eases people's conscience, but also specifically protects the environment.
- Winters at our latitudes last much longer than we realize. Ice in April is not unusual! And the thermometer often drops below zero as early as October. On hot summer days, just select pre-ventilation and you can keep your car supplied with fresh outside air while it is parked as well.



Customer benefits for motor home owners:

- The heater is supplied with fuel from the vehicle's fuel tank so the customer needn't worry about gas bottles and connections when traveling abroad.
- Eberspächer heaters feature low fuel and electricity consumption.
- The heating can be conveniently operated using presets, remote control or smartphone.
- Eberspächer fuel-operated heaters are now even quieter.
- Compared to competitor products, Eberspächer products permit space-saving installation underfloor or in the engine compartment in addition to interior installation.
- Heating is permitted worldwide even while – without additional components.
- The heater's design is particularly easy to service and maintain.

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Customer benefits for special-purpose vehicle owners:

- Lower operating costs due to high efficiency.
- Reliable starting even in low temperatures
- Comfortable temperatures in mobile workplaces and optimum temperature control for storage compartments.
- Eberspächer fuel-operated heaters are now even quieter.
- The heater is installed in the motor home interior. Space-saving underfloor installation or in the engine compartment is also possible.
- The heater's design is particularly easy to service and maintain.



Customer benefits for boat owners:

- Eberspächer heaters feature low fuel and electricity consumption.
- The heater provides exactly the climate you want in the cabin.
- You can operate your heater conveniently using the controller, presets or phone.
- Eberspächer fuel-operated heaters are now even quieter.
- You need not sacrifice any room in the cabin in order to install the heater as they can be housed in any space with good external ventilation, e.g. in the storage locker, the cockpit or other storage areas.
- The heater's design is particularly easy to service and maintain.
- It also provides hot water for your shower or general use



7 | Water-conducting parts

General information:

- Install water pumps no higher than the heater and preferably lower.
- All water lines for heaters must always be below the engine's coolant level.
- When installing a water heater, always use water hoses approved for use with vehicles, otherwise there is a danger of parts of the hose becoming flattened or layers of the hose perishing, blocking the water circuit.
- Always secure water hoses with hose clips at connections.
- Always route water hoses so that they are not affected by moving parts and cannot be chafed. Pay particular attention to the heavy vibration caused by switching the engine on and off.
- Always use a large radius when routing water hoses to prevent kinking, and do not leave hoses hanging loose.
- Protect water hoses from intense heat or even contact with hot engine parts, e.g. the exhaust pipe.
- Always vent the whole water circuit of a vehicle after any assembly operation.
- Please also refer to the safety information on this section in the heater documentation.

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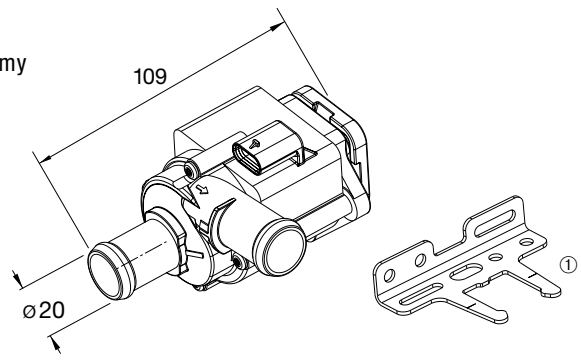
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NEW!

Water pump 12V for Hydronic S3 Economy



①
See page 125 for mounting bracket

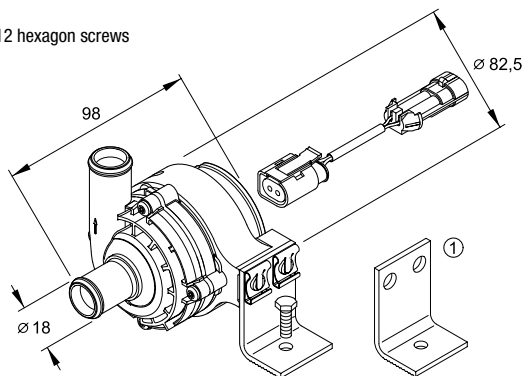
~ = Compatible only with Hydronic S3 Economy

12 V ~
~
Mounting bracket for water pump

Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
			25 2652 25 00 00
			25 2652 25 00 00

Water pump

with mounting bracket installed, adapter cable, M6x12 hexagon screws
Water flow rate 850 l / h at 0.1 ba



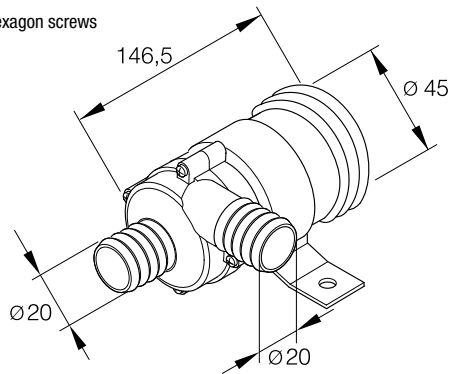
①
See page 125 for mounting bracket

12 V

25 2217 27 00 00

Water pump

with mounting bracket installed, adapter cable, M6x12 hexagon screws
Water flow rate 850 l / h at 0.1 bar



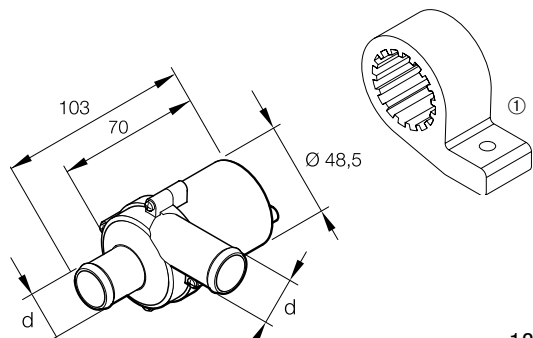
24 V

25 2009 25 00 00

NEW!

Flowtronic 800 S water pump

Water flow rate 820 l / h at 0.1 bar



①
See page 71 for mounting bracket

~ = Usable exclusively for Hydronic 1 and Hydronic 2 models; for Hydronic S3 Economy (12V): configuration via EasyScan required (specification as an uncontrolled pump)

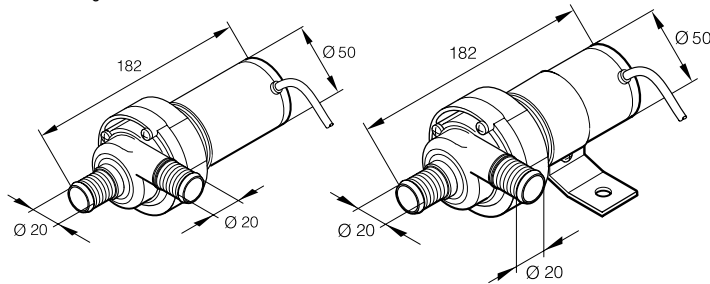
12 V, d = 20 mm ~
24 V, d = 18 mm ~
~
Mounting bracket for water pump

Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
			25 2275 25 00 00
			25 2218 25 00 00
			22 1000 50 07 00

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7 | Water-conducting parts

Flowtronic 1200 S water pump
 With magnetic coupling, 200 mm long cable harness
 12 V without mounting bracket, 24 V with mounting bracket
 Water flow rate 700 l/h at 0.3 bar



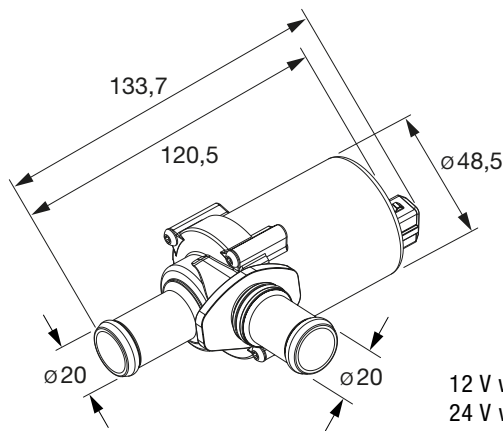
12 V without mounting bracket, cable harness without connector housing
 24 V with mounting bracket installed, cable harness with flat connector housing

Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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■			25 1815 25 01 00
■			25 1928 80 02 00

NEW!

Flowtronic 1400 water pump
 1,400 l/h at 0.15 bar

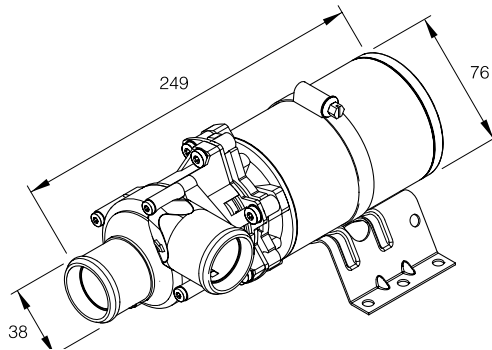


* For Hydronic S3 Economy (12V):
 configuration via per EasyScan required
 (specification as an uncontrolled pump)

12 V without mounting bracket ~
 24 V without mounting bracket ~

			25 2434 27 01 00*
			25 2435 27 01 00

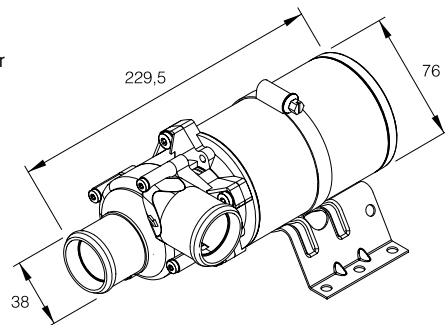
Flowtronic 5000 S water pump
 With magnetic coupling and mounting bracket
 Water flow rate 5,200 l/h at 0.2 bar



24 V

■			25 1818 30 00 00
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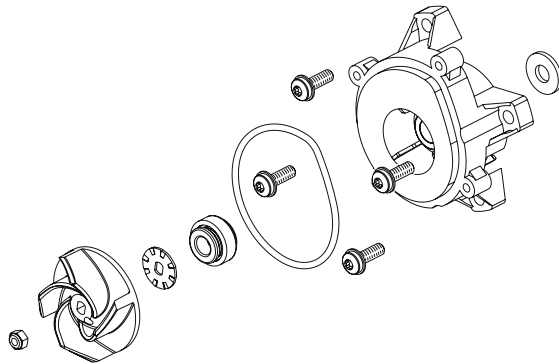
Flowtronic 5000 water pump
 With mounting bracket, water flow rate 5,200 l/h at 0.2 bar



24 V

■			25 2488 26 00 00
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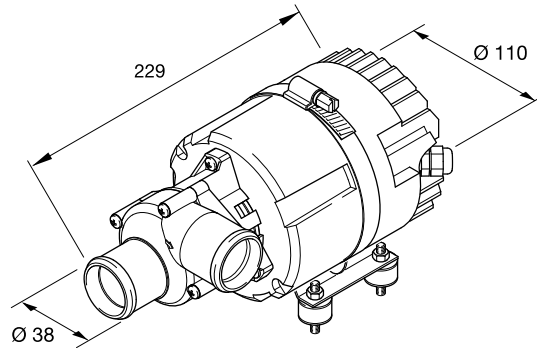
Flowtronic 5000 spares kit
For water pump 25 2488 26 00 00



Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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25 2488 99 26 10

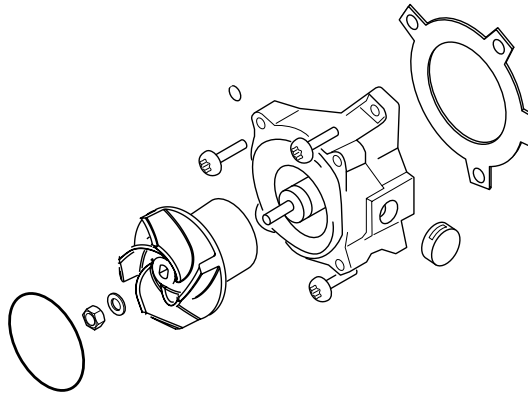
Flowtronic 6000 SC water pump
With magnetic coupling and mounting bracket
Water flow rate 6,000 l / h at 0.4 bar



24 V

25 2488 25 00 00

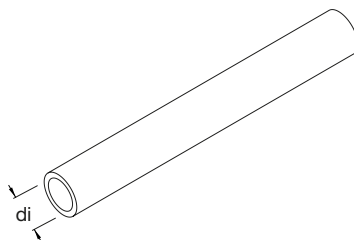
Flowtronic 6000 SC spares kit



25 2488 99 25 10

NEW!

Water hose
2 m straight (wall thickness 3.5 mm)



~ = 3.5 mm wall thickness permissible only for 12V passenger car applications

di = 20 mm, L = 2m

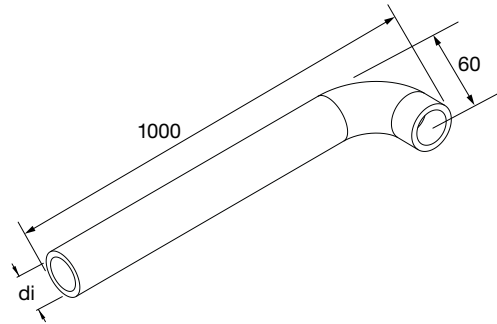
20 1673 80 00 06

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7 | Water-conducting parts

NEW!

Water hose
1 m curved (wall thickness 3.5 mm)



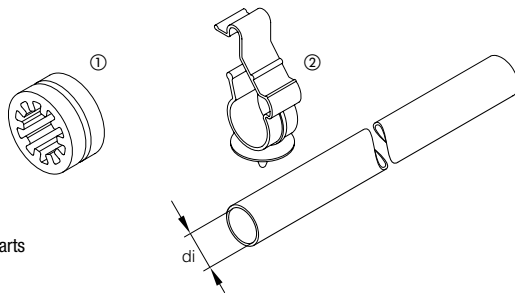
~ = 3.5mm wall thickness permissible only for 12V passenger car applications

di = 20 mm ~

Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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20 1673 80 00 05

Water hose
Wall thickness 4.5 mm



① See page 125 for spacer ring

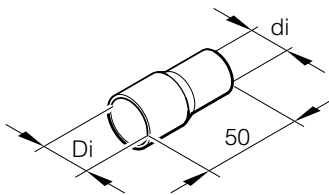
② See page 124 for water hose fastening parts

~ = Check connection diameter

di = 15 mm, L = linear m ~
 di = 18 mm, L = 2 m ~
 di = 20 mm, L = 2 m ~
 di = 38 mm, L = linear m ~

360 75 020
 360 75 407
 360 75 408
 360 75 413

Reducer hose

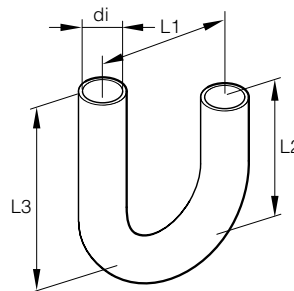


~ = Check connection diameter

Di = 20 mm, di = 15 mm ~
 Di = 20 mm, di = 18 mm ~
 Di = 22 mm, di = 18 mm ~

20 1533 88 00 04
 20 1528 88 00 02
 20 1645 89 00 08

Water hose

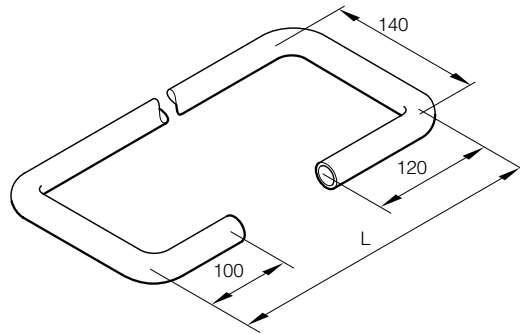


~ = Check connection diameter

di = 15 mm / 180°, L1 = 50 mm, L2 = 50 mm, L3 = 75 mm ~
 di = 20 mm / 180°, L1 = 50 mm, L2 = 50 mm, L3 = 83 mm ~
 di = 18 mm / 180°, L1 = 45 mm, L2 = 55,5 mm, L3 = 60,5 mm ~

20 1522 88 00 01
 20 1534 88 00 02
 360 75 043

Water hose



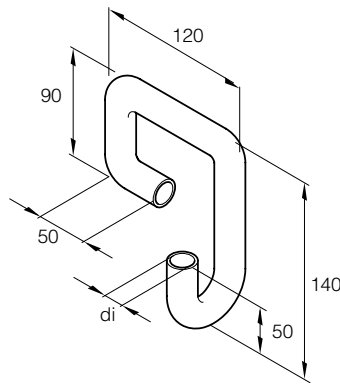
~ = Check connection diameter

- di = 18 mm, L = 500 mm
- di = 18 mm, L = 2000 mm
- di = 20 mm, L = 2000 mm

Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
-----------------------	-----------------------------	------------------------------	-----------

- 24 0132 00 00 01
- 20 1690 81 00 01
- 22 1000 10 01 06*

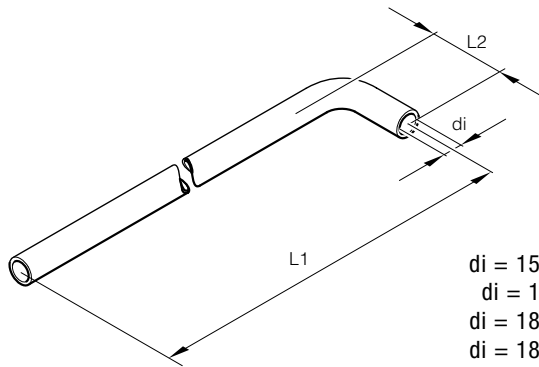
Water hose for shortening



- di = 20 mm

- 25 2526 80 01 02

Water hose
Wall thickness 4.5 mm

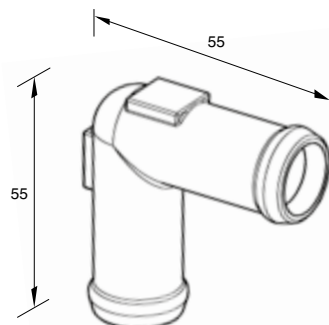


~ = Check connection diameter

- di = 15 mm, L1 = 1000 mm, L2 = 50 mm
- di = 15 mm, L1 = 500 mm, L2 = 50 mm
- di = 18 mm, L1 = 1000 mm, L2 = 50 mm
- di = 18 mm, L1 = 840 mm, L2 = 240 mm
- di = 20 mm, L1 = 120 mm, L2 = 60 mm

- 20 1528 88 00 01
- 20 1533 88 00 05
- 20 1645 80 00 01
- 20 1645 89 00 01
- 24 0310 80 00 02

NEW!
90° elbow
Plastic



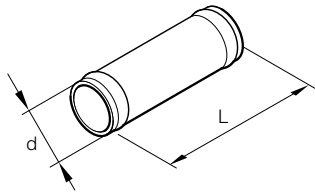
Connection dimension: 20 mm outer diameter

- 22 1000 10 26 00

7 | Water-conducting parts

NEW!

Connection pipe
Plastic



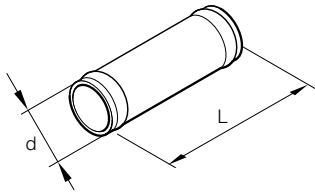
~ = Check connection diameter

d = 18 mm, L = 60 mm
d = 20 mm, L = 60 mm

Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
-----------------------	-----------------------------	------------------------------	-----------

22 1000 10 25 00
22 1000 10 01 03

Ventilation pipe
Brass

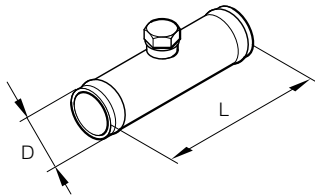


~ = Check connection diameter

d = 15 mm, L = 55 mm
d = 18 mm, L = 55 mm
d = 22 mm, L = 55 mm
d = 38 mm, L = 60 mm

20 1533 88 00 03
20 1528 88 00 03
20 1645 89 00 07
25 1214 89 00 21

Ventilation pipe
Brass



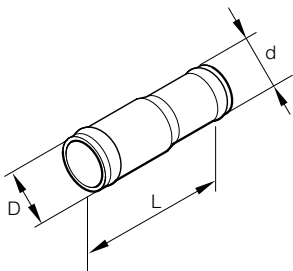
~ = Check connection diameter

D = 18 mm, L = 65 mm

20 1645 89 01 00

NEW!

Reducer
Plastic

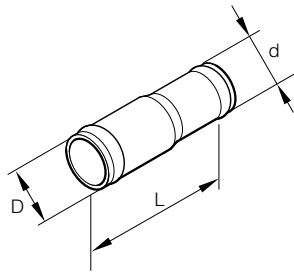


~ = Check connection diameter

D = 18 mm, d = 15 mm, L = 60 mm
D = 20 mm, d = 15 mm, L = 60 mm
D = 20 mm, d = 18 mm, L = 60 mm

22 1000 10 24 00
22 1000 10 01 05
22 1000 10 01 04

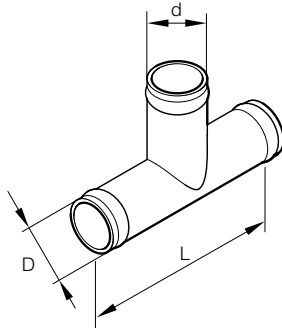
Reducer
Brass



~ = Anschlussdurchmesser prüfen

	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
D = 18 mm, d = 15 mm, L = 60 mm	■	~		20 1645 80 02 01
D = 20 mm, d = 16 mm, L = 60 mm		~	■	24 0176 89 00 01
D = 22 mm, d = 15 mm, L = 60 mm	~	~		25 1214 89 00 11
D = 22 mm, d = 18 mm, L = 60 mm	~	~		20 1645 89 00 05
D = 22 mm, d = 20 mm, L = 60 mm	~	■		25 1214 89 00 04

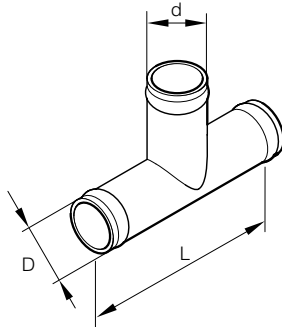
NEW!
T-piece
Plastic



~ = Check connection diameter

D = 18 mm, d = 18 mm, L = 84 mm	■	~		22 1000 10 21 00
D = 20 mm, d = 18 mm, L = 84 mm	■	~		22 1000 10 23 00
D = 20 mm, d = 20 mm, L = 84 mm	■	~		22 1000 10 22 00

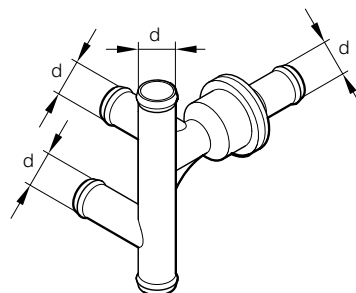
T-piece
Brass



~ = Check connection diameter

D = 18 mm, d = 15 mm, L = 60 mm	■	~		25 1214 89 16 00
D = 18 mm, d = 18 mm, L = 75 mm	■	~		20 1645 89 10 00
D = 20 mm, d = 18 mm, L = 75 mm	~	■		20 1645 89 11 00
D = 20 mm, d = 20 mm, L = 75 mm	~	■		20 1673 80 11 00
D = 38 mm, d = 38 mm, L = 120 mm			■	25 1371 89 04 00

Combi valve with thermostat function
With five connections



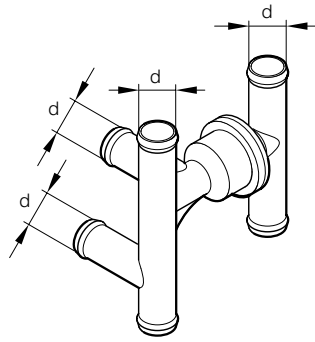
* not suitable for Hydronic 2 Comfort

Also required: T-piece, page 77

* d = 20 mm	~	■		25 2014 80 72 00
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7 | Water-conducting parts

Combi valve With thermostat function
With six connections



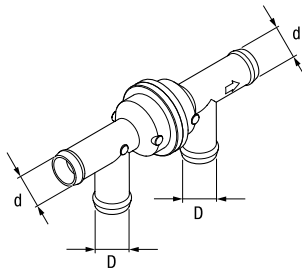
* not suitable for Hydronic 2 Comfort

d = 20 mm

Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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25 2014 80 62 00

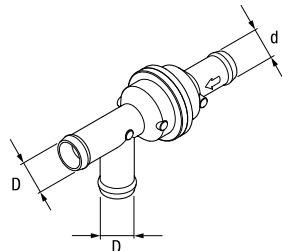
Water check valve



D = 20 mm, d = 18 mm
D = 20 mm, d = 20 mm

22 1000 10 11 00
22 1000 10 10 00

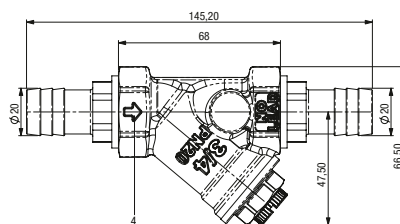
Water check valve



D = 20 mm, d = 18 mm
D = 20 mm, d = 20 mm

22 1000 10 12 00
22 1000 10 09 00

Water filter for Hydronic M
protects the water pump from soiling, thereby ensuring the heater's function.

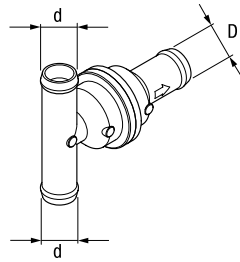


Supplier:
Eberspächer AB
Kardanvägen 34
SE – 461 38 Trollhättan
Sweden
Phone: +46 8 6831-100
info-se@eberspaecher.com

D = 20 mm, d = 18 mm

24 6003 1

Water check valve

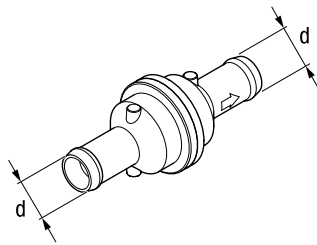


D = 20 mm, d = 18 mm
D = 20 mm, d = 20 mm

Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
-----------------------	-----------------------------	------------------------------	-----------

22 1000 10 13 00
22 1000 10 07 00

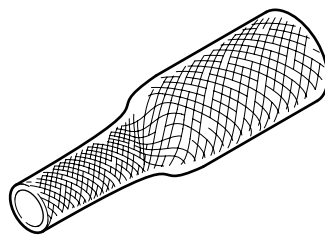
Water check valve



d = 18 mm
d = 20 mm

~ ~ 22 1000 10 14 00
22 1000 10 08 00

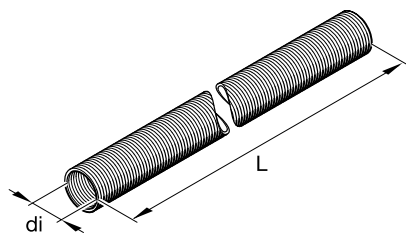
Heat-shrink fit hose
Anti-chafing protector for water hose



Ø 40 mm / Ø 20 mm

360 00 333

Safety hose
Aluminum / paper / plastic temperature / anti-chafing protector
for water hoses with Ø 18 mm and Ø 20 mm

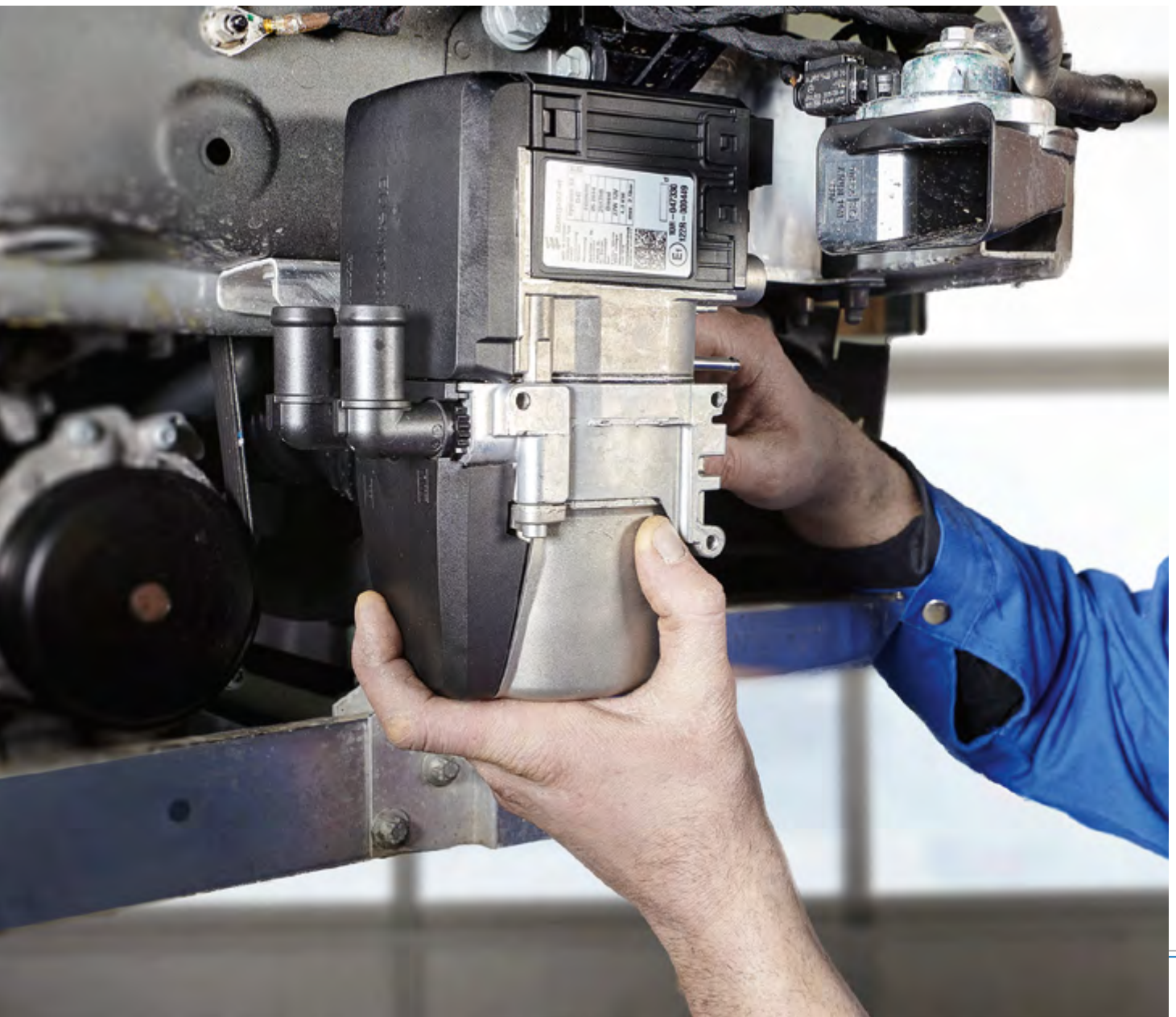


di = 30 mm, L = 2 m

10 2114 25 02 00

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7 | Water-conducting parts



8 | Air-conducting parts

General information:

- Heating-air throughput is at its highest in a heater if the airflow is unimpeded. Heating-air ducts reduce heating-air throughput.
- In order to give you the opportunity to check that the installation you have planned does not reduce the heating air throughput to an inadmissible level, we have calculated a heater guide number for each heater and a line guide number for each air duct.
- The total of the line guide numbers of the heating-air ducts connected to the heater must not be greater than the heater guide number, as otherwise the air flow temperature would be inadmissibly high and the overheating sensor would respond.
- If the total of the line guide numbers is greater than the heater guide number, the total can be reduced by selecting a larger diameter for the air ducts.

Rule of thumb:

Double cross-section or two lines the same, routed in parallel
= 1 / 4 of the guide number.

Example:

Hose Ø 60 mm

Cross-section A = 19.6 cm², guide number 1.0

Hose Ø 75,

Cross-section A = 44.2 cm², guide number 0.25

With smooth welded pipes, the line guide number is only half of the flexible hose with the same diameter (i.e. double pipe length).

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12

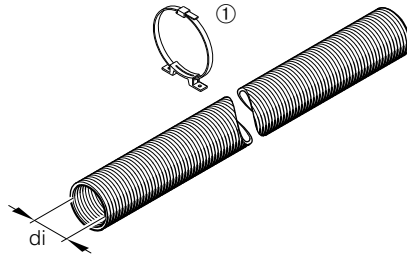
13

14

8 | Air-conducting parts

Flexible hose (linear m) (1)

Aluminum / paper / plastic, for heating-air ducting in interior



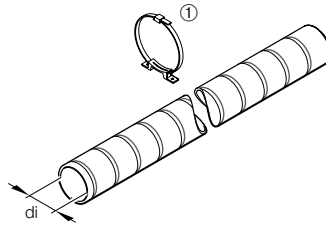
① See page 124 for air hose clips

~ = Check connection diameter

	Airtronic S (2,2 kW)	Airtronic M (4 kW)	Airtronic L (5,5 kW)	Air heater 8 L/V 7 S	Order no.
di = 50 mm	~	~			10 2114 29 00 00
di = 60 mm	■	~			10 2114 31 00 00
di = 75 mm	■	■	~		10 2114 34 00 00
di = 90 mm	■	■	~		10 2114 37 00 00
di = 100 mm	~	~	■		10 2114 38 00 00

Flexible hose (2)

Plastic hose with metal spiral, suitable for outside installation



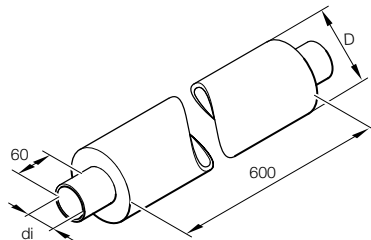
① See page 124 for air hose clips

~ = Check connection diameter

di = 60 mm, (1-meter pieces)	■	~			360 00 165
di = 75 mm, (linear m, max. 4 m long)	■	~			360 00 012
di = 90 mm, (linear m, max. 4 m long)	■	~	~		360 00 013
di = 100 mm, (linear m, max. 4 m long)	~	~	■		360 00 014

Silencer (3)

Hot air, aluminum

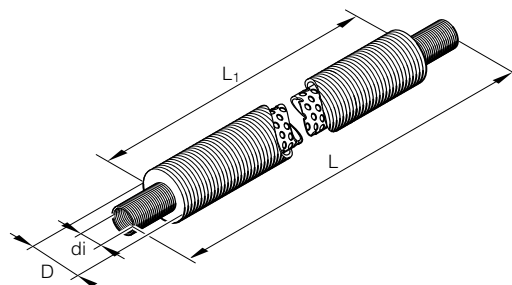


~ = Check connection diameter

di = 75 mm, D = 120 mm	■	■			25 1226 89 15 00
di = 90 mm, D = 140 mm	■	■	~		25 1226 89 17 00
di = 100 mm, D = 150 mm	~	~	■		25 1226 89 56 00

Intake silencer (4)

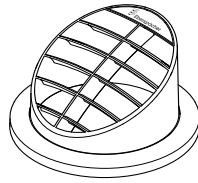
Aluminum / paper / plastic heating-air intake



di = 75 mm, D = 110 mm, L = 600 mm, L1 = 300 mm

330 00 072

Upright vent, 30° (10)
Rotatable, see Item 16 for fitting

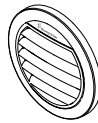


suitable for Ø 50 / 60 mm fitting, black
 suitable for Ø 50 / 60 mm fitting, white
 suitable for Ø 75 / 90 mm fitting, black
 suitable for Ø 75 / 90 mm fitting, white

~ = Check connection diameter

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Order no.
■	■	■	~	22 1000 01 00 56
■	■	■	~	22 1000 01 00 57
■	■	■	~	22 1000 01 00 60
■	■	■	~	22 1000 01 00 61

Flat vent, 30° (11)
Rotatable, see Item 16 for fitting

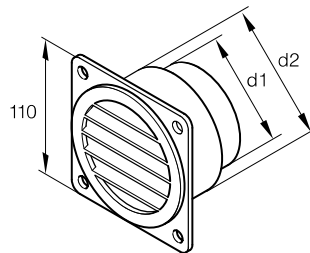


suitable for Ø 50 / 60 mm fitting, black
 suitable for Ø 50 / 60 mm fitting, white
 suitable for Ø 75 / 90 mm fitting, black
 suitable for Ø 75 / 90 mm fitting, white

~ = Check connection diameter

■	■	■	~	22 1000 01 00 44
■	■	■	~	22 1000 01 00 45
■	■	■	~	22 1000 01 00 52
■	■	■	~	22 1000 01 00 53

Vent (11.1)
Rotatable



* with 4 stainless steel screws

~ = Check connection diameter

d1 = 60 mm, d2 = 100 mm, black
 * d1 = 60 mm, d2 = 100 mm, white

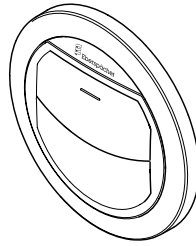
■	■	■	■	22 1000 01 07 00
■	■	■	■	22 1000 01 11 00

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8 | Air-conducting parts

Closable vent (12)

Rotatable, see Item 16 for fitting



~ = Check connection diameter

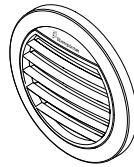
suitable for Ø 50 / 60 mm fitting, black
 suitable for Ø 50 / 60 mm fitting, white
 suitable for Ø 75 / 90 mm fitting, black
 suitable for Ø 75 / 90 mm fitting, white

Airtronic S (2,2 kW)	Airtronic M (4 kW)	Airtronic L (5,5 kW)	Air heater 8 L/V 7 S	Order no.
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■	■	■	~	22 1000 01 00 72
■	■	■	~	22 1000 01 00 73
■	■	■	~	22 1000 01 00 76
■	■	■	~	22 1000 01 00 77

Flat vent, 0° (13)

Rotatable, see Item 16 for fitting

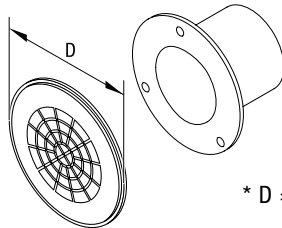


~ = Check connection diameter

suitable for Ø 50 / 60 mm fitting, black
 suitable for Ø 50 / 60 mm fitting, white
 suitable for Ø 75 / 90 mm fitting, black
 suitable for Ø 75 / 90 mm fitting, white

■	■	■	~	22 1000 01 00 40
■	■	■	~	22 1000 01 00 41
■	■	■	~	22 1000 01 00 48
■	■	■	~	22 1000 01 00 49

Grille (13.1)



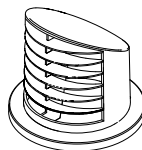
* suitable for Item 18

* D = 93 mm, L = 75, d = 60 mm
 Nickel-plated
 * D = 93 mm, L = 75, d = 60 mm
 Plastic

■				25 1226 89 05 00
■				22 1000 01 00 01

Upright vent, 90° (14)

Rotatable, see Item 16 for fitting



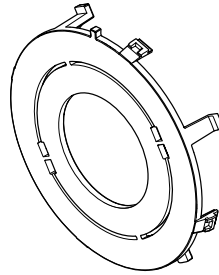
~ = Check connection diameter

suitable for Ø 50 / 60 mm fitting, black
 suitable for Ø 50 / 60 mm fitting, white
 suitable for Ø 75 / 90 mm fitting, black
 suitable for Ø 75 / 90 mm fitting, white

■	■	■	~	22 1000 01 00 64
■	■	■	~	22 1000 01 00 65
■	■	■	~	22 1000 01 00 68
■	■	■	~	22 1000 01 00 69

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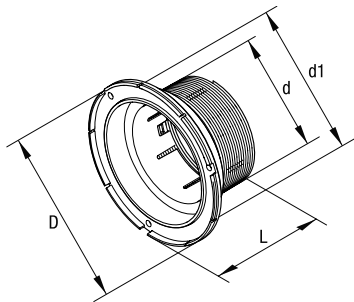
Air control element (15)
See page 34



* for fitting, Item 16, order no. 22 1000 01 00 35
 ** for fitting, Item 16, order no. 22 1000 01 00 36
 *** for fitting, Item 16, order no. 22 1000 01 00 37

	Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Order no.
* Plastic, Ø 60 mm	■	■	■	~	22 1000 01 00 79
** Plastic, Ø 75 mm	■	■	■	~	22 1000 01 00 80
*** Plastic, Ø 90 mm	■	■	■	~	22 1000 01 00 81

Fitting (16)
for vents, Items 10, 11, 12, 13 and 14



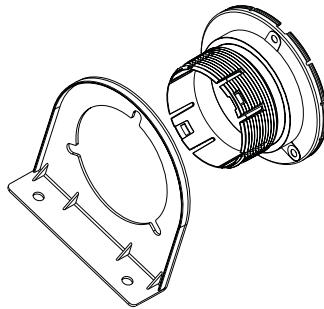
d1 = core drill bit diameter

~ = Check connection diameter

d = 50 mm, d1 = 67 mm, D = 89 mm, L = 39 mm, black	■	■	■	~	22 1000 01 00 34
d = 60 mm, d1 = 67 mm, D = 89 mm, L = 40 mm, black	■	■	■	~	22 1000 01 00 35
d = 75 mm, d1 = 92 mm, D = 115 mm, L = 42 mm, black	■	■	■	~	22 1000 01 00 36
d = 90 mm, d1 = 92 mm, D = 115 mm, L = 40 mm, black	■	■	■	~	22 1000 01 00 37

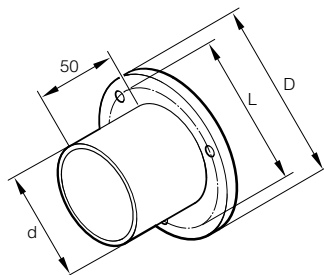
NEW!

Mounting bracket for air scoop (17)
for fitting, Item 16 (d = 60 mm, order no. 22 1000 01 00 35)



d = 60 mm	■				22 1000 01 14 00
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Hose fitting (18)
Suitable for grille, Item 13.1*



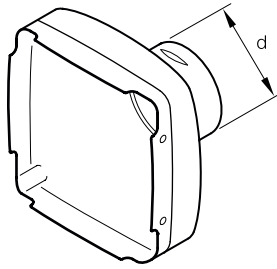
* D = 93 mm

~ = Check connection diameter

d = 50 mm, D = 97 mm, L = 75 mm	~				20 1575 80 08 01
d = 60 mm, D = 97 mm, L = 75 mm	■	~			20 1577 89 06 01

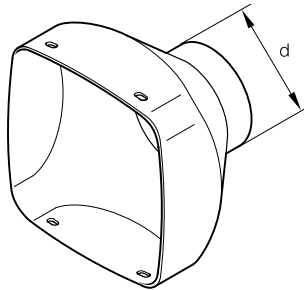
8 | Air-conducting parts

Scoop (21)



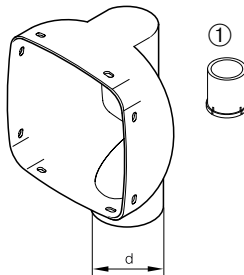
	Airtronic S (2,2 kW)	Airtronic M (4 kW)	Airtronic L (5,5 kW)	Air heater 8 L/V 7 S	Order no.
d = 60 mm	■				22 1000 01 00 16
d = 75 mm	■				22 1000 01 00 17
d = 75 mm		■			22 1000 01 00 18
d = 90 mm			■		22 1000 01 00 19

Scoop (22)



d = 90 mm			■		25 1729 01 09 00
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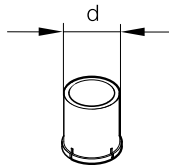
Ball-shaped scoop (30)



①
Connection fitting, see Item 31

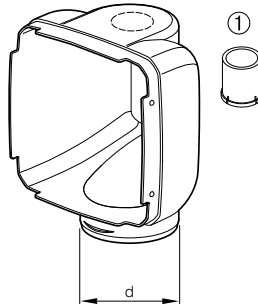
d = 90 mm			■		25 1729 89 10 00
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Connection fitting (31)
Ball-shaped scoop, Item 30 / 32



d = 25 mm	~	~	~		20 1575 89 00 15
d = 50 mm	■	■	~		22 1000 01 00 04

Ball-shaped scoop (32)



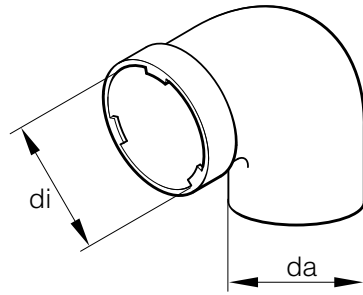
Caution! Make sure the line guide number is not too high

①
Connection fitting for Item 31

* Cannot be used with the Airtronic D4 Plus

d = 60 mm	■				22 1000 01 00 20
d = 75 mm	■				22 1000 01 00 28
* d = 75 mm		■			22 1000 01 00 22
* d = 90 mm			■		22 1000 01 00 23

Pipe elbow, 90° (33)



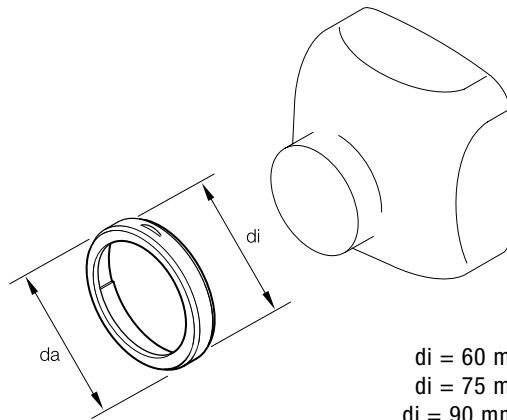
di = 60 mm, da = 60 mm
di = 75 mm, da = 75 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Order no.
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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	25 1688 89 00 01
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	25 1482 89 00 05

Ring (34)

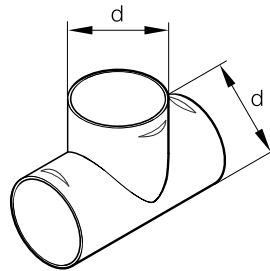
Protective grille (Item 17), di = 90 mm.
Can be used as an adapter – remove grille.



di = 60 mm, da = 75 mm
di = 75 mm, da = 90 mm
di = 90 mm, da = 100 mm

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	22 1000 01 00 08
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	25 1822 89 00 01
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20 1607 80 00 01

T-junction (35)

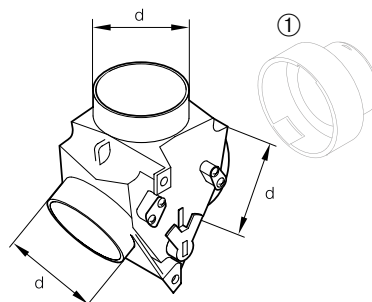


Metal, d = 50 mm
Plastic, d = 60 mm
Plastic, d = 75 mm
Plastic, d = 90 mm
Metal, d = 100 mm

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20 1575 89 18 00
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	25 1688 89 00 02
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	22 1000 01 00 27
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	22 1000 01 00 26
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20 1667 89 03 00

~ = Check connection diameter

Butterfly valve (40)



①
Adapter, see Item 45

d = 60 mm
d = 90 mm

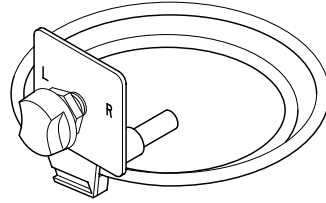
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	330 00 174
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	330 00 175

~ = Check connection diameter

8 | Air-conducting parts

Control unit (41)

For butterfly valve, Item 40, 2 m long

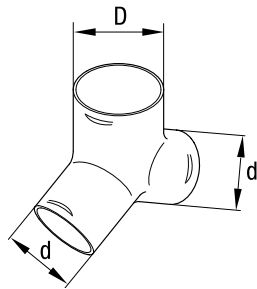


Airtronic S (2,2 kW)	Airtronic M (4 kW)	Airtronic L (5,5 kW)	Air heater 8 L/V 7 S	Order no.
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22 1000 01 03 00

Y-junction (42)

Symmetrical

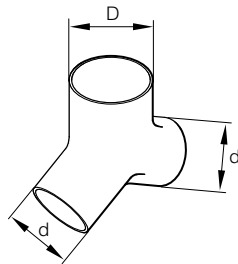


- Plastic, D = 60 mm, d = 50 mm
- Plastic, D = 75 mm, d = 60 mm
- Plastic, D = 90 mm, d = 60 mm
- Plastic, D = 90 mm, d = 75 mm

-- = Check connection diameter

- 25 1688 89 00 03
- 22 1000 01 00 82
- 22 1000 01 00 83
- 22 1000 01 00 84

Y-junction (42.1)

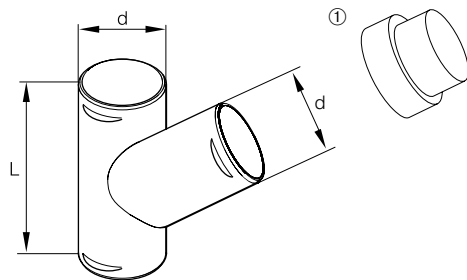


-- = Check connection diameter

- Metal, D = 75 mm, d = 50 mm

25 1482 80 08 00

Y-junction (43)



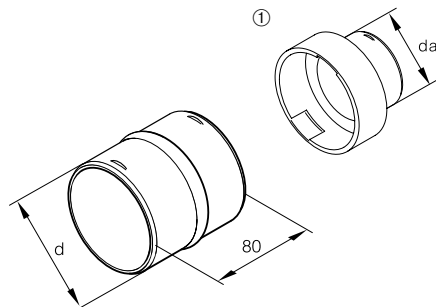
①
Adapter, see Item 45

-- = Check connection diameter

- d = 60, L = 145 mm
- d = 75, L = 175 mm
- d = 90, L = 180 mm
- d = 100, L = 230 mm

- 25 1774 89 00 05
- 25 1226 89 00 44
- 22 1000 01 00 21
- 25 1226 89 00 45

Hose connector fitting (44)



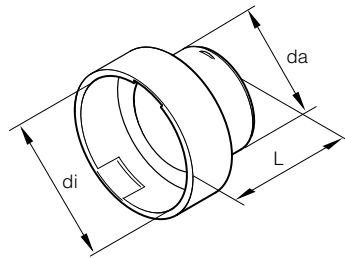
①
Adapter, see Item 45

-- = Check connection diameter

- d = 60 mm
- d = 75 mm
- d = 90 mm
- d = 100 mm

- 22 1000 01 00 05
- 22 1000 01 00 06
- 22 1000 01 00 24
- 22 1000 01 00 07

Adapter (45)
For Item 40, 43 and 44

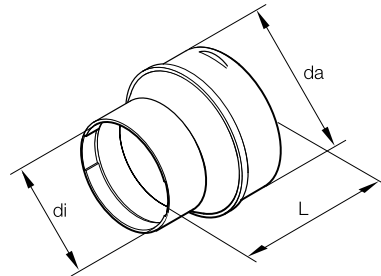


- di = 75 mm, da = 50 mm, L = 50 mm
- di = 75 mm, da = 60 mm, L = 45 mm
- di = 90 mm, da = 75 mm, L = 45 mm
- di = 100 mm, da = 50 mm, L = 62 mm
- di = 100 mm, da = 60 mm, L = 57 mm
- di = 100 mm, da = 75 mm, L = 50 mm
- di = 100 mm, da = 90 mm, L = 42 mm

~ = Check connection diameter

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Order no.
■	■	~		25 1226 89 00 46
■	■	~		25 1226 89 00 50
~	■	■	~	22 1000 01 00 12
~	~	~	■	25 1226 89 00 48
~	~	~	■	25 1226 89 00 51
~	~	~	■	25 1226 89 00 47
~	~	~	■	25 1226 89 00 49

Adapter (46)

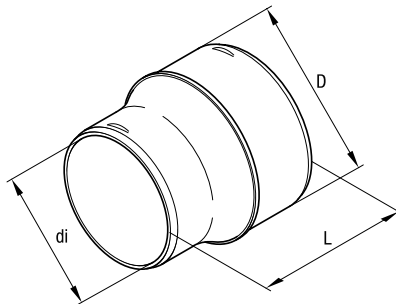


- di = 60 mm, da = 75 mm, L = 40.5 mm

~ = Check connection diameter

■	~			25 1688 89 00 10
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Adapter (47)

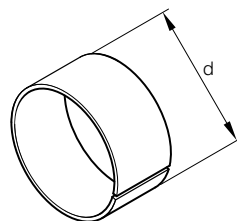


- Plastic, di = 75 mm, D = 90 mm, L = 54 mm
- Metal, di = 90 mm, D = 100 mm, L = 46 mm

~ = Check connection diameter

■	■			22 1000 01 00 85
■	■	~		20 1462 89 00 01

Sleeve / adapter (48)



- d = 90 mm / 100 mm

~ = Check connection diameter

~				20 1607 80 00 01
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9 | Fuel-conducting parts

General information:

- Protect fuel lines, filters and metering pumps from impermissible heat levels; do not install near control dampers and exhaust pipes.
- Take the rear axle suspension into account when installing fuel lines, fuel filters and metering pumps near the rear axle.
- When cutting fuel hoses and types, be sure to use a sharp knife.
- Cut surfaces must have no dents or burrs.
- Please also refer to the safety information on this section in the heater documentation.

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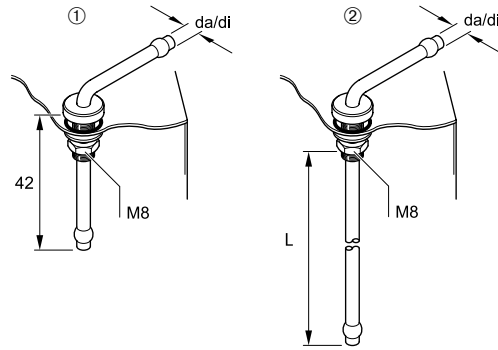
11

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Tank connection
For cars with an inner tank pump

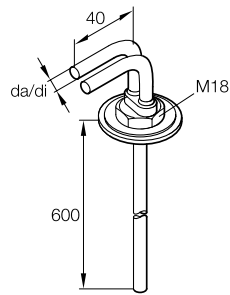


- ① da = 4 mm, di = 2 mm
- ② da = 4 mm, di = 2 mm, L = 295 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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■	■	■		■			22 1000 20 15 00
■	■	■		■			22 1000 20 16 00

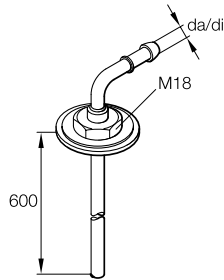
Tank connection with return
For commercial vehicles



da = 6 mm, di = 4 mm

							■ 25 1226 89 40 00
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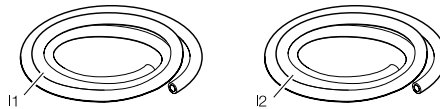
Tank connection
For commercial vehicles



da = 6 mm, di = 2 mm
da = 6 mm, di = 4 mm

■	■	■		■			25 1226 89 50 00
			■		■		25 1156 30 00 00

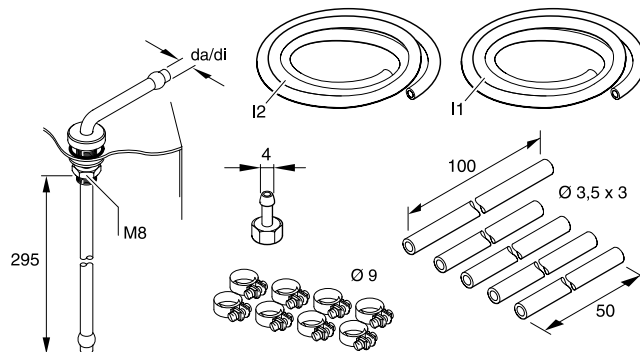
Kit – fuel lines for E85
Only for Hydronic 2 – B5 S



I1 = Ø 4x1.25 pipe; L = 6 m, black / I2 = Ø 4x1 pipe; L = 2 m, black

						~	22 1000 20 31 00
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Tank connection kit
For cars with an inner tank pump



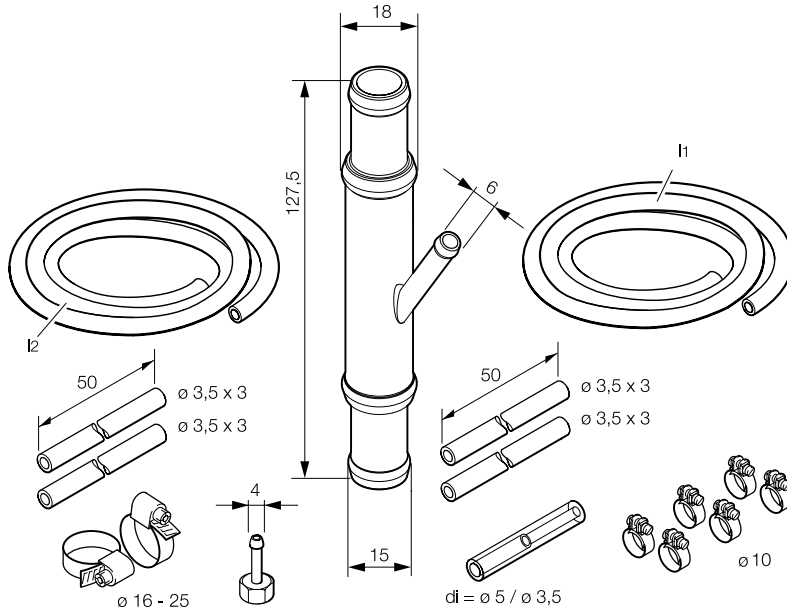
I1 = Ø 4x1.25 pipe; L = 6 m / I2 = Ø 4x1 pipe; L = 6 m / da = 4 mm, di = 2 mm

■	■	■		■			22 1000 20 13 00
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9 | Fuel-conducting parts

Fuel supply kit
For installation in the tank ventilation hose

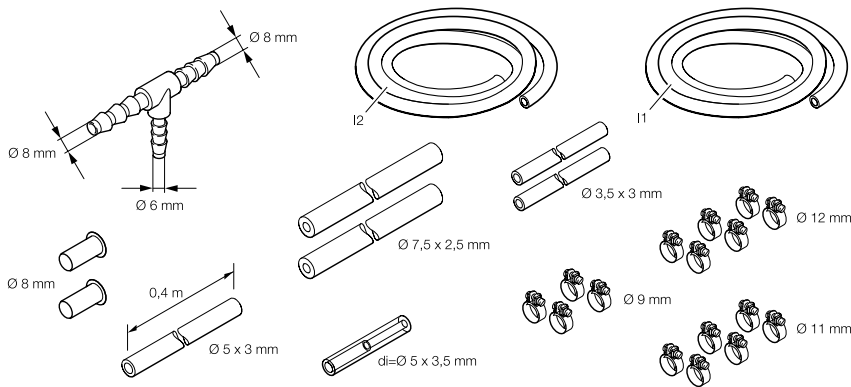


I1 = Ø 4x1 steel pipe, L = 1 m / I2 = Ø 4x1 plastic pipe, L = 2 m

Order no.

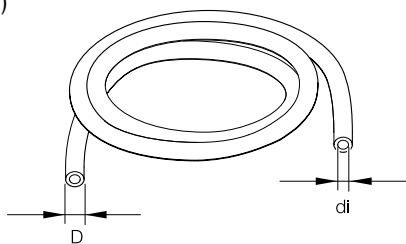
Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 20 06 00
							22 1000 20 17 00
							360 75 300
							360 75 400
							360 75 350
							360 75 401
							360 75 402
							360 75 404

Fuel supply kit
Tank extraction feed line



I1 = Ø 4x1.25 pipe; L = 6 m / I2 = Ø 6x1 pipe; L = 2 m

Fuel hose (linear m)
Rubber

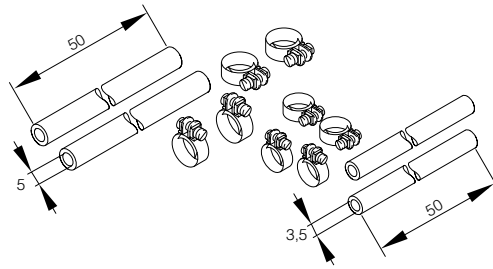


- di = 3.5 mm, D = 9.50 mm
- * di = 3.5 mm, D = 9.50 mm
- di = 5.0 mm, D = 11.0 mm
- * di = 5.0 mm, D = 11.0 mm
- * di = 7.5 mm, D = 13.5 mm
- * di = 9.0 mm, D = 15.0 mm

- 360 75 300
- 360 75 400
- 360 75 350
- 360 75 401
- 360 75 402
- 360 75 404

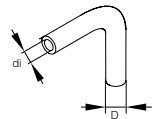
* PME-compatible

Fuel supply kit
For installing fuel line
in boat engine compartments



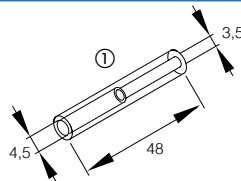
Fire-resistant hose according to DIN EN ISO 14859

Fuel hose 105° elbow
PME-compatible



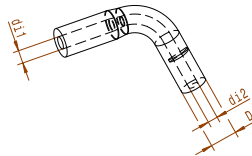
di = 3.5 mm, D = 9.5 mm

Hydronic S3 adapter



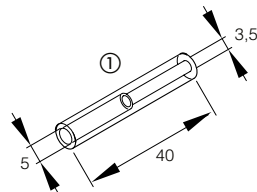
Outer diameter D = 10 mm

Hydronic S3 adapter elbow



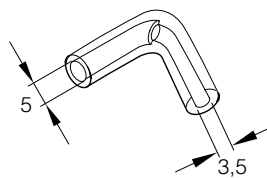
D = 9.5 mm, di1 = 4.5 mm, di2 = 3.5 mm

Adapter



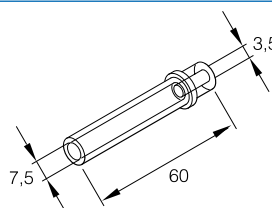
Outer diameter D = 10 mm

Adapter 105° elbow
PME-compatible



Outer diameter D = 10 mm

Adapter for fuel pipes



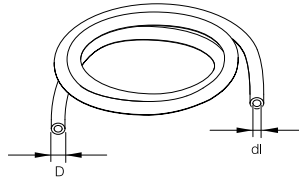
Outer diameter D = 12 mm

	Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
Fire-resistant hose according to DIN EN ISO 14859	■	■	■	■	■	■	■	22 1000 20 10 00
Fuel hose 105° elbow PME-compatible	■	■	■	■	■	■	■	25 1888 80 01 01
Hydronic S3 adapter	■	■	■	■	■	■	■	22 1000 20 38 00
Hydronic S3 adapter elbow	■	■	■	■	■	■	■	22 1000 20 41 00
Adapter	■	■	■	■	■	■	■	25 1888 80 01 02
Adapter 105° elbow PME-compatible	■	■	■	■	■	■	■	25 2110 05 03 01
Adapter for fuel pipes	■	■	■	■	■	■	■	22 1000 20 30 00

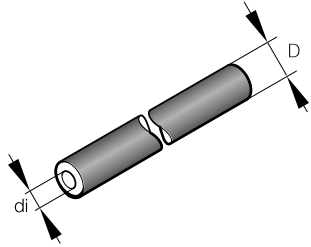
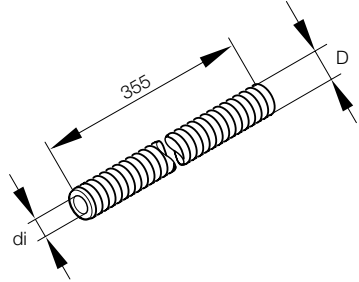
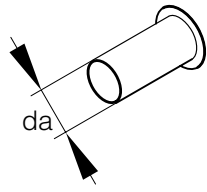
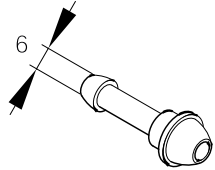
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9 | Fuel-conducting parts

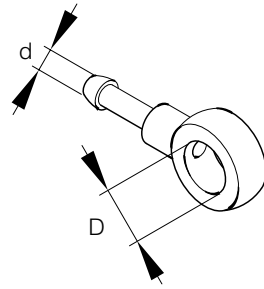
Fuel pipe (linear m)
Plastic



- natural-colored, di = 1.5 mm, D = 4 mm
- natural-colored, di = 2 mm, D = 4 mm
- Ethanol resistant, di = 1.5 mm, D = 4 mm
- Ethanol resistant, di = 2 mm, D = 4 mm
- blue, di = 2 mm, D = 4 mm
- black, di = 2 mm, D = 6 mm
- blue, di = 4 mm, D = 6 mm

	Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
natural-colored, di = 1.5 mm, D = 4 mm	■	■	■		■			890 31 118
natural-colored, di = 2 mm, D = 4 mm	■	■	■		■			890 31 055
Ethanol resistant, di = 1.5 mm, D = 4 mm					~			890 31 139
Ethanol resistant, di = 2 mm, D = 4 mm					~			890 31 138
blue, di = 2 mm, D = 4 mm	■	■	■		■			890 31 054
black, di = 2 mm, D = 6 mm	■	■	■		■	■		890 31 125
blue, di = 4 mm, D = 6 mm				■		■		890 31 101
<hr/>								
Foam rubber hose (linear m) Chafing protection and soundproofing for fuel pipe								
								
di = 5 mm, D = 11 mm	■	■	■	■	■	■		360 75 200
<hr/>								
1 2 3 4 5								
Heat protection hose For fuel pipe Aluminum clad with fiberglass cloth Also suitable for electrical cabling								
								
di = 10 mm, D = 13 mm	■	■	■	■	■	■		360 00 183
<hr/>								
6 7 8								
Reinforcing sleeve Brass, for plastic fuel pipes 10 per pack								
								
da = 4 mm for 6x1 pipe	■	■	■	■	■	■		22 1000 20 01 00
da = 6 mm for 8x1 pipe				■	■	■		22 1000 20 02 00
da = 8 mm for 10x1 pipe				■	■	■		22 1000 20 03 00
<hr/>								
10 11 12 13 14								
Hose nipple Straight, for M 10 x 1 union nut								
								
				■	■	■		25 1351 88 01 01

Ring fitting with hose connection

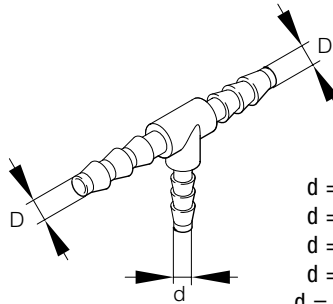


d = 5 mm, D = 8 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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25 1352 88 00 05

T-piece
Plastic

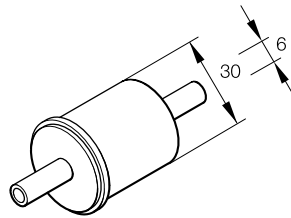


d = 4 mm, D = 8 mm
 d = 5 mm, D = 5 mm
 d = 6 mm, D = 6 mm
 d = 6 mm, D = 8 mm
 d = 6 mm, D = 10 mm
 d = 6 mm, D = 12 mm

~ = Observe connection diameter

~	~	~	~	~	~	~	262 31 155
~	~	~	~	~	~	~	262 31 149
~	~	~	~	~	~	~	262 31 150
~	~	~	~	~	~	~	262 31 151
~	~	~	~	~	~	~	262 31 152
~	~	~	~	~	~	~	262 31 153

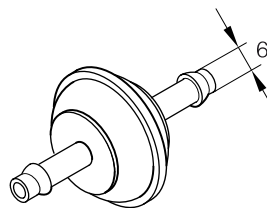
Fuel filter with paper insert
Plastic / installation in front of fuel circulation pump



~ = check hose diameter

~	~	~	~	~	~	~	25 1156 20 00 09
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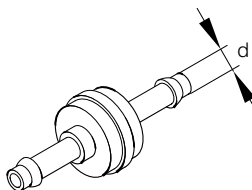
Fuel filter with metal strainer
Plastic / for metering pumps with cup strainer



~ = Important! Fuel filter suitable for use with fuel circulation pump only

~	~	~	~	~	~	~	25 1226 89 00 37
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Check valve

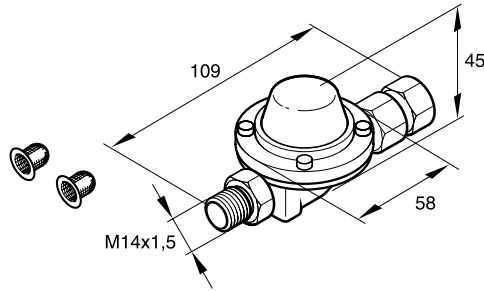


d = 6 mm
 d = 8 mm

~	~	~	~	~	~	~	244 31 060
~	~	~	~	~	~	~	244 31 061

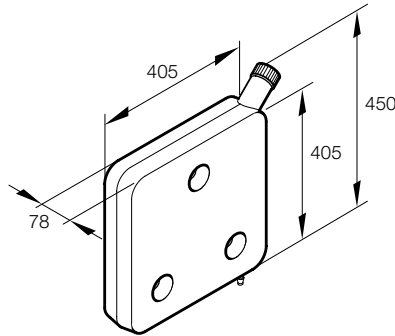
9 | Fuel-conducting parts

Pressure reducer
with cup strainer and hose fitting
Input pressure 0.2 – 4 bar
Control pressure min. 50 mbar, max. 150 mbar



Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
■	■	■		■			22 1000 20 08 00

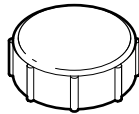
Complete fuel tank, 10 l
Plastic



-- Only suitable for diesel / bio-diesel (FAME) / heating oil

~	~	~	~	~	~	~	22 1000 20 28 00
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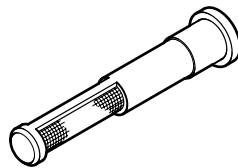
Fuel tank lid including seal
Plastic
Suitable for 22 1000 20 28 00



-- Only suitable for diesel / bio-diesel (FAME) / heating oil

~	~	~	~	~	~	~	22 1000 20 22 00
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Fuel strainer for fuel tank
Suitable for 22 1000 20 28 00



-- Only suitable for diesel / bio-diesel (FAME) / heating oil

~	~	~	~	~	~	~	22 1000 20 28 03
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O-ring for fuel valve, 6 mm
Suitable for 22 1000 20 28 00



-- Only suitable for diesel / bio-diesel (FAME) / heating oil

~	~	~	~	~	~	~	22 1000 20 28 04
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10 | Electrical parts / Testing equipment

General information:

- Using a timer you can manually or automatically switch on the heater at a preset time (pre-heating mode).
- Always make sure that a heater can run on, even if the vehicle's whole electrical system can be shut down with a battery main switch (i.e. via an additional electrical connection or clear instruction that the battery main switch should be open when the heater is running with a flame).
- The rule of thumb for the electrical power supply is: charging time = heating time.
- In certain circumstances, heaters in motor homes or commercial vehicles are operated for longer sustained periods. In these cases, the on-board energy resources need to be monitored.
- For more detailed information, see technical description and installation instructions.
- Please also refer to the safety information on this section in the heater documentation.

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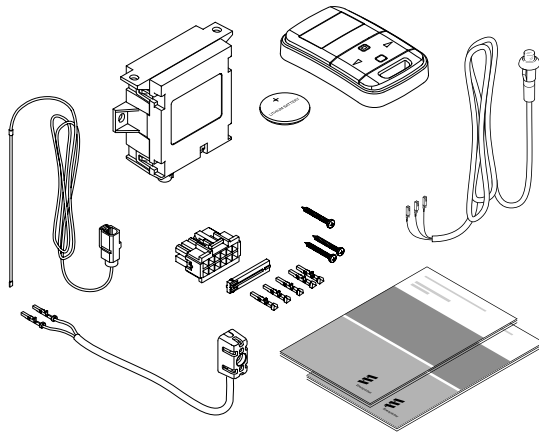
12

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10 | Electrical parts

EasyStart Remote+ Remote control



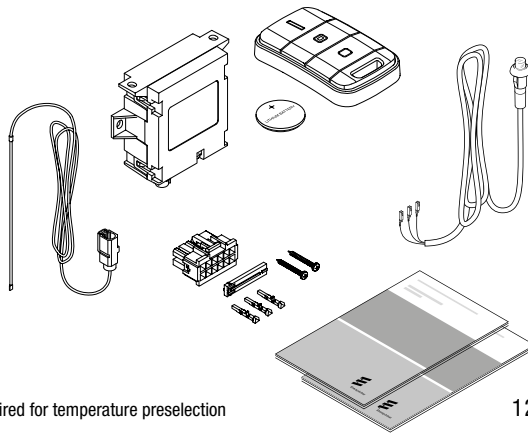
12 V / 24 V

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 34 17 00

NEW!

EasyStart Remote* Remote control

When replacing a stationary part 22 1000 34 25 00 with 22 1000 34 82 00, additionally order the "elec. connecting part package TP7" 22 1000 34 2600 0B and consult the wiring diagram from the set 22 1000 34 81 00 when installing.



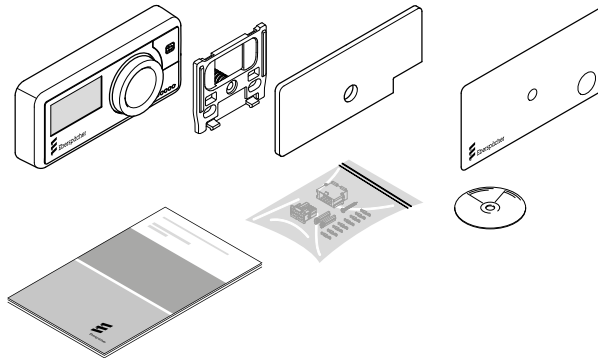
12 V / 24 V

* with Airtronic: additional control unit required for temperature preselection

							22 1000 34 81 00
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NEW!

EasyStart Pro



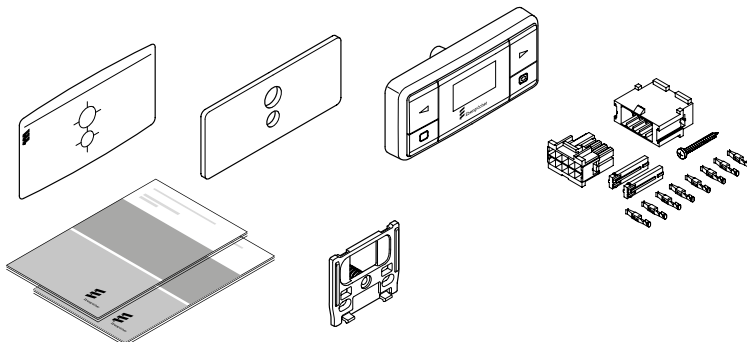
For Hydronic S3 (CS) and Airtronic 2

Timer trim for EasyStart Timer, see page 129

12 V / 24 V

							22 1000 35 22 00
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EasyStart Timer



For Hydronic 1, Hydronic 2, Hydronic S3 CL, Hydronic M2 and Airtronic 1

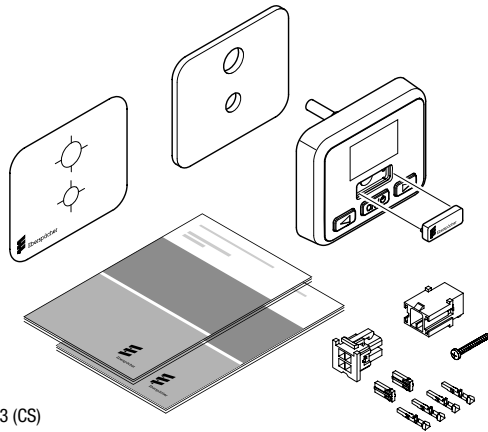
~ = For Hydronic S3 Economy (CS): possible only with S+; no diagnostic option

12 V / 24 V

							22 1000 34 15 00
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EasyStart Select

For Hydronic 1, Hydronic 2, Hydronic S3 (CL), Hydronic M2 and Airtronic 1



~ = No functionality for Hydronic S3 (CS)

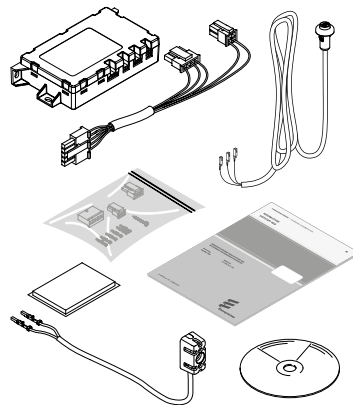
12 V / 24 V

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
				~			22 1000 34 13 00

NEW!

EasyStart Web Web-based remote operation

Can be combined with older heaters if the heater is compatible with LIN or S+.



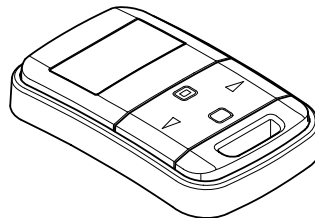
~ = No diagnostics

For Hydronic S3 (CS) and Airtronic 2: 12 V / 24 V

12 V / 24 V

				~			22 1000 34 51 00
			~		~		22 1000 35 26 00

EasyStart Remote+ – single part Mobile part

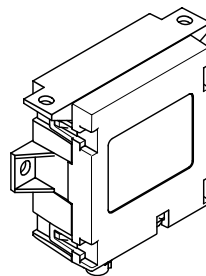


~ = Possible only via S+

12 V / 24 V

				~			22 1000 34 18 00
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EasyStart Remote+ – single part Fixed part

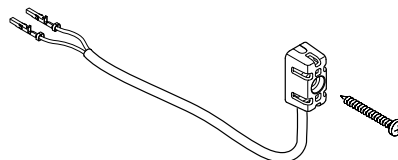


~ = Possible only via S+

12 V / 24 V

				~			22 1000 34 19 00
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EasyStart Remote+ – single part Sensor – interior temperature, display

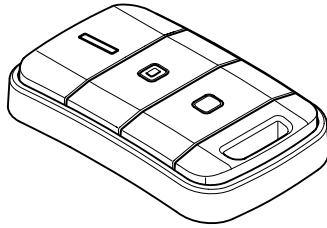


~ 22 1000 34 22 00

							~ 22 1000 34 22 00
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10 | Electrical parts

EasyStart Remote – single part
Mobile part



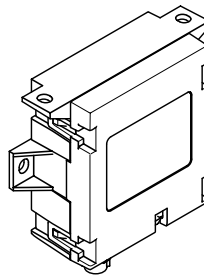
12 V / 24 V

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 34 24 00

NEW!

EasyStart Remote – single part
Stationary part

When replacing a stationary part 22 1000 34 25 00 with 22 1000 34 8200, additionally order the "elec. connecting part package TP7" 22 1000 34 2600 and consult the wiring diagram from the set 22 1000 34 81 00 when installing. Can be combined with older heaters if the heater is compatible with LIN or S+.

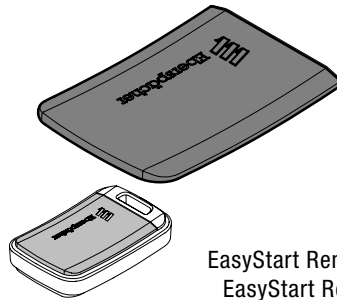


12 V / 24 V

- = Airtronic S, M, L: no setpoint input possible
- = Air heater: no setpoint input possible, only S+
- = Hydronic S, L: only S+

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
~	~	~	~	~	~	~	22 1000 34 82 00

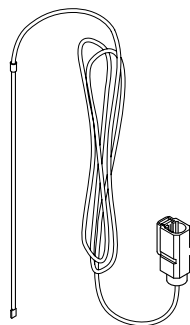
EasyStart Remote+ / EasyStart Remote – single part
Cover for battery compartment



EasyStart Remote+
EasyStart Remote

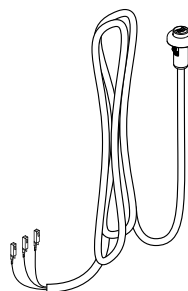
22 1000 34 18 01
22 1000 34 24 01

EasyStart Remote+ / EasyStart Remote – single part
Antenna



22 1000 34 21 00

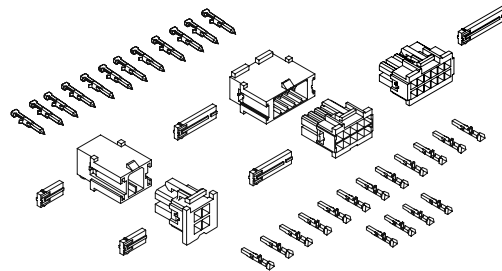
EasyStart Remote+ / EasyStart Remote – single part
Button



22 1000 34 20 00

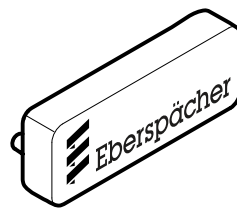
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EasyStart Call / EasyStart Remote+ / EasyStart Remote / EasyStart Timer / EasyStart Select – single part
Electrical connection parts



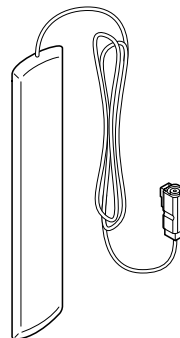
Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 34 26 00

EasyStart Select – single part
Plugs



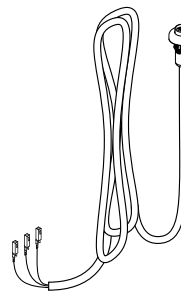
							22 1000 34 13 01
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EasyStart Call – single part
Slide antenna



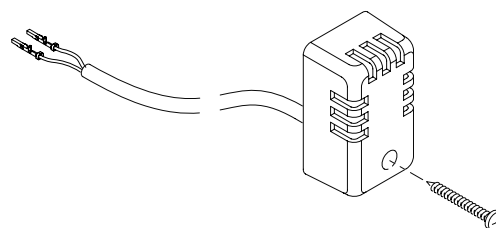
							22 1000 34 03 00
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EasyStart Call – single part
Button



							22 1000 34 04 00
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EasyStart Call – single part
Temperature sensor

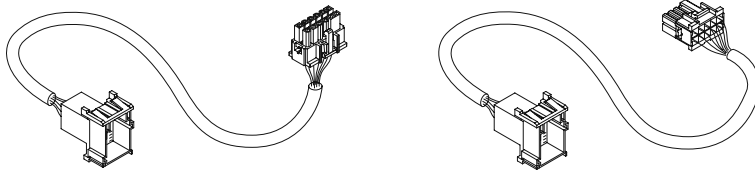


							22 1000 34 09 00
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10 | Electrical parts

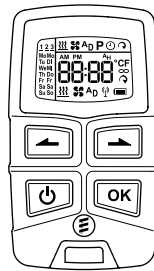
EasyStart Call, EasyStart Remote+ / EasyStart Remote / EasyStart Timer – single part
 Adapter cable



EasyStart Remote / EasyStart Remote+ / EasyStart Call (12-pin)
 EasyStart Timer (10-pin)

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 34 08 00
							22 1000 34 45 00

EasyStart R+ – single part
 Mobile part

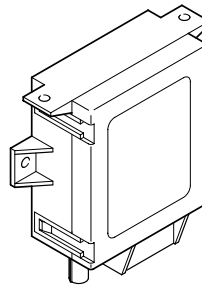


Spare part for 22 1000 32 80 00

12 V / 24 V

22 1000 32 81 00

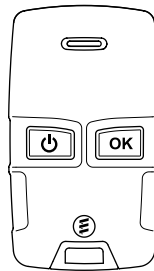
EasyStart R+ – single part
 Fixed part



Spare part for 22 1000 32 80 00

22 1000 32 82 00

EasyStart R – single part

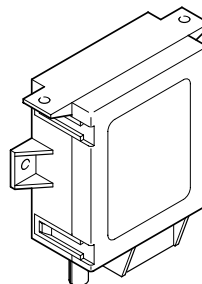


Spare part for 22 1000 32 85 00

12 V / 24 V

22 1000 32 86 00

EasyStart R – single part
 Fixed part



Spare part for 22 1000 32 85 00

22 1000 32 87 00

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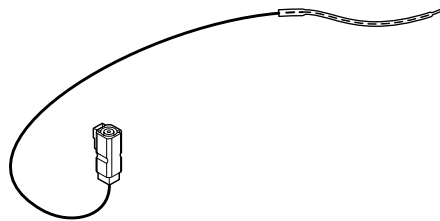
EasyStart R+ / EasyStart R – single part
Cover for battery compartment



Spare part for 22 1000 32 80 00 and 22 1000 32 85 00

22 1000 32 91 00

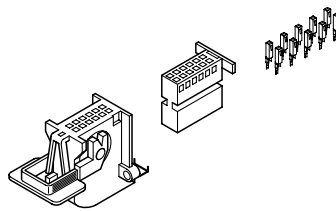
EasyStart R+ / EasyStart R – single part
Antenna



Spare part for 22 1000 32 80 00 and 22 1000 32 85 00

22 1000 32 83 00

EasyStart R+ / EasyStart R – single part
Electrical connection parts

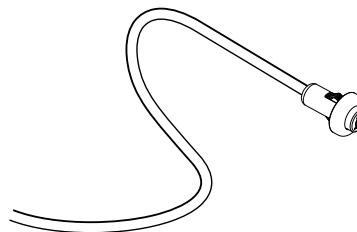


Spare part for 22 1000 32 80 00 and 22 1000 32 85 00

22 1000 32 90 00

NEU!

EasyStart R+ / EasyStart R – single part
Button

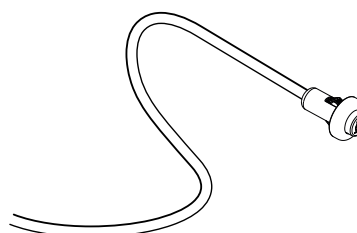


Spare part for 22 1000 32 80 00, 22 1000 32 85 00 and 22 1000 32 88 00

22 1000 34 75 00

NEU!

EasyStart Web – single part
Button



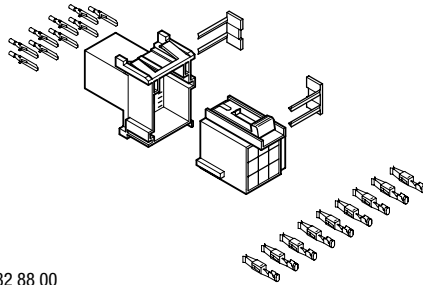
22 1000 34 76 00

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 32 91 00
							22 1000 32 83 00
							22 1000 32 90 00
							22 1000 34 75 00
							22 1000 34 76 00

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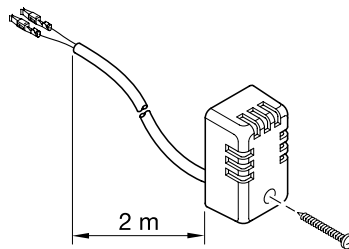
10 | Electrical parts

EasyStart R+ / EasyStart R / EasyStart T – single part
Electrical connection parts



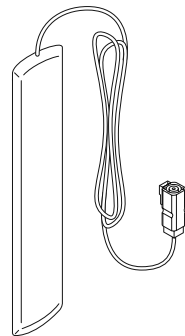
Spare part for 22 1000 32 80 00, 22 1000 32 85 00 and 22 1000 32 88 00

EasyStart R+ / EasyStart T – single part
Sensor – interior temperature, display

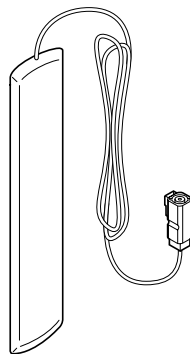


Spare part for 22 1000 32 80 00 and 22 1000 32 88 00

Calltronic – single part
Slide antenna



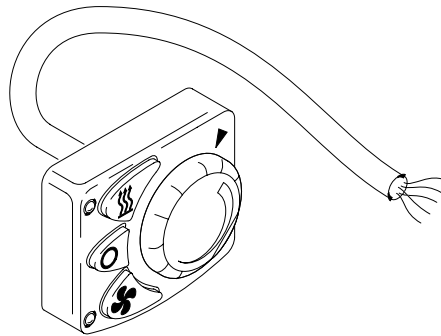
Calltronic I – single part
Slide antenna



Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 32 92 00
							22 1000 32 97 00
							22 1000 33 63 00
							22 1000 33 84 00

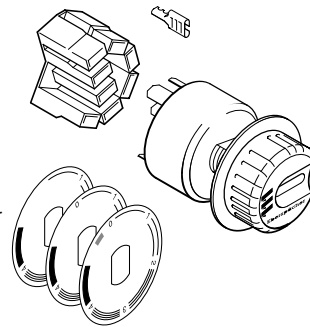
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Mini-Controller Airtronic – single part



Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 32 07 00

Control unit

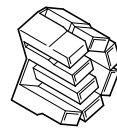


* with bushing connector housing and bushing connector
 ** without bushing connector housing and bushing connectors / only for air heater 8 L

~ = No ventilation, no diagnostic information.

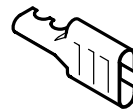
* 12 V	~	~					25 1895 71 00 00
* 24 V	~	~					25 1896 71 00 00
** 12 V			~				25 1767 71 00 00
** 24 V			~				25 1768 71 00 00

Control unit – single part
 7-pin bushing connector housing



							206 31 282
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Control unit – single part
 Bushing connector

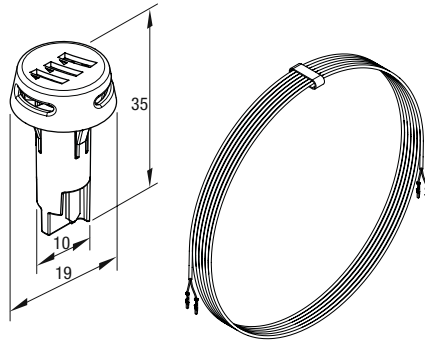


	~	~					206 36 151
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10 | Electrical parts

External and internal temperature control sensor, flush wall-mounted installation
2 m cable harness

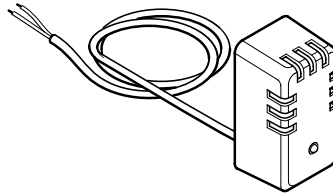


~ = Can be used with control unit

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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							22 1000 35 21 00
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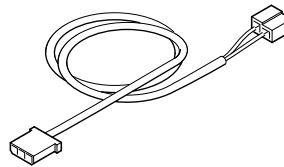
Exterior and interior temperature control sensor, surface installation
2 m cable harness



~ = Can be used with control unit

							25 1774 89 03 00
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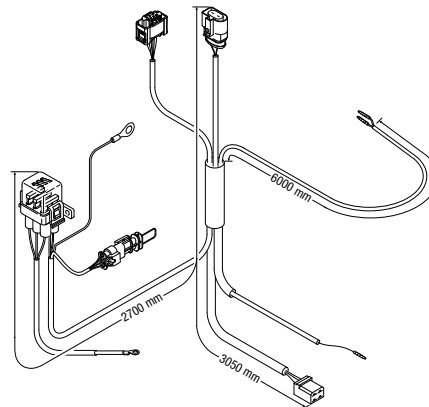
Cable harness / temperature sensor
For 25 1774 89 03 00



4 m, 2-pin

							25 1688 89 09 00
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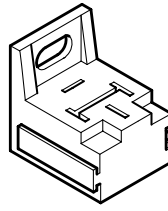
Hydronic S3 Economy cable harness
for recreational vehicles and boats
required for heating when simultaneously using a mains connection (230 V/50 Hz), e.g. in camping or parking areas for mobile homes or in marinas for boats.



							25 2652 82 11 00
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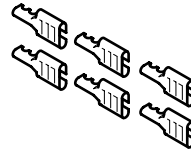
Voltage divider for fan control – single part
Connector block



Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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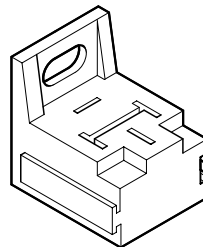
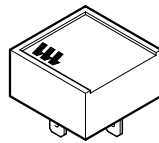
203 00 085

Voltage divider for fan control – single part
Bushing connector



203 53 020

IPCU retrofit kit



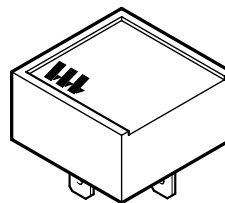
~ = For customer-specific retrofit kits, see the Service Portal – EPRO / Accessories / Electrical parts

12 V

~ ~

24 0273 00 00 00

IPCU retrofit kit – single part
Relay



12 V

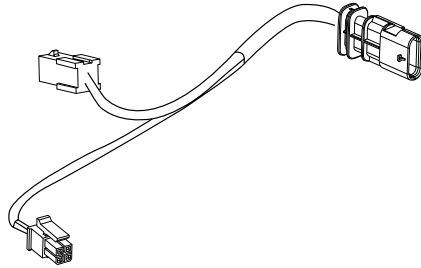
~ ~

22 1000 32 73 00

10 | Electrical parts

NEW!

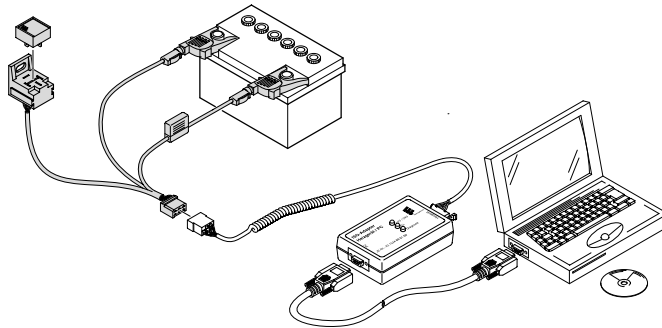
EasyFan programming cable / EasyStart Web adapter cable (for diagnosis via EasyScan) for EasyFan modules



Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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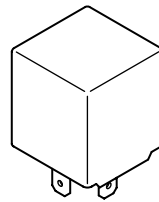
22 1000 34 57 00

IPCU adapter cable for EDITH Basic



							22 1000 32 74 00
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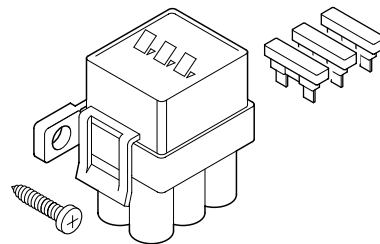
Relay, changeover contact
Max. current consumption 40 A



12 V
24 V

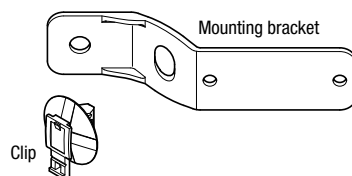
203 00 097
203 00 096

Triple fuse holder with pin
With 5 A, 15 A, 25 A fuses plus fastening parts



22 1000 31 06 00

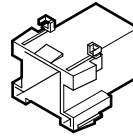
Mounting bracket for fuse and diagnostic connector
(for 22 1000 31 06 00; see above)



Mounting bracket without clip
Mounting bracket with clip

22 1000 51 48 00
22 1000 51 49 00

Flat connector housing / Junior Timer
For mini-timer 22 1000 30 14 00

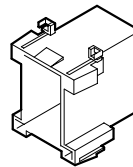


Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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4-pin

206 31 100

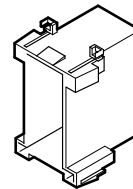
Flat connector housing / Junior Timer
For mini-timer 22 1000 32 35 00



6-pin

206 31 106

Flat connector housing / Junior Timer



8-pin

206 31 101

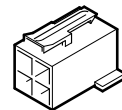
Flat connector
For flat connector housing / Junior Timer



0.5² – 1.0²

206 36 018

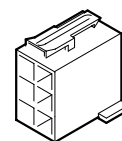
Bushing connector housing / Junior Timer
For mini-timer 22 1000 30 14 00



4-pin

206 31 296

Bushing connector housing / Junior Timer
For mini-timer 22 1000 32 35 00



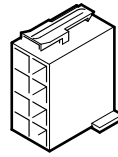
6-pin

206 31 297

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10 | Electrical parts

Bushing connector housing / Junior Timer

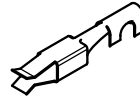


8-pin

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							206 31 298

Bushing connector

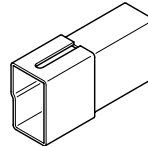
For bushing connector housing / Junior Timer



0.5² – 1.0²
1.0² – 2.5²

206 73 052
206 73 053

Flat connector housing AMP 2.8

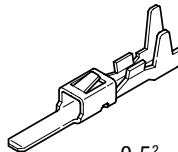


2-pin

206 31 018

Flat connector

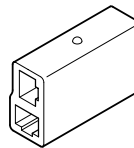
For flat connector housing AMP 2.8



0.5² – 1.0²
1.0² – 2.5²

206 73 001
206 52 151

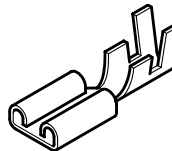
Bushing connector housing AMP 2.8



206 31 306

Bushing connector

For bushing connector housing AMP 2.8

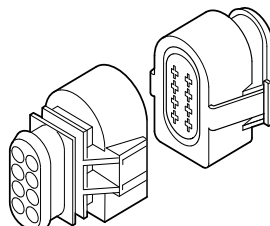


0.5² – 1.0²
1.0² – 2.5²

206 73 039
206 36 161

8-pin bushing connector housing kit

For Hydronic 1, with contacts and seals

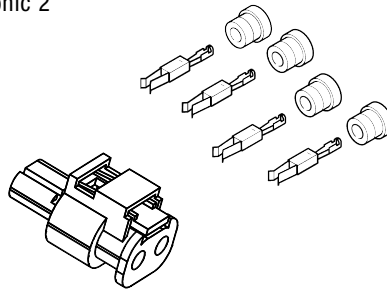


22 1000 30 10 21

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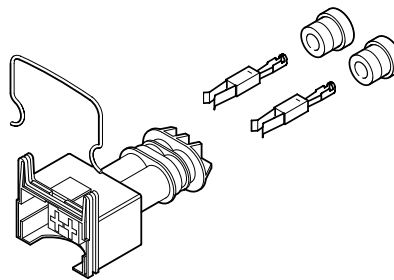
10 | Electrical parts / Testing equipment

Connector housing kit for Hydronic S3 and Airtronic 2
for metering pump, with contacts and seals



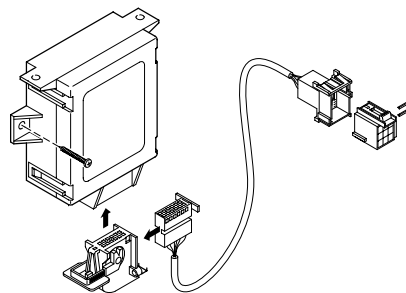
Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
■				■			22 1000 35 25 00

Connector housing kit
For metering pump, with contacts and seals



	~	~		■	~		22 1000 31 87 00
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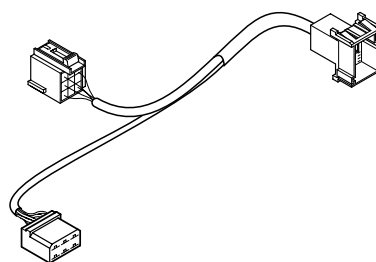
Altitude kit *
Air pressure sensor for heating mode at altitudes up to 3,500 m above sea level



* For use with the Airtronic 1 and Hydronic / Hydronic 2 labeled "H-Kit" on the factory plate on the side

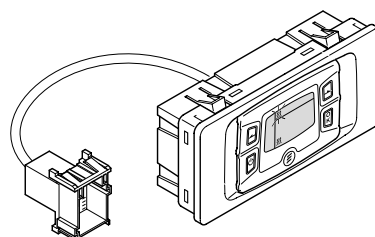
							22 1000 33 22 00
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Adapter cable
For air pressure sensor diagnostics



							22 1000 33 31 00
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Diagnostic device

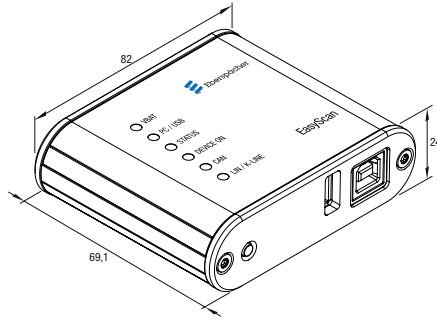


							22 1545 89 00 00
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10 | Testing equipment

EasyScan



Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1550 89 0000

Adapter cable for older models of heater

Airtronic / Airtronic M	22 1000 31 86 00
Hydronic	22 1000 31 63 00
Hydronic 2 / Hydronic 2 C / Hydronic M2 (versions from June 2012)	22 1000 33 78 00
Hydronic L / Hydronic L2	22 1000 31 66 00
Hydronic M	22 1000 32 52 00
Hydronic M2 (versions pre-dating June 2012)	22 1000 33 44 00
B / D1 LC compact, B / D3 LC compact, B / D3 LP compact	22 1000 30 69 00
B / D1 LC, B / D3 LC, B / D3 LP, B / D5 LC	22 1000 30 20 00
D9 W, Hydronic 10	22 1000 31 83 00
Toyota	22 1526 89 03 00
Neoplan	22 1000 31 16 00

Adapter cable * for EasyStart Call and EDITH Basic

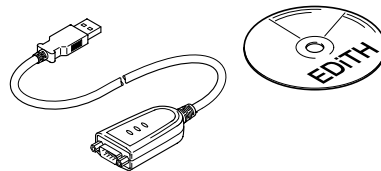
* Cable harness with diagnostic connector

EasyStart Call	22 1000 34 11 00
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Adapter cable for older models of heater vehicle-specific for diagnostic device and EDITH Basic

MAN B / D1 LC compact, B / D3 LC compact	22 1000 32 20 00
MAN B / D1 LC / D3 LC	22 1000 30 32 00
RVI B / D1 LC compact, B / D3 LC compact	22 1000 31 25 00
RVI D1 LC	22 1000 31 23 00
DAF B / D1 LC compact, B / D3 LC compact	22 1000 31 21 00

USB to serial adapter Incl. EDITH diagnostic tool software CD



22 1543 89 00 00



11 | Exhaust-conducting and combustion-air-conducting parts

General information:

The exhaust and combustion air system must be installed in such a way that it ensures the following:

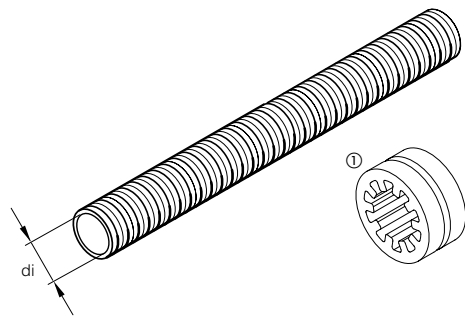
- The connection to the heater plug is sealed.
- The mouth of the pipe is never facing a head wind.
- As far as possible, the mouth of the pipe is protected from spray water ingress and spray must be able to run straight out again without penetrating the heater.
- There is no possibility of heater or vehicle engine exhaust gases being sucked in.
- Please also refer to the safety information on this section in the heater documentation.

Installing the exhaust line:

- Exhaust pipes should always be installed with a fall towards the tail of the pipe.
- If this is not possible, a water drainage hole must be drilled at the lowest point.
- If this point is not in the open air (e.g. in a ship's engine room), this opening must have a sealed connection to an overflow vessel.
- Under no circumstances must any cross-sections in the exhaust line be narrower than those on the heater exhaust connection.
- For permissible lengths, diameters and curvatures in the combustion-air and exhaust lines, see the technical information and installation instructions.

NEW!

Exhaust hose
Stainless steel (yard goods)



①
See page 125 for spacer ring

~ = In combination with exhaust pipe elbow 25 1226 89 46 00

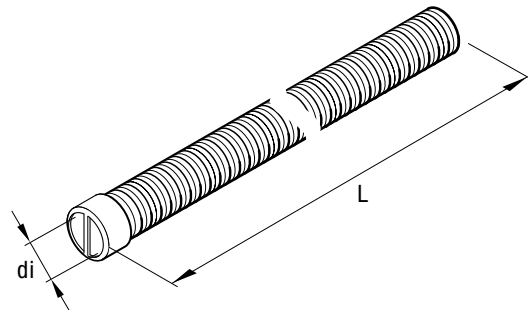
- di = 24 mm, 1-layer
- di = 30 mm, 1-layer
- di = 40 mm, 1-layer, 3,000 mm long
- di = 42 mm, 1-layer

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
■	■	■					360 61 620
■	■	■			■		360 61 650
			~				360 61 681
			■				360 61 690

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
■	■	■					22 1000 40 46 00
■	■	■			■		22 1000 40 49 00
■	■	■			■		22 1000 40 43 00
					■		22 1000 40 65 00

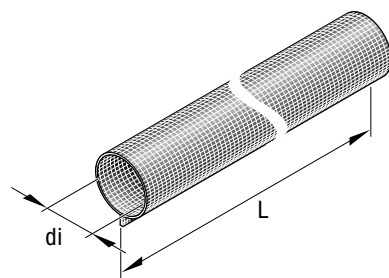
Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
■	■	■					360 00 363
■	■	■			■		25 1676 80 00 01
■	■	■			■		24 0151 00 00 05
					■		25 1894 80 04 01
			■			~	25 1445 05 03 04

Exhaust hose with end sleeve
1-layer stainless steel



- di = 24 mm / L = 400 mm
- di = 24 mm / L = 800 mm
- di = 24 mm / L = 1,300 mm
- di = 30 mm / L = 1,300 mm

Fiberglass hose
Heat protection



* Silicone coated

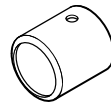
~ = Check diameter of exhaust line

- * di = 28 mm, L = 500 mm
- di = 30 mm, L = 300 mm
- di = 30 mm, L = 150 mm
- di = 40 mm, L = 60 mm
- di = 70 mm, L = 1,200 mm

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11 | Exhaust-conducting and combustion-air-conducting parts

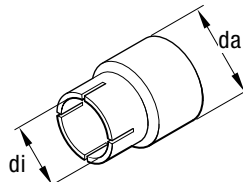
End sleeve for exhaust pipe



Ø 30 mm
Ø 42 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							25 1785 80 02 00
							22 1000 40 02 00

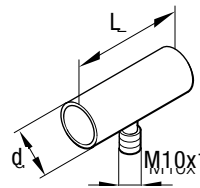
Adapter for exhaust hose



di = 24 mm, da = 30 mm

							25 1520 80 01 01
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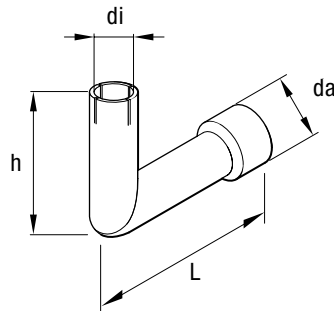
Adapter with condensate drainage



d = 24 mm, L = 65 mm
d = 30 mm, L = 60 mm

							22 1050 89 40 00
							25 1226 89 59 00

Exhaust pipe angle

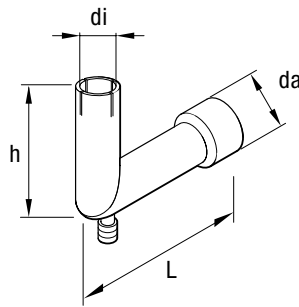


di = 24 mm, da = 30 mm, h = 50 mm / 80 mm

							25 1226 89 55 00
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M10 x 1 exhaust pipe elbow with drainage

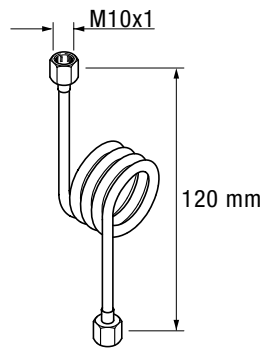


di = 24 mm, da = 24 mm, h = 50 mm, L = 110 mm
 di = 24 mm, da = 30 mm, h = 50 mm, L = 80 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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■	■	■		■			25 1226 89 45 00
■	■	■		■			22 1050 89 39 00

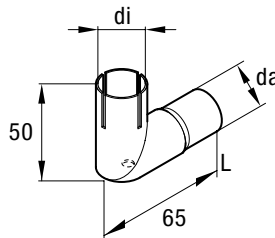
Condensate drain



~ = Only for use with parts that have condensate drainage

~	~	~	~	~	~		25 8547 16 02 00
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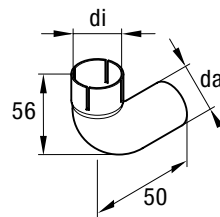
Exhaust pipe elbow



with condensate hole, di = 24 mm, da = 24 mm
 without condensate hole, di = 24 mm, da = 24 mm

■	■	■		■			24 0076 07 01 00
■	■	■		■			24 0172 01 01 00

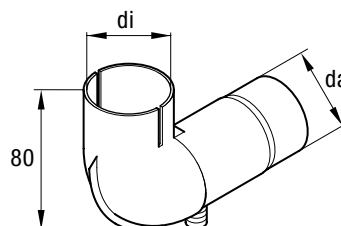
Exhaust pipe elbow



di = 24 mm, da = 24 mm

■	■	■		■			25 2481 80 02 02
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M10 x 1 exhaust pipe elbow with drainage



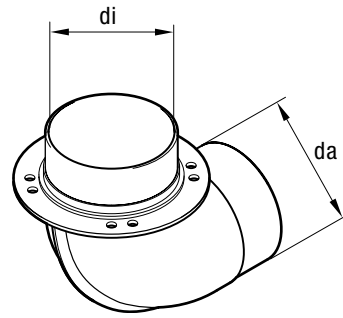
di = 42 mm, da = 40 mm

				■			25 1226 89 46 00
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11 | Exhaust-conducting and combustion-air-conducting parts

Exhaust pipe elbow

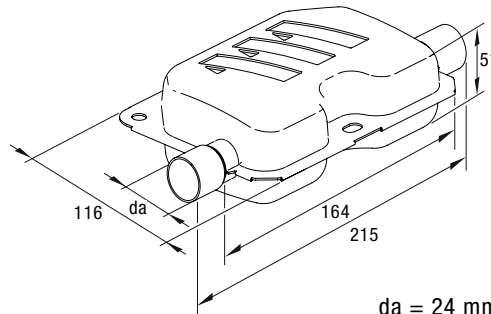


di = 70 mm, da = 72 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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22 1000 40 03 00

Exhaust silencer



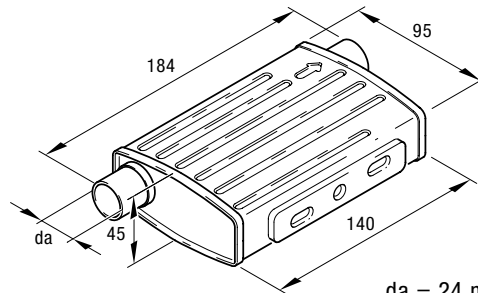
The exhaust silencer must not be installed in boat interiors.

See page 128 for exhaust silencer mounting bracket

da = 24 mm

22 1000 40 21 00

Exhaust silencer



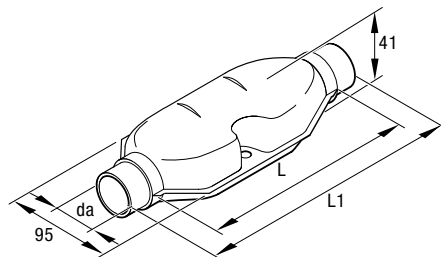
The exhaust silencer must not be installed in boat interiors.

See page 128 for exhaust silencer mounting bracket

da = 24 mm

22 1000 40 19 00

Exhaust silencer



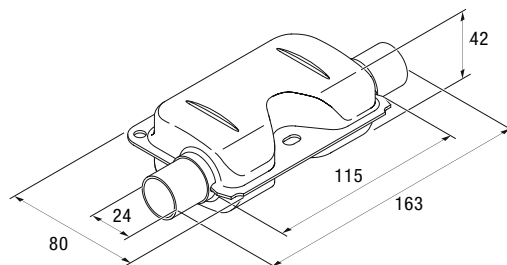
The exhaust silencer must not be installed in boat interiors.

See page 128 for exhaust silencer mounting bracket

da = 30 mm, L = 180 mm, L1 = 224 mm

25 1806 80 01 00

Exhaust silencer



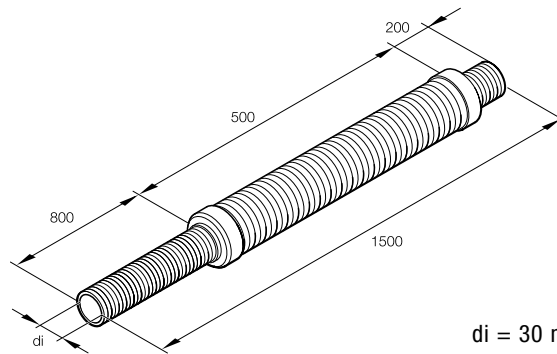
The exhaust silencer must not be installed in boat interiors.

See page 128 for exhaust silencer mounting bracket

da = 24 mm

25 1864 81 01 00

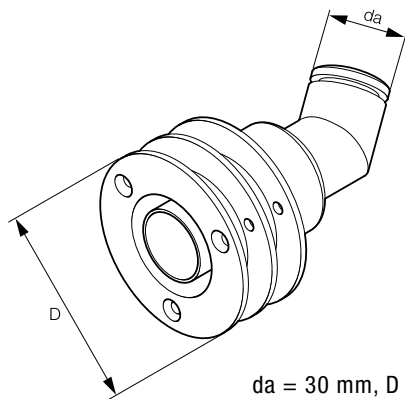
Exhaust silencer
Flexible stainless steel, for boats



~ = Check connection diameter

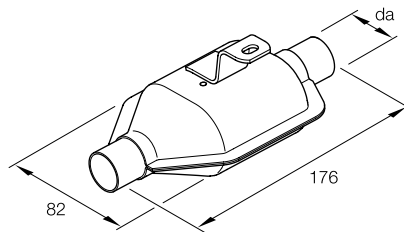
$d_i = 30 \text{ mm}$

Hull fitting
Polished stainless steel



$d_a = 30 \text{ mm}, D = 90 \text{ mm}$

Oxidation catalyst

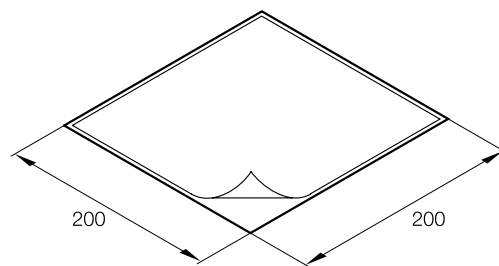


The exhaust silencer must not be installed in boat interiors.

Only for Airtronic diesel heaters; not suitable for use with PME (biodiesel).

$d_a = 24 \text{ mm}$

Self-adhesive aluminum film
Heat protection film

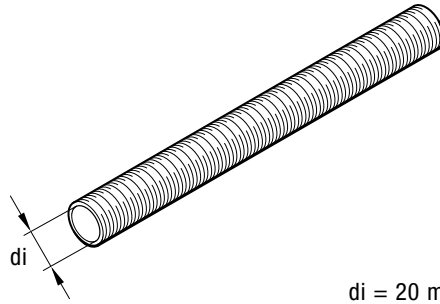


Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
~	~	~	~	~	~	~	25 1226 89 58 00
~	~	~	~	~	~	~	22 1050 89 43 00
~	~	~	~	~	~	~	22 1000 40 17 00
~	~	~	~	~	~	~	871 00 051

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11 | Exhaust-conducting and combustion-air-conducting parts

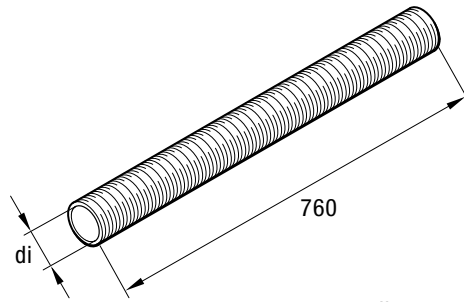
Flexible pipe for combustion air (linear m)



di = 20 mm
di = 25 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							360 00 092 10 2114 21 00 00

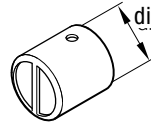
Flexible double pipe for combustion air
Sound-absorbing
Only for use with older heater generations.
See technical description



di = 20 mm

							360 00 179
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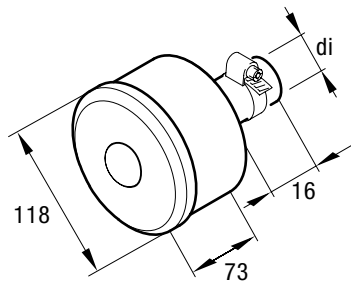
End sleeve with crossbar for combustion-air pipe



di = 20 mm
di = 25 mm

							25 1688 80 12 01 25 1729 89 00 02
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Air filter for combustion air

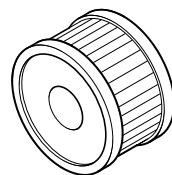


di = 25 mm

~ = Check connection diameter

							330 00 051
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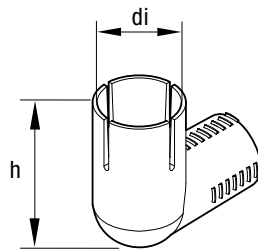
Air filter insert
For air filter 330 00 051



							237 00 052
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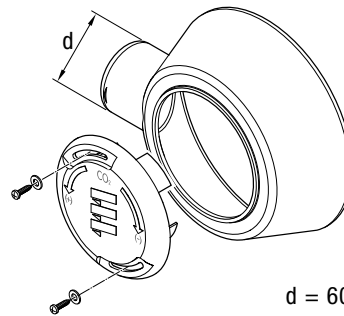
Elbow for combustion air
Plastic



di = 20 mm, h = 45 mm
di = 25 mm, h = 50 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 40 00 02
							22 1000 40 00 01

Scoop with hose connection

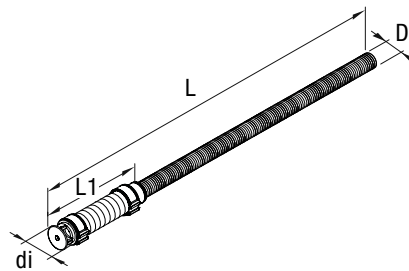


d = 60 mm

Flexible hose, page 82

							22 1000 40 06 00
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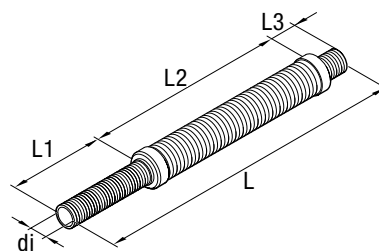
Silencer for combustion air
Flexible
For Hydronic S3, Hydronic 2 and Hydronic



Di = 20 mm, di = 38 mm, L₁ = 180 mm, L = 780 mm

							22 1000 40 00 13
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Silencer for combustion air
Flexible



di = 20 mm, L₁ = 100 mm, L₂ = 160 mm, L₃ = 100 mm, L = 360 mm
di = 25 mm, L₁ = 135 mm, L₂ = 405 mm, L₃ = 25 mm, L = 565 mm
di = 25 mm, L₁ = 100 mm, L₂ = 555 mm, L₃ = 30 mm, L = 685 mm

							22 1000 40 00 08
							20 1689 80 05 00
							25 1945 80 13 00

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12 | Fastening parts

General information:

- The fastening parts supplied take account of all standard installation conditions.
- In installations in cars and buses, the heater or its mount can usually be rigidly attached to the corresponding part of the body.
- However in trucks and in particular, construction machinery, rubber-metal buffers need to be installed as vibration dampers, but these must not be placed under tension or shearing stress.
- This type of rubber-metal component also reduces structure-borne noise transmission and so they are used e.g. on houseboats for installing both the heater and the metering pump.
- Please also refer to the safety information on this section in the heater documentation.

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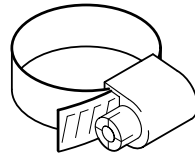
11

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Hose clip



- Ø 16 – Ø 25 mm
- Ø 20 – Ø 32 mm
- Ø 32 – Ø 50 mm
- Ø 40 – Ø 47 mm
- Ø 50 – Ø 70 mm
- Ø 70 – Ø 90 mm
- Ø 90 – Ø 110 mm

~ = Check connection diameter

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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- 10 2067 01 60 25
- 10 2067 02 00 32
- 10 2067 03 20 50
- 15 2090 17
- 10 2067 05 00 70
- 10 2067 07 00 90
- 10 2067 09 01 10

Hose clip with lug



- Ø 9 – Ø 10.5 mm
- Ø 21 – Ø 24.0 mm

~ = Check connection diameter

- 152 61 104
- 152 61 115

Hose clip

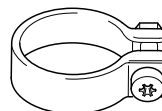


- Ø 7 mm
- Ø 9 mm
- Ø 10 mm
- Ø 11 mm
- Ø 12 mm
- Ø 14 mm

~ = Check connection diameter

- 10 2068 00 70 78
- 10 2068 00 90 98
- 10 2068 01 00 98
- 10 2068 01 10 98
- 10 2068 01 20 98
- 10 2068 01 40 98

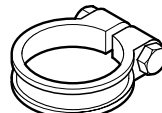
Pipe clip for exhaust pipe



- Ø 26 – Ø 28 mm
- Ø 32 – Ø 34 mm

- 22 1000 51 44 00
- 22 1000 51 45 00

Pipe clip for exhaust pipe



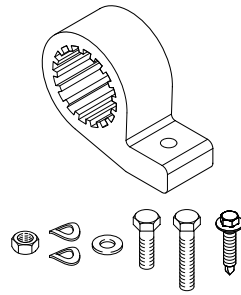
- Ø 42 – Ø 45 mm
- Ø 43 – Ø 46 mm

- 152 09 004
- 152 09 005

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12 | Fastening parts

Mounting bracket for metering pump
and Flowtronic Water Pump 800 S (see page 71)
Rubber

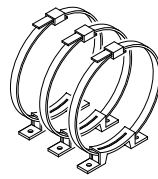


Ø 34 mm
Ø 41 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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22 1000 50 03 00
22 1000 50 07 00

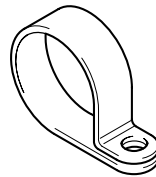
Air hose fastening kit
Plastic, 3 per pack



Ø 60 – Ø 100 mm

22 1000 50 02 00

Clip
Galvanized

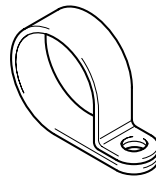


Ø 28 mm
Ø 41 mm
Ø 50 mm
Ø 65 mm

152 09 010
152 10 039
152 09 011
152 09 012

Do not use for flexible exhaust pipes!

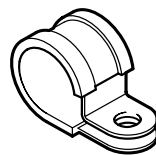
Clip
Stainless steel



Ø 25 mm
Ø 28 mm
Ø 32 mm

152 10 048
152 61 001
152 10 069

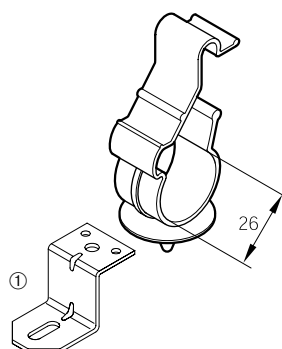
Pipe clip with rubber inlay



Ø 10 mm
Ø 41 mm

152 00 139
152 00 131

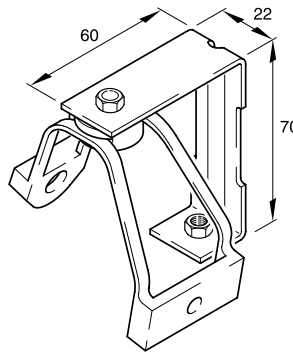
Fastening clip
For water hoses, Ø 15 mm – 20 mm



①
See page 128 for mounting bracket

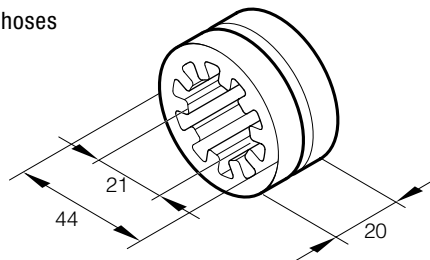
156 31 011

Mounting bracket for metering pump
For use with boats and camping vehicles



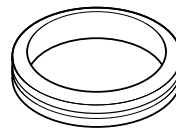
Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							20 1634 80 06 00

Rubber spacer profile for exhaust line and water hoses
Silicone rubber, temperature resistant



							22 1000 50 10 02
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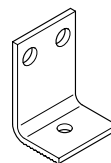
Gasket for exhaust pipe



di = 41 mm

							20 8542 11 00 02
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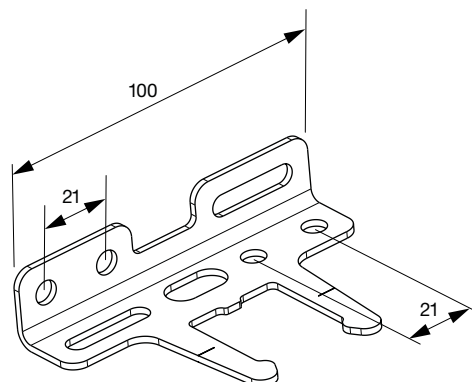
Mounting bracket for water pump
For use with water pump 25 2217 27 00 00
(see page 71)



							25 2217 27 01 00
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NEW!

Mounting bracket for water pump
For use with water pump 25 2652 25 00 00
(see page 71)

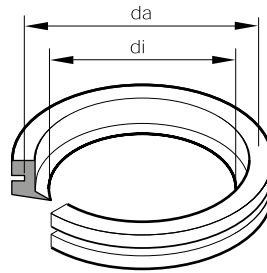


							22 1000 51 39 00
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12 | Fastening parts

Gasket for heating-air duct

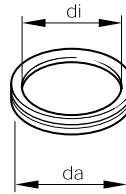


di = 72 – 85 mm, da = 100 mm

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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							20 1280 04 00 01
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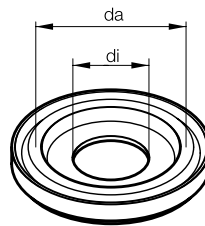
Rubber grommet



di = 4 – 10 mm, da = 16.5 mm

							20 1280 09 01 03
--	--	--	--	--	--	--	------------------

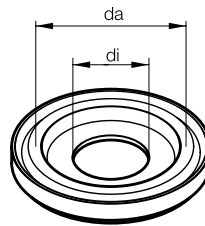
Grommet for combustion-air pipe



di = 25 – 30 mm, da = 41 mm

							20 1282 20 00 01
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Grommet for exhaust pipe

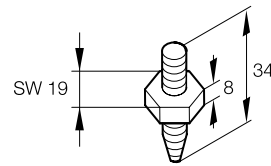


di = 23 – 30 mm, da = 41 mm
di = 38 – 45 mm, da = 60 mm

							20 1549 65 00 02
							20 1282 20 00 02

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Rubber-metal buffer

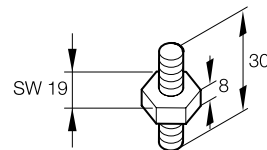


Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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thread size M6 / ST 6.3 C x 15

20 1673 80 01 01

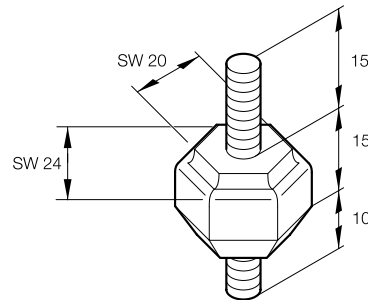
Rubber-metal buffer



thread size 2 x M6 x 11 mm

20 1185 00 00 01

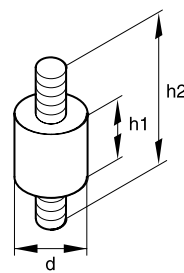
Rubber-metal buffer
Metal-reinforced



thread size M6 x 10 mm / M6 x 15 mm

22 1000 50 00 08

Rubber-metal buffer



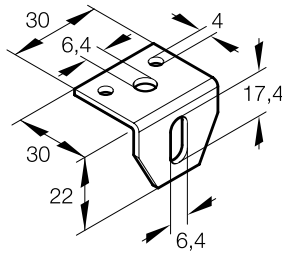
thread size 2 x M6 x 10, d = 20 mm, h1 = 15 mm, h2 = 35 mm
 thread size 2 x M6 x 10, d = 20 mm, h1 = 25 mm, h2 = 45 mm
 thread size 2 x M8 x 13, d = 30 mm, h1 = 15 mm, h2 = 41 mm

20 1607 65 00 02
 20 1609 05 00 04
 330 09 002

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12 | Fastening parts

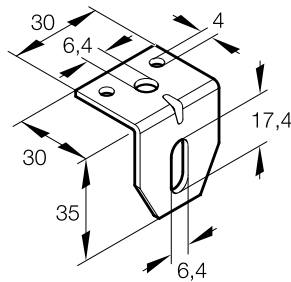
Mounting bracket



Airtronic S (2,2 kW)	Airtronic M (4 kW)	Airtronic L (5,5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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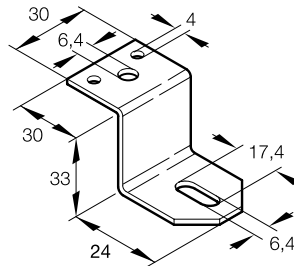
20 1348 03 00 02

Mounting bracket



20 1348 03 00 04

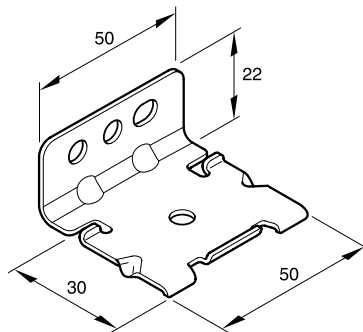
Mounting bracket



20 1533 88 00 07

L-mounting bracket

For exhaust silencer 22 1000 40 19 00

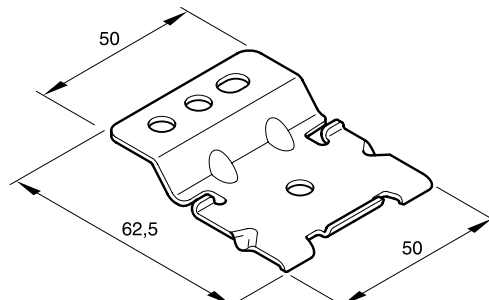


See page 118 for exhaust silencer

22 1000 51 34 00

Z-mounting bracket

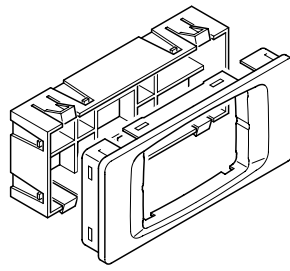
For exhaust silencer 22 1000 40 19 00



See page 118 for exhaust silencer

22 1000 51 35 00

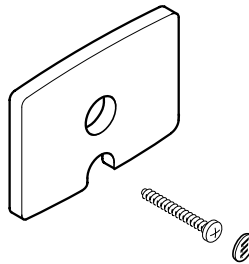
Mounting frame with trim for EasyStart T (TP6)



For use when replacing the modular timer with EasyStart T

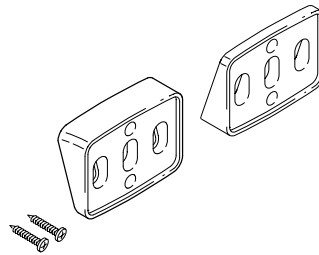
22 1000 51 33 00

EasyStart T – single part
Fastening parts



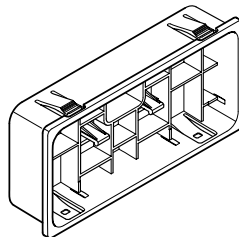
22 1000 32 93 00

EasyStart T – single part
Bracket
For slanting, level or convex installation surfaces



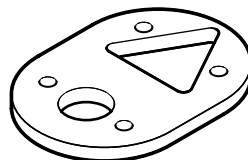
22 1000 51 32 00

Installation frame for EasyStart Timer (TP7)



22 1000 51 41 00

Spacer plate
Rubber



6 mm thick

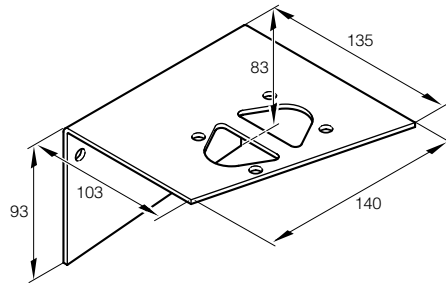
25 1482 89 00 02

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 51 33 00
							22 1000 32 93 00
							22 1000 51 32 00
							22 1000 51 41 00
							25 1482 89 00 02

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12 | Fastening parts

Unit mounting bracket

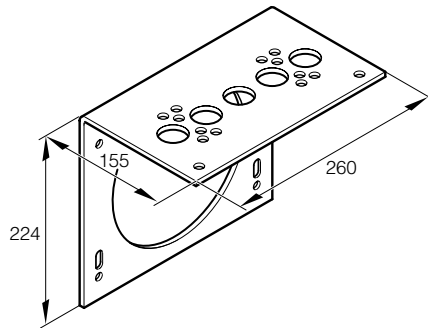


97°
Stainless steel, 105°

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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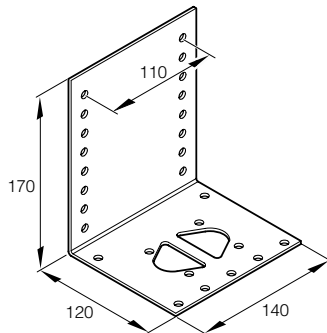
20 1575 89 00 10
22 1050 89 08 00

Unit mounting bracket



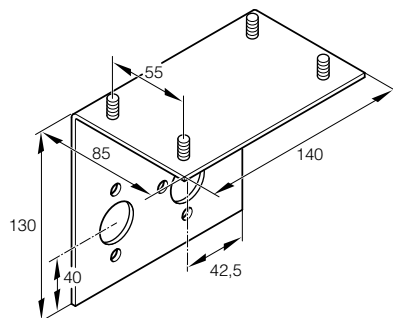
24 0076 00 00 01

Heater mounting bracket



25 1482 89 00 11

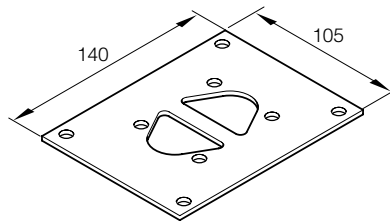
Unit mounting bracket



20 1575 89 04 00

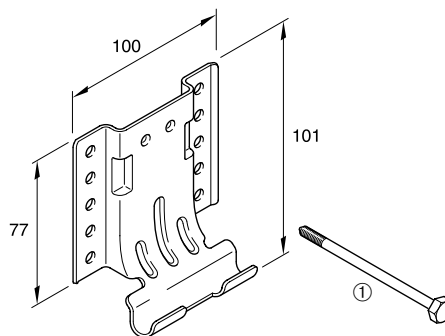
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Fastening plate



Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							25 1482 89 00 13

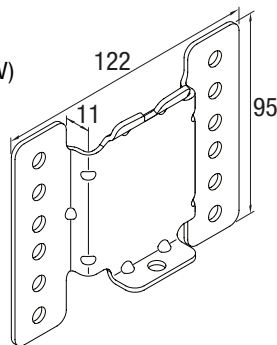
Mounting bracket for Hydronic



①
Also required:
M6x95 fastening screw, order no. 100 10 259

							22 1000 51 36 00
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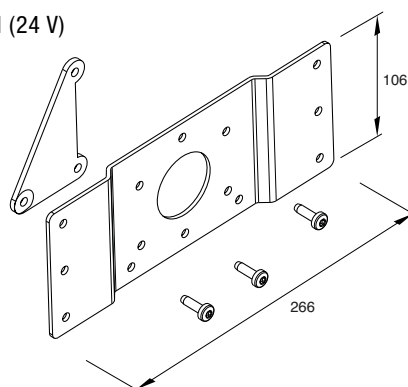
NEW!
Mounting bracket for Hydronic S3 Economy (12 V)



Mounting bracket

							22 1000 51 42 00
--	--	--	--	--	--	--	------------------

NEW!
Mounting bracket for Hydronic S3 Commercial (24 V)



Mounting bracket
Spacer plate with screws M6x20

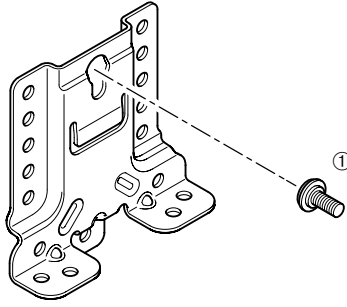
Both parts are required for mounting.

							22 1000 51 50 00
							22 9000 51 51 00

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12 | Fastening parts

Mounting bracket for Hydronic 2



①
Special screw also required:
for Economy / Comfort 25 2526 80 01 01

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
							22 1000 51 37 00

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13 | Name plates / Information signs

General information:

Name plates

The name plate must be easily visible after installation. If necessary, a second (duplicate) name plate can be attached in a clearly visible place on the heater after installation or on one of the covers in front of the heater. A second plate is not required if the original can be seen by removing a cover without the aid of tools.

A second (duplicate) name plate can be sent on request (chargeable). To order this, complete the form below and fax it to the number given.

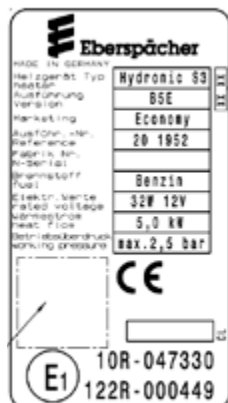
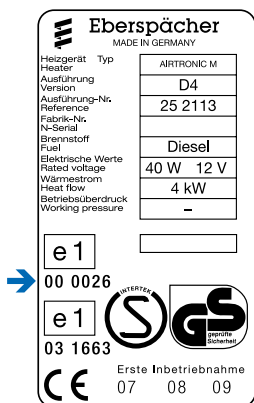
The duplicate name plate costs EUR 15.

Please note!

Name plates for heaters with a general design certification (German: ABG – Allgemeine Bauartgenehmigung) are identifiable by the wavy line which is its mark of conformity (~~~~).



Name plates for heaters with an EC type approval are identifiable by the official EC and EEC [e1] type approval mark.



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13 | Name plates / Information signs

Order

2. Name plate (duplicate)

Copy this form, fill in the information from the original identification label and fax your order to:

+49 (0)711 939 161 338

(Germany only)

Company _____

Contact _____

Street, building number _____

Zip code, town / city _____

VAT-no. _____

Phone _____

Fax _____

Email _____

Sender (please print in block letters)

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Heater type _____

Version _____

Version number _____

Factory number _____

Mark of conformity



or

EC type approval

e1

and

EMC type approval

e1

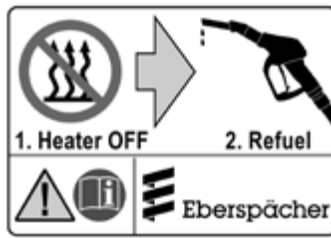
Fuel _____

Electrical values _____

Heat flow _____

Operating pressure _____

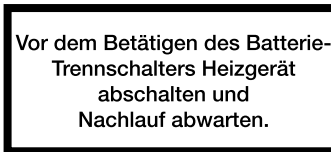
Information sticker



Airtronic S (2.2 kW)	Order no.
Airtronic M (4 kW)	
Airtronic L (5.5 kW)	
Air heater 8 L/V 7 S	
Hydronic S (4 – 6 kW)	
Hydronic M (8 – 12 kW) / M2	
Hydronic L (16 – 35 kW) / L2	

25 2652 05 00 01

Information sticker



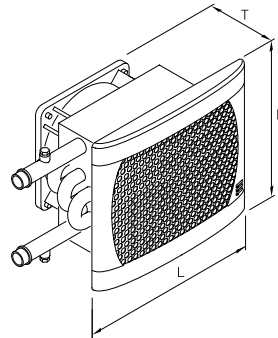
25 1482 89 00 08

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14 | Auxiliary products – convectors

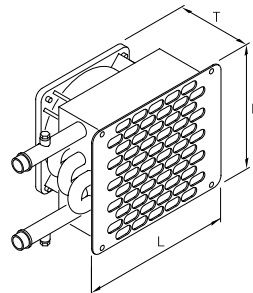
Convectors and fan convectors with 2,000 – 10,000 W output.

HELIOS 2000
Incl. on / off switch, airflow / h 125 m³, 2 kW



	Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L / V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
Aluminum grille L = 172, B = 129, T = 107	12 V	~	~	~	~	~	~	22 2282 10 41 00
	24 V	~	~	~	~	~	~	22 2282 10 42 00
Aluminum grille, gray L = 200, B = 170, T = 105	12 V	~	~	~	~	~	~	22 2282 10 41 20
	24 V	~	~	~	~	~	~	22 2282 10 42 20
Plastic grille, white L = 200, B = 170, T = 105	12 V	~	~	~	~	~	~	22 2282 10 41 21
	24 V	~	~	~	~	~	~	22 2282 10 42 21
Plastic grille, white L = 200, B = 170, T = 105	12 V	~	~	~	~	~	~	22 2282 10 41 22
	24 V	~	~	~	~	~	~	22 2282 10 42 22
Stainless steel grille L = 200, B = 170, T = 105	12 V	~	~	~	~	~	~	22 2282 10 41 09
	24 V	~	~	~	~	~	~	22 2282 10 42 09

HELIOS 2000
Noiseless, incl. on / off switch, airflow / h 125 m³, 2 kW

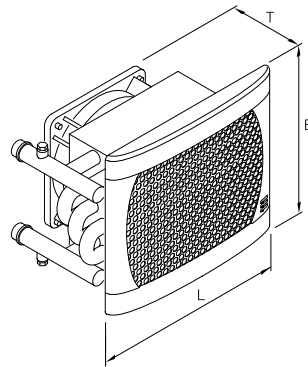


Aluminum grille L = 172, B = 129, T = 107	12 V	~	~	~	~	~	~	22 2282 10 41 26
	24 V	~	~	~	~	~	~	22 2282 10 42 26

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HELIOS 2000 PREMIUM

Incl. on / off switch, airflow / h 125 m³, 2 kW



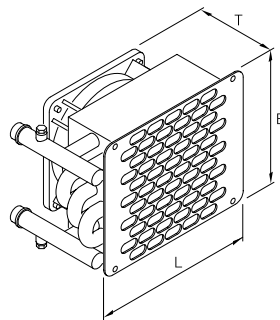
Grille, black 12 V
L = 172, B = 129, T = 103.5 24 V
Grille, white 12 V
L = 172, B = 129, T = 103.5 24 V
Grille, gray 12 V
L = 172, B = 129, T = 103.5 24 V

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
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				~	~	~	22 2282 10 41 13
							22 2282 10 42 16
				~	~	~	22 2282 10 41 12
				~	~	~	22 2282 10 42 15
				~	~	~	22 2282 10 41 11
				~	~	~	22 2282 10 42 11

HELIOS 2000 PREMIUM

Incl. on / off switch, airflow / h 125 m³, 2 kW

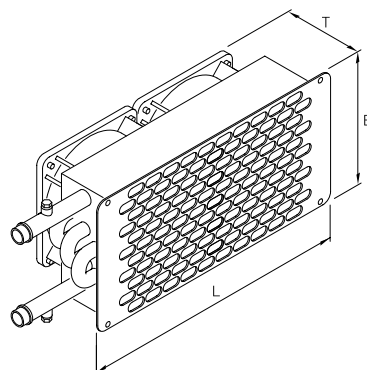


Aluminum grille 12 V
L = 172, B = 129, T = 103.5 24 V

				~	~	~	22 2282 10 41 14
				~	~	~	22 2282 10 42 17

HELIOS 4000

Incl. on / off switch, airflow / h: 250 m³, 4 kW



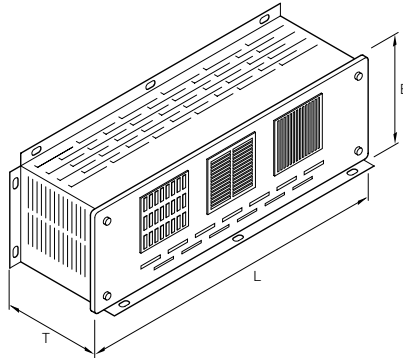
Aluminum grille 12 V
L = 320, B = 129, T = 104 mm 24 V

				~	~	~	22 2282 10 51 00
				~	~	~	22 2282 10 52 00

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14 | Auxiliary products – convectors

HELIOS 7000
With housing and on / off switch, airflow / h 500 m³, 4 kW

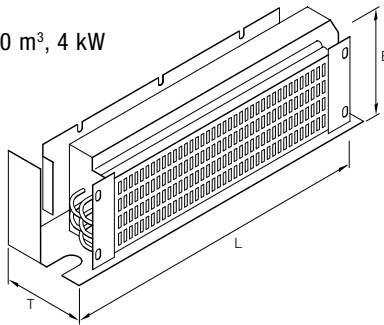


L = 580, B = 129, T = 140 mm

12 V
24 V

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
					~	~	22 2282 10 61 00
					~	~	22 2282 10 62 00

HELIOS 7000
Without housing, with on / off switch, airflow / h 500 m³, 4 kW

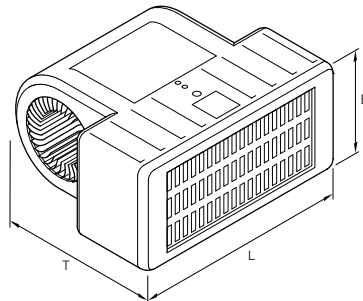


L = 580, B = 129, T = 124 mm

12 V
24 V

					~	~	22 2282 10 61 03
					~	~	22 2282 10 62 03

XEROS 4000
Airflow / h 200 m³, 4 kW



Standard
L = 273, B = 114, T = 207 mm

Plastic grille
L = 273, B = 114, T = 207 mm

Plastic grille, front and side
L = 273, B = 114, T = 207 mm

Marine stainless steel plate
L = 273, B = 114, T = 207 mm

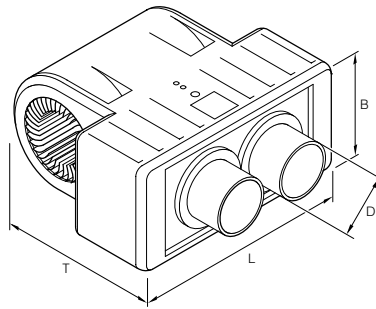
Ø 14, L = 258, B = 115, T = 200 mm

12 V
24 V
12 V
24 V
12 V
24 V
12 V
24 V
12 V
24 V

					~	~	22 2282 11 01 00
					~	~	22 2282 11 02 00
					~	~	22 2282 11 01 10
					~	~	22 2282 11 02 10
					~	~	22 2282 11 01 11
					~	~	22 2282 11 02 11
					~	~	22 2282 11 01 31
					~	~	22 2282 11 02 31
					~	~	22 2282 11 01 02

XEROS 4000

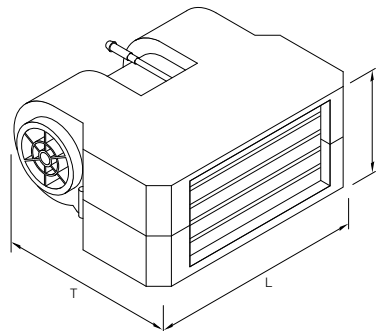
with fittings, airflow / h: 200 m³, 4 kW



- with 2 fittings, Ø 45 12 V
L = 273, B = 114, T = 207 mm 24 V
- with 2 fittings, Ø 50 12 V
L = 273, B = 114, T = 207 mm 24 V
- with 2 fittings, Ø 60 12 V
L = 273, B = 114, T = 207 mm 24 V
- with 2 fittings, Ø 75 12 V
L = 273, B = 114, T = 207 mm 24 V
- with rotatable and closable vents 12 V
L = 273, B = 114, T = 207 mm

ZENITH 8000

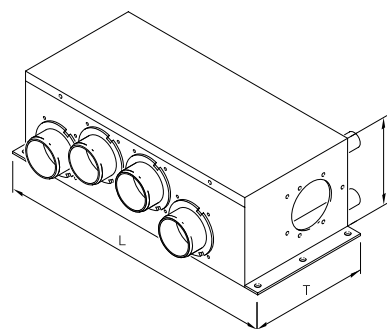
airflow / h: 440 m³, 8 kW



- Standard** 12 V
L = 315, B = 130, T = 242 mm 24 V
- with plastic grilles 12 V
L = 315, B = 130, T = 242 mm 24 V
- with 3 fittings Ø 60 12 V
L = 315, B = 130, T = 242 mm 24 V
- with 3 fittings Ø 75 12 V
L = 315, B = 130, T = 242 mm 24 V
- with 4 fittings Ø 60 12 V
L = 315, B = 130, T = 242 mm 24 V

ARTIK 10 000

airflow / h: 440 m³, 10 kW



- Marine stainless steel defroster** 12 V
L = 442, B = 132, T = 225 24 V

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/V 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
				~	~	~	22 2282 11 01 66
				~	~	~	22 2282 11 02 66
				~	~	~	22 2282 11 01 61
				~	~	~	22 2282 11 02 61
				~	~	~	22 2282 11 01 63
				~	~	~	22 2282 11 02 63
				~	~	~	22 2282 11 01 65
				~	~	~	22 2282 11 02 65
				~	~	~	22 2282 11 01 53
				~	~	~	22 2282 11 21 00
				~	~	~	22 2282 11 22 00
				~	~	~	22 2282 11 21 03
				~	~	~	22 2282 11 22 03
				~	~	~	22 2282 11 21 01
				~	~	~	22 2282 11 22 01
				~	~	~	22 2282 11 21 02
				~	~	~	22 2282 11 22 02
				~	~	~	22 2282 11 21 04
				~	~	~	22 2282 11 22 04
				~	~	~	22 2282 11 31 00C
				~	~	~	22 2282 11 32 00C

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14 | Auxiliary products – convectors

General information on third-party products:

Not all auxiliary products can be purchased direct from Eberspächer. Where applicable, these products must be ordered from the specified supplier.

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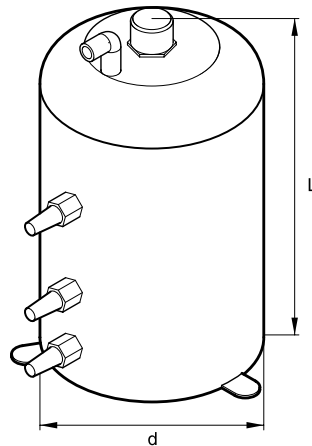
12

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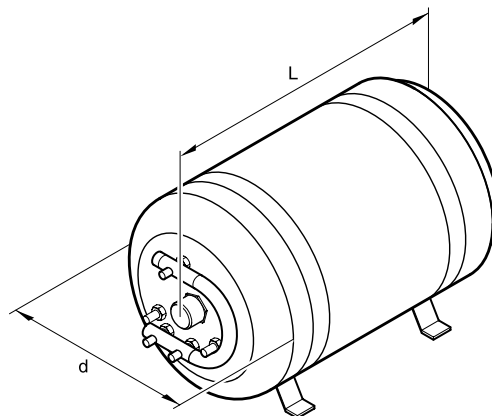
14

Warm water boiler

Supplier:
 Eberspächer (UK) Ltd.
 Headlands Business Park
 Salisbury Road, Ringwood
 Hampshire BH24 3PB, UK
 Tel. + 44 14 25 48 01 51
 Fax. + 44 14 25 48 01 52



10 l, upright, single coil
 L = 390 mm, d = 250 mm



10 l, horizontal, single coil
 L = 550 mm, d = 250 mm

22 l, horizontal, single coil *
 L = 510 mm, d = 370 mm

22 l, horizontal, double coil *
 L = 510 mm, d = 370 mm

30 l, horizontal, single coil *
 L = 610 mm, d = 370 mm

30 l, horizontal, double coil *
 L = 610 mm, d = 370 mm

40 l, horizontal, single coil *
 L = 750 mm, d = 370 mm

40 l, horizontal, double coil *
 L = 750 mm, d = 370 mm

55 l, horizontal, single coil *
 L = 970 mm, d = 370 mm

55 l, horizontal, double coil *
 L = 970 mm, d = 370 mm

75 l, horizontal, single coil *
 L = 1130 mm, d = 400 mm

75 l, horizontal, double coil *
 L = 1130 mm, d = 400 mm

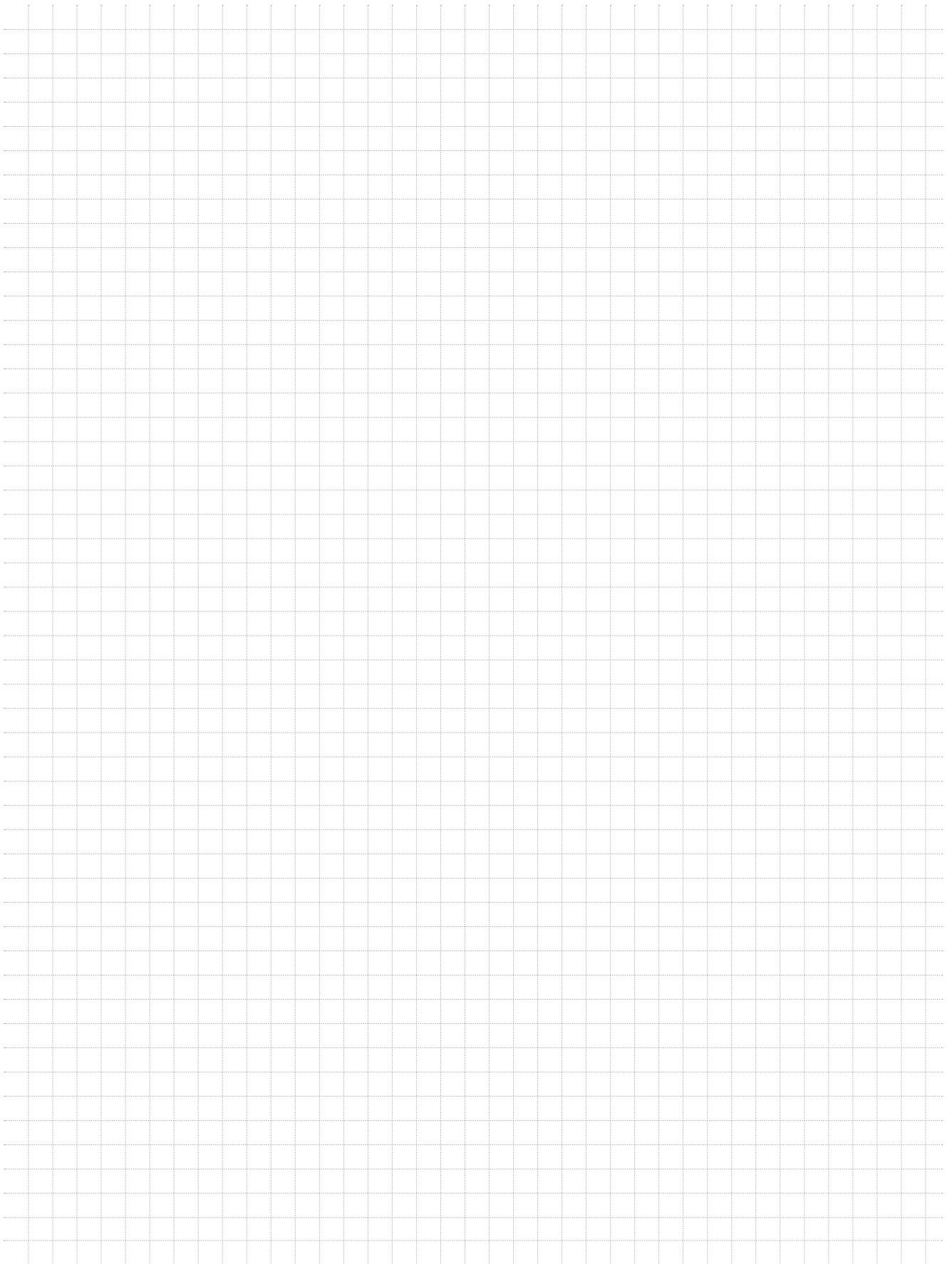
All warm water boilers have an integrated 220 V – 240 V AC heating coil.

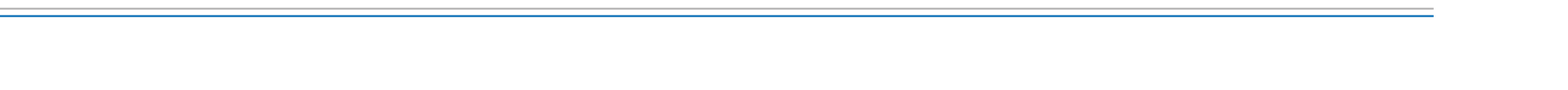
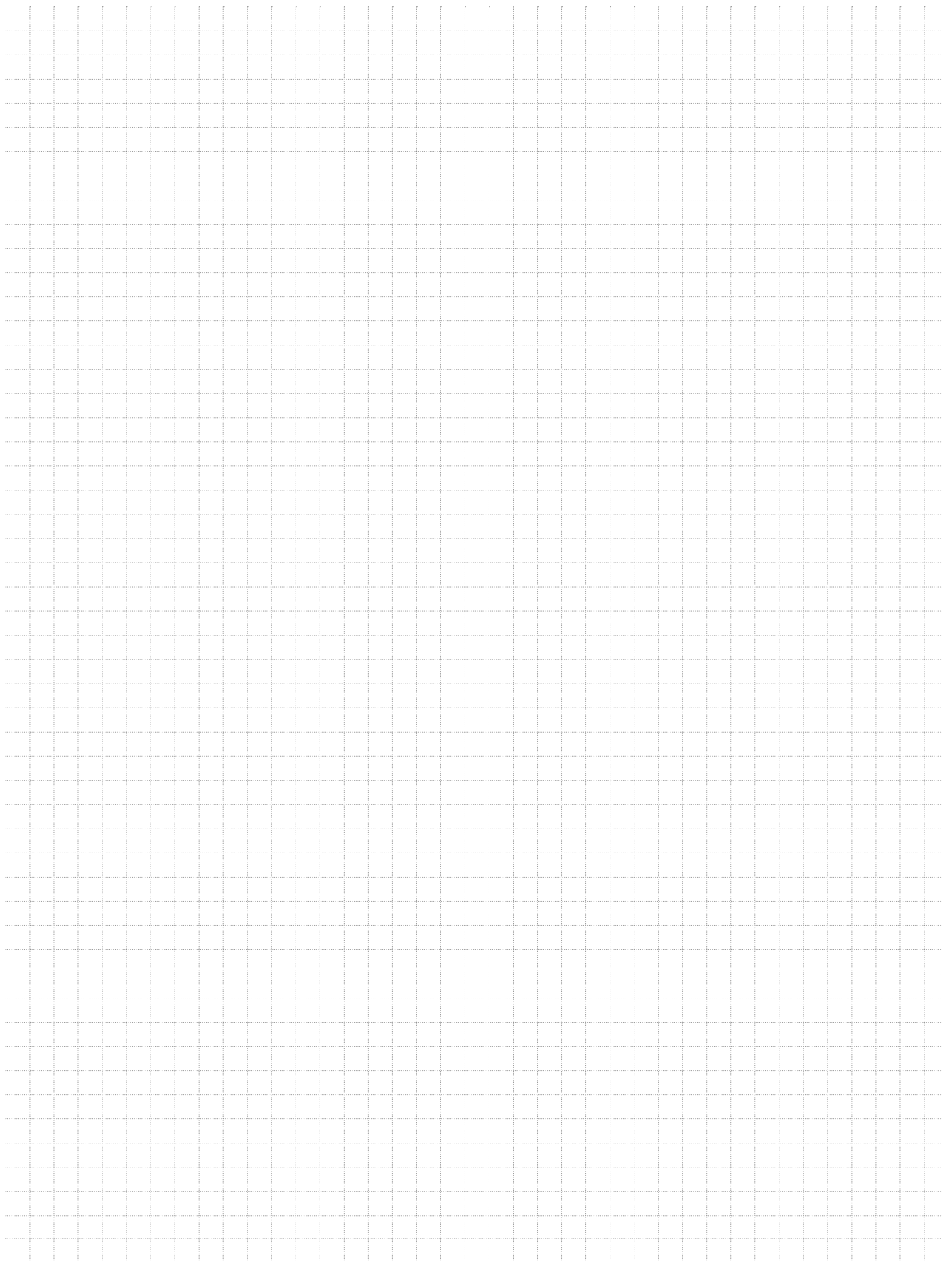
* Thermostatic mixing valve

Airtronic S (2.2 kW)	Airtronic M (4 kW)	Airtronic L (5.5 kW)	Air heater 8 L/N 7 S	Hydronic S (4 – 6 kW)	Hydronic M (8 – 12 kW) / M2	Hydronic L (16 – 35 kW) / L2	Order no.
				~	~	~	17700
				~	~	~	17722
				~	~	~	17794
				~	~	~	17795
				~	~	~	17796
				~	~	~	17797
				~	~	~	17798
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				~	~	~	17800
				~	~	~	17801
				~	~	~	17802
				~	~	~	17803

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Notes





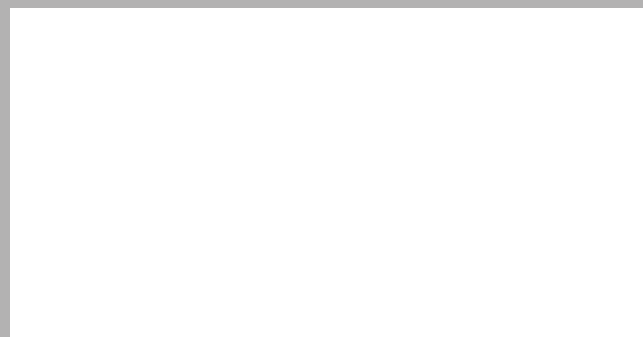
More information is available from any of our 5,000 service partners worldwide.

Germany

Eberspächer Heizung
Vertriebs-GmbH & Co. KG
Wilhelmstrasse 47
17358 Torgelow
Hotline: +49 (0) 3976 2350-235
Fax: +49 (0) 3976 202080
technik-heizung@eberspaecher.com
www.eberspaecher-standheizung.com

Austria

Eberspächer GmbH
IZ NÖ-Süd2
Hondastraße 2, Obj. M47
2351 Wiener Neudorf
Phone: +43 (0) 2236 677 144-0
Fax: +43 (0) 2236 677 144-42
office-at@eberspaecher.com
www.eberspaecher.at



Eberspächer Climate Control Systems GmbH & Co. KG
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73730 Esslingen
GERMANY
Phone: +49 (0) 711 939-00
Fax: +49 (0) 711 939-0634
info@eberspaecher.com
www.eberspaecher.com

