

# COMPLETE HEATING SYSTEMS FROM ESPAR



JUNE 2018

## QUICK-REFERENCE GUIDE



Eberspaecher heaters have become one of the most popular money saving products available in the heavy-duty truck market today.

Typical savings using an Airtronic D2 can be as much as \$6,000 per unit per year based on current fuel prices. Below you will find the most popular most popular selling kit numbers for our air and coolant heater models.

For a detailed listing of our complete product line including heater kits, accessories and controllers for heavy truck, light truck, school bus, industrial and oil field markets please see the following pages.

All the heater products mentioned on the Quick-Reference pages are EPA Verified and CARB compliant for worry-free operation anywhere in the United States.

### AIRTRONIC D2

DIESEL AIR HEATER / TRUCK BUNK HEATER

The Airtronic D2 puts out 7,500 BTU of clean comfortable heat and is ideal for bunk heating in all makes of heavy-duty trucks. It has a higher heat output than competitive models and is equipped with a standard fan-mode for nights when air circulation is preferred instead of heating.

The most popular Airtronic D2 kit is listed below. It comes with everything needed for installation including: Heater, Digi-Max Controller, fuel system, mounting hardware kit and all ducting.

**Airtronic D2 – Truck Kit with Digi-Max Controller** 20 2820 69 02 63

The Digi-Max Controller is the latest generation of heater controls and is an Eberspaecher exclusive. It provides an easy to set digital display, an onboard air temperature sensor, an adjustable auto shutoff, adjustable low voltage protection, records maintenance hours and displays trouble shooting tips for fault codes displayed.

Use of an engine pre-heater reduces cold start wear on internal components, reduces stress on the starting/cranking system, and can help extend DOC/DPF regen and replacement cycles by reducing cold-start white smoke.

### COMBO KITS

DIESEL AIR AND COOLANT HEATER PACKAGES

In some markets the weather is cold enough that drivers may prefer to run the Airtronic D2 for cab heat and the Hydronic 3 D5E for engine preheating.

In this case the driver will typically use the D2 for a comfortable night's sleep and turn the engine pre-heater on about an hour before getting up – ensuring a reliable engine start and quicker start of operation.

Combo Kits are specially priced and include both the D2 with Digi-Max controller and HS3 D5E with EasyStart timer along with the mounting components mentioned above.

The most popular numbers for combo kits with Hydronic 3 D5E with EasyStart timer & Airtronic D2 w/Digi-Max Controller are:

**1** Airtronic D2 with Digi-Max Controller and Hydronic 3 D5E with EasyStart timer 20 2812 15 20 65

**2** Airtronic D2 with Digi-Max controller and Boxed Hydronic 3 D5E Right with EasyStart timer 20 2812 15 20 66

**3** Airtronic D2 with Digi-Max controller and Boxed Hydronic 3 D5E Left with EasyStart timer 20 2812 15 20 67

State-of-the-art heating with the new Eberspaecher **HYDRONIC S3 ECONOMY (5KW) PRE-HEATER SYSTEM**

Eberspaecher, the leading system developer and supplier of vehicle heaters, is expanding its product portfolio with the new Hydronic S3 Economy (5kW) pre-heater. The water heater impresses thanks to its compact dimensions and flexible installation options for simple retrofitting in a large number of vehicle models. As a ground-breaking all-in-one solution with comprehensive peripheral devices, it offers installation partners many practical advantages. With the new EasyScan, diagnostic and service tool, workshop staff can analyze the operating condition of the pre-heater easily and quickly.

- Compact, efficient water heater
- Innovative peripheral devices and new diagnostic device
- Simplified installation
- CARB approved

**Hydronic S3 Economy (5kW) Definition:**

**Hydronic:** Water & Electronic, Product line, water heater

**S3:** Size and generation, Size (small) Generation 3

**Economy:** Marketing appendix, entry model

**Compact and robust water heater for simple installation**

With the third generation of its Hydronic series, Eberspaecher is offering an easy-to-operate preheater with stepless heating power control. The coolant heater works efficiently with all popular types of fuel. Due to its robust construction – with an encapsulated fan motor and the separation of cold and hot components – it is designed for longevity.

A high IP protection class also secures the unit from the ingress of water during high-pressure or steam jet cleaning. The new water spigots are fully rotatable by 360 degrees and are fully replaceable, they ensure convenient and rapid fitting in a range of installation positions. Optimized brackets enable the pre-heater to be mounted anywhere in the smallest possible space and to be attached rapidly and permanently. (See page 12)

### HEATER INSTALLATION TIPS

For a time saving video showing a typical Class 8 truck installation for each of these products please visit the Eberspaecher website at [www.eberspaecher-na.com](http://www.eberspaecher-na.com) and see the links along the right side of the main Downloads page.

See your local dealer for special pricing on quantity purchases of money-saving Eberspaecher heaters.

# QUICK-REFERENCE GUIDE

## INTRODUCTION PAGE

On the following pages you will find the entire offering of Eberspaecher heaters, heater kits, control options and accessories.

Below are some tips on how to best choose the products you are looking for.

## PAGE LAYOUT

The Product Catalog is a complete listing of the products we sell.

In the heater section, you can trace the heater you are considering straight across to the dots in the columns on the right side of the page.

These columns have a header row showing the items offered - with the dots indicating which of them actually come in the kit being selected.

In the accessory section, you trace the accessory across to the dots on the far right to see what heaters that component is used with.

## HEATER CHOICES

Our heaters come in both 12 and 24 Volt offerings and in Gasoline (B prefix) and Diesel (D prefix) models.

When selecting a heater model, be sure to begin with the right voltage and fuel type for your application. The “Basic” heaters shown are just that, a bare heater, and are usually used as replacements. If a heater price seems too low, compared to other models, be sure it’s not a basic kit.

### RECOMMENDED

There are a variety of kits and components in the catalog that may look similar. When more than one item is listed, look for the **RECOMMENDED** label. This indicates that item is one of the more commonly sold products of those that are listed. However, we want to make sure you get the right equipment for the job so if you are in doubt please don’t hesitate to call your local regional sales manager or our tech service department (800-387-4800) for assistance.

### EMMISSIONS

Eberspaecher offers more EPA Verified / CARB Compliant heater choices than any other manufacturer. Look for the EPA label when selecting a heater for specific applications.

### AIRTRONIC HEATER KITS

Unless specified otherwise these kits are usually sold as complete with installation components. The variables are usually limited to multiple controller and fuel pickup choices. These are all noted in the kit description and in the columns on the right side of the page.

### HYDRONIC HEATER KITS

Unless otherwise noted these units are typically sold ala-carte – with the heater kit, timer/controller and even installation kits purchased separately to provide maximum installation flexibility. Always check the description and the kit component listing in the columns on the right side of the page.

### CONTROLLERS

Eberspaecher offers a variety of controllers for almost every heater model and application combination. The most popular air heater controller is the Digi-Max Controller with the 7-Day (truck) and Programmable (school bus) timers the most popular for coolant heaters.

School bus and/or industrial applications using coolant heaters may also choose to include the Multi-Function Switch.



## QUICK-REFERENCE GUIDE

### FUEL PICK-UP / FMP OPTIONS:

Eberspaecher makes a number of fuel pickup and fuel pump mounting options to help streamline installations.

Below you will find a summary of some of those choices.

- **UNIVERSAL PICKUP** – Unless designated otherwise, Eberspaecher heater kits that show to have a fuel pickup tube come with our “Universal Pickup.” This offers the flexibility of a typical drill-the-tank installation or the ability for installation in an existing NPT port on the fuel tank (if available).
- **NO PICKUP** – Kits marked “No Pickup” do not have a fuel pickup tube. A variety of pickup tubes, including those for specialty use or to be used with NPT compression fittings, are located in the fuel section. Choosing the right fuel pickup can save time and provide a custom installation.
- **VENT PICKUP** – Kits marked “Vent Pickup” come with a fuel pickup tube made for installation using the trucks fuel system vent port.
- **EXTERNAL / INTERNAL FMP** – The Eberspaecher FMP’s, or fuel metering pumps, can pull fuel 6’ and push it approximately 20’, thus the FMP needs to be located within 6’ of the primary fuel source. Coolant heater kits with an External FMP typically are used when the heater is located more than 6’ from the fuel source.

### BOXED:

Kits marked “Boxed” means the heater comes installed in a rugged metal enclosure for protection and long-life. The box is usually frame rail mounted but can also be used in a variety of industrial or heavy equipment applications. Eberspaecher’s large coolant heater models use a heavy-duty box and carries a direct replacement footprint for many legacy heaters in the field.

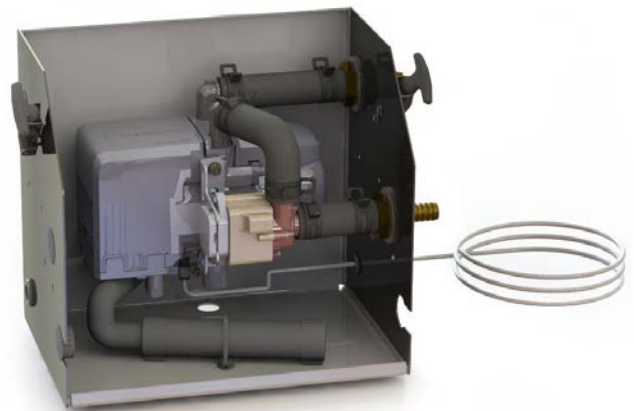
### SPECIALTY KITS:

Eberspaecher manufactures several specialty kits to provide the best heater life and maximum levels of reliability and safety for end-users.

- **HIGH ALTITUDE** – Eberspaecher provides a number of options to get the best performance from units operating at higher altitudes where the air is thin and heaters tend to run rich. These include: A full heater truck kit - OR - a fuel metering pump adjusted for full-time high altitude operation or a plug-and/play module for leaning out fuel delivery. The latter two can be used to modify a standard heater kit for HA operation. All are geared toward heaters in applications spending longer amounts of time operating above 4,900 ft.

### SPARE PARTS:

For all spare parts information, please reference heater ‘s “Spare Parts Manual”. <https://www.eberspaecher-na.com/download-center/technical-manuals.html>



## QUICK-REFERENCE GUIDE

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# AIRTRONIC D2/D4 DIESEL AIR HEATER - 7,500 BTU / 13,600 BTU

KITS DESCRIPTION PART NUMBER		Heater	Harness	Fuel System	Ducting	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Manuals
<b>AIRTRONIC D2 / D4 - Carb Approved</b>												
D2 Basic Heater 12V with fuel pump - No installation parts	25 2069 05 00 00	■										■
D2 Basic Heater 24V with fuel pump - No installation parts	25 2070 05 00 00	■										■
D2 Eberspaecher Universal Installation Kit 12V and 24V	20 2820 69 02 80		■	■	■			■	■	■	■	
D4 Basic Heater 12V with fuel pump - No installation parts	25 2113 05 00 00	■										■
D4 Basic Heater 24V with fuel pump - No installation parts	25 2114 05 00 00	■										■
D4 Eberspaecher Universal Installation Kit 12V and 24V	20 2821 13 04 80		■	■	■			■	■	■	■	
<b>AIRTRONIC D2 / D4 - Carb Approved HEATER WITH INSTALLATION KIT</b>												
D2 Truck Kit 12V w/ Digi-Max Controller w/ Universal pick up <b>RECOMMENDED</b>	20 2820 69 02 63	■	■	■	■	■	■	■	■	■	■	■
D2 Truck Kit 12V w/ Digi-Max Controller, no fuel pick-up pipe	20 2820 69 02 61	■	■	■	■	■	■	■	■	■	■	■
D2 Truck Kit 24V w/ Digi-Max Controller w/ Universal pick up pipe	20 2820 70 02 85	■	■	■	■	■	■	■	■	■	■	■
D4 Truck Kit 12V w/ Digi-Max Controller w/ Universal pick up pipe <b>RECOMMENDED</b>	20 2821 13 04 23	■	■	■	■	■	■	■	■	■	■	■
D4 Truck Kit 24V w/ Digi-Max Controller w/ Universal pick up pipe	20 2821 14 04 85	■	■	■	■	■	■	■	■	■	■	■
D4 Cargo Kit 12V with Thermostat (no heater)	20 2900 00 04 01		■	■	■	x	■	■	■	●	■	
<b>HIGH ALTITUDE COMPENSATION KITS - FOR UNRESTRICTED HEATER USE OVER 5000 FEET</b>												
High Altitude Fuel Pump	24 0222 00 00 00											
High Altitude Compensator - Can not be used with heaters that have "H-Kit" on factory label	20 2900 70 00 07											
High Altitude Sensor - Only use with heaters that show "H-Kit" on their factory label	22 1000 33 22 00											

■ Unrestricted use

x Cargo bracket

● Exhaust with plate



1

**HARDWARE KIT INCLUDES:**

- |             |                 |                |                  |
|-------------|-----------------|----------------|------------------|
| Fuel Clamps | Grommets        | Ducting Clamps | End Caps         |
| Nuts        | Exhaust Clamps  | Washers        | Exhaust Brackets |
| Cable Ties  | Mounting Screws | Routing Clamps |                  |

**FUEL SYSTEM INCLUDES:**

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

3

Refer to the Accessories Section for ducting components and additional accessories.  
For the addition of engine preheat, refer to the Combo Truck Kits Section.

# AIRTRONIC D2/D4 — BUILD YOUR OWN KIT

## DIESEL AIR HEATER - 7,500 BTU / 13,600 BTU

Heater	Harness	Fuel System	Ducting	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Manuals
■	■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■	■

**AIRTRONIC D2/D4 - Carb Approved**

**STEP 1 - SELECT BASIC KITS:**

D2 12V Heater basic assembly	20 2820 69 02 70
D4 12V Heater basic assembly	20 2821 13 04 40
D2 24V Heater basic assembly	20 2820 70 02 29
D4 24V Heater basic assembly	20 2821 14 04 29

**STEP 2 - SELECT ONE OF THE FOLLOWING CONTROL OPTIONS**

DIGI-MAX Controller	20 2800 70 15 00
7 Day Timer Kit	20 2900 70 02 35
EasyStart Timer	22 1000 34 15 00
Thermostat 12V	5670097
Thermostat 24V	5670096
Rheostat Switch 12V	25 1895 71 00 00
Rheostat Switch 24V	25 1896 71 00 00

**STEP 3 - SELECT FUEL PICKUP PIPE OPTIONS**

Fuel Pick-up Pipe 2 mm with 1/4" npt	20 2900 20 20 10
Automotive Pick-up Pipe	22 1000 20 11 00
Fuel Pick-up Pipe 2 mm w/ftng 23.5 in	20 2900 20 20 04
Dual Vent Fuel Pick-up Pipe 2 mm	20 2900 20 20 07

**STEP 4 - SELECT ONE OF THE FOLLOWING HEATER AIR OUTLET HOOD**

D2 Straight Air Outlet Hood 60mm	22 1000 01 00 16
D2 90° Air Outlet Hood 60mm	22 1000 01 00 20
D2 Straight Air Outlet Hood 75mm	22 1000 01 00 17
D2 90 Air Outlet Hood 75mm	22 1000 01 00 28
D4 Straight Air Outlet Hood 90mm	22 1000 01 00 19
D4 90° Air Outlet Hood 90mm	22 1000 01 00 23
D4 Straight Air outlet Hood 75mm	22 1000 01 00 18
D4 90 Air Outlet Hood 75mm	22 1000 01 00 22

**STEP 5 - SELECT FLEXIBLE AIR HOSE**

60mm in diameter	10 2114 31 00 00
75mm in diameter	10 2114 34 00 00
90mm in diameter	10 2114 37 00 00

# AIRTRONIC B4 GASOLINE AIR HEATER - 13,600 BTU

## AIRTRONIC B4 - GASOLINE

Gasoline Basic Heater 12V with fuel pump	20 1812 05 00 00
Eberspaecher Universal Installation Kit 12V and 24V	20 2821 13 04 80

## AIRTRONIC B4 GASOLINE TRUCK KIT

12v with Digi-Max Controller	20 2818 12 04 85
------------------------------	------------------

Heater	Harness	Fuel System	Ducting	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Manuals
■										■
	■	■	■			■	■	■	■	
■	■	■	■	■	■	■	■	■	■	■

■ Unrestricted use



1

### HARDWARE KIT INCLUDES:

- |             |                 |                |                  |
|-------------|-----------------|----------------|------------------|
| Fuel Clamps | Grommets        | Ducting Clamps | End Caps         |
| Nuts        | Exhaust Clamps  | Washers        | Exhaust Brackets |
| Cable Ties  | Mounting Screws | Routing Clamps |                  |

### FUEL SYSTEM INCLUDES:

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

3

Refer to the Accessories Section for ducting components and additional accessories.  
For the addition of engine preheat, refer to the Combo Truck Kits Section.



# AIRTRONIC B5 GASOLINE AIR HEATER - 18,800 BTU AIRTRONIC D5 DIESEL AIR HEATER - 18,800 BTU

		Heater	Harness	Fuel System	Ducting	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Manuals
<b>AIRTRONIC B5 - GASOLINE</b>												
Basic Heater 12V with fuel pump with outlet hood	20 1859 05 00 00	■										■
<b>AIRTRONIC D5 - Carb Approved - DIESEL</b>												
Basic Heater 12V with fuel pump with outlet hood	25 2361 05 00 00	■										■
Basic Heater 24V with fuel pump with outlet hood	25 2362 05 00 00	■										■
<b>UNIVERSAL INSTALL KITS</b>												
JE Universal Installation Kit 12V and 24V	25 2361 80 00 00		■	■	■				■	■	■	
Eberspaecher Universal Installation Kit 12V and 24V	20 2823 61 05 80		■	■	■			■	■	■	■	
<b>AIRTRONIC D5 TRUCK KITS - Carb Approved - DIESEL</b> <span style="background-color: #0070C0; color: white; padding: 2px;">RECOMMENDED</span>												
Truck Kit 12V w/Rheostat Switch	20 2823 61 05 10	■	■	■		■	■	■	■	■	■	■
Truck Kit 12V w/Digi-Max	20 2823 61 05 11	■	■	■			■	■	■	■	■	■
<b>CARGO KITS</b>												
Cargo Kit 12V w/Thermostat Does Not Include Heater	20 2900 00 05 50		■	■		x		■	■	●	■	
Echo 5 Cargo Kit (See page 11)	20 2823 61 05 18	■	■	■		■	■	■	■	■	■	■
<b>HIGH ALTITUDE COMPENSATION KITS - FOR UNRESTRICTED HEATER USE OVER 5000 FEET</b>												
Fuel M Pump 24V for 25 2362 05	22 4522 03 00 00											

■ Unrestricted use

■ x Cargo bracket

● Exhaust with plate



### HARDWARE KIT INCLUDES:

- |             |                 |                |                  |
|-------------|-----------------|----------------|------------------|
| Fuel Clamps | Grommets        | Ducting Clamps | End Caps         |
| Nuts        | Exhaust Clamps  | Washers        | Exhaust Brackets |
| Cable Ties  | Mounting Screws | Routing Clamps |                  |

### FUEL SYSTEM INCLUDES:

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

Refer to the Accessories Section for ducting components and additional accessories.  
For the addition of engine pre-heat, refer to the Combo Truck Kits Section.

# D8LC

## DIESEL AIR HEATER - 27,300 BTU

**PLEASE NOTE:**

- No installation kits available for this heater.

D8LC		
Basic Heater 12 volt		25 1890 00 00 00
INCLUDES:	Control Unit Fuel Pump Rheostat Switch External Temperature Sensor Combustion Air Tube Shock Mounts Mounting Bracket (large) Mounting Bracket (small)	
Basic Heater 24 volt		25 1891 00 00 00
INCLUDES:	Control Unit Fuel Pump Rheostat Switch External Temperature Sensor Combustion Air Tube Shock Mounts Mounting Bracket (large) Mounting Bracket (small)	
Accessories		
Harness		
	External Harness 20 feet	20 2900 70 08 02
Fuel		
	Fuel line 5.0mm black rubber, suction side	360 75 350
	Fuel line 2.0mm white plastic, pressure side	890 31 055
	Fuel line connector piece 3.5mm for 2mm fuel line	360 75 300
	Fuel pick-up pipe 4mm	20 2900 20 20 50
	Clamp 9mm for 3.5mm hose	10 2068 00 90 98
	Clamp 11mm for 5mm hose	10 2068 01 10 98
Exhaust		
	Flexible stainless steel exhaust 42mm	5530013
	Exhaust clamp	152 09 004
	Exhaust end cap for 42mm	22 1000 40 02 00
	Flexible air intake 30mm SPECIAL ORDER	10 2114 25 00 00
Controls		
	Thermostat 12 volt	5670097
	Thermostat 24 volt	5670096
Cargo Kit		
	Echo 8 Cargo kit (see page 11)	20 2818 90 0828

1

1

2

3

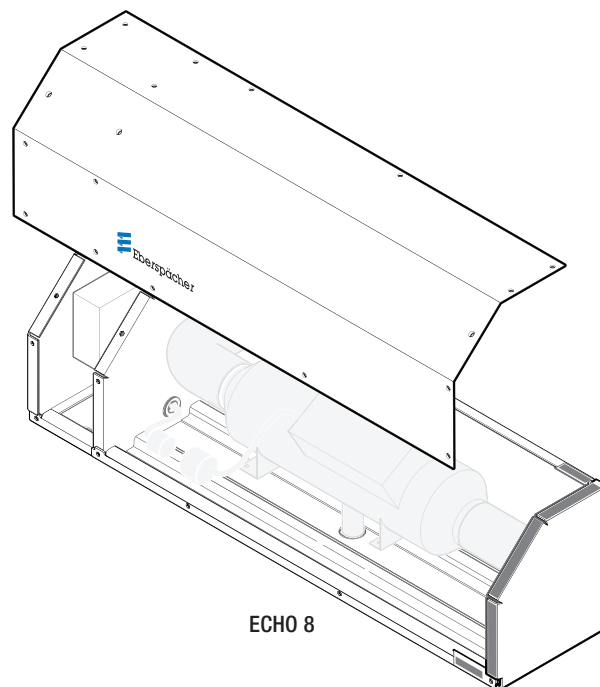
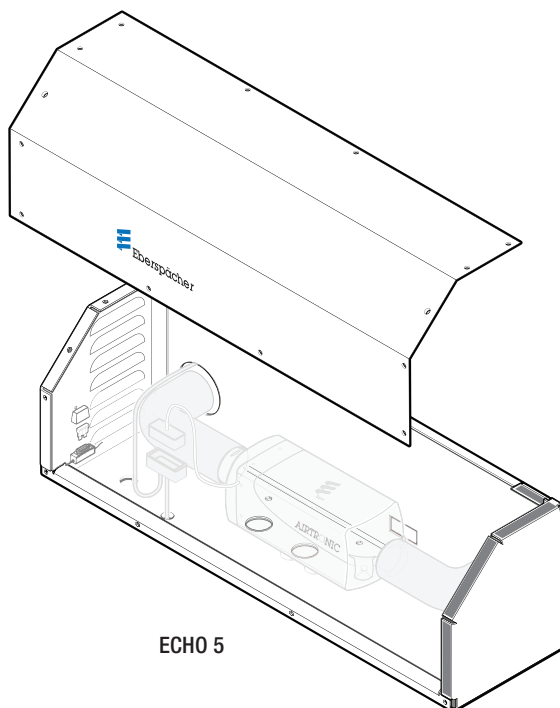
Refer to the Accessories Section for ducting components and additional accessories.

# ECHO CARGO KIT

<b>ECHO 5 (AIRTRONIC D5 HEATER Nose Mount)</b>	20 2823 61 05 18
<b>INCLUDES:</b>	<ul style="list-style-type: none"> <li>Mounting Box</li> <li>Mounting Bracket</li> <li>Exhaust shield</li> <li>Fuel metering pump and Mounting box</li> <li>DIGI MAX Controller with remote temp sensor</li> <li>Heater</li> <li>Harness</li> <li>Fuel lines</li> <li>Air Ducting</li> <li>Fuel Pickup pipe</li> </ul>

<b>ECHO 8 (D8LC Nose Mount)</b>	20 2818 90 08 28
<b>INCLUDES:</b>	<ul style="list-style-type: none"> <li>Mounting Box</li> <li>Mounting Bracket</li> <li>Exhaust shield</li> <li>Fuel metering pump and Mounting box</li> <li>DIGI MAX Controller with remote temp sensor</li> <li>Heater</li> <li>Harness</li> <li>Fuel lines</li> <li>Air Ducting</li> <li>Fuel Pickup pipe</li> </ul>

<b>REPLACEMENT PARTS</b>	
ECHO 8 Mounting Box Base	20 2900 40 80 01
ECHO 8 Mounting Box Lid	20 2900 40 80 02
Shield SS	20 2900 40 80 03
Mounting Bracket	20 2900 40 80 04
Power Receptable Box Assy ECHO 8	20 2900 40 80 05
Base ECHO 5 Box White	20 2900 40 05 01
Lid ECHO 5 Box White	20 2900 40 05 02



# HYDRONIC 3 COOLANT HEATER - 17,100 BTU

		Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
<b>HYDRONIC 3 D5E CL - DIESEL</b>													
Basic Heater 12 V	25 2912 05 00 00	■											■
<b>HYDRONIC 3 D5E TRUCK KIT - DIESEL</b>													
Heater Assembly 12 V	25 2826 52 05 20	■	■	■		■	■		■	■	■		■
Heater Assembly 12 V W/P. Up	25 2826 52 05 25	■	■	■		■		■	■	■	■		■
Boxed Heater Assembly 12 V Right	25 2826 52 05 40	■	■	■		■		■	■	■	■	■	■
Boxed Heater Assembly 12 V Left	25 2826 52 05 45	■	■	■		■		■	■	■	■	■	■
<b>HYDRONIC 3 B5E CL- GASOLINE</b>													
Basic Heater 12 V	20 1993 05 00 00	■											■
12 V Heater Assembly	25 2819 52 05 20	■							■	■	■		■

■ Unrestricted use

HYDRONIC 3 B/D 5E



**HARDWARE KIT INCLUDES:**

- |             |                 |                |                  |
|-------------|-----------------|----------------|------------------|
| Fuel Clamps | Grommets        | Ducting Clamps | End Caps         |
| Nuts        | Exhaust Clamps  | Washers        | Exhaust Brackets |
| Cable Ties  | Mounting Screws | Routing Clamps |                  |

**FUEL SYSTEM INCLUDES:**

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

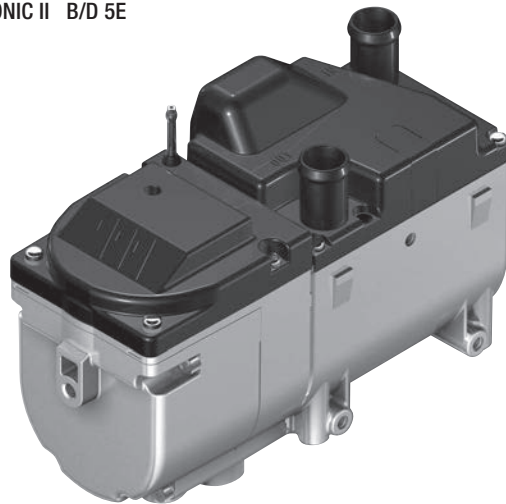
Refer to the Accessories Section for ducting components and additional accessories.  
For the addition of engine preheat, refer to the Combo Truck Kits Section.

# HYDRONIC II B/D5 E COOLANT HEATER - 17,100 BTU

		Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
<b>HYDRONIC II D5 E - DIESEL</b>													
Basic Heater 12 V	25 2526 05 00 00	■											■
<b>HYDRONIC II D5E TRUCK KIT - DIESEL</b>													
12 V with External Water and Fuel Pump	25 2825 26 05 20	■	■	■		■		■	■	■	■		■
12 V Automotive (Pick Up Truck) kit	25 2825 26 05 22	■	■	■		■		■	■	■	■		■
Boxed 12 V with External Water and Fuel Pump	25 2825 26 05 40	■	■	■		■		■	■	■	■	■	■
<b>HYDRONIC II B5E - GASOLINE</b>													
Basic Heater 12 V	20 1904 05 00 00	■											■
12 V Automotive (Pick Up Truck) kit	25 2819 04 05 00	■	■	■	■	■		■	■	■	■		■
<b>RELATED PARTS</b>													
Blower Control Module 12/24V	25 2800 70 40 40												
EasyStart T Controller	22 1000 32 88 00												

■ Unrestricted use

HYDRONIC II B/D 5E



- 1
- 1
- 2
- 3

**HARDWARE KIT INCLUDES:**

- |             |                 |                |                  |
|-------------|-----------------|----------------|------------------|
| Fuel Clamps | Grommets        | Ducting Clamps | End Caps         |
| Nuts        | Exhaust Clamps  | Washers        | Exhaust Brackets |
| Cable Ties  | Mounting Screws | Routing Clamps |                  |

**FUEL SYSTEM INCLUDES:**

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

Refer to the Accessories Section for ducting components and additional accessories.  
For the addition of engine preheat, refer to the Combo Truck Kits Section.

# HYDRONIC II D5 E — BUILD YOUR OWN KIT DIESEL COOLANT HEATER - 17,100 BTU

Heater	Harness	Fuel System*	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit*	Exhaust Pipe	Intake Pipe	Boxed	Manuals

**STEP 1 - SELECT BASIC KITS:**

HYDRONIC D5E H-II	
D5E H-II HYDRONIC Heater Basic Assembly - 12 V	25 2825 26 05 29

**STEP 2 - SELECT CONTROL OPTIONS**

Timer 7 Day w/Diagnostic	22 1000 30 36 00
Timer 7 Day Air + Brkt + Bezel	20 2900 70 02 30
EasyStart Timer	22 1000 34 15 00
Multi-Max F-1000 Controller	20 2800 70 16 00
Programmable timer with LVD	25 2800 70 10 10
Programmable timer with LVD Dual Input	25 2800 70 20 20
Programmable timer with LVD Dual Output Switch	25 2800 70 30 30
Push Button with 24" Leads	25 2800 70 30 35

**STEP 3 - SELECT FUEL PICK-UP PIPE OPTIONS**

Fuel Pick-up Pipe 2 mm w/1/4" NPT	20 2900 20 20 10
Fuel Pick-up Pipe 2 mm 26IN	20 2900 20 20 42
Automotive Pick-Up Pipe	22 1000 20 11 00
Fuel Pick-up Pipe 2 mm w/Ftng 23.5 in	20 2900 20 20 04
Double Pick-up 2 mm ID	20 2900 20 20 57
Dual Vent Fuel Pick-Up Pipe 2 mm	20 2900 20 20 07

**HARDWARE KIT INCLUDES:**

Fuel Clamps	Grommets	Ducting Clamps	End Caps
Nuts	Exhaust Clamps	Washers	Exhaust Brackets
Cable Ties	Mounting Screws	Routing Clamps	

**FUEL SYSTEM INCLUDES:**

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

Refer to the Accessories Section for ducting components and additional accessories.  
For the addition of engine preheat, refer to the Combo Truck Kits Section.

NOTES:

- 1
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# HYDRONIC D5 S/SC 24V

## DIESEL COOLANT HEATER - 17,100 BTU

If installation is more than 6 feet from the fuel tank, kits with external fuel pumps are required.

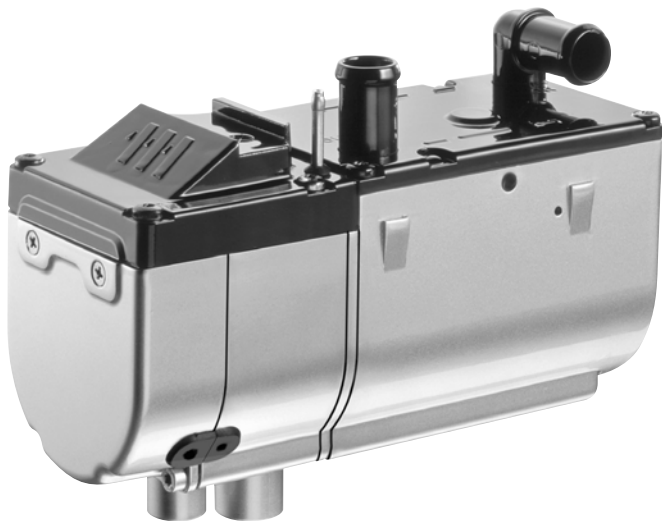
		Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
<b>HYDRONIC D5 S - DIESEL</b>													
Basic Heater 24 volt	25 2218 05 00 00	■											■
Basic Heater 24 volt	25 2146 05 00 00	■											■
Universal Installation Kit 24 volt	25 2009 80 00 00		~	■	■	■			■	■	■		
<b>HYDRONIC D5S OFF-HIGHWAY KIT - DIESEL</b>													
24 volt with External Water and Fuel Pump	25 2822 18 05 20	■		■		■		■	■	■	■		■
<b>HYDRONIC D5 SC - DIESEL</b>													
Basic Heater 24 volt	25 2147 05 00 00	■											■
Universal Installation Kit 24 volt	25 2009 80 00 00		■	■	■	■			■	■	■		
<b>HYDRONIC D5 SC OFF-HIGHWAY KITS - DIESEL</b>													
24 volt with External Fuel Pump	25 2821 47 05 20	■	■	■		■		■	■	■	■		■
Boxed 24 volt with External Fuel Pump	25 2821 47 05 55	■	■	■		■		■	■	■	■		■
<b>HYDRONIC 4/5 SC COOLANT PUMP SERVICE KIT</b>													
	25 2800 60 00 05												

■ Unrestricted use, includes blower relay connection

~ Includes blower relay connection

**PLEASE NOTE:**

- If installation is more than 6 feet from the fuel tank, kits with external fuel pumps are required.



1  
1  
2  
3



# AIRTRONIC 2 / HYDRONIC II/3 Combo Kits DIESEL - 12 Volt only

## AIRTRONIC 2 / HYDRONIC II 5 E - DIESEL

Truck Kit	No Timer Digi-Max Controller	20 2812 15 20 61
Boxed Truck Kit	No Timer Digi-Max Controller	20 2812 15 20 62

## AIRTRONIC 2 / HYDRONIC 3 5 E - DIESEL

Combo AD2 Digi/HS3 EasyStart		20 2812 15 20 65
Combo AD2 Digi/HS3 Box Right EasyStart		20 2812 15 20 66
Combo AD2 Digi/HS3 Box Left EasyStart		20 2812 15 20 67

Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
						d					
						d					
						d					
						d					
						d					
						d					
						d					

■ Unrestricted use

■ d Double fuel pick-up pipe

Refer to the Accessories Section for ducting components and additional accessories.  
For the addition of engine preheat, refer to the Combo Truck Kits Section.

# HYDRONIC M-II

SERIES: 27,300, 32,450, 42,000 BTU - CARB APPROVED

		Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
<b>HYDRONIC 10 / M</b>													
HYDRONIC M8 biodiesel 12 volt	25 2470 05 00 00	■						■					■
HYDRONIC M8 biodiesel 24 volt	25 2471 05 00 00	■						■					■
HYDRONIC M10 12 volt	25 2434 05 00 00	■											■
HYDRONIC M10 24 volt	25 2435 05 00 00	■											■
HYDRONIC M12 12 volt	25 2472 05 00 00	■											■
HYDRONIC M12 24 volt	25 2473 05 00 00	■											■
HYDRONIC M12 24 volt w/Hella	25 2725 05 00 00	■											■
HYDRONIC M12 12 volt Boxed Kit	25 2824 72 12 10	■	■	■		■		■	■	■	■	■	■
HYDRONIC M12 24 volt Boxed Kit	25 2824 73 12 10	■	■	■		■		■	■	■	■	■	■
HYDRONIC M12 12 volt Boxed Kit w/high Capacity Pump	25 2824 72 00 12	■	■	■		■		■	■	■	■	■	■
HYDRONIC M12 24 volt Boxed Kit w/high Capacity Pump	25 2824 73 00 24	■	■	■		■		■	■	■	■	■	■
HYDRONIC M12 12 volt AfterMarket Kit	25 2825 96 12 00	■		■		■		■	■	■	■		■
<b>UNIVERSAL INSTALLATION KITS</b>													
Eberspaecher Universal Install 12V with diagnostic connection	25 2800 90 10 12		■	■		■			■	■			
Eberspaecher Universal Install 24V with diagnostic connection	25 2800 90 10 24		■	■		■			■	■			

■ Unrestricted use



# HYDRONIC M-II — BUILD YOUR OWN KIT SERIES: 42,000 BTU - CARB APPROVED

## HYDRONIC M II - Carb Approved

### STEP 1 - SELECT BASIC KITS:

		Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
HYDRONIC M12 12 volt, Basic assembly	25 2824 72 12 03	■	■	■		■			■	■	■	■	■
HYDRONIC M12 24 volt, Basic assembly	25 2824 73 12 01	■	■	■		■			■	■	■	■	■

### STEP 2 - SELECT ONE OF THE FOLLOWING CONTROL OPTIONS

TIMER 7 DAY W/DIAGNOSTIC	22 1000 30 36 00
TIMER 7DAY AIR + BRKT + BEZEL	20 2900 70 02 30
EASY START TIMER	22 1000 34 15 00
MULTI MAX F-1000 CONTROLLER	20 2800 70 16 00
PROGRAMMABLE TIMER WITH LVD	25 2800 70 10 10
PROGRAMMABLE TIMER WITH LVD DUAL INPUT	25 2800 70 20 20
PRO. TIMER W/LVD DUAL OUTPUT SWITCH	25 2800 70 30 30
Push Button with 24" Leads	25 2800 70 30 35

### STEP 3 - SELECT FUEL PICKUP PIPE OPTIONS

FUEL PICK UP PIPE 4MM WITH 1/2 NPT	20 2900 20 20 50
PICK UP PIPE 4MMIDX16IN	5520001
FUEL PIPE WITH VENT 4MM ID - 19.5 IN	20 2900 20 40 06

■ Unrestricted use

# E-GUARDIAN DIESEL / WATER

## E-Guardian HYDRONIC II D5E KITS - Carb Approved

Boxed D5E H-II E-Guardian 12V Kit 17,100 BTU 25 2825 26 0500

## E-Guardian HYDRONIC M-II KITS - Carb Approved

Boxed M-II 12 KW Heater 12 V Kit 42,000 BTU 25 2824 72 12 02

Boxed M-II 12 KW Heater 12 V New York Kit 42,000 BTU 25 2824 72 12 06

## Spare Parts:

E-Guardian Coolant Pump 12 V 25 2596 25 01 00

E-Guardian 12 Replacement Heater 25 2596 05 00 00

Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals

 Unrestricted use



- 1
- 1
- 2
- 3

### HARDWARE KIT INCLUDES:

- |             |                 |                |                  |
|-------------|-----------------|----------------|------------------|
| Fuel Clamps | Grommets        | Ducting Clamps | End Caps         |
| Nuts        | Exhaust Clamps  | Washers        | Exhaust Brackets |
| Cable Ties  | Mounting Screws | Routing Clamps |                  |

### FUEL SYSTEM INCLUDES:

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

Refer to the Accessories Section for ducting components and additional accessories. For the addition of engine preheat, refer to the Combo Truck Kits Section.

# HYDRONIC L-II

## SERIES: 55,000, 82,000, 102,000, 120,000 BTU

<b>HYDRONIC L 16</b>		
Basic Heater 24V		25 2486 02 0000
<b>HYDRONIC L 24</b>		
Basic Heater 24 volt		25 2487 02 00 00
<b>HYDRONIC L 24 Compact</b>		
Water pump Flowtronic 5000 and fuel filter pre-assembled		25 2487 05 00 00
<b>HYDRONIC L 30</b>		
Basic Heater 24 volt		25 2599 02 00 00
<b>HYDRONIC L 30 Compact</b>		
Water pump Flowtronic 5000 and fuel filter pre-assembled		25 2599 05 00 00
<b>HYDRONIC L 35</b>		
Basic Heater 24 volt		25 2600 02 00 00
<b>HYDRONIC L 35 Compact</b>		
Water pump Flowtronic 5000 and fuel filter pre-assembled		25 2600 05 00 00

### ACCESORIES

<b>HARNESS</b>	Universal Harness	20 2900 70 05 10
	Compact Heater Harness	20 2900 70 05 11
<b>FUEL</b>	Filter kit for basic kit	25 2800 20 00 05
	Nipple and Nut Connectors for compact version (1 required)	20 2900 20 20 71
	Fuel Line 5.0mm black rubber	360 75 350
	Clamps 11mm	10 2068 01 10 98
	Fuel Pick-up with Return	20 2900 20 20 59
<b>EXHAUST</b>	L-II Filter Base and Bracket	25 2488 05 01 00
	Flexible Stainless Steel Exhaust Tube 70mm	5530015
	Muffler Clamp 3"	5530004
<b>PUMPS</b>	Exhaust Elbow (70mm exhaust) D30 / D35	22 1000 40 03 00
	Coolant Pump 24volt (5,000 L/hr)	25 2488 26 00 00
<b>CONTROLS</b>	Flowtronic Coolant Pump 24 volt (6,000 L/hr)	25 2488 25 00 00
	7-Day Timer Kit 24 volt	22 1000 30 36 00
	7-Day Timer Kit 24 volt with Bezel and Mounting Bracket	20 2900 70 02 30
	Bezel and Mounting Bracket for 7-day timer	25 1482 70 01 00



When using Artic Fox Systems, be sure and specify heaters with high capacity pumps.

# HYDRONIC L-II OFF HIGHWAY KITS

## HYDRONIC L-II OFF HIGHWAY

HYDRONIC 30 L-II Boxed Off-Highway Assembly 12V w/6000 L pump	25 2800 10 3612
HYDRONIC 30 L-II Boxed Off-Highway Assembly 24V w/6000 L pump	25 2800 10 3600
HYDRONIC 35 L-II Boxed Off-Highway Assembly 24V w/6000 L pump	25 2800 10 5624

Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
■	■			*			■	■		■	■
■	■			*			■	■		■	■
■	■			*			■	■		■	■

■ Unrestricted use

\* Mounting holes on base. No mounting hardware included

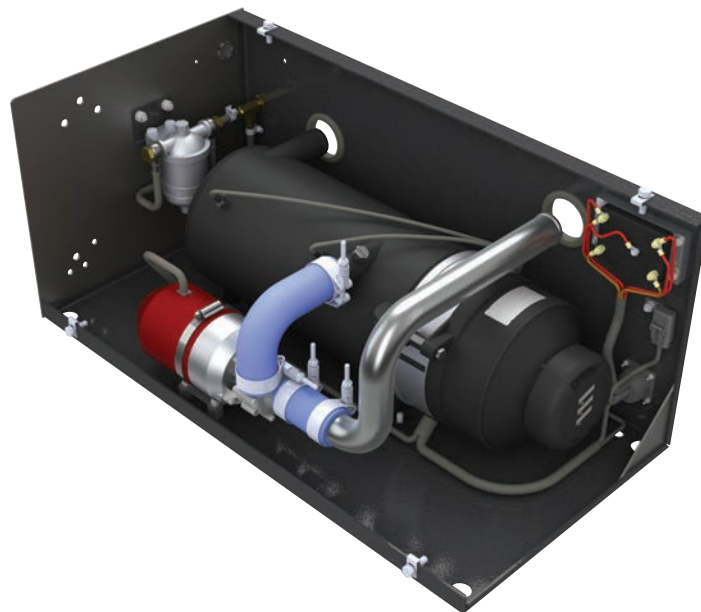
### Fuel

Hose Fuel 5 x 3mm black rubber	360 75 350
Single Pick-up Pipe 4.0 mm with Return (61 cm or 24")	20 2900 20 20 59
Clamp 11mm, 4 qty.	10 2068 01 10 98

### Controls

\* See Control Options and Timers in accessories section

- 7-Day Timer with Diagnostics 12 and 24 volt 22 1000 30 3600
- Packaged for Off-Highway and oilfield applications
- 12 and 24 volt options
- Eliminate cold starts
- Minimize diesel exhaust emissions
- Rugged, compact
- Versatile fluid pre-heating
- Standard with pre-heated nozzle








# ACCESSORIES PARTS GUIDE



CHAPTER	TITLE	CONTENT	PAGE
3	<b>PARTS GUIDE</b>	Timers and Controlers Table	32
		Control Options and Timers	33-35
		Testers, Adapters and Special Tools	36-37
		Fuel System	39-41
		Mounting Parts	43-44
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		Fuse Holders, Fuses and Breakers	46-47
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		AIRTRONIC 4	76-77
		B1LC compact	78-79
		AIRTRONIC 5	80-81
		D8LC	82-83

# TIMERS AND CONTROLLERS

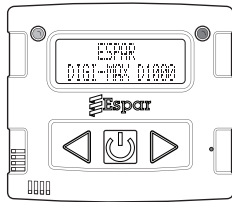
		
AVAILABLE FUNCTIONS	DIGI-MAX CONTROLLER	EASY START TIMER
Programmable Timer		<input checked="" type="checkbox"/>
Multiple Starts - Day / Week		<input checked="" type="checkbox"/>
Ambient Air Temp Sensor	<input checked="" type="checkbox"/>	
Diagnostic Code Retrieval	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Standard Fan Mode	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10-Hour Automatic Shutoff	<input checked="" type="checkbox"/>	
Manual Start Mode	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Program Memory		<input checked="" type="checkbox"/>
Programmable LVD	<input checked="" type="checkbox"/>	
Accepts External Inputs		<input checked="" type="checkbox"/>
AIR HEATERS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
COOLANT HEATERS		<input checked="" type="checkbox"/>

		
PROGRAMMABLE TIMER	7 DAY TIMER	MULTI-FUNCTION SWITCH
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>		
	Cabin temp sensor	AVAILABLE
	<input checked="" type="checkbox"/>	
	2 hour max. programmed run time	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	AVAILABLE
	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



# AIR HEATERS CONTROL OPTIONS AND TIMERS

Digi-Max Controller with Diagnostic 12V & 24V

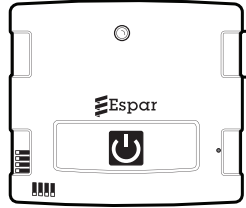


		Airtronic D2	Airtronic D4	B1LCC / B3LCC	Airtronic D5 / B5	D8LC	Hydronic 4 / 5	Hydronic II 5E	Hydronic 10 / M	Hydronic M-II 8 / 10 / 12	Hydronic 16 / 24 / 30 / 35	Part number
		■	■	■	■	■						20 2800 70 15 00
Mini Controller 12 and 24 volt Mini Controller Knob		■	■		■							22 1000 32 07 00 5699849
Thermostat												
							12 volt	■	■	■	■	5670097
							24 volt	■	■	■	■	5670096
7-Day Timer												
												22 1000 30 40 00
												20 2900 70 02 35
Rheostat Switch												
							12 volt	■	■	■	■	25 1895 71 00 00
							24 volt	■	■	■	■	25 1896 71 00 00
								■	■	■	■	20 2900 70 01 11
Thermostat Bunk Relay Kit												
												29 2100 30 01 84

■ unrestricted use ~ restricted use

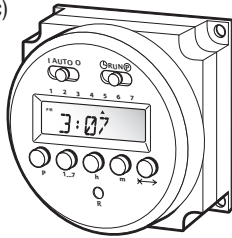
# HYDRONIC HEATERS CONTROL OPTIONS AND TIMERS

Multi-Max



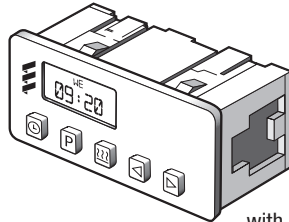
F1000 with PC Programmability & Diagnostic 12 & 24 V

Programmable Timer (No Diagnostic)



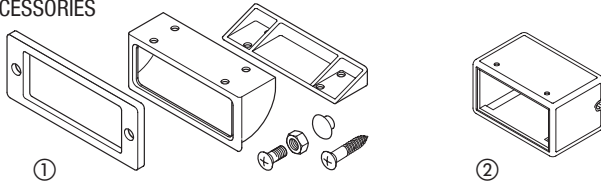
12 V  
24 V

7-Day Timer



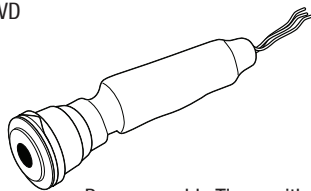
with Diagnostics 12 and 24 volt  
7-Day Timer Kit

7-DAY TIMER ACCESSORIES



Complete Bracket Kit with Cosmetic Bezel  
Housing for 7-Day Timer  
Replacement Bulbs 24 volt (5/bag)  
Replacement Bulbs 12 volt (5/bag)

Programmable Timer with LVD



Dual Input  
Programmable Timer with LVD, Dual Outputs-Detached  
Push button with 24" leads to be used with detached timer

Airtronic D2	Airtronic D4	B1LCC / B3LCC	Airtronic D5 / B5	D8LC	Hydronic 4 / 5	Hydronic II 5E	Hydronic 10 / M	Hydronic M-II 8 / 10 / 12	Hydronic 16 / 24 / 30 / 35	Part number
						T		*		20 2800 70 16 00
										5670433
										5670434
						T		*		22 1000 30 36 00
						T		*		20 2900 70 02 30
										25 1482 70 01 00 ①
										25 1482 89 00 15 ②
										22 1000 30 89 00
										22 1000 30 94 00
										25 2800 70 10 10
										25 2800 70 20 20
										25 2800 70 30 30
										25 2800 70 30 35

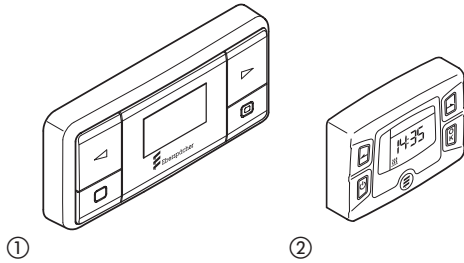
■ unrestricted use

★ Limited Diagnostic Function

T Can only be used as timer. Diagnostic not compatible

# HYDRONIC HEATERS CONTROL OPTIONS AND TIMERS

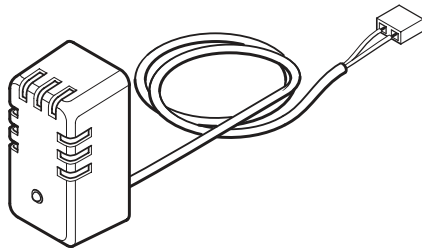
## EasyStart Timer + Braket + Bezel



EasyStart Timer  
EasyStart T Controller

	Airtronic D2	Airtronic D4	B1LCC / B3LCC	Airtronic D5 / B5	D8LC	Hydronic 4 / 5	Hydronic II 5E	Hydronic 10 / M	Hydronic M-II 8 / 10 / 12	Hydronic 16 / 24 / 30 / 35	Part number
EasyStart Timer			L		L						22 1000 34 15 00 ①
EasyStart T Controller			L		L						22 1000 32 88 00 ②

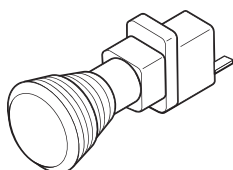
## Temperature Sensor



Remote Temperature Sensor (To be used as air heater's external temperature sensor ONLY)  
Controller Temperature Sensor (To be used with 7-Day Timer or EasyStart T only)  
Controller Temperature Sencor (To be used with Easy Start Timer and Easy Start Call)

Remote Temperature Sensor (To be used as air heater's external temperature sensor ONLY)											25 1774 89 03 00
Controller Temperature Sensor (To be used with 7-Day Timer or EasyStart T only)											22 1000 32 97 00
Controller Temperature Sencor (To be used with Easy Start Timer and Easy Start Call)											22 1000 34 22 00

## Push / Pull Switch



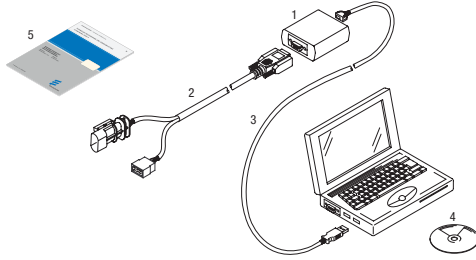
Push / Pull Switch 12 volt  
Replacement Bulb 12 volt

Push / Pull Switch 12 volt											5670007
Replacement Bulb 12 volt											207 00 005

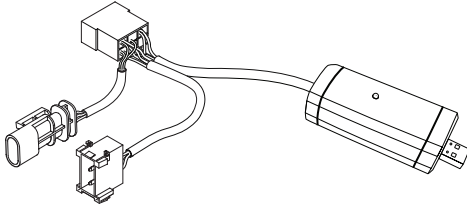
# TESTERS / ADAPTERS / SPECIAL TOOLS

All adapters used with Diagnostic Unit and Edith

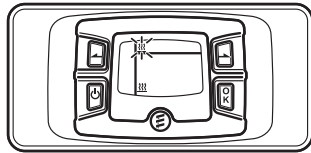
## Diagnostic Unit EasyScan



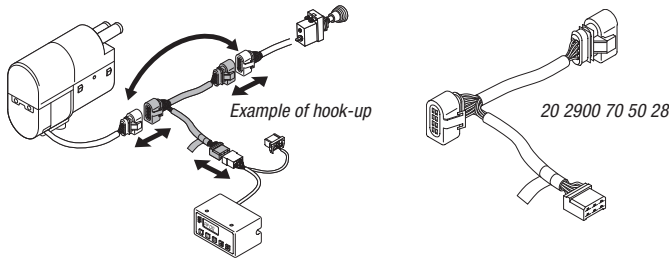
## Eberspaecher Universal Diagnostic Tool (EUDT)



## Diagnostic Fault Code Retriever



## Tester Adapter



- Tester Adapter (Works with S/SC Heaters)
- Tester Adapter (Square)
- Tester Adapter 8pin to 6pin
- Tester Adapter 8pin to 6pin
- Tester Adapter
- Tester Adapter (Works with S/SC and Z Heaters)
- Tester Adapter
- Tester Adapter
- Tester Adapter
- Tester Adapter (Park Smart - Heater: [25 2509] with Round 4-Pin Connector)
- Tester Adapter Hydronic 5E

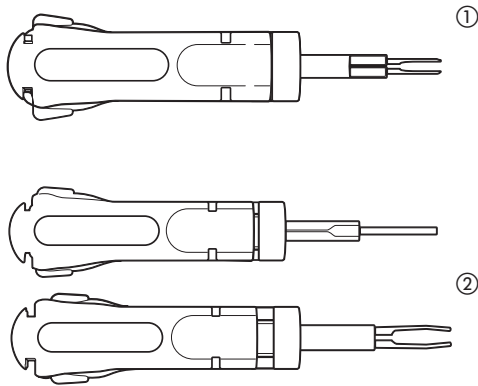
\* Cable harness with diagnostic connector - EasyStart Call  
EG-II Diagnostic Adaptor Harness

Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Hydronic 5E	Part number
*	*			*		~					22 1550 89 00 00
									#		20 2800 70 12 00
											20 2900 70 50 60
											20 2900 70 50 28
											20 2900 70 50 44
									E		20 2900 70 50 46
											20 2900 70 50 57
											22 1000 31 86 00
											22 1000 31 63 00
											22 1000 31 66 00
											22 1000 30 69 00
											25 2800 70 10 04
											25 2786 70 00 01
											22 1000 33 78 00
						*					22 1000 34 11 00
											25 2800 70 00 24

■ unrestricted use    E E-Guardian    # For frequently diagnostic, use EasyScan    \* From 2007    ~ From 2009 and only 12V

# TESTERS / ADAPTERS / SPECIAL TOOLS

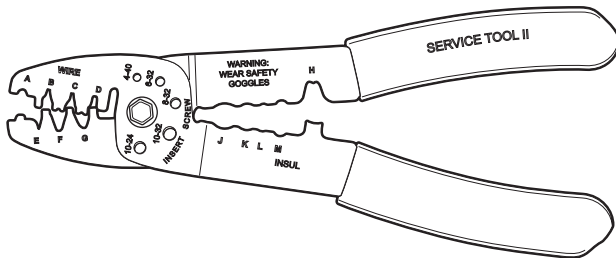
Terminal Removal Tool



1.6 mm  
2.8 mm

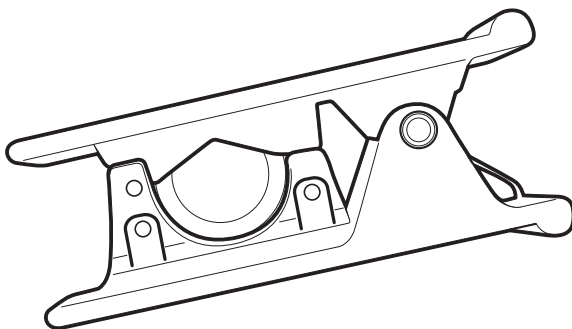
Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										206 00 205 ①
										206 00 215 ②

Wire Crimper



5670003

Fuel Line Cutter

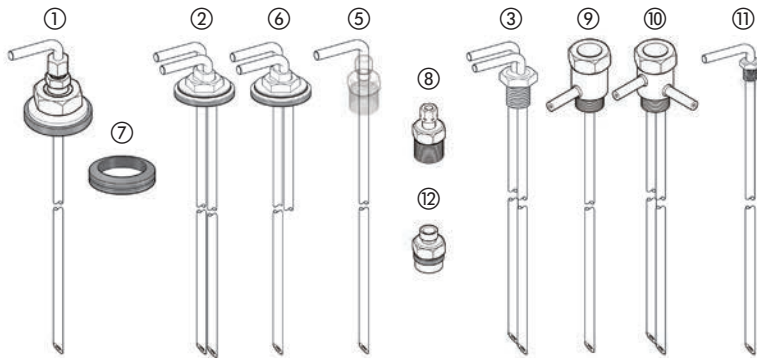


5520003

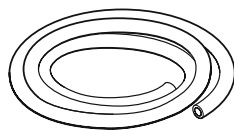
# FUEL SYSTEM

**PLEASE NOTE:** ■ Refer to Fuel System Guide on page 66, to help plan your fuel system.

- Single Pick-up Pipe 2.0 mm Universal **RECOMMENDED** (Drill or 1/4" NPT fitting) (66 cm or 26")
- Single Pick-up Pipe 2.0 mm (66 cm or 26")
- Double Pick-up Pipe 2.0 mm (56 cm or 22")
- Double Pick-up Pipe 2.0 mm (1/2" NPT) (66 cm or 26")
- Fuel Pick-up pipe 2 mm W/FTNG (59.5 cm or 23.5") - Vent fitting 1/2" NPT
- Dual Vent Fuel Pick-up pipe 2.0 mm (61 cm or 26") - Vent fitting 1/2" 14 NPT
- Fuel Pick-up pipe 2.0 mm with Ring Fitting (66 cm or 24")
- Single Pick-Up Pipe 4.0 mm universal **RECOMMENDED** (Drill or 1/2" NPT fitting) (66 cm or 26")
- Single Pick-up Pipe 4.0 mm (41 cm or 16")
- Fuel Pick-up pipe 4 mm W/FTNG 19.5" - Vent fitting 1/2" NPT
- Single Pick-up Pipe 4.0 mm with Return (61 cm or 24")
- Compression Fitting 1/4" NPT
- Compression Fitting 3/8" NPT
- Compression Fitting 1/2" NPT
- Compression FTNG 3/4" NPT
- Compression FTNG 9/16" w/O-ring
- Rubber Seal Ring for Fuel Pick-up Pipe
- Automotive Fuel Pick-up Assembly (48 cm or 18.8")

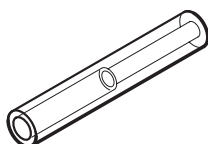


- Black Plastic Fuel Line - ID = 2.0 mm
- White Plastic Fuel Line - ID = 1.5 mm
- White Plastic Fuel Line - ID = 2.0 mm
- Black Rubber Fuel Line - ID = 3.5 mm
- Black Rubber Fuel Line - ID = 5.0 mm



per mtr  
per mtr  
per mtr  
per mtr  
per mtr

Fuel Line Adapter



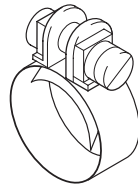
3.5mm to 5mm

	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4, 5, II, 3	Hydronic 10 / M / M-II	Hydronic 16 / 24 / 30 / 35	Part number
Single Pick-up Pipe 2.0 mm Universal <b>RECOMMENDED</b>	■	■	■	■	■		■			20 2900 20 20 10 ①
Single Pick-up Pipe 2.0 mm	■	■	■	■	■		■			20 2900 20 20 42 ⑤
Double Pick-up Pipe 2.0 mm	■	■	■	■	■		■			20 2900 20 20 57 ②
Double Pick-up Pipe 2.0 mm	■	■	■	■	■		■			20 2900 20 21 07 ③
Fuel Pick-up pipe 2 mm W/FTNG	■	■	■	■	■		■			20 2900 20 20 04 ⑦
Dual Vent Fuel Pick-up pipe 2.0 mm	■	■	■	■	■		■			20 2900 20 20 07 ⑩
Fuel Pick-up pipe 2.0 mm with Ring Fitting	■	■	■	■	■		■			20 2900 20 20 11 ④
Single Pick-Up Pipe 4.0 mm universal <b>RECOMMENDED</b>						■				20 2900 20 20 50 ①
Single Pick-up Pipe 4.0 mm						■				5520001 ⑤
Fuel Pick-up pipe 4 mm W/FTNG 19.5"						■				20 2900 20 40 06 ⑨
Single Pick-up Pipe 4.0 mm with Return						■				20 2900 20 20 59 ⑥
Compression Fitting 1/4" NPT	■	■	■	■	■		■			20 2900 20 20 44 ⑧
Compression Fitting 3/8" NPT	■	■	■	■	■		■			5520002 ⑧
Compression Fitting 1/2" NPT	■	■	■	■	■		■			5520006 ⑧
Compression FTNG 3/4" NPT	■	■	■	■	■		■			20 2900 20 20 82 ⑧
Compression FTNG 9/16" w/O-ring	■	■	■	■	■		■			5520007 ⑫
Rubber Seal Ring for Fuel Pick-up Pipe	■	■	■	■	■		■			20 2900 20 20 26 ⑦
Automotive Fuel Pick-up Assembly	■	■	■	■	■		■			22 1000 20 11 00 ⑪
Black Plastic Fuel Line - ID = 2.0 mm	■	■	■	■	■		■			890 31 125
White Plastic Fuel Line - ID = 1.5 mm	■	■	■	■	■		■			890 31 118
White Plastic Fuel Line - ID = 2.0 mm	■	■	■	■	■		■			890 31 055
Black Rubber Fuel Line - ID = 3.5 mm	■	■	■	■	■		■			360 75 300
Black Rubber Fuel Line - ID = 5.0 mm	■	■	■	■	■		■			360 75 350
Fuel Line Adapter							■			25 1888 80 01 02

# FUEL SYSTEM

PLEASE NOTE: ■ Refer to Fuel System Guide on page 66, to help plan your fuel system.

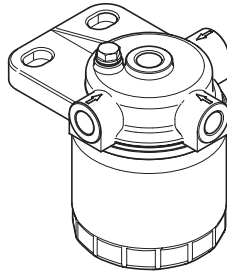
## Clamp



9 mm (used with 360 75 300)  
 10 mm (used with 360 75 350)  
 11 mm (used with 360 75 350)  
 12 mm  
 14 mm

	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
9 mm (used with 360 75 300)	■	■	■	■	■	■	■	■	■	■	10 2068 00 90 98
10 mm (used with 360 75 350)	■	■	■	■	■	■	■	■	■	■	10 2068 01 00 98
11 mm (used with 360 75 350)	■	■	■	■	■	■	■	■	■	■	10 2068 01 10 98
12 mm	■	■	■	■	■	■	■	■	■	■	10 2068 01 20 98
14 mm	■	■	■	■	■	■	■	■	■	■	10 2068 01 40 98

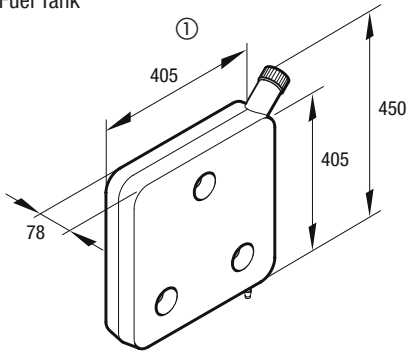
## Fuel Filter



Fuel Filter

25 2488 05 01 00

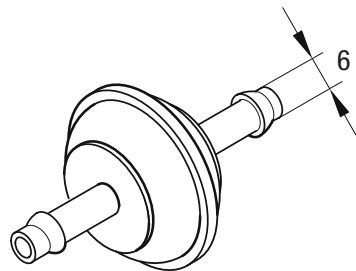
## Plastic Fuel Tank



Fuel Tank (10L or 2.6 gal - Blue)  
 Plastic Cap

22 1000 20 28 00  
 22 1000 20 22 00

## Plastic Fuel Filter



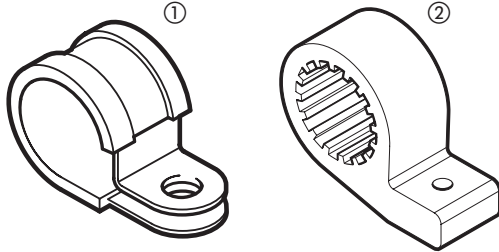
25 1226 89 00 37

■ unrestricted use ~ restricted use

# FUEL SYSTEM

PLEASE NOTE: ■ Refer to Fuel System Guide on page 66, to help plan your fuel system.

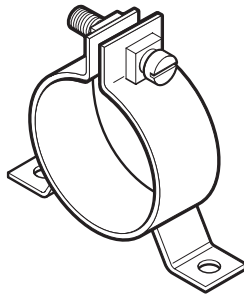
## FMP Clamp and Holder



Clamp 34 mm for Fuel Metering Pump  
 FMP Holder for Noise Reduction (small pumps)  
 FMP Holder for Noise Reduction (large pumps)

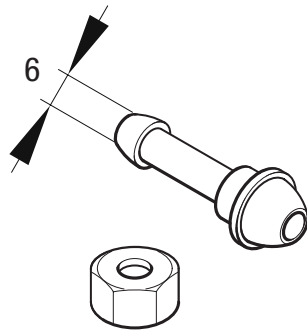
Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										152 00 200 ①
										22 1000 50 03 00 ②
										22 1000 50 07 00 ②

## Fuel Metering Pump Holder



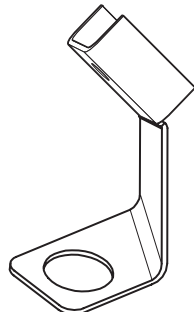
										25 1156 20 00 11
--	--	--	--	--	--	--	--	--	--	------------------

## Fuel Connector Nipple and Nut



										20 2900 20 20 71
--	--	--	--	--	--	--	--	--	--	------------------

## FMP Bracket **RECOMMENDED**



										20 2900 40 01 04
--	--	--	--	--	--	--	--	--	--	------------------

■ unrestricted use    ~ restricted use

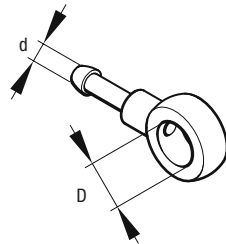
- 1
- 1
- 2
- 3



# FUEL SYSTEM

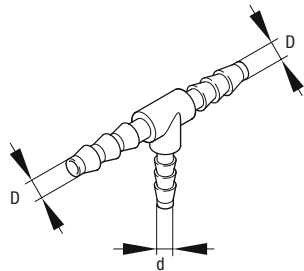
PLEASE NOTE: ■ Refer to Fuel System Guide on page 66, to help plan your fuel system.

Banjo fitting



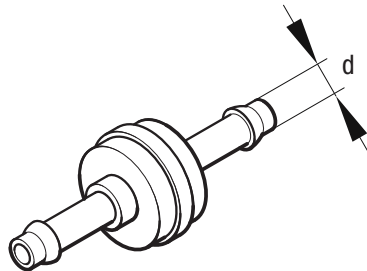
d = 5mm, D = 8mm

Fuel T-piece



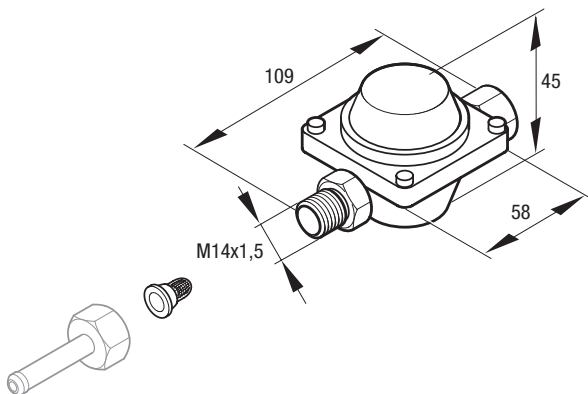
d = 4mm, D = 8mm  
d = 6mm, D = 6mm

One Way Check Valve



d = 8mm

Pressure Reducer



d = 60 mm

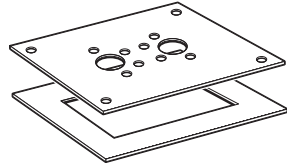
Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										25 1352 88 00 05
						■				262 31 155
							■			262 31 150
										244 31 061
										22 1000 20 08 00

■ unrestricted use ~ restricted use

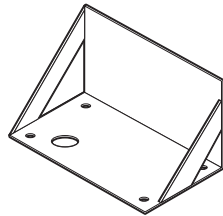


# MOUNTING PARTS

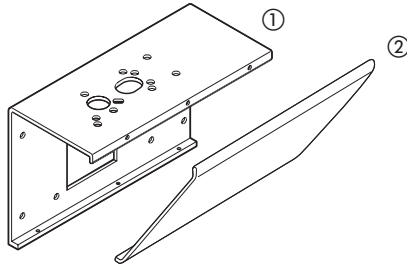
Mounting Plate with Seal



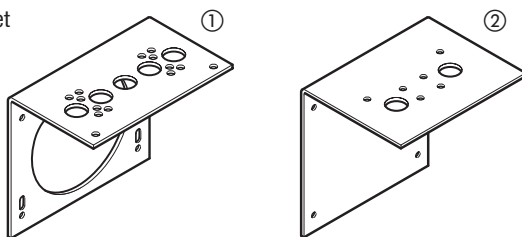
Side Frame Mounting Tray for Boxed Heaters



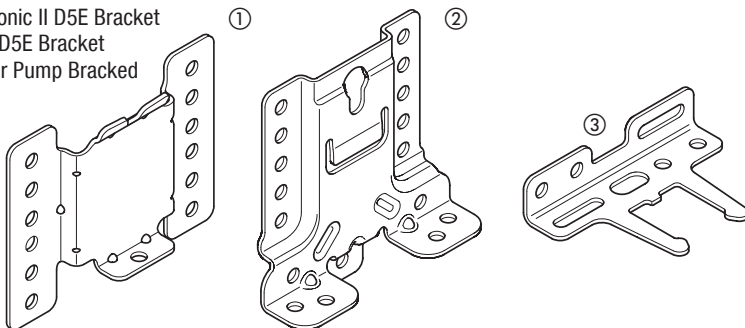
Cargo Bracket  
Cargo Bracket Support



Angle Mounting Bracket  
Mounting Bracket



Hydronic II D5E Bracket  
HS3 D5E Bracket  
Water Pump Bracketed

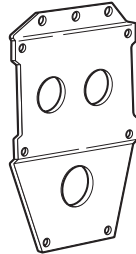


Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic II / 3	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
■	■	■	■							5540001
							■			20 2900 40 00 57 E 20 2900 40 00 75
■	■	■	■	■						20 2900 40 00 34 ① 20 2900 40 00 35 ②
■	■	■	■	■						20 2900 40 00 23 ① 5540016 ②
						■	■	■		22 1000 51 37 00 22 1000 51 42 00 22 1000 51 39 00

1  
1  
2  
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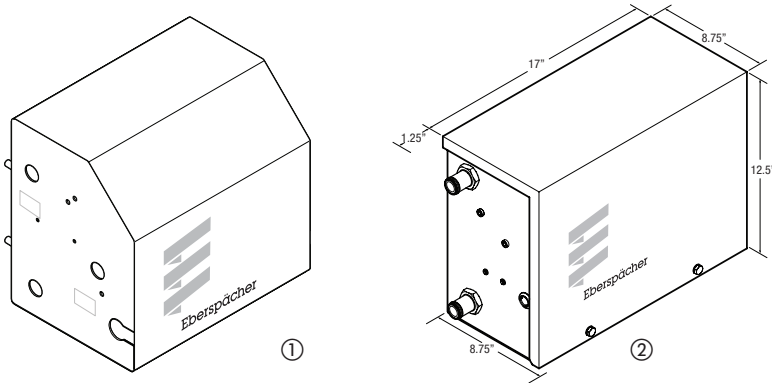
# MOUNTING PARTS

Mounting Bracket



Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic II / 3	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										25 1816 80 00 01

Box

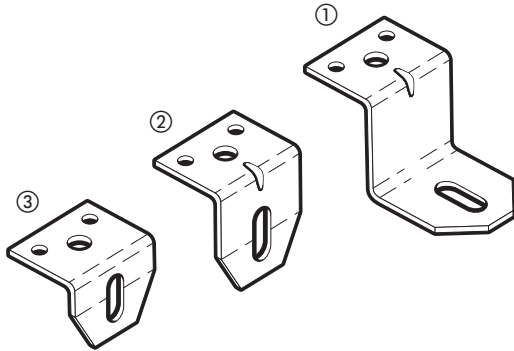


- Box Base with shock mounts
- Box base
- Lid
- Hydronic 3 Box Base
- Hydronic 3 Box Lid
- Also requires: Silicone Seal - Exhaust
- Grommet Harness
- Grommet Fuel
- Additional bulk head fitting required
- Lid Hydronic 5 Box - IC Corp
- H-II D5S Enclosure Lid
- L2 Enclosure Lid
- M-II With Albany Lid

										20 2900 40 90 01 ②
										25 2800 40 10 02
										25 2800 40 10 03
										25 2800 40 05 28 ①
										25 2800 40 05 29 ①
										25 1216 88 03 01
										25 2782 70 00 01
										20 1280 09 01 03
										25 2782 40 00 02
										25 2800 40 05 24
										25 2800 40 10 22
										25 2800 40 10 26

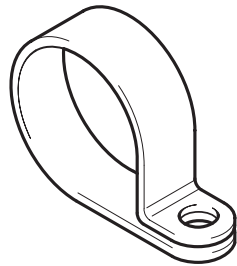
# MOUNTING PARTS

Metal Angle Bracket for Fuel Metering Pump



Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										20 1348 03 00 02 ①
										20 1348 03 00 04 ②
										20 1533 88 00 07 ③

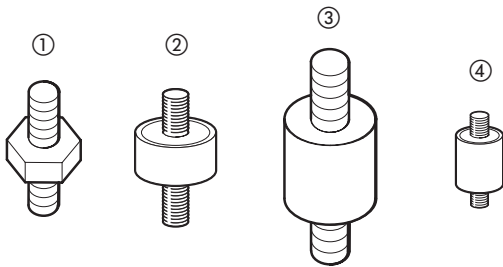
"C" Clamp



- 10 mm
- 25 mm (for 22mm Exhaust/Air Intake)
- 28 mm (for 24 mm Exhaust)
- 34 mm (for 30 mm Exhaust)
- 41 mm (for large Fuel Metering Pumps)
- "C" Clamp 50 mm

										152 00 139
										152 10 048
										152 09 010
										152 09 008
										152 10 039
										152 09 011

Metal / Rubber Shock Mounts



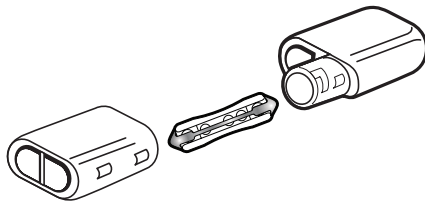
- 8mm H, Hex Body
- 15mm H, Round Body, M8
- 1inch H, Round Body, 5/16 x 18 NC
- 25mm H, Round Body, M6

										20 1185 00 00 01 ①
										330 09 002 ②
										5540014 ③
										20 1609 05 00 04 ④

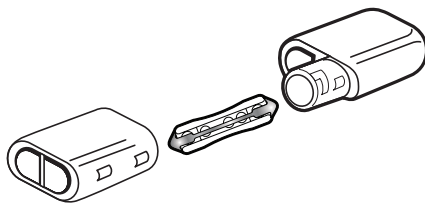
1  
1  
2  
3

# FUSE HOLDERS, FUSES, BREAKERS

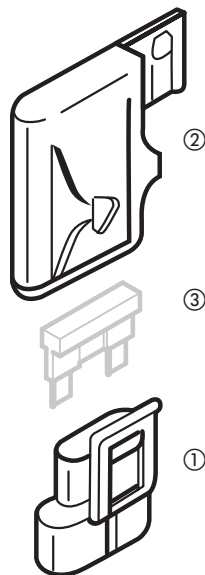
Holder for Ceramic Fuse with 16 AMP Fuse



Water-proof Fuse Holder Cover



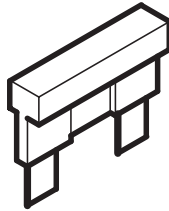
Packard ATC Fuse Holder with Terminals  
 Base, Fuse Holder 12033769  
 Cover, Fuse Holder 12033731  
 Terminal 12033997L



Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
■	■	■	■	■	■	■	■	■	■	204 00 099
■	■	■	■	■	■	■	■	■	■	29 2100 01 81 56
■	■	■	■	■	■	■	■	■	■	5670051
■	■	■	■	■	■	■	■	■	■	20 2900 70 70 17 ①
■	■	■	■	■	■	■	■	■	■	20 2900 60 70 09 ②
■	■	■	■	■	■	■	■	■	■	5670199

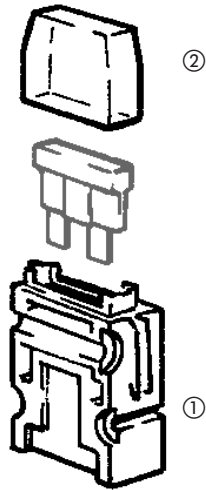
# FUSE HOLDERS, FUSES, BREAKERS

ATC Fuse



	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number	
3 AMP	■	■	■	■	■	■	■	■	■	■	5670057	③
15 AMP	■	■	■	■	■	■	■	■	■	■	5670053	③
20 AMP	■	■	■	■	■	■	■	■	■	■	5670055	③

Fuse Holder



Base	■	■	■	■	■	■	■	■	■	■	204 31 004	①
Cover	■	■	■	■	■	■	■	■	■	■	204 31 005	②

1

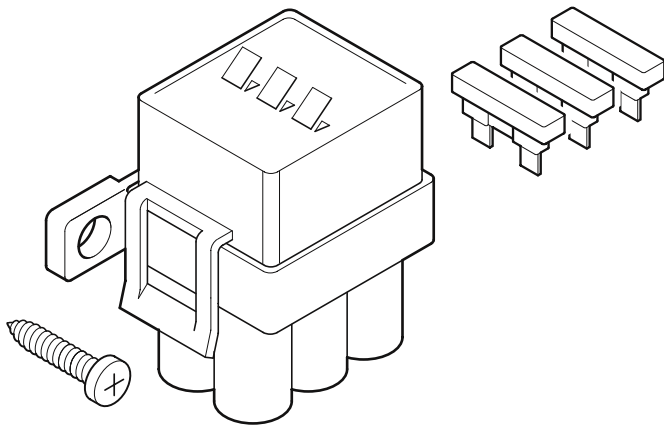
1

2

3

# FUSE HOLDERS, FUSES & BREAKERS

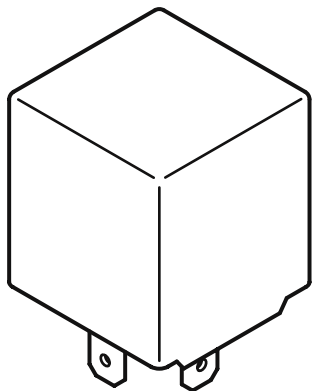
Fuse Holder Kit  
INCLUDES: Fuses and Terminals



5A, 15A, 25A 22

22 1000 31 06 00

Relay



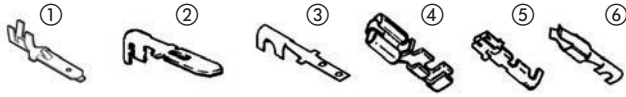
24 volt (D1L/D3L/V7S/D12W)

203 00 066

Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number

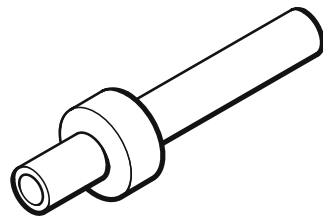
# TERMINALS AND CONNECTORS

## Terminals



- 10ga - 12ga Female, Tabs
- 14ga - 18ga Female, Tabs
- Terminal Fuse Holder
- Mini Terminal, AWG 16-20
- 10ga - 12ga Male
- 14ga - 18ga Male
- Mini Terminal, AWG 16-20
- Mini Terminal, AWG 14-18
- Terminal 12033997L
- Terminal with Sensor MALE

	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number	
10ga - 12ga Female, Tabs	■	■	■	■	■	■	■	■	■	■	5670174	④
14ga - 18ga Female, Tabs	■	■	■	■	■	■	■	■	■	■	5670394	④
Terminal Fuse Holder	■	■	■	■	■	■	■	■	■	■	206 00 004	⑤
Mini Terminal, AWG 16-20	■	■	■	■	■	■	■	■	■	■	206 73 052	⑥
10ga - 12ga Male	■	■	■	■	■	■	■	■	■	■	5670176	①
14ga - 18ga Male	■	■	■	■	■	■	■	■	■	■	5670175	①
Mini Terminal, AWG 16-20	■	■	■	■	■	■	■	■	■	■	206 36 018	③
Mini Terminal, AWG 14-18	■	■	■	■	■	■	■	■	■	■	206 00 182	⑥
Terminal 12033997L	■	■	■	■	■	■	■	■	■	■	5670199	④
Terminal with Sensor MALE	■	■	■	■	■	■	■	■	■	■	5670188	②
Ring Terminal												
(3/8") AWG 10-12	■	■	■	■	■	■	■	■	■	■	5670178	
Deutch Connector AWG 18 Pin												
								■			5670266	

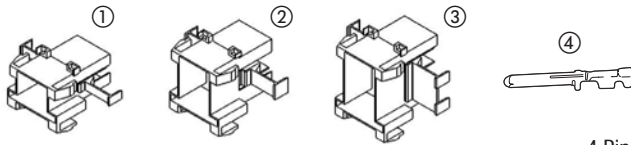


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1  
2  
3



# TERMINALS AND CONNECTORS

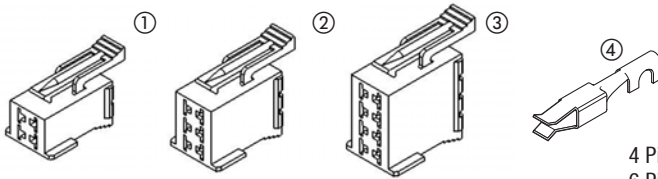
## Socket Housing, Female



4 Pin  
6 Pin  
8 Pin  
Terminal, Male AWG 16-20

	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number	
4 Pin	■	■	■	■	■	■	■	■	■	■	206 31 100	①
6 Pin	■	■	■	■	■	■	■	■	■	■	206 31 106	②
8 Pin	■	■	■	■	■	■	■	■	■	■	206 31 101	③
Terminal, Male AWG 16-20	■	■	■	■	■	■	■	■	■	■	206 36 018	④

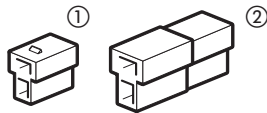
## Socket Housing, Male



4 Pin  
6 Pin  
8 Pin  
Terminal, Female AWG 16-20

4 Pin	■	■	■	■	■	■	■	■	■	■	206 31 296	①
6 Pin	■	■	■	■	■	■	■	■	■	■	206 31 297	②
8 Pin	■	■	■	■	■	■	■	■	■	■	206 31 298	③
Terminal, Female AWG 16-20	■	■	■	■	■	■	■	■	■	■	206 73 052	④

## Socket Housing



Male 2 Pin "T"  
Female 2 Pin "T"

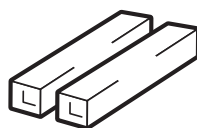
Male 2 Pin "T"	■	■	■	■	■	■	■	■	■	■	206 00 099	①
Female 2 Pin "T"	■	■	■	■	■	■	■	■	■	■	206 31 004	②

## Rubber Boot for Fuel Metering Pump



Rubber Boot for Fuel Metering Pump	■	■	■	■	■	■	■	■	■	■	320 31 120	
------------------------------------	---	---	---	---	---	---	---	---	---	---	------------	--

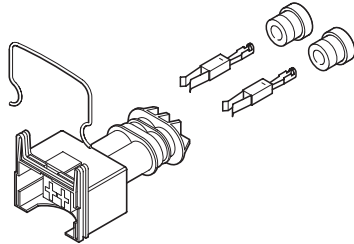
## Plug and Socket Connector



Plug and Socket Connector	■	■	■	■	■	■	■	■	■	■	206 00 040	
---------------------------	---	---	---	---	---	---	---	---	---	---	------------	--

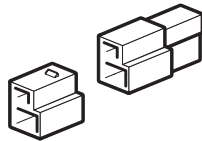
# TERMINALS AND CONNECTORS

## Fuel Metering Pump Housing Kit



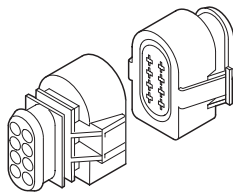
INCLUDES: terminals and seals.

## Socket Housing,

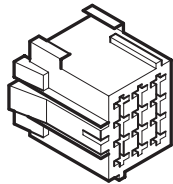


Female 2 Pin for Sensor  
 Male 2 Pin for Sensor  
 2 Pin with Spring (FMP Connection)  
 Mini Terminal, Female AWG 16-20  
 Socket Housing M Stribel Control  
 Plug for 206 31 319 Stribel

## Hydronic 4/5 Main harness connector Kit



## 7 day timer 12 pin connector housing



## Mini terminal, female AwG 16-20



	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
Fuel Metering Pump Housing Kit											22 1000 31 87 00
Socket Housing, Female 2 Pin for Sensor											206 31 018
Socket Housing, Male 2 Pin for Sensor											206 31 306
Socket Housing, 2 Pin with Spring (FMP Connection)											206 31 290
Socket Housing, Mini Terminal, Female AWG 16-20											206 00 180
Socket Housing, Socket Housing M Stribel Control											206 31 319
Socket Housing, Plug for 206 31 319 Stribel											206 75 042
Hydronic 4/5 Main harness connector Kit											22 1000 30 10 21
7 day timer 12 pin connector housing											206 31 293
Mini terminal, female AwG 16-20											206 00 180



## POWER CONVERTERS 12V TO 24V

Power Converter 12 - 24 288 W

5673401



Power Converter 12 - 24 480 W

5673601



1

1

2

3

NOTES:

1

1

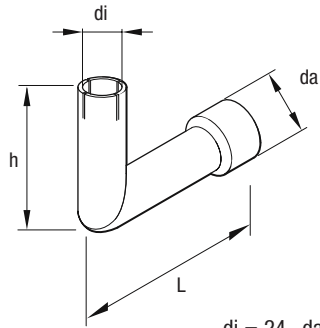
2

3



# EXHAUST

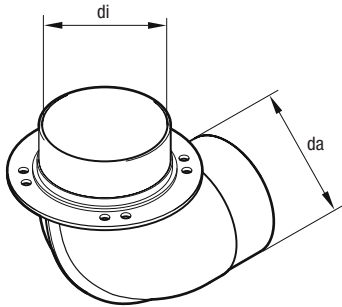
Elbow



$d_i = 24, d_a = 30 \text{ mm}, h = 50 \text{ mm}/80 \text{ mm}$

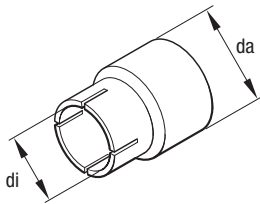
Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
■	■	■	■	■		■				25 1226 89 55 00
								■		22 1000 40 03 00
■	■	■	■	■		■				25 1520 80 01 01
								■	■	25 2800 30 10 00

Exhaust Elbow



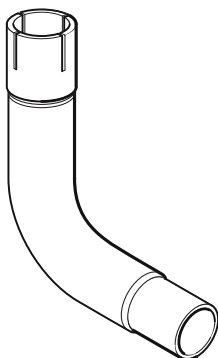
(with exhaust)

Straight Exhaust Fitting



$d_i = 24, d_a = 30 \text{ mm}$

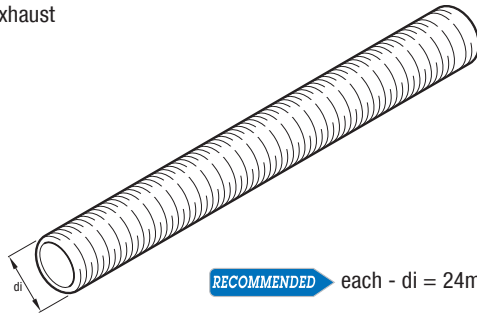
Exhaust 90° adapter



$d_i = 30 \text{ mm}$

# EXHAUST

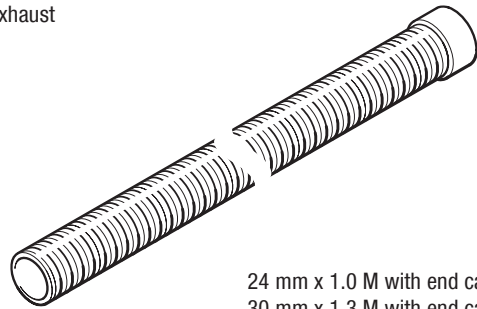
Flexible Stainless Steel Exhaust



**RECOMMENDED** each - di = 24mm (1.3 mtr)

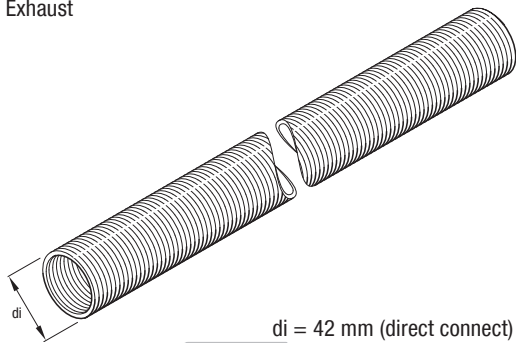
	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
Flexible Stainless Steel Exhaust (di = 24mm)											360 61 557
Flexible Stainless Steel Exhaust (24 mm x 1.0 M with end cap - per mtr)											25 1774 80 02 00
Flexible Stainless Steel Exhaust (30 mm x 1.3 M with end cap - per mtr)											25 1816 80 08 00
Flexible Stainless Steel Exhaust (di = 42 mm)											5530013
<b>RECOMMENDED</b> di = 24 mm (one layer) - per mtr											360 61 550
di = 24 mm (two layer) - per mtr											360 61 299
di = 30 mm (one layer) - per mtr											360 61 580
di = 30 mm (two layers) - per mtr											360 61 300
Flexible Stainless Steel Exhaust (di = 70 mm)											5530015

Flexible Stainless Steel Exhaust



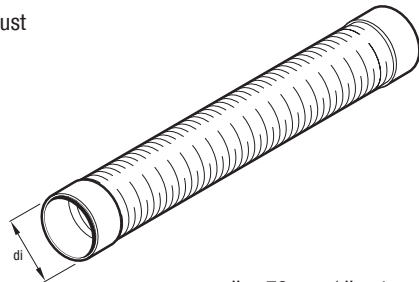
24 mm x 1.0 M with end cap - per mtr  
30 mm x 1.3 M with end cap - per mtr

Flexible Stainless Steel Exhaust



di = 42 mm (direct connect) - per mtr  
**RECOMMENDED** di = 24 mm (one layer) - per mtr  
di = 24 mm (two layer) - per mtr  
di = 30 mm (one layer) - per mtr  
di = 30 mm (two layers) - per mtr

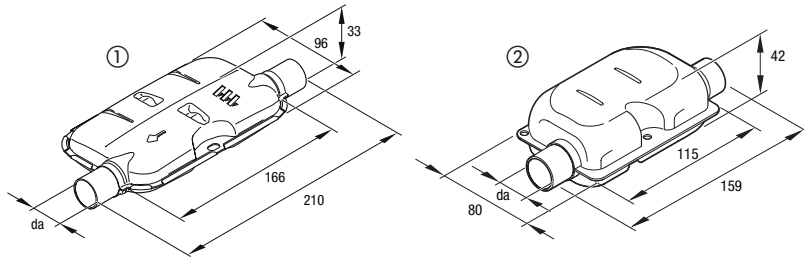
Flexible Stainless Steel Exhaust



di = 70 mm (direct connect) - per mtr

# EXHAUST

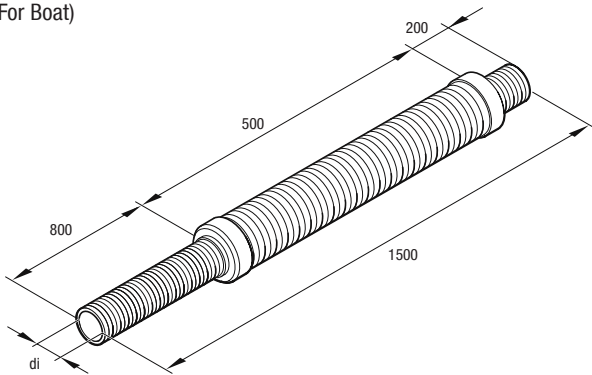
Exhaust Muffler



for 24mm (Slimmer-New)  
for 24mm (Wider-Old)

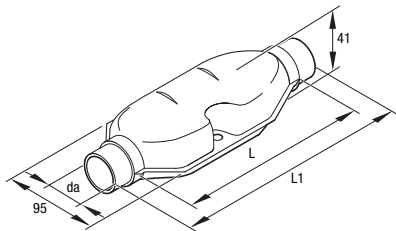
Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										22 1000 40 09 00 ① 25 1864 81 01 00 ②
										di = 30 mm 25 1226 89 58 00
										di = 30 mm 25 1806 80 01 00
										1 1 2 3 5530001 5530002 5530003

Exhaust Muffler (For Boat)



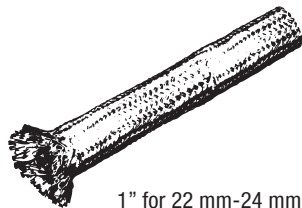
di = 30 mm

Exhaust Muffler



di = 30 mm

Exhaust Insulation Sock

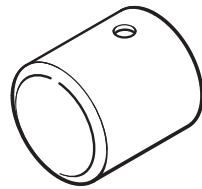


1" for 22 mm-24 mm, ID Exhaust - per mtr  
2" for 24 mm-42 mm, ID Exhaust - per mtr  
3" for 70 mm, ID Exhaust - per mtr



# EXHAUST

Exhaust End Cap



ø 24 mm

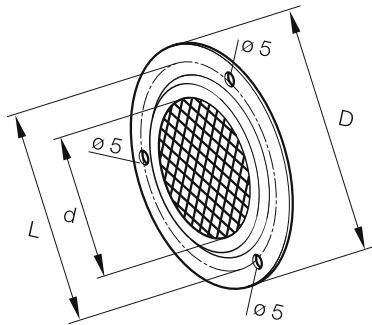
	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
Exhaust End Cap	■	■	■	■	■		■				25 1482 80 00 01
Exhaust End Cap with Crossbar	■	■	■	■	■		■				20 2900 30 24 00
						■		■		■	25 1785 80 02 00
											22 1000 40 02 00
Exhaust Clamp for										■	5530004
Clamp for Exhaust Pipe	■	■	■	■	■		■	■		■	22 1000 51 4500
											152 61 102
Clamp for Exhaust Pipe							■				152 09 004

■ unrestricted use ~ restricted use

## DUCTING

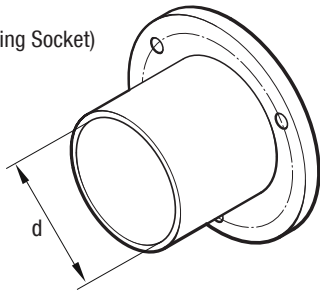
**PLEASE NOTE:** ■ Air ducting is critical to the performance of your heater - for information on how to layout a system and measure restriction values see the Rating Guide on page 67.

**1**  
Grill (Inlet & Outlet)



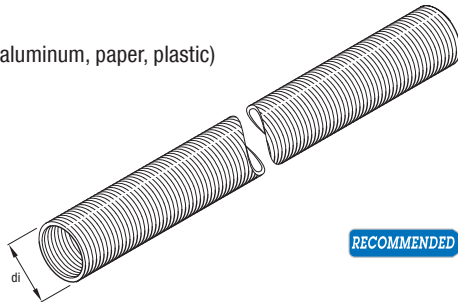
(90 mm or 3.5")  
(140 mm or 5.25")  
D = 93 mm (3.6"), L = 75 mm (3") d = 60 mm (2.4")  
Nickel Plated Open Screen (140 mm or 5.25")

**2**  
Ducting Flange (Connecting Socket)



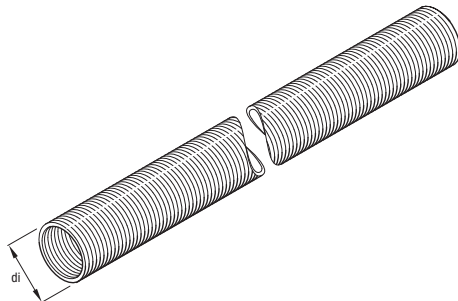
for Duct Size 50 mm (2")  
for Duct Size 60 mm (2.4")  
for Duct Size 90 mm (3.5")  
for Duct Size 100 mm (4")

**3**  
**3a**  
Flexible Air Hose (aluminum, paper, plastic)



di = 50mm (2")  
di = 60mm (2.4")  
di = 75mm (3")  
di = 90mm (3.5")

**3a**  
**3.1**  
Flexible Hose



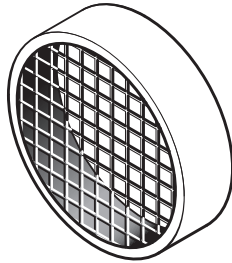
di = 75 mm (3")  
di = 100 mm (4")

Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										20 1465 89 05 00
										25 1729 89 00 05
										22 1000 01 00 01
										25 1226 89 05 00
										20 1575 80 08 01
										20 1577 89 06 01
										20 1297 00 00 01
										25 1226 89 00 40
										10 2114 29 00 00
										10 2114 31 00 00
										10 2114 34 00 00
										10 2114 37 00 00
										5550007
										5550008

# DUCTING

**PLEASE NOTE:** ■ Air ducting is critical to the performance of your heater - for information on how to layout a system and measure restriction values see the Rating Guide on page 67.

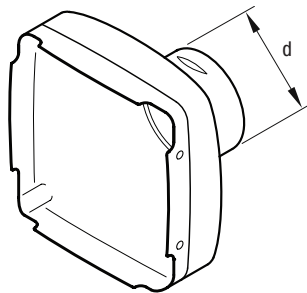
4  
Protective Grill (Heater)



d = 60 mm (2.4")  
d = 75 mm (3")  
d = 90 mm (3.5")  
d = 100 mm (4")

	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
d = 60 mm (2.4")	■		■								25 1688 80 06 00
d = 75 mm (3")	■	■		■							25 1552 05 01 00
d = 90 mm (3.5")		■		■	■						25 1729 80 00 01
d = 100 mm (4")						■					25 1226 89 44 00

5  
Straight Air Outlet Hood

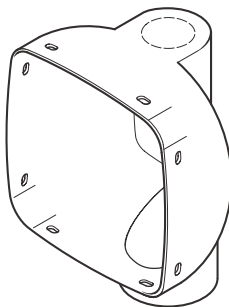


(Complete Rear Air Outlet Hood) d = 90 mm (3.5")

d = 60 mm (2.4")  
d = 75 mm (3")  
d = 75 mm (3")  
d = 90 mm (3.5")  
d = 60 mm (2.4")  
d = 75 mm (3")  
d = 75 mm (3")  
d = 90 mm (3.5")

d = 60 mm (2.4")	■										22 1000 01 00 16
d = 75 mm (3")	■										22 1000 01 00 17
d = 75 mm (3")		■									22 1000 01 00 18
d = 90 mm (3.5")		■									22 1000 01 00 19
d = 60 mm (2.4")			■								25 1688 80 03 00
d = 75 mm (3")			■								25 1688 89 02 00
d = 75 mm (3")				■							25 1822 80 01 00
d = 90 mm (3.5")				■	■						25 1822 89 01 00
(Complete Rear Air Outlet Hood) d = 90 mm (3.5")					■						25 1729 01 09 00

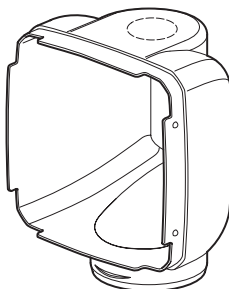
6  
90° Air Outlet Hood



di = 60 mm (2.4") Outlet  
di = 75 mm (3") Outlet

di = 60 mm (2.4") Outlet			■								25 1688 89 01 01
di = 75 mm (3") Outlet				■							22 1000 01 00 02

6.1  
Ball-shaped scoop



Used with the Airtronic D4 Plus

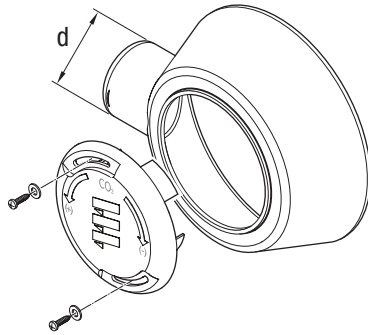
di = 60 mm (2.4") Outlet  
di = 75 mm (3") Outlet  
di = 90 mm (3.5") Outlet  
d = 75 mm (3")

di = 60 mm (2.4") Outlet	■										22 1000 01 00 20
di = 75 mm (3") Outlet		■									22 1000 01 00 22
di = 90 mm (3.5") Outlet		■									22 1000 01 00 23
d = 75 mm (3")	■	■									22 1000 01 00 28

# DUCTING

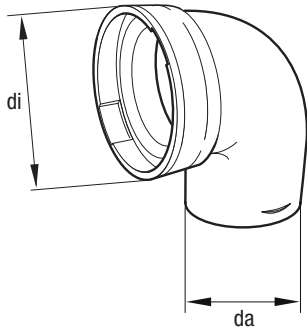
**PLEASE NOTE:** ■ Air ducting is critical to the performance of your heater - for information on how to layout a system and measure restriction values see the Rating Guide on page 67.

6.2  
Air Intake Hood



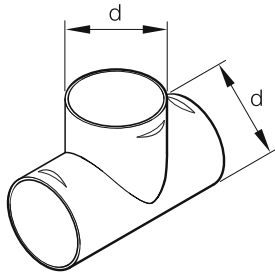
d = 60, mm (2.4")

7  
90° Bend,  
Plastic Elbow



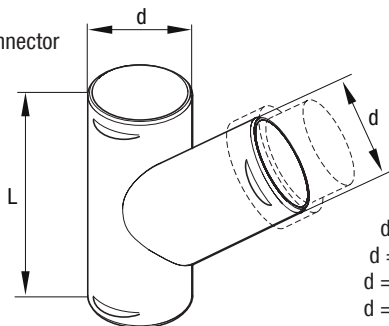
di = 60 mm (2.4"), da = 60 mm (2.4")  
di = 75 mm (3"), da = 75 mm (3")

8  
Plastic "T" Piece



d = 60 mm (2.4")  
d = 75 mm (3")  
d = 90 mm (3.5")

9  
45° Plastic "Y" Connector



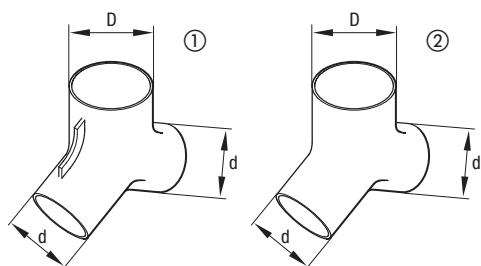
d = 75 mm (3"), L = 175 mm  
d = 100 mm (4"), L = 230 mm  
d = 60 mm (2.4"), L = 145 mm  
d = 90 mm (3.5"), L = 180 mm

Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										22 1000 40 06 00
										25 1688 89 00 01 25 1482 89 00 05
										25 1688 89 00 02 22 1000 01 00 27 22 1000 01 00 26
										25 1226 89 00 44 25 1226 89 00 45 25 1774 89 00 05 22 1000 01 00 21

## DUCTING

PLEASE NOTE: ■ Air ducting is critical to the performance of your heater - for information on how to layout a system and measure restriction values see the Rating Guide on page 67.

### 9.1 Symmetrical “Y” Piece



Plastic, D = 60 mm, d =50 mm  
 Metal, D = 75 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

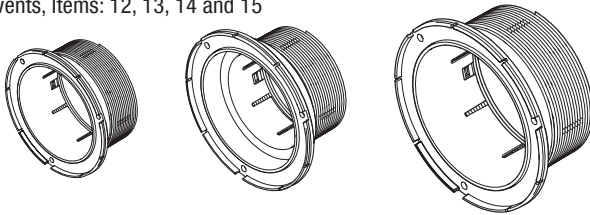
	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
Plastic, D = 60 mm, d =50 mm	■		■								25 1688 89 00 03 ①
Metal, D = 75 mm, d =50 mm	■		■		■	■					25 1482 80 08 00 ①
Plastic, D = 75 mm, d =60 mm	■										22 1000 01 00 82 ②
Plastic, D = 90 mm, d =60 mm	■				~						22 1000 01 00 83 ②
Plastic, D = 90 mm, d =75 mm	■										22 1000 01 00 84 ②
<b>10 Butterfly Valve with regulating flap</b>											
60 mm	■		■								330 00 174
90 mm - Requires operating cable	■		■		■						330 00 175
<b>10.1 Operating Cable for 330 00 174 /175</b>											
Requires air regulating valve	■		■		■						22 1000 01 03 00
<b>11 Outlet Grill with Connecting Piece (Rotatable)</b>											
d = 60 mm (2.4")	■		■		■						20 2800 50 02 00

■ unrestricted use ~ restricted use

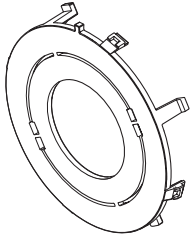
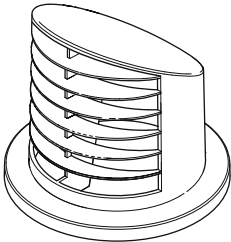
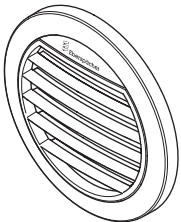
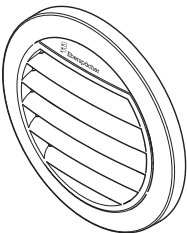
## DUCTING

**PLEASE NOTE:** ■ *Air ducting is critical to the performance of your heater - for information on how to layout a system and measure restriction values see the Rating Guide on page 67.*

**12**  
Ducting Flange (Plastic connecting piece)  
For vents, Items: 12, 13, 14 and 15



ø 60 mm, black  
ø 75 mm, black  
ø 90 mm, black

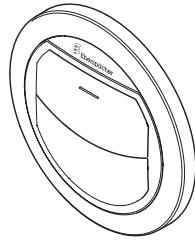
	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
	■	■	■	■	■	~					22 1000 01 00 35
	■	■	■	■	■	~					22 1000 01 00 36
	■	■	■	~	■	~					22 1000 01 00 37
<b>12.1</b> Air Control Element (2 position)											
	■	■	■	■	■	~					22 1000 01 00 79
* for fitting, order no. 22 1000 01 00 35 - Plastic, ø 60 mm	■	■	■	■	■	~					22 1000 01 00 80
** for fitting, order no. 22 1000 01 00 36 - Plastic, ø 75 mm	■	■	■	~	■	~					22 1000 01 00 81
*** for fitting, order no. 22 1000 01 00 37 - Plastic, ø 90 mm											
<b>13</b> 90° Upright Vent (Rotatable)											
	■	■	■	~	■	~					22 1000 01 00 64
Suitable for ø 50/60 mm fitting, black)	■	■	■	~	■	~					22 1000 01 00 68
Suitable for ø 75/90 mm fitting, black)											
<b>14</b> 30° Outlet Screen (Flat) (Rotatable)											
	■	■	■	~	■	~					22 1000 01 00 44
Suitable for ø 50/60 mm fitting, black)	■	■	■	~	■	~					22 1000 01 00 52
Suitable for ø 75/90 mm fitting, black)											
<b>14.1</b> 0° Outlet Screen (Flat) (For 75/90mm flange)											
	■	■	■	~	■	~					22 1000 01 00 48
Suitable for 75/90 mm fitting, black)	■	■	■	~	■	~					

■ unrestricted use    ~ restricted use

# DUCTING

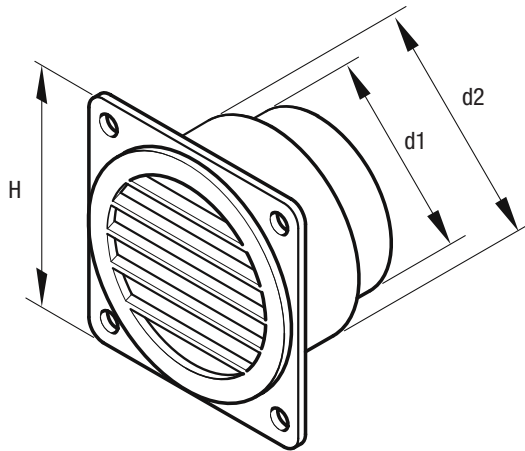
**PLEASE NOTE:** ■ *Air ducting is critical to the performance of your heater - for information on how to layout a system and measure restriction values see the Rating Guide on page 67.*

**15**  
 Outlet Screen Closable  
 Rotatable, see Ducting Flange  
 (Plastic) for fitting



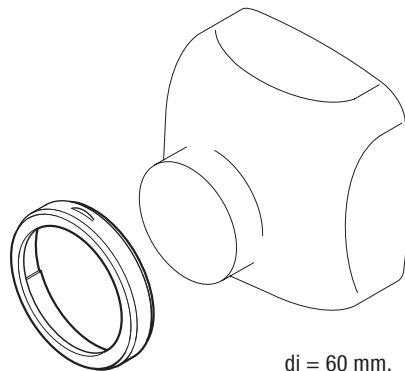
Suitable for  $\varnothing$  50/60 mm fitting, black)  
 Suitable for  $\varnothing$  75/90 mm fitting, black)

**16**  
 Outlet Vent with Flange  
 (Rotatable)



$d1 = 90 \text{ mm (3.5")}$ ,  $d2 = 100 \text{ mm (4")}$ ,  $H = 110 \text{ mm}$   
 $d1 = 75 \text{ mm (3")}$ ,  $d2 = 100 \text{ mm (4")}$ ,  $H = 110 \text{ mm}$

**18**  
 Adapter Ring



$d_i = 60 \text{ mm}$ ,  $d_a = 75 \text{ mm}$   
 $d_i = 75 \text{ mm}$ ,  $d_a = 90 \text{ mm}$   
 $d_i = 90 \text{ mm}$ ,  $d_a = 100 \text{ mm}$

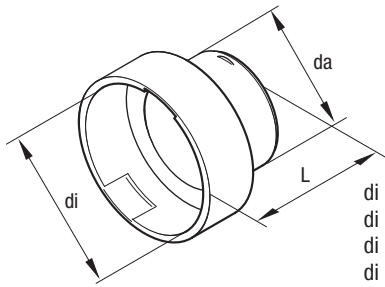
Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
■	■	■	~	■	~					22 1000 01 00 72
■	■	■	~	■	~					22 1000 01 00 76
	■	■	■	■	~					20 1609 80 09 00
■	■	■	■	■		■	■	■	■	22 1050 89 21 00
■	■	■	■	■						22 1000 01 00 08
■	■	■	■	■						25 1822 89 00 01
■	■	■	■	■						20 1607 80 00 01

■ unrestricted use    ~ restricted use

# DUCTING

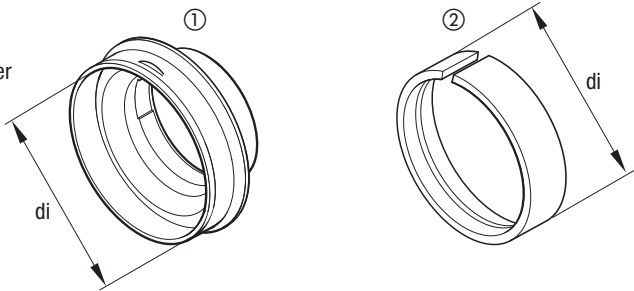
**PLEASE NOTE:** ■ Air ducting is critical to the performance of your heater - for information on how to layout a system and measure restriction values see the Rating Guide on page 67.

18.1  
Plastic Reducer for "Y" or Ducting Union



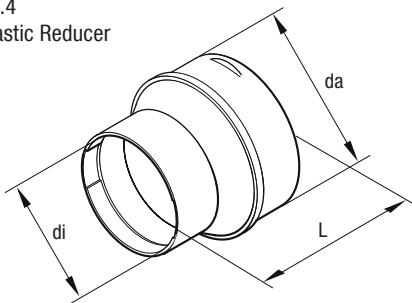
di = 75 mm (3"), da = 50 mm (2"), L = 50 mm  
 di = 100 mm (4"), da = 75 mm (3"), L = 50 mm  
 di = 100 mm (4"), da = 50 mm (2"), L = 62 mm  
 di = 75 mm (3"), da = 60 mm (2.4"), L = 45 mm

18.2 ①  
18.3 ②  
Hood Adapter



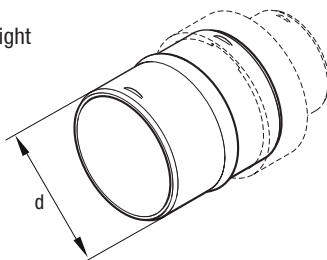
di = 60 (2.4") / 75 mm (3")  
 (black plastic) di = 90 (3.5") / 100 mm (4")

18.4  
Plastic Reducer



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

19  
Ducting Union, straight



d = 60 / 60 mm  
 d = 75 / 75 mm  
 d = 90 / 90 mm  
 d = 100 / 100 mm

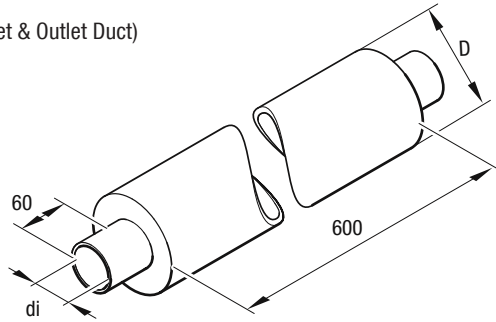
Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
■	■	■	■	■	■	■	■	■	■	25 1226 89 00 46
■	■	■	■	■	■	■	■	■	■	25 1226 89 00 47
■	■	■	■	■	■	■	■	■	■	25 1226 89 00 48
■	■	■	■	■	■	■	■	■	■	25 1226 89 00 50
■	■	■	■	■	■	■	■	■	■	25 1688 89 00 10 ①
■	■	■	■	■	■	■	■	■	■	20 1607 80 00 01 ②
■	■	■	■	■	■	■	■	■	■	25 1688 89 00 10
■	■	■	■	■	■	■	■	■	■	22 1000 01 00 05
■	■	■	■	■	■	■	■	■	■	22 1000 01 00 06
■	■	■	■	■	■	■	■	■	■	22 1000 01 00 24
■	■	■	■	■	■	■	■	■	■	22 1000 01 00 07



# DUCTING

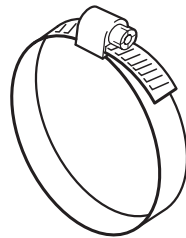
**PLEASE NOTE:** ■ *Air ducting is critical to the performance of your heater - for information on how to layout a system and measure restriction values see the Rating Guide on page 67.*

20  
Air Silencer (Inlet & Outlet Duct)



75 mm or 3"  
End Cap

23  
Stainless Steel Hose Clamp



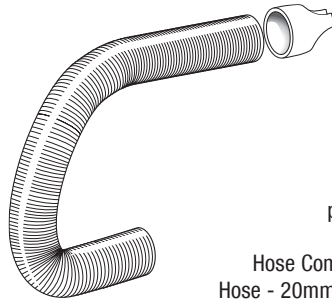
46-70 mm (60 mm or 2.4" Ducting)  
59-83 mm (75 mm or 3" Ducting)  
84-108 mm (100 mm or 4" Ducting)

Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
	■		■	■	■					25 1226 89 15 00 25 1226 89 56 00
			■	■	■					5550004 5550002 5550003

## INTAKE (COMBUSTION AIR)

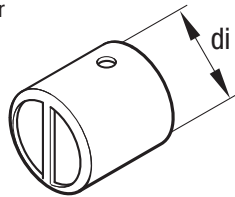
**PLEASE NOTE:** ■ Air ducting is critical to the performance of your heater - for information on how to layout a system and measure restriction values see the Rating Guide on page 67.

21  
Combustion Air Intake Flex Hose



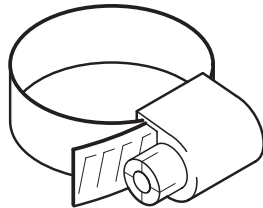
per mtr, ID = 30 mm  
End Cap  
Hose Comb. Air - 25mm (1m)  
Hose - 20mm APK Comb Air (1m)

Plastic Air Intake End Cap with Crossbar



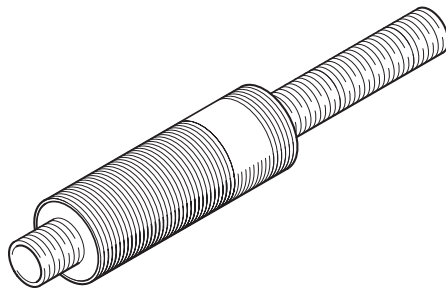
di = 20 mm  
di = 25 mm

22  
Ducting Clamp

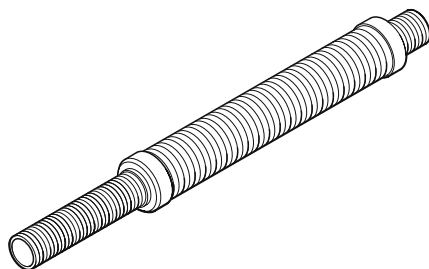


32-50 mm  
33-57 mm

Intake Silencer



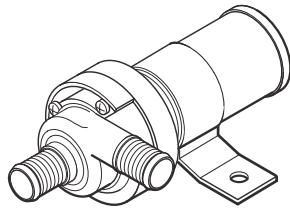
Air Int Muffler w/End Cap



	Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
per mtr, ID = 30 mm											10 2114 25 00 00
End Cap											25 1480 89 04 00
Hose Comb. Air - 25mm (1m)											360 00 006
Hose - 20mm APK Comb Air (1m)											360 00 099
di = 20 mm											25 1688 80 12 01
di = 25 mm											25 1729 89 00 02
32-50 mm											10 2067 03 20 50
33-57 mm											5550001
											20 1609 80 04 00
											25 1786 80 02 00

# COOLANT PUMPS

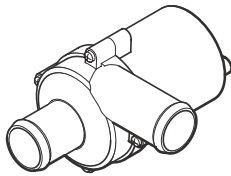
Coolant Pump



(700 L/hr) 12 volt  
(700 L/hr) 24 volt

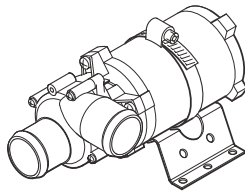
Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
							■			25 1815 25 01 00
							■			25 1816 25 01 00
							■			25 2275 25 00 00
							■			25 2009 25 00 00
								■		25 2488 26 00 00
							■		■	25 2596 25 01 00
							■		■	20 2900 60 01 39
							■		■	20 2900 70 01 40
								■		25 2488 25 00 00
							■		■	22 1000 10 07 00

Coolant Pump



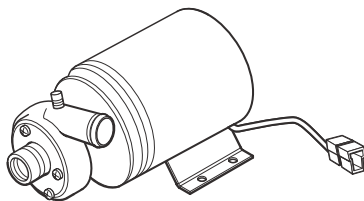
(800 L/hr) 12 volt  
(900 L/hr) 24 volt

Flowtronic Coolant Pump



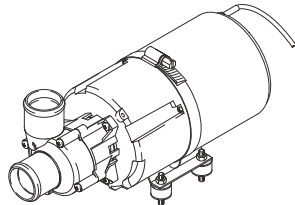
(5000 L/hr) 24 volt

High Capacity Pump



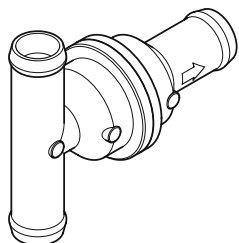
E-Guardian Coolant Pump  
12 volt Albany (2280 L/hr)  
24 volt Albany (2280 L/hr)

Flowtronic Coolant Pump



24 volt (6000 L/hr)

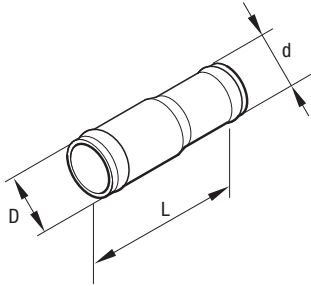
Water Check Valve



D = 20 mm, d = 20 mm

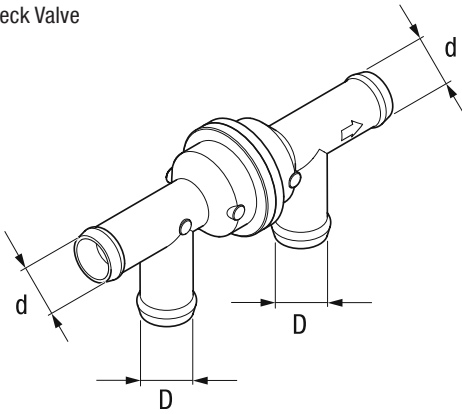
# PLUMBING

Brass Reducer



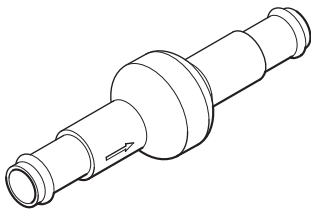
D = 20 mm, d = 18 mm

One Way Check Valve



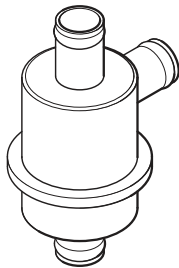
D = 20 mm, d = 20 mm  
Non-Return Valve d = 18 mm / D = 20 mm / D = 20 mm / d = 18 mm

One Way Check Valve



20mm

Brass Water Thermostat



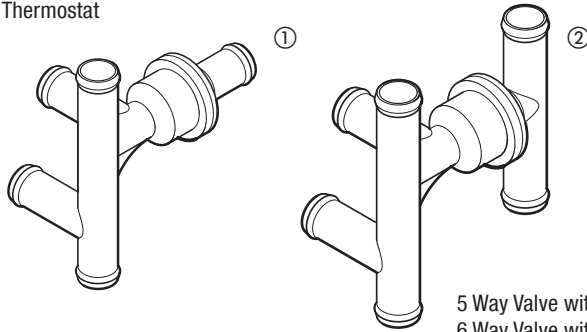
D = 18mm, d = 18mm (70°C-75°C) 158°F-167°F

Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
						■	■		■	20 1645 89 00 06
						■	■		■	22 1000 10 10 00
						■	■		■	22 1000 10 11 00
							■		■	22 1000 10 08 00
							■		■	330 00 123

■ unrestricted use ~ restricted use

# PLUMBING

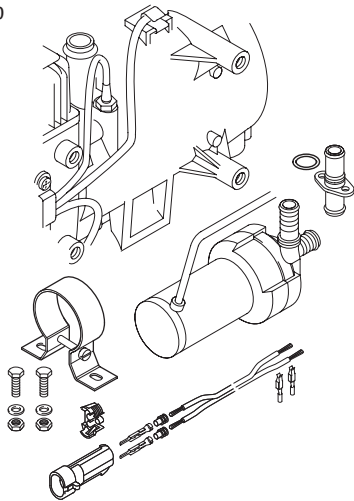
Valve with Thermostat



5 Way Valve with Thermostat  
6 Way Valve with Thermostat

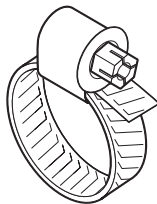
Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										25 2014 80 72 00
										25 2014 80 62 00

Conversion Kit for Water Pump



Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										22 1000 10 01 00

Clamp

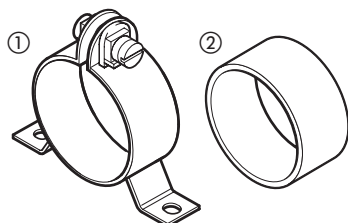


16-25 mm, ID = 10  
20-32 mm, ID = 10

Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										10 2067 01 60 25
										10 2066 02 00 32

Pump Clamp  
Rubber Ring for Large FMP

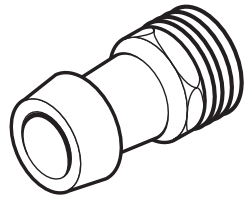
48 mm 22



Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
										22 1000 50 10 00 ①
										20 1449 00 10 01 ②

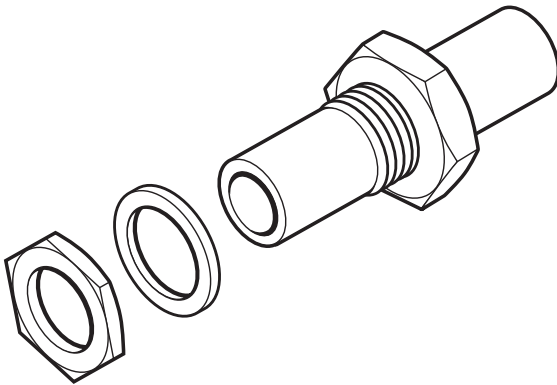
# PLUMBING

## Brass Pump Fittings



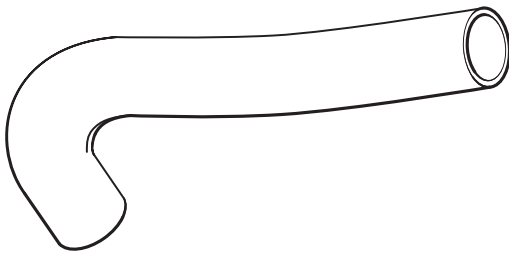
3/4" NPT x 3/4" Barb

## Bulk Head Fitting



3/4" - 2 pieces required  
1/2 - 3/4 Straight Barb Connection

## 90° Hose Bend

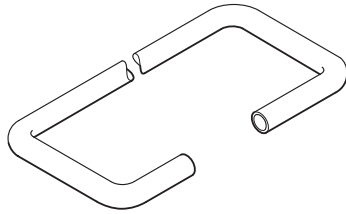


20mm x 0.29 mtr

Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
						■				20 2900 60 10 02
						■				20 2900 60 10 10 5520068
							■			20 2900 60 10 23

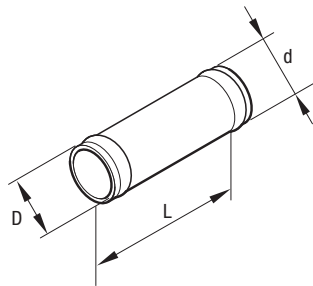
# PLUMBING

180° Coolant Hose



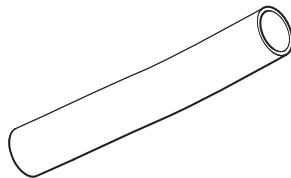
18 mm, L = 2000 mm  
20 mm, L = 2000 mm

Brass Hose Connector



d = 18mm  
d = 20mm  
d = 22mm

Coolant Hose



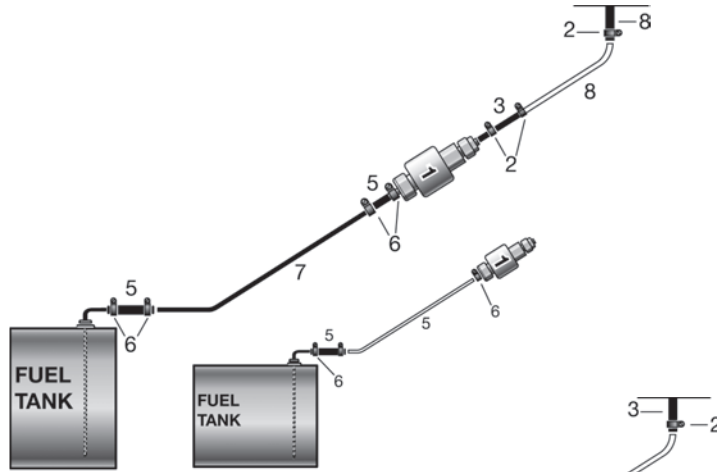
1.5" 1mt piece

Airtronic D2	Airtronic D4	B1LC compact	B3LC compact	Airtronic D5	D8LC	Hydronic 4 / 5	Hydronic 10 / M	Hydronic 16 / 24 / 30 / 35	Hydronic M-II	Part number
						■	■			20 1690 81 00 01
						■	■			25 1917 80 00 01
						■	■			20 1528 88 00 03
						■	■			20 1534 88 00 01
						■	■			20 1645 89 00 07
						■				20 2900 60 10 39

# FUEL SYSTEM GUIDE

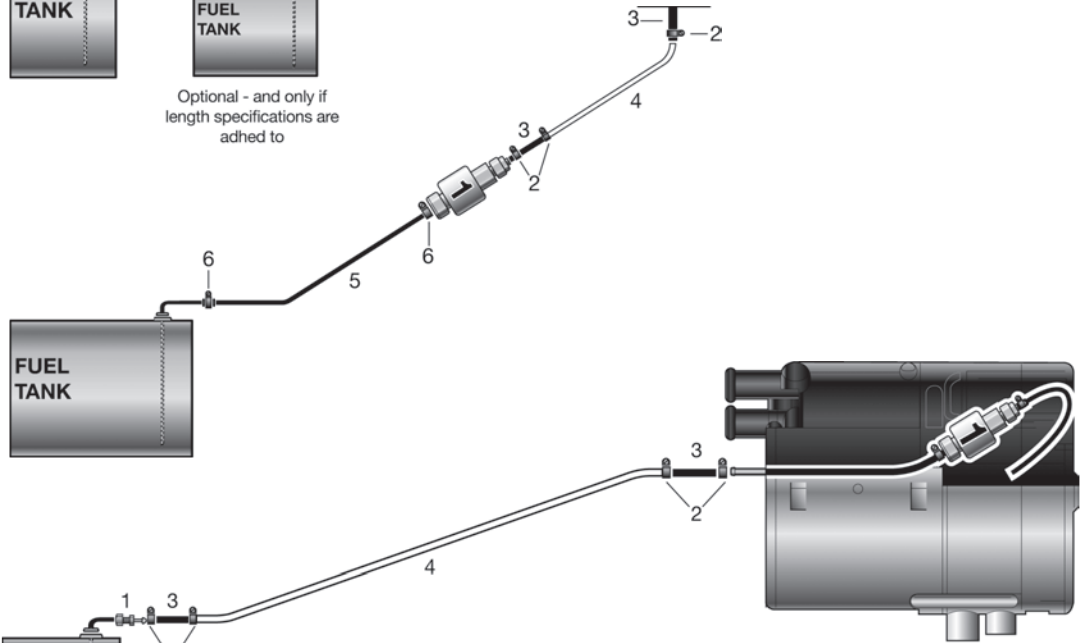
This guide is to help in selecting which size fuel line, rubber hose and clamps are required for a specific heating system. Refer to the Fuel System section of this manual for specific part numbers. Cross-reference this information with the corresponding heater manual for maximum height and length specifications.

AIRTRONIC 2  
AIRTRONIC 4  
B1LC compact  
B3LC compact  
D/B5LC



Optional - and only if length specifications are adhered to

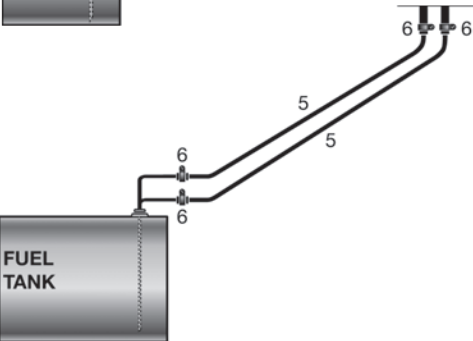
D8LC  
HYDRONIC 10



HYDRONIC 4  
HYDRONIC 5



HYDRONIC 16  
HYDRONIC 24  
HYDRONIC 30  
HYDRONIC 35



## LEGEND

1. Fuel Pipe Reducer
2. Clamp 9mm
3. Rubber Connector 3.5mm
4. White Plastic Fuel Line 2.0mm
5. Rubber Connector / Fuel Line 5.0mm
6. Clamp 11mm
7. Black Plastic Fuel Line 2.0mm
8. White Plastic Fuel Line 1.5mm





# DUCTING RATING GUIDE

## GENERAL TIPS ON HEATING AIR DUCTING AND COMPONENT RATINGS

A heater has the biggest heating air throughput when it can operate with the air blowing freely. Heating air ducting components reduce the throughput. To enable you to check whether or not the installation you plan reduces the air throughput to an inadmissible degree, we have calculated a heater rating for each heater and a component rating for each heating air ducting component:

- 0 = no temperature increase
- = no component rating

The sum of component ratings for the heating air ducting components must not exceed the heater rating, otherwise the outlet temperature will become too high and trigger the safety cutout switch. If the sum of the component ratings exceeds the heater rating, it can be reduced by selecting a larger diameter for the air ducting parts.

### RULE OF THUMB:

Double the cross-section or two identical components running parallel = 1/4 of the rating.

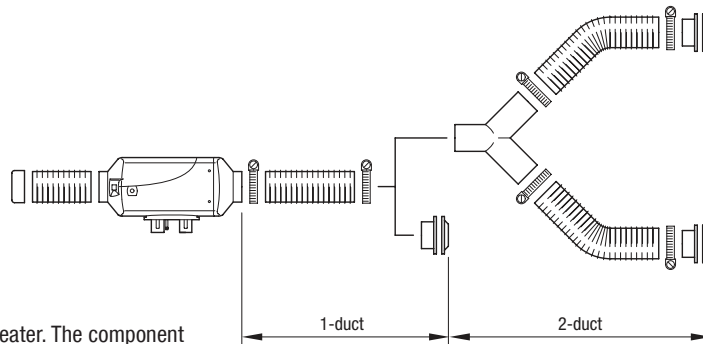
Example:

50 diameter hose  
A = 19.6 cm<sup>2</sup>, R rating 1.0

75 diameter hose  
A = 44.2 cm<sup>2</sup>, R rating 0.25

The component rating of smooth welded pipes is only half that of flexible pipe of equal diameter (e.g. double the pipe length).

## MAIN-LINE DRAWING FOR 1-DUCT AND 2-DUCT HEATING AIR SYSTEM



### 1-DUCT MEANS:

A heating duct leads to or from heater. The component ratings under "1-duct" are valid.

### 2-duct means:

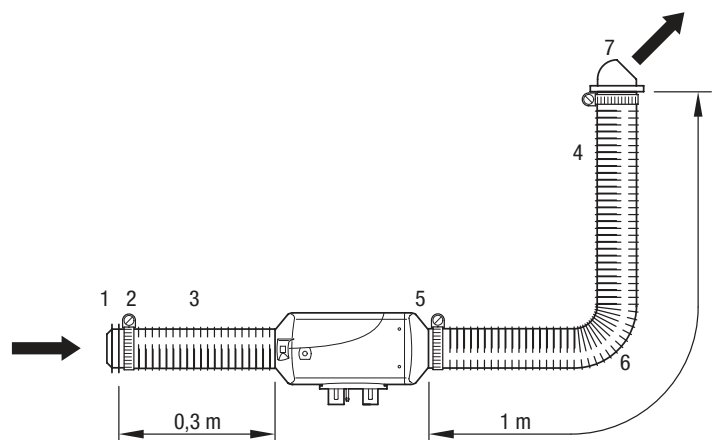
The heating air line branches into two ducts after the heater. Up to the branch the component ratings under "1-duct" are valid, after the branch they fall under "2-duct". If an adjustable outlet is used in the 2-duct heating system, one duct must be unclosable.

Note: When determining the sum of the component ratings, do not take the closable duct into consideration.

## EXAMPLE OF HEATING AIR DUCTING FOR AIRTRONIC D2

Heater Rating = 6

ITEM	DESIGNATION	COMPONENT RATING
1	Protective grille	0.5
2	Connection piece 60mm dia.	0
3	Flex. pipe, 60mm dia. 0.3m long	0.3
4	Flex. pipe, 60mm dia, 1.0m long	1.0
5	Reduction hood 60mm straight	0
6	1 x 90° bends of flex. pipe	0.2
7	Swivel outlet	3.2
<b>Total Component Rating</b>		<b>5.2</b>

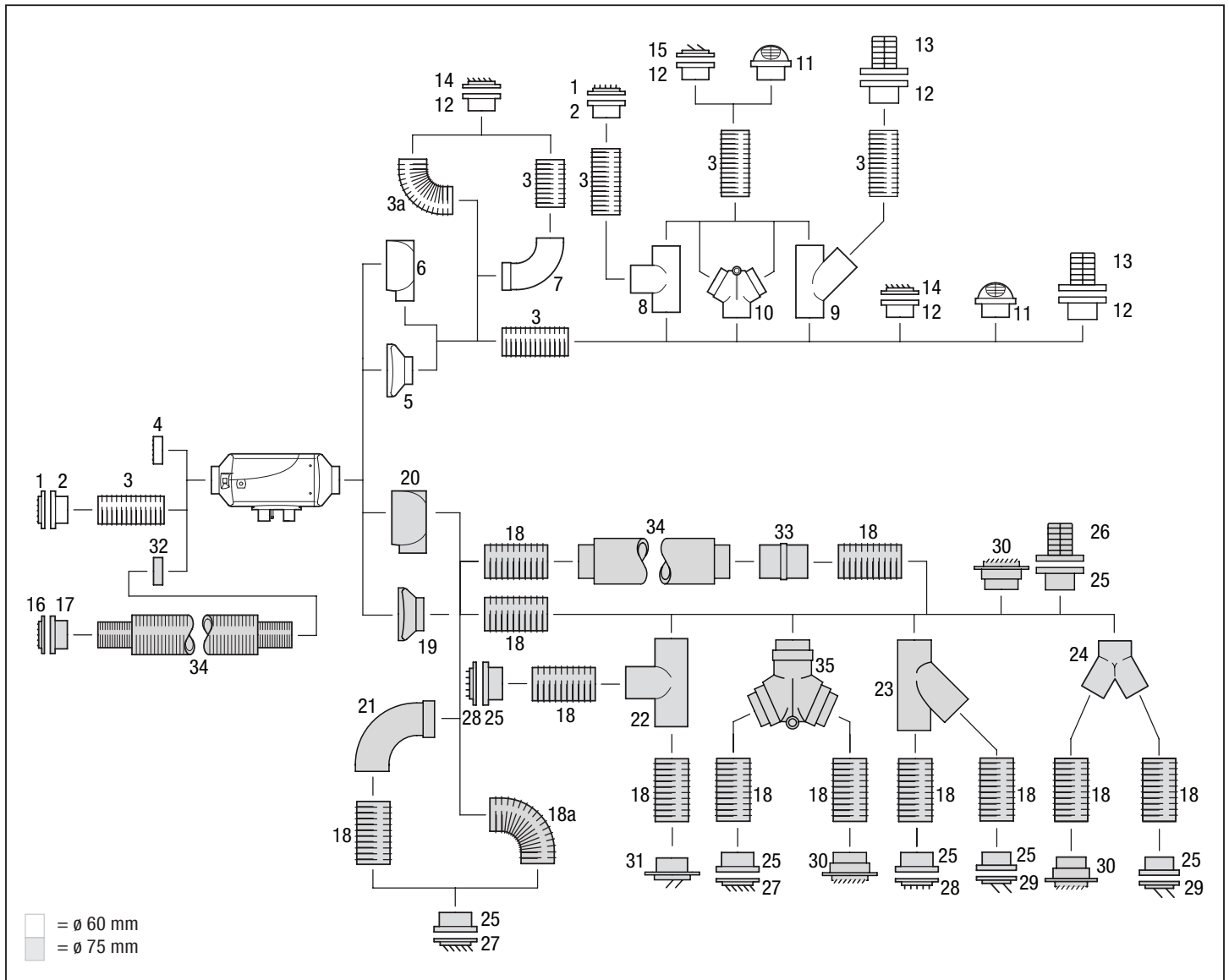


Rating sum = 5.2 and does not exceed the heater rating of 6. The installation is permissible.

## DUCTING RATING GUIDE FOR AIRTRONIC D2

Heater Rating 6 - applies with a 60mm dia. outlet hood.  
 Heater Rating 12 - applies with a 75mm dia. outlet hood.

The sketch shows how the most important air ducting parts that can be used. They are not intended as examples of installation.



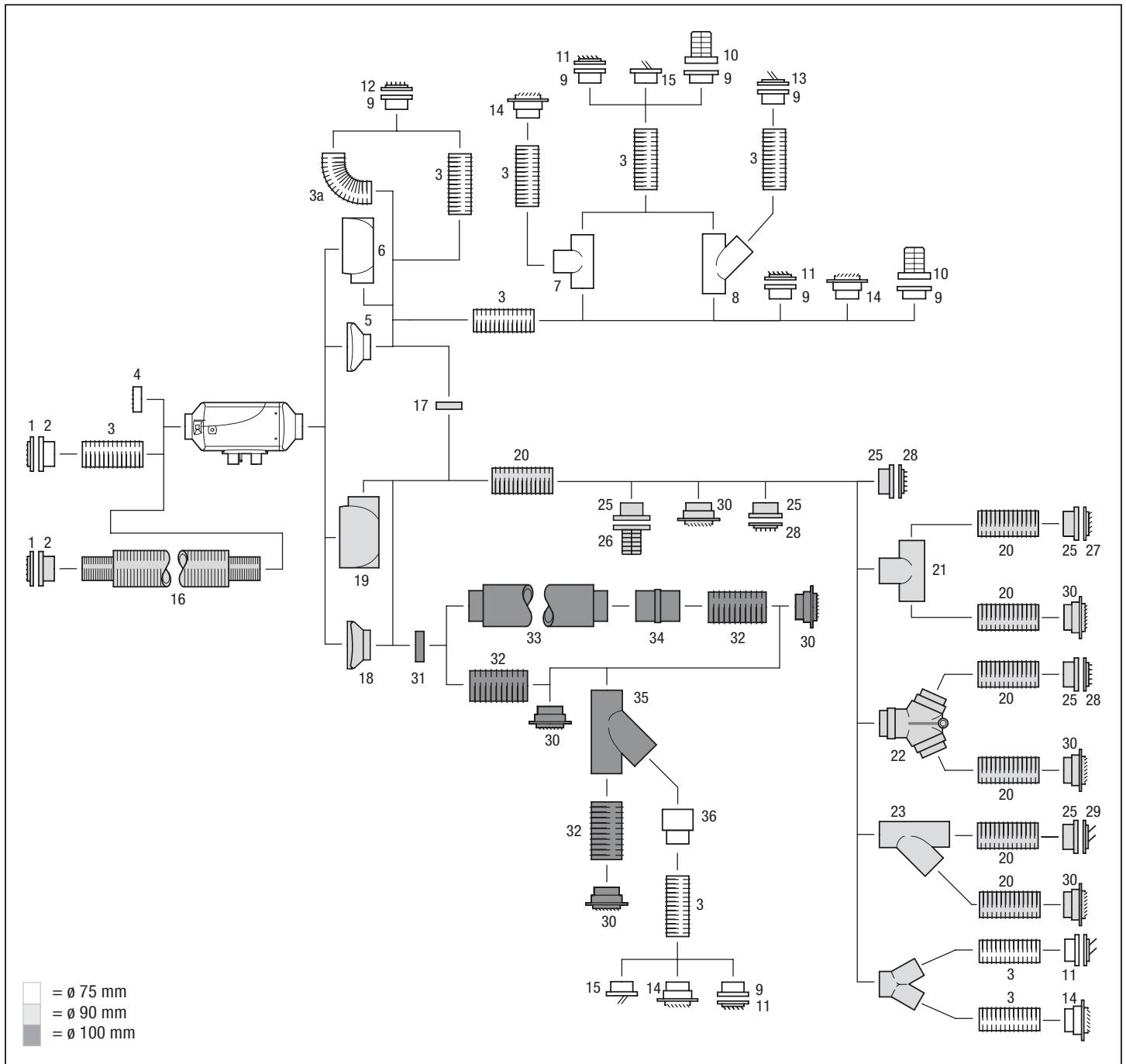
## DUCTING RATING GUIDE FOR AIRTRONIC D2

DESIGNATION (measurements in millimeters)		COMPONENT / DUCT RATING		PARTS LIST NUMBER
AIRTRONIC D2 WITH REDUCTION HOOD 60 DIA. (HEATER RATING 6)		Single duct	Multi duct	(See page 58)
1	Grille (Inlet & Outlet) $\varnothing$ 60	0.4	0.1	1
2	Connecting socket, $\varnothing$ 60	0	0	2
3	Flexible pipe, $\varnothing$ 60 (per metre)	1	0.25	3
3a	90° Bend, flexible pipe, $\varnothing$ 60	0.2	-	3a
4	Protective grille - Heater $\varnothing$ 60	0	-	4
5	Reduction hood, (Straight) $\varnothing$ 60	0	0	5
6	Reduction hood, (Spherical, 90°) $\varnothing$ 60	4.8	-	6
7	90° Bend, plastic elbow, $\varnothing$ 60	4	-	7
8	T-piece, $\varnothing$ 60 x $\varnothing$ 60 x $\varnothing$ 60	1.4	0.25	8
9	Y-piece, 45°, $\varnothing$ 60 x $\varnothing$ 60 x $\varnothing$ 60	-	1	9
10	Butterfly valve with regulating flap, $\varnothing$ 60 x $\varnothing$ 60 x $\varnothing$ 60 (Position "right/left")	-	0.6	10
11	Outlet grill with connecting piece (rotatable) $\varnothing$ 60	3.2	0.8	11
12	Ducting flange (plastic connecting piece) $\varnothing$ 60	0	0	12
13	Up right vent 90° (rotatable) $\varnothing$ 60	0.8	0.15	13
14	Outlet screen (flat) 30° (rotatable) $\varnothing$ 60	0.5	0.15	14
15	Outlet screen (closeable, rotatable) $\varnothing$ 60	-	-	15
AIRTRONIC D2 HEATING AIR DUCTING WITH REDUCTION HOOD, $\varnothing$ 75 (HEATER RATING 12)				
16	Grille (Inlet & Outlet) $\varnothing$ 75	0.4	0.1	1
17	Connecting socket, $\varnothing$ 75	0	0	2
18	Flexible pipe, $\varnothing$ 75 (per metre)	1	0.25	3
18a	90° Bend, flexible pipe, $\varnothing$ 75	1.2	-	3a
19	Reduction hood, (Straight) $\varnothing$ 75	0	0	5
20	Reduction hood, (Spherical 90°) $\varnothing$ 75	6	-	6
21	90° Bend, plastic elbow, $\varnothing$ 75	4.5	-	7
22	T-piece, $\varnothing$ 75 x $\varnothing$ 75 x $\varnothing$ 75	-	0.8	8
23	Y-piece, 45°, $\varnothing$ 75 x $\varnothing$ 75 x $\varnothing$ 75	-	0.6	9
24	Y-piece, Symmetrical, $\varnothing$ 75 x $\varnothing$ 60 x $\varnothing$ 60	-	0.8	9.1
25	Ducting flange (plastic connecting piece) $\varnothing$ 75	0	0	12
26	Up right vent 90° (rotatable) $\varnothing$ 75	0.8	0.15	13
27	Outlet screen (flat) 30° (rotatable) $\varnothing$ 75	0.5	0.15	14
28	Outlet screen (flat) 0° (rotatable) $\varnothing$ 75	0.5	0.15	14.1
29	Outlet screen (closeable, rotatable) $\varnothing$ 75	-	-	15
30	Outlet vent with flange (rotatable) $\varnothing$ 75 - $\varnothing$ 100	0.6	0.2	16
31	French vent with flange (closeable) $\varnothing$ 75	-	-	17
32	Adaptor ring ( $\varnothing$ 60 to $\varnothing$ 75)	-	-	18
33	Ducting union (straight connector) $\varnothing$ 75	0.5	0.1	19
34	Air silencer (inlet and outlet) $\varnothing$ 75	0.7	-	20
35	Butterfly valve with regulating flap, $\varnothing$ 75 x $\varnothing$ 75 x $\varnothing$ 75 (Position "middle / right, left")	-	1.2 / 0.6	10

# DUCTING RATING GUIDE FOR AIRTRONIC D4

Heater Rating 3 - applies with a 75mm dia. outlet hood.  
 Heater Rating 10 - applies with a 90mm dia. outlet hood.

The sketch shows how the most important air ducting parts that can be used. They are not intended as examples of installation.



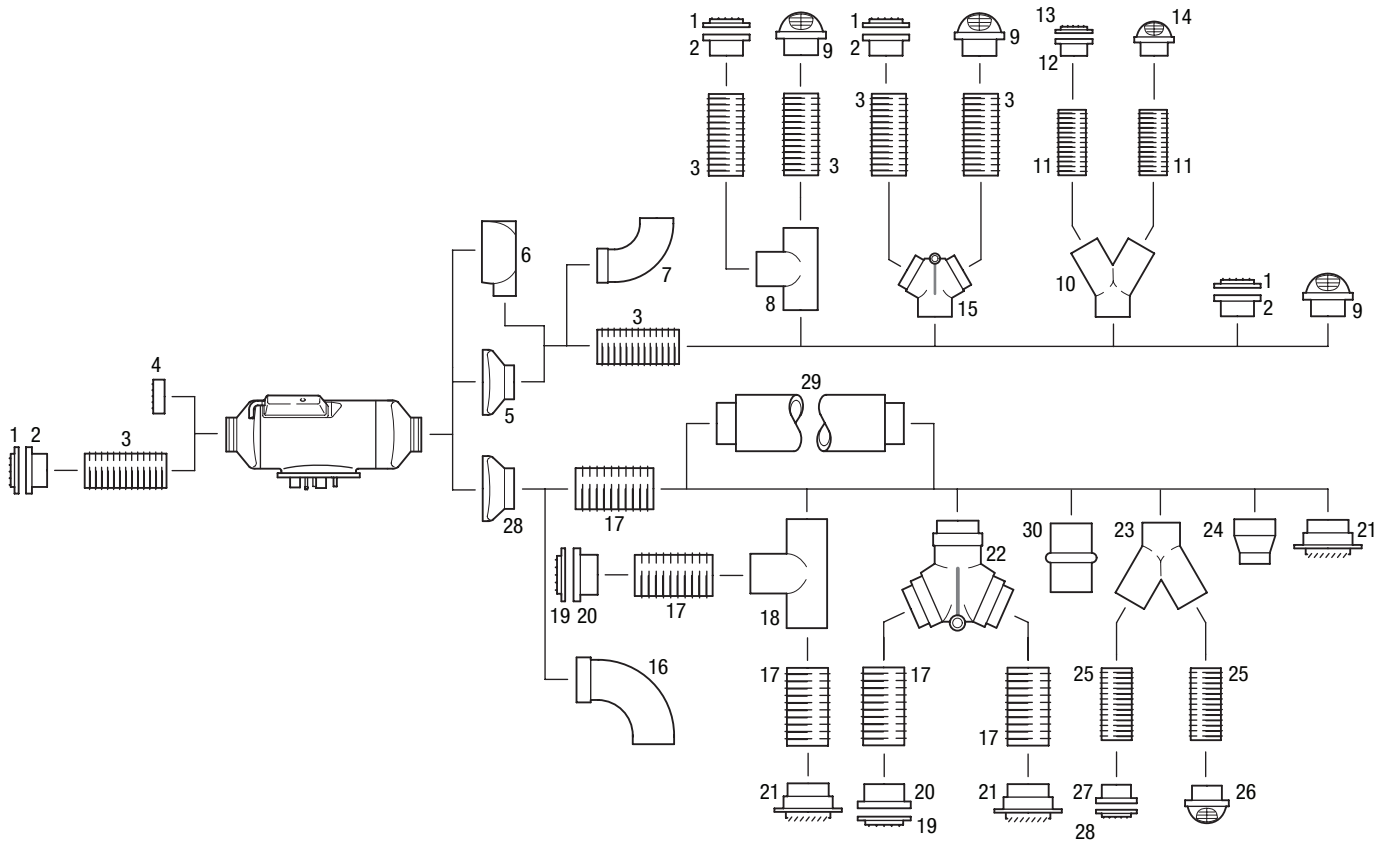
## DUCTING RATING GUIDE FOR AIRTRONIC D4

DESIGNATION (measurements in millimeters)		COMPONENT / DUCT RATING				PARTS LIST NUMBER
		Single duct		Multi duct		
AIRTRONIC D4 HEATING AIR DUCTING WITH REDUCTION HOOD 75 DIA. (HEATER RATING 3)		Ø 75	Ø 90	Ø 75	Ø 90	(See page 58)
1	Grille, (inlet & outlet), Ø 75	0.4		0.1		1
2	Connecting socket, Ø 75	0	-	0	-	2
3	Flexible pipe, Ø 75 (per metre)	1	-	0.25	-	3
3a	90° Bend, flexible pipe, Ø 75	0.2	-	0	-	3a
4	Protective grille - heater, Ø 75	2.0	-	-	-	4
5	Reduction hood, (Streight) Ø 75	0	-	-	-	5
6	Reduction hood, (Spherical, 90°) Ø 75	2.0	-	-	-	6
7	T-piece, Ø 75 x Ø 75 x Ø 75	-	-	0.5	-	8
8	Y-piece, 45°, Ø 75 x Ø 75 x Ø 75	-	-	0.6	-	9
9	Ducting flange (connecting piece) Ø 75	0	-	0	-	12
10	Up right vent 90° (rotatable) Ø 75	1.1	-	0.3	-	13
11	Outlet screen (flat, 30°, rotatable) Ø 75	0.3	-	0.1	-	14
12	Outlet screen (flat, 0°, rotatable) Ø 75	0.3	-	0.1	-	14.1
13	Outlet screen (closable, rotatable) Ø 75	-	-	-	-	15
14	Outlet vent with flange (rotatable) Ø 75 - Ø 100	0.8	-	-	-	16
15	French vent with flange (closable) Ø 75	-	-	-	-	17
16	Air silencer Ø 75	0.8	-	-	-	20
17	Adapter ring (Ø 75 x Ø 90)	0.5	-	-	-	18
<b>AIRTRONIC D4 WITH REDUCTION HOOD, Ø 90 (HEATER RATING 10)</b>						
18	Reduction hood (straight) Ø 90	0	-	-	-	5
19	Reduction hood (spherical 90°) Ø 90	-	5.0	-	-	6
20	Flexible pipe, Ø 90 (per metre)	-	1	-	2.5	3
21	T-piece, Ø 90 x Ø 90 x Ø 90	-	0	-	-	8
22	Butterfly valve with regulating flap, Ø 90 x Ø 90 x Ø 90 (Position "middle / right, left")	-	1.2 / 1.4	-	-	10
23	Y-piece, 45°, Ø 90 x Ø 90 x Ø 90	-	-	-	-	9
24	Y-piece, Symmetrical, Ø 90 x Ø 75 x Ø 75	-	-	-	0.9	9.1
25	Ducting flange (plastic connecting piece) Ø 90	-	2.2	-	0.5	12
26	Up right vent 90° (rotatable) Ø 90	-	2.4	-	0.6	13
27	Outlet screen (flat) 30° (rotatable) Ø 90	-	2.0	-	0.4	14
28	Outlet screen (flat) 0° (rotatable) Ø 90	-	1.1	-	0.3	14.1
29	Outlet screen (closable and rotatable) Ø 90	-	-	-	-	15
30	Outlet vent with flange (rotatable) Ø 90 - Ø 100	-	2.2	-	0.5	16
31	Adapter ring (Ø 90 to Ø 100)	-	0	-	-	18
32	Flexible pipe, Ø 100 (per metre)	-	0.4	-	-	3
33	Air silencer (inlet and outlet) Ø 100	-	0.5	-	-	20
34	Ducting union (connector) Ø 100	-	0.1	-	0.3	19
35	Y-piece, 45° (Ø 100 x Ø 100 x Ø 100)	-	-	-	0.5	9
36	Plastic reducer (for 4-piece & ducting union) (Ø 100 to Ø 75)	-	3.2	-	0.8	18.2

## DUCTING RATING GUIDE FOR B1LC COMPACT

Heater Rating 6 - applies with a 60mm dia. outlet hood.  
 Heater Rating 15 - applies with a 75mm dia. outlet hood.

The sketch shows how the most important air ducting parts that can be used. They are not intended as examples of installation.



## DUCTING RATING GUIDE FOR B1LC COMPACT

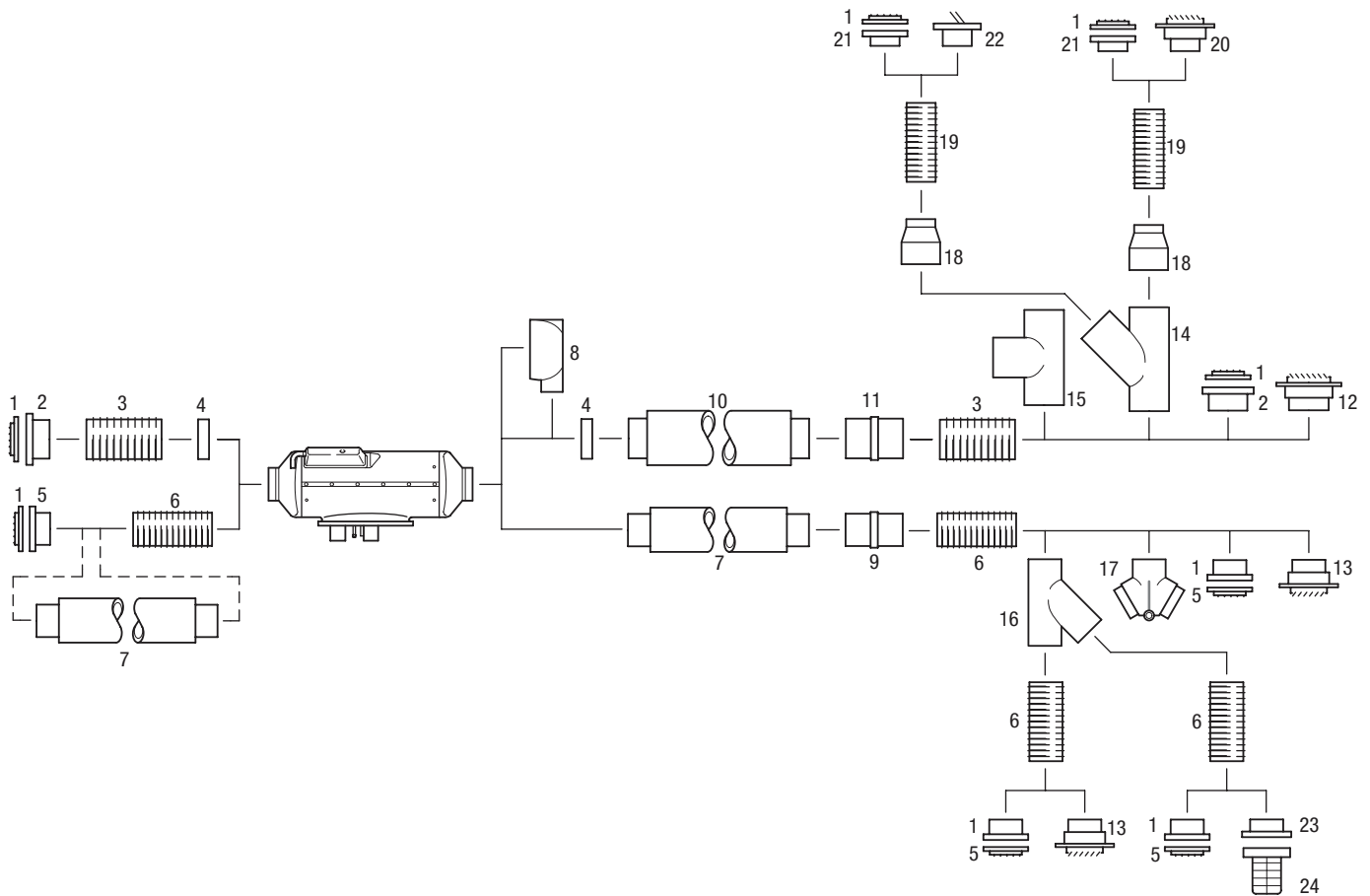
DESIGNATION (measurements in millimeters)		COMPONENT RATING	
		1-duct	2-duct
Heating air ducting with reduction hood 60 dia. (heater rating 6)			
1	Grille	1.2	0.4
2	Connecting socket, plastic	0.3	0
3	Flexible pipe, 60 dia. per m	1	0.25
	- 90° pipe bend of flex. pipe, 60 dia.	0.5	0.1
4	Protective grille	0.15	-
5	Reduction hood 60 dia.	0	0
6	Spherical reduction hood, 60 dia.	1.7	1.7*
7	Pipe bend, 60 dia.	3	*
8	T-piece, 60 dia.	-	0.3
9	Outlet grill (rotatable) 60 dia.	1	0.25
10	Y-piece, 60 dia.	-	0.85
11	Flexible pipe, 50 dia. per m	-	0.25
	- 90° pipe bend of flex. pipe, 50 dia.	-	0.1
12	Connecting piece	-	0
13	Outlet grill	-	0.15
14	Outlet grill (rotatable) 50 dia.	-	0.15
Regulating valve 60x60x60 dia. with flap			
15	Position "middle"	-	0
	Position "right/left"	-	1
Heating air ducting with reduction hood 75 dia. (heater rating 15)			
16	Pipe bend, 75 dia.	2	2*
17	Flexible pipe, 75 dia., per m	1	0.25
	- 90° pipe bend of flex. pipe, 75 dia.	0.7	0.15
18	T-piece 75x75x75 dia.	-	0.7
19	Grille, 75 dia.	0.3	0
20	Connecting socket, metal, 75 dia.	0	0
21	Outlet grill (rotatable) 75 dia.	0.7	0.15
Regulating valve 75x75x75 dia. with flap			
22	Position "middle"	-	0
	Position "right/left"	-	1
23	Y-piece 50x75x50 dia.	-	1.3
24	Reducing piece, 75 dia. - 50 dia.	-	0.8
25	Flexible pipe, 50 dia. per m	-	1
	- 90° pipe bend of flex. pipe, 50 dia.	-	0.8
26	Outlet grill (rotatable) 50 dia.	-	0.35
27	Connecting socket, plastic, 50 dia.	-	0
28	Reduction hood, 75 dia.	0	0
29	Silencer, 75 dia.	1	-
30	Connector, 75 dia.	-	-

\* Component is in front of the 2-duct system. In the case of a combination of air-ducting parts - dia. 60 at the intake side and dia. 75 at the exhauster side - the rating of the components at the exhauster side must be multiplied by 0.4. The heating rating 6 applies.

# DUCTING RATING GUIDE FOR AIRTRONIC 5

## Heater Rating 10

The sketch shows how the most important air ducting parts that can be used. They are not intended as examples of installation.





## DUCTING RATING GUIDE FOR AIRTRONIC 5

DESIGNATION (measurements in millimeters)		COMPONENT RATING	
		1-duct	2-duct
Heating air ducting with reduction hood 90 dia. (heater rating 10)			
1	Grille	0.6	0.2
2	Connecting socket, metal, 100 dia.	0	0
3	Flexible pipe, 100 dia. per m	0.6	0.2
	Bend, 90° of flexible pipe, 100 dia.	0.6	-
4	Grille, 90x100 dia.*	0	-
5	Connector piece, 90 dia.	0	0
6	Flexible pipe, 90 dia. per m	1.0	0.25
	Bend, 90° of flexible pipe, 90 dia.	0.2	-
7	Silencer, 90 dia.	0.8	-
8	Spherical reduction hood, 90 dia.	8	-
9	Connector, 90 dia.	0.5	0.1
10	Silencer, 100 dia.	0.5	-
11	Connector, 100 dia.	0.4	0.1
12	Outlet grill (rotatable) 100 dia.	2	0.5
13	Outlet grill (rotatable) 90 dia.	2	0.5
14	Y-piece 100x100x100 dia.	-	0.5
15	T-piece 100x100x100 dia.	-	0.5
16	Y-piece 90x90x90 dia.	-	0.6
	Regulating valve 90x90x90 dia.		
17	Position "middle"	-	1.1
	Position "right/left"	1	-
18	Reduction piece, 100 dia. - 75 dia.	3.2	-
19	Flexible pipe, 75 dia. per m	4	1
	Bend, 90°- of flexible pipe, 75 dia.	-	0.5
20	Outlet grill (rotatable) 75 dia.	-	1.25
21	Connecting socket, metal, 75 dia.	0	0
22	Round outlet, 75 dia., closing	-	-
23	Connector, 90 dia.	0	0
24	Outlet grill	3	0.8

\* Pos. 4 - if used as adapter 90 x 100 dia., cut out the mesh.

1

1

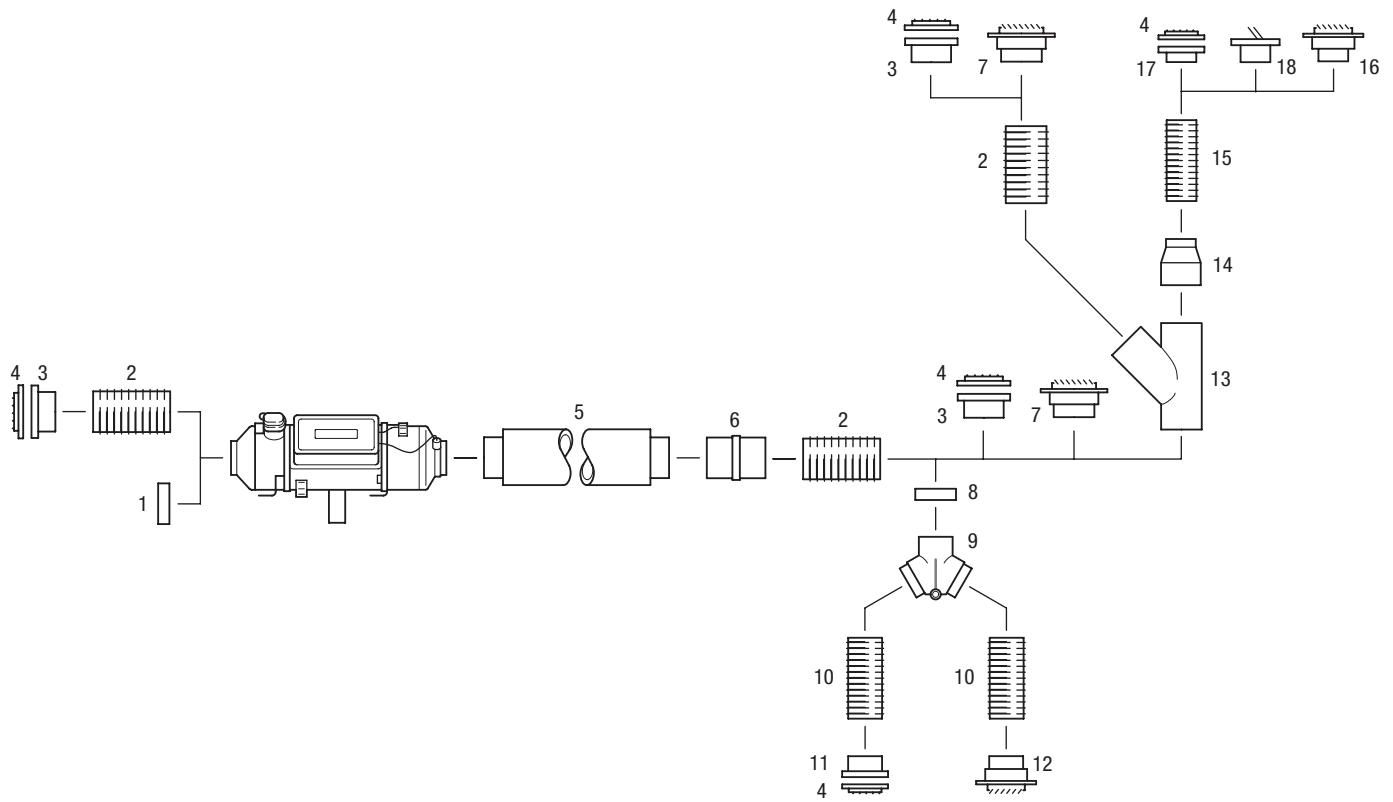
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3

# DUCTING RATING GUIDE FOR D8LC

## Heater Rating 8

The sketch shows how the most important air ducting parts that can be used. They are not intended as examples of installation.



- 1
- 1
- 2
- 3

## DUCTING RATING GUIDE FOR D8LC

	DESIGNATION (measurements in millimeters)	COMPONENT RATING	
		1-duct	2-duct
	Heating air ducting with reduction hood 90 dia. (heater rating 10)		
1	Grille, 100 dia.	0.1	-
2	Flexible pipe, 100 dia., per m	1.0	0.25
-	Pipe bend, 90°, of flex. pipe, 100 dia.	0.5	0.15
3	Connecting socket, metal, 100 dia.	0	0
4	Grille, painted, 100 dia.	1.8	0.1
-	Grille, nickel-plated, 100 dia.	1.8	0.1
5	Silencer, 100 dia.	1.1	0.25
6	Connector socket, 100 dia. 0.5 0.1		
7	Outlet grill (rotatable), 100 dia. 5.5 1.2		
8	Grille, 90x100 dia.* 0 -		
9	Regulating valve 100x100x100 dia. - 2.6		
10	Flexible pipe, 90 dia., per m 3 0.8		
11	Connecting socket, metal, 90 dia. 0 0		
12	Outlet grill (rotatable) 90 dia. - 1.4		
13	Y-pipe 100x100x100 dia. - 0.4		
14	Reduction piece, 100 dia. - 74 dia. 6.1 -		
15	Flexible pipe 75 dia. per m - 2		
-	Pipe bend, 90° of flex. pipe, 75 dia. - 1.1		
16	Outlet grill (rotatable) 75 dia. - -		
17	Connector socket, 75 dia. 0 0		
18	Connecting socket, metal, 75 dia. - -		

\*Pos. 8 - if used as adapter 90x100 dia., cut out the mesh.

