

COMPLETE HEATING SYSTEMS FROM ESPAR



JANUARY 2013

A WORLD OF COMFORT


Espar

QUICK-REFERENCE GUIDE

Espar 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 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 oilfield 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-Controller, fuel system, mounting hardware kit and all ducting.

Airtronic D2 – Truck Kit w/ Digi-Controller 20 2820 69 0260

The Digi-Controller is the latest generation of heater controls and is an Espar exclusive. It provides an easy to set digital readout, has an onboard ambient air temperature sensor, an automatic 10-hour auto shutoff and provides a display of diagnostic codes on the screen.

HYDRONIC D5

DIESEL COOLANT HEATER / ENGINE PRE-HEATER

The Hydronic D5 generates 17,500 BTU of heat for quickly pre-heating your trucks engine on those cold winter mornings. It is typically timer operated and can be programmed to begin work up to an hour before you are ready to start work, pre-heating the entire cooling system and providing an easier start along with instant cab heat and window defrosting. Manual start and stop is also available.

The most popular Hydronic D5 kits are listed below. One comes in a rugged-duty box for protection and long-life in external mountings.

The kits come with: Heater, 7-day timer, fuel system and necessary components for a typical truck installation.

Hydronic D5 – Boxed Unit w/ 7 Day Timer 25 2822 19 0541

Hydronic D5 – Unboxed w/ 7 Day Timer 25 2822 19 0521

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 D5 for engine pre-heating. 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 Mini-Controller and D5 with 7-Day timer along with the mounting components mentioned above.

The most popular numbers for combo kits with Hydronic D5 w/7-Day Timer & Airtronic D2 w/Mini-Controller are:

Airtronic D2 with Mini controller and Hydronic D5 with 7 day timer 20 2812 15 2056

Airtronic D2 with Mini controller and Boxed Hydronic D5 with 7 day timer 20 2812 15 2057

HEATER INSTALLATION TIPS -

For a time saving video showing a typical Class 8 truck installation for each of these products please visit the Espar website at www.espar.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 Espar heaters.

QUICK-REFERENCE GUIDE

INTRODUCTION PAGE

On the following pages you will find the entire offering of Espar 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 pieces 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.

- **EMISSIONS** – Espar 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 note 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** – Espar offers a variety of controllers for almost every heater model and application combination. The most popular air heater controller is the Digi-Controller with the 7-Day (truck) and Digital 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:

Espar 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, Espar heater kits that show to have a fuel pickup tube come with our “Universal Pickup.” This offers the flexibility of a typical cut-the-tank installation or the ability to remove the center NPT fitting for installation in a 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 Espar 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.

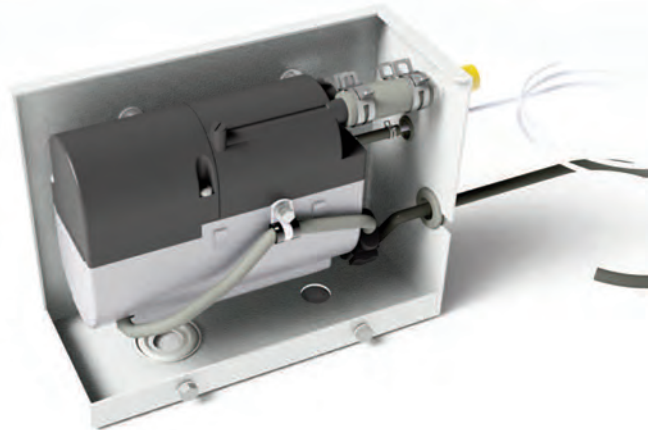
BOXED:

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. Espar's large coolant heater models use a heavy-duty box manufactured by Arctic Fox and carries a direct replacement footprint for many legacy heaters in the field.

SPECIALTY KITS:

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

- **HIGH ALTITUDE** – Espar 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.



CONTENTS

CHAPTER	TITLE	CONTENT	PAGE
I	Contents	Table of Contents	5
	HEATERS AND KIT BREAKDOWN (Scope of Delivery)		
1	AIR HEATERS	<i>AIRTRONIC D2, Truck Kits</i>	6
		<i>AIRTRONIC D2, High altitude kits</i>	6
		<i>AIRTRONIC D2, Spare parts</i>	7
		<i>AIRTRONIC D4 / B4</i>	8
		<i>AIRTRONIC D4 / B4, Spare parts</i>	9
		<i>D1LC compact / B1LC compact</i>	10
		<i>AIRTRONIC B / D5</i>	11
		<i>D8LC</i>	12
2	COOLANT HEATERS	<i>HYDRONIC B / D5 SC</i>	14
		<i>HYDRONIC B / D5 SC, Spare parts</i>	15
		<i>Pick-Up Truck Kits (After Market)</i>	16
		<i>HYDRONIC II B5E / HYDRONIC II D5E</i>	17
		<i>HYDRONIC B / D5 S</i>	18
		<i>COMBO KIT - AIRTRONIC D2 and HYDRONIC D5 Truck Kit</i>	19
		<i>COMBO KIT - AIRTRONIC D2 and HYDRONIC D5 Boxed Truck Kit</i>	19
		<i>COMBO KIT - AIRTRONIC D4 and HYDRONIC D5 Truck Kit</i>	20
		<i>HYDRONIC 10 / M, Spare parts</i>	22
		<i>HYDRONIC M-II, Spare parts</i>	23
		<i>E-Guardian</i>	24
		<i>HYDRONIC L-II / 16 / 24 / 30 / 35</i>	25
		<i>HYDRONIC L-II Boxed Heater Kits</i>	26
3	Accessories Parts Guide	<i>Timers and Controlers Table</i>	28
		<i>Control Options and Timers</i>	29-31
		<i>Testers, Adapters and Special Tools</i>	32-33
		<i>Fuel System</i>	34-37
		<i>Mounting Parts</i>	38-40
		<i>Bulk Wiring</i>	41
		<i>Fuse Holders, Fuses and Breakers</i>	42-43
		<i>Terminals and Connectors</i>	44-47
		<i>Power Converters 12V to 24V</i>	48
		<i>Exhaust</i>	50-53
		<i>Ducting</i>	54-60
		<i>Coolant Pumps</i>	61
		<i>Plumbing</i>	62-65
		<i>Fuel System Guide</i>	66
		<i>Ducting Rating Guide</i>	67-79

AIRTRONIC 2 DIESEL AIR - 7,500 BTU

SCOPE OF DELIVERY

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Ducting	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Manuals
AIRTRONIC D2 - Carb Approved												
Basic Heater 12V with fuel pump - No installation parts	25 2069 05 0000	•										•
Basic Heater 24V with fuel pump - No installation parts	25 2070 05 0000	•										•
JE Universal Installation Kit 12V and 24V	25 2069 80 0000		•	•	•				•	•	•	
Espar Universal Installation Kit 12V and 24V	20 2820 69 0280		•	•	•			•	•	•	•	
AIRTRONIC D2 - Carb Approved HEATER WITH INSTALLATION KIT												
Truck Kit 12V w/ Digi Controller w/ Universal pick up 	20 2820 69 0260	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 12V w/ Digi Controller, no fuel pick-up pipe	20 2820 69 0261	•	•	•	•	•	•		•	•	•	•
Truck Kit 12V w/ Thermostat w/ Universal pick up pipe	20 2820 69 0281	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 12V w/ Thermostat w/ 90° outlet hood w/Universal pick up pipe	20 2820 69 0284	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 12V w/ Mini-Controller w/Universal pick up pipe	20 2820 69 0285	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 12V w/ 7-Day Timer w/Universal pick up pipe	20 2820 69 0286	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 12V w/ 90° outlet hood, no fuel pick up pipe	20 2820 69 0288	•	•	•	•	•			•	•	•	•
Truck Kit 12V w/ Mini-Controller w/ pick-up pipe for vent fitting	20 2820 69 0291	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 12V w/ Thermostat, no fuel pick-up pipe	20 2820 69 0295	•	•	•	•	•	•		•	•	•	•
Truck Kit 12V w/ Mini-Controller, no fuel pick-up pipe	20 2820 69 0296	•	•	•	•	•	•		•	•	•	•
Truck Kit 24V w/ Thermostat w/ Universal pick up pipe	20 2820 70 0281	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 24V w/ Mini-Controller w/ Universal pick up pipe	20 2820 70 0285	•	•	•	•	•	•	•	•	•	•	•
AIRTRONIC D2 CAMPER DIESEL - Carb Approved												
Camper Heater 12V with fuel pump - (Limited in stock)	25 2326 05 0000	•										•

HIGH ALTITUDE COMPENSATION KITS - FOR UNRESTRICTED HEATER USE OVER 5000 FEET

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

AIRTRONIC TRAINING HEATER

Airtronic D2 - with carrying case and mini controller	20 2820 69 02 83
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Hardware Kit INCLUDES:

Fuel Clamps
Nuts
Cable Ties

Grommets
Exhaust Clamps
Mounting Screws

Ducting Clamps
Washers
Routing Clamps

End Caps
Exhaust Brackets

Fuel System INCLUDES:

Clamps
5mm Fuel Line
Plastic Fuel Line
3.5mm 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.

AIRTRONIC 2 Diesel DIESEL AIR - 7,500 BTU**Spare parts**

25 2069 05 00 00

The parts shown are for the most common 12V model heater of this type - model #-, top right corner

DESCRIPTION	PART NUMBER
Blower Unit	25 2069 99 2000
Control Unit	22 5101 00 3001
Glow Pin	25 2069 01 1300
Atomizer Screen	25 2069 10 0102
Combo-Sensor (Flame / Overheat)	25 2069 01 0200
Fuel Metering Pump	22 4519 01 0000
Flexible Exhaust Tube 24mm	360 61 557
Fuse 20A Blade Type	5670055
Fuse 5A	204 00 079
Digi-Controller	20 2800 70 1000
Thermostat	5670097
Fuel Pump Screen	20 1312 00 00 06



AIRTRONIC 4 DIESEL AIR HEATER - 13,600 BTU**SCOPE OF DELIVERY**

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Ducting	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Manuals
AIRTRONIC B4 GASOLINE												
Gasoline Basic Heater 12V with fuel pump	20 1812 05 00 00	•										•
AIRTRONIC D4 DIESEL - Carb Approved												
Basic Heater 12V with fuel pump - No installation parts	25 2113 05 00 00	•										•
Basic Heater 24V with fuel pump - No installation parts	25 2114 05 00 00	•										•
Universal Install Kits												
JE Universal Installation Kit 12V and 24V	25 2113 80 00 00		•	•	•				•	•	•	•
Espar Universal Installation Kit 12V and 24V 	20 2821 13 04 80		•	•	•			•	•	•	•	•
Espar Universal Installation Kit 12V and 24V (no fuel pick-up)	20 2821 13 04 30		•	•	•				•	•	•	•
AIRTRONIC D4 TRUCK KITS - Carb Approved												
HEATER WITH INSTALLATION KIT												
Truck Kit 12V with Digi-Controller 	20 2821 13 04 70	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 12V w/Thermostat	20 2821 13 04 81	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 12V w/Mini-Controller	20 2821 13 04 85	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 24V w/Mini-Controller	20 2821 14 04 85	•	•	•	•	•	•	•	•	•	•	•
AIRTRONIC B4 GASOLINE TRUCK KIT												
12v with mini controller	20 2818 12 0485	•	•	•	•	•	•	•	•	•	•	•
AIRTRONIC 4 CARGO KITS												
Cargo Kit 12V with Thermostat	20 2900 00 04 01		•	•	•	x	•	•	•	■	•	•

x = cargo bracket

■ = exhaust with plate

Hardware Kit INCLUDES:

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

Fuel System INCLUDES:

Clamps
5mm Fuel Line
Plastic Fuel Line
3.5mm 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.

AIRTRONIC 4 DIESEL AIR HEATER - 13,600 BTU**Spare parts****25 2113 05 00 00**

The parts shown are for the most common 12V model heater of this type - model #-, top right corner

DESCRIPTION	PART NUMBER
Blower Unit	25 2113 99 2000
Control Unit	22 5101 00 3005
Glow Pin	25 2069 01 1300
Atomizer Screen	25 2069 10 0102
Combo-Sensor (Flame / Overheat)	25 2069 01 0200
Fuel Metering Pump	22 4519 01 0000
Flexible Exhaust Tube, 24mm	360 61 550
Fuse 20A Blade Type	5670055
Fuse 5A	204 00 079
Digi-Controller	20 2800 70 1000
Thermostat	5670097
Fuel Pump Screen	20 1312 00 00 06



B1LC *compact* Gasoline Air Heater 7,500 BTU

SCOPE OF DELIVERY

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Ducting	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Manuals
B1LC COMPACT												
Basic Heater 12 volt with fuel pump	20 1766 05 00 00	•										•
Universal Installation Kit 12 volt	20 2819 76 01 80		•	•	•				•	•	•	•
B1LC Compact with Thermostat	20 2817 66 01 00	•	•	•	•	•	•	•	•	•	•	•



Hardware Kit INCLUDES:

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

Fuel System INCLUDES:

Clamps
5mm Fuel Line
Plastic Fuel Line
3.5mm 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.

AIRTRONIC B5 GASOLINE AIR HEATER - 18,800 BTU

AIRTRONIC D5 DIESEL AIR HEATER - 18,800 BTU

SCOPE OF DELIVERY

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Ducting	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Manuals
AIRTRONIC B5 - GASOLINE												
Basic Heater 12V with fuel pump with outlet hood	20 1859 05 00 00	•										•
AIRTRONIC D5 - Carb Approved - DIESEL												
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	•										•
AIRTRONIC D5 - Carb Approved - DIESEL												
JE Universal Installation Kit 12V and 24V	25 2361 80 00 00		•	•	•				•	•	•	
Espar Universal Installation Kit 12V and 24V RECOMMENDED	20 2823 61 05 80		•	•	•			•	•	•	•	
AIRTRONIC D5 TRUCK KITS - Carb Approved - DIESEL												
Truck Kit 12V (no control)	20 2823 61 05 10	•	•	•		•		•	•	•	•	•
Truck Kit 12V w/Thermostat	20 2823 61 05 11	•	•	•			•	•	•	•	•	•
CARGO KITS												
Cargo Kit 12V w/Thermostat Does Not Include Heater	20 2900 00 05 50		•	•		□	•	•	•	■	•	•

□ = cargo bracket

■ = exhaust with plate



Hardware Kit INCLUDES:

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

Fuel System INCLUDES:

Clamps
5mm Fuel Line
Plastic Fuel Line
3.5mm 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.

D8LC DIESEL AIR HEATER - 27,300 BTU

NOTE: No installation kits available for this heater.

DESCRIPTION		PART NUMBER
D8LC COMPACT		
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
	External Harness 35 feet	20 2900 70 08 03
Fuel		
	Fuel line 5.0mm black rubber, suction side	360 75 350
	Fuel line 2.0mm white plastic, pressure side	890 31 117
	Fuel line connector piece 3.5mm for 2mm fuel line	360 75 300
	Fuel pick-up pipe 4mm	20 2900 20 20 58
	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
	External Temperature Sensor, extension harness	25 1482 89 40 00

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

NOTES:

HYDRONIC B5 SC GASOLINE COOLANT HEATER - 17,100 BTU

HYDRONIC D5 SC DIESEL COOLANT HEATER - 17,100 BTU

SCOPE OF DELIVERY

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

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System *	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit ^o	Exhaust Pipe	Intake Pipe	Boxed	Manuals
HYDRONIC D5 SC - DIESEL													
Basic Heater 12 volt	25 2219 05 00 00	•											•
Universal Installation Kit 12 volt	25 2800 90 05 10		•	•	•	•			•	•	•		
Universal Installation Kit 12 volt w/Relay	25 2800 90 05 12		•	•	•	•			•	•	•		
Basic Heater 12 volt with External Fuel Pump	25 2325 05 00 00	•											•
Universal Installation Kit 12 volt	25 2800 90 05 11		•	•	•	•			•	•	•		
Basic Heater 24 volt	25 2147 05 00 00	•											•
Universal Installation Kit 24 volt	25 2009 80 00 00		•	•	•	•			•	•	•		
HYDRONIC D5SC (INTERNAL FMP) TRUCK KITS - DIESEL													
12 volt Kit	25 2822 19 05 20	•	•	•		•		•	•	•	•		•
12 volt Kit with 7 day timer 	25 2822 19 05 21	•	•	•		•	•	•	•	•	•		•
12 volt Boxed Kit	25 2822 19 05 40	•	•	•		•		•	•	•	•	•	•
12 volt Boxed Kit with 7 day timer 	25 2822 19 05 41	•	•	•		•	•	•	•	•	•	•	•
12 volt Boxed Kit with 7 day timer & vent tube pick-up pipe	25 2822 19 05 51	•	•	•		•	•	•	•	•	•	•	•
12 volt Boxed Kit with no pick-up pipe	25 2822 19 05 56	•	•	•		•			•	•	•	•	•
HYDRONIC D5SC (EXTERNAL FMP) TRUCK KITS - DIESEL													
12 volt Kit	25 2823 25 05 20	•	•	•		•		•	•	•	•		•
12 volt Kit with 7 day timer 	25 2823 25 05 21	•	•	•		•	•	•	•	•	•		•
12 volt High altitude with mini timer	25 2823 25 05 23	•	•	•		•	•	•	•	•	•		•
12 volt Boxed Kit	25 2823 25 05 40	•	•	•		•		•	•	•	•	•	•
12 volt Boxed Kit with 7 day timer 	25 2823 25 05 41	•	•	•		•	•	•	•	•	•	•	•
HYDRONIC D5 SC OFF-HIGHWAY KITS - DIESEL													
24 volt with External Fuel Pump	25 2821 47 05 20	•	•	•		•		•	•	•	•		•
24 volt with External Fuel Pump and timer	25 2821 47 05 21	•	•	•		•	•	•	•	•	•		•
Boxed 24 volt with External Fuel Pump	25 2821 47 05 55	•	•	•		•		•	•	•	•	•	•
Boxed 24 volt with External Fuel Pump and timer	25 2821 47 05 57	•	•	•		•	•	•	•	•	•	•	•
HYDRONIC D5 SC AUTOMOTIVE PICK-UP KITS - DIESEL													
12 volt with 7 day timer	25 2822 19 05 22	•	*	•	•	•	•	•	•	•	•		•
HYDRONIC B5 SC - GASOLINE													
Basic Heater 12 volt with external fuel pump	20 1820 05 00 00	•											•
Universal Installation Kit 12 volt	25 2800 90 05 11		•	•	•	•			•	•	•		
HYDRONIC B5SC TRUCK KIT - GASOLINE													
12 volt with External Fuel Pump	20 2818 20 05 20	•	•	•		•		•	•	•	•		•
HYDRONIC B5 SC AUTOMOTIVE PICK-UP KIT - GASOLINE													
12 volt with External Fuel Pump	20 2818 20 05 22	•	*	•	•	•	•	•	•	•	•		•
HYDRONIC 4/5 SC COOLANT PUMP SERVICE KIT													
	25 2800 60 00 05												

• = includes blower relay connection

* = harness has blower relay

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

HYDRONIC 5 SC

DIESEL COOLANT HEATER - 17,100 BTU

Spare parts

25 2219 05 00 00

HYDRONIC 5 SC

DIESEL COOLANT HEATER - 17,100 BTU W/EXTERNAL FUEL PUMP

25 2325 05 00 00

The parts shown are for the most common 12V model heater of this type - model #-, top right corner

DESCRIPTION	PART NUMBER
Combustion Air Blower	20 1759 99 1500
Electronic Control Unit (HYDRONIC 4)	22 5201 03 0001
Electronic Control Unit (HYDRONIC 5)	22 5201 01 9002
Coolant Pump	25 2219 25 0000
Glow Pin with Cable	25 2106 01 1000
Fuel Metering Pump internal	22 4504 03 0000
Fuel Metering Pump external	22 4517 04 0000
Flame Sensor	25 1920 35 0000
Overheat Sensor with Cable	25 2219 01 2000
Fuse 25A Blade Type	204 00 089
Flexible Exhaust Tube, 24mm	360 61 550
Timer, 7-Day	22 1000 30 3600
Programmable Timer, 12 Volt	5670433
Fuel Pump Screen	20 1312 00 00 06



Spare parts shown are common for Hydronic 4 + 5 heaters.
Hydronic 5 Heaters used in ParkSmart + Max Power Systems may have a different control unit.
Please refer to serial # on heater.

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PICK-UP TRUCK KITS

HYDRONIC D5 SC DIESEL COOLANT HEATER - 17,100 BTU

SCOPE OF DELIVERY

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

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
PICK-UP TRUCK KITS (AFTER MARKET)													
DODGE KITS													
2003 - 2007 5.9 L with mini timer	25 2822 19 05 32	•	*	•		•	•	•	•	•	•		•
2007 - 2008 6.7 L with mini timer	25 2800 10 05 35	•	*	•		•	•	•	•	•	•		•
GM DURAMAX KITS													
Frame dimensions not larger than 225mm high, 77mm wide													
Mini Timer and external FMP Right side mount	25 2823 25 05 75	•	•	•		•	•	•	•	•	•		•
FORD POWERSTROKE KITS													
Frame rail dimensions not larger than 204mm high, 77mm wide													
Mini timer and external FMP	25 2823 25 05 85	•	•	•		•		•	•	•	•	•	•
UNIVERSAL PICK UP TRUCK INSTALLATION KIT													
D5E Diesel Pick Up Truck kit	25 2825 26 05 22	•	•	•		•	•	•	•	•	•		•
B5E Gasoline Pick Up Truck kit	25 2819 04 05 00	•	•	•	•	•		•	•	•	•		•
SPRINTER CONVERSION KIT WITH MINI-TIMER													
Converts auxiliary heater into preheater (2006 and earlier models)	24 0212 00 00 00												
ACCESSORIES													
Blower Control Module 12/24V	25 2800 70 40 40												

* = harness has blower relay



Hardware Kit INCLUDES:

Fuel Clamps
Nuts
Cable Ties

Grommets
Exhaust Clamps
Mounting Screws

Ducting Clamps
Washers
Routing Clamps

End Caps
Exhaust Brackets

Fuel System INCLUDES:

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

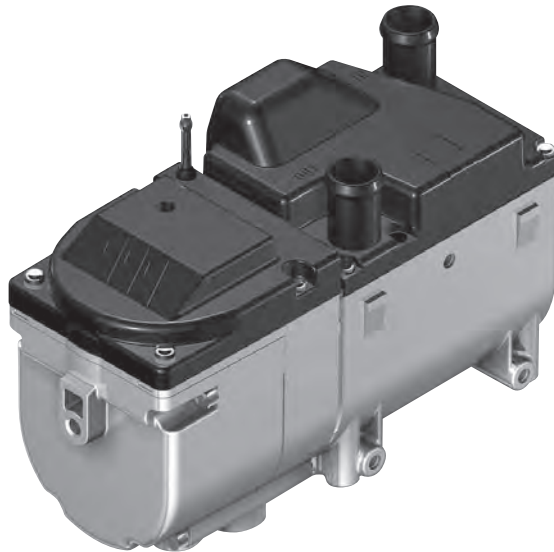
For spare parts refer to Hydronic D5 listing on page 13
Refer to the Accessories Section for ducting components and additional accessories.

HYDRONIC II B5 E GASOLINE COOLANT HEATER - 17,100 BTU
HYDRONIC II D5 E DIESEL COOLANT HEATER - 17,100 BTU

SCOPE OF DELIVERY

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
HYDRONIC II D5 E - DIESEL													
Basic Heater 12 volt	25 2526 05 00 00	•											•
JE Universal installation kit 12 volt	25 2526 80 00 00		→	•	•	•		•	•	•	•		
HYDRONIC II D5E TRUCK KIT - DIESEL													
12 volt with External Water and Fuel Pump	25 2825 26 05 20	•	•	•		•		•	•	•	•		•
12 volt Automotive installation kit	25 2825 26 05 22	•	•	•	•	•		•	•	•	•		•
Boxed 12 volt with External Water and Fuel Pump	25 2825 26 05 40	•	•	•		•		•	•	•	•	•	•
HYDRONIC II B5E - GASOLINE													
12 volt with External Water and Fuel Pump	20 1904 05 00 00	•	•	•	•	•		•	•	•	•		•
12 volt Automotive Installation Kit	25 2819 04 05 00	•	•	•	•	•		•	•	•	•		•
JE Universal installation kit 12 volt	25 2526 80 00 00		•	•	•	•		•	•	•	•		

→ = Includes blower relay connection



HYDRONIC B5 S GASOLINE COOLANT HEATER - 17,100 BTU

HYDRONIC D5 S DIESEL COOLANT HEATER - 17,100 BTU

SCOPE OF DELIVERY

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

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
HYDRONIC D5 S - DIESEL													
Basic Heater 12 volt	25 2217 05 00 00	•											•
Basic Heater 12 volt w/Universal install kit	25 2386 05 00 00	•	→	•	•	•			•	•	•		•
Basic Heater 24 volt	25 2218 05 00 00	•											•
Universal Installation Kit 24 volt (Limited Stock)	25 2218 80 00 00			•	•	•			•	•	•		
Basic Heater 24 volt	25 2146 05 00 00	•											•
Universal Installation Kit 24 volt	25 2009 80 00 00		→	•	•	•			•	•	•		
HYDRONIC D5S TRUCK KIT - DIESEL													
12 volt with External Water and Fuel Pump	25 2822 17 05 20	•	•	•		•		•	•	•	•		•
12 volt with External Water and Fuel Pump with timer	25 2822 17 05 21	•	•	•		•	•	•	•	•	•		•
Boxed 12 volt with water pump and fuel pump mounted inside box	25 2822 17 05 45	•	•	•		•		•	•	•	•	•	•
Boxed 12 volt with water pump mounted outside box	25 2822 17 05 40	•	•	•		•		•	•	•	•	•	•
HYDRONIC D5S OFF-HIGHWAY KIT - DIESEL													
24 volt with External Water and Fuel Pump	25 2822 18 05 20	•	•	•		•		•	•	•	•		•
HYDRONIC B5 S - GASOLINE													
Basic Heater 12 volt with external water and fuel pump	20 1819 05 00 00	•											•
HYDRONIC B5 S - GASOLINE													
12 volt with external water and fuel pump with universal installation kit	20 1862 05 00 00	•	→	•	•	•		•	•	•	•		•

→ = includes blower relay connection

AIRTRONIC 2 / HYDRONIC 5 Combo Kits DIESEL 12 volt only

SCOPE OF DELIVERY

DESCRIPTION			PART NUMBER	Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
AIRTRONIC 2 / HYDRONIC 5 SC - DIESEL															
Truck Kit	INCLUDES:	7-Day Timer Thermostat 12 volt	20 2812 15 20 50	•	•	•		•	•	d	•	•	•		•
Truck Kit	INCLUDES:	7-Day Timer Mini Controller	20 2812 15 20 56	•	•	•		•	•	d	•	•	•		•
Truck Kit with External Fuel Pump	INCLUDES:	7-Day Timer Mini Controller	20 2812 15 20 58	•	•	•		•	•	d	•	•	•		•
Boxed Truck Kit	INCLUDES:	7-Day Timer Mini Controller	20 2812 15 20 57	•	•	•		•	•	d	•	•	•	•	•
AIRTRONIC 2 / HYDRONIC 5 S - DIESEL															
Truck Kit	INCLUDES:	7-Day Timer Mini Controller	20 2812 15 20 63	•	•	•		•	•	d	•	•	•		•
Boxed Truck Kit	INCLUDES:	7-Day Timer Digi-Controller	20 2812 15 20 60	•	•	•		•	•	d	•	•	•	•	•
AIRTRONIC 2 / HYDRONIC 5 E - DIESEL															
Truck Kit		No Timer Digi-Controller	20 2812 15 20 61	•	•	•		•	•	d	•	•	•		•
Boxed Truck Kit		No Timer Digi-Controller	20 2812 15 20 62	•	•	•		•	•	d	•	•	•	•	•

d = double fuel Pick-up pipe

AIRTRONIC 4 / HYDRONIC 5
Combo Kits DIESEL 12 Volt only

SCOPE OF DELIVERY

DESCRIPTION		PART NUMBER	Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
AIRTRONIC 4 / HYDRONIC 5 - Carb Approved														
Truck Kit	INCLUDES: 7-Day Timer Mini Controller	20 2812 15 40 50	•	•	•		•	•	d	•	•	•		•
Boxed Truck Kit	INCLUDES: 7-Day Timer Mini Controller	20 2812 15 40 51	•	•	•		•	•	d	•	•	•	•	•

NOTES:

HYDRONIC 10 / M DIESEL COOLANT HEATER - 32,400 BTU

SCOPE OF DELIVERY

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
HYDRONIC 10 / M													
Basic Heater 12 volt with Fuel Pump	25 2160 05 00 00	•											•
Universal Installation Kit 12 volt	25 2821 60 10 80		•	•		•			•	•	•		
Basic Heater 24 volt with Blinkcode	25 2227 05 00 00	•											•
Universal Installation Kit 12 and 24 volt	25 2822 27 10 80		•	•		•			•	•	•		
HYDRONIC 10 / M - BOXED KITS													
Boxed 12 volt with Internal Fuel Pump (max. 6ft. of fuel line)	25 2821 60 10 55	•	•	•		•		•	•	•	•	•	•
Boxed 12 volt with External Fuel Pump	25 2821 60 10 56	•	•	•		•		•	•	•	•	•	•
Boxed 24 volt	25 2822 27 10 55	•	•	•		•		•	•	•	•	•	•
Boxed 24 volt with External Fuel Pump	25 2822 27 10 56	•	•	•		•		•	•	•	•	•	•

HYDRONIC M DIESEL COOLANT HEATER - 32,400 BTU - 24V

Spare parts

25 2227 05 00 00

DESCRIPTION	PART NUMBER
Combustion Air Blower	25 2161 99 1500
Flame Sensor	25 1816 01 0300
Overheat Sensor	25 1997 99 4100
Temperature Sensor	25 1816 99 0114
Sensor O-Ring	320 75 111
Control Unit	22 5302 00 1004
Fuse 20A Blade Type	5670055
Coolant Pump	25 1816 25 01 00
Coolant Pump O-Ring	320 75 110
Fuel Metering Pump	25 1963 45 00 00
Flexible Exhaust Tube, 30mm	360 61 580
Fuel Hose, 3.5mm	360 75 300
Fuel Hose, 5.0mm	360 75 350
Fuel Line, 2.0mm Clear Plastic	890 31 117
Fuel Line, 3.5mm Black Plastic	890 31 101
Clamp 9mm	10 2063 00 90 98
Clamp 11mm	10 2063 01 10 98
Cable Tie, 197mm	5590003
Timer, 7-Day	22 1000 30 36 00
Digital Programmable Timer, 12 Volt	5670433
Fuel Pump Screen	20 1312 00 00 06

Hardware Kit INCLUDES:

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

Fuel System INCLUDES:

Clamps
5mm Fuel Line
Plastic Fuel Line
3.5mm 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 M-II SERIES: 27,300, 32,450, 42,000 BTU - CARB APPROVED

SCOPE OF DELIVERY

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
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 M8 biodiesel 12 volt Boxed Kit	25 2824 70 08 10	•	•	•		•		•	•	•	•	•	•
HYDRONIC M8 biodiesel 24 volt Boxed Kit	25 2824 71 08 10	•	•	•		•		•	•	•	•	•	•
HYDRONIC M10 12 volt Boxed Kit	25 2824 34 10 10	•	•	•		•		•	•	•	•	•	•
HYDRONIC M10 24 volt Boxed Kit	25 2824 35 10 10	•	•	•		•		•	•	•	•	•	•
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	•	•	•		•		•	•	•	•	•	•
UNIVERSAL INSTALLATION KITS													
JE Universal Installation Kit 12V / 24V	25 2435 80 00 00		*	•		•		•	•	•			
Espar Universal Install 12V with diagnostic connection	25 2800 90 10 12		•	•		•			•	•			
Espar Universal Install 24V with diagnostic connection	25 2800 90 10 24		•	•		•			•	•			

* = Harness has blower motor relay

HYDRONIC M8 12V	DIESEL COOLANT HEATER - 27,300 BTU	25 2470 05 00 00
HYDRONIC M8 24V	DIESEL COOLANT HEATER - 27,300 BTU	25 2470 05 00 00
HYDRONIC M10 12V	DIESEL COOLANT HEATER - 32,450 BTU	25 2470 05 00 00
HYDRONIC M10 24V	DIESEL COOLANT HEATER - 32,450 BTU	25 2470 05 00 00
HYDRONIC M12 12V	DIESEL COOLANT HEATER - 42,000 BTU	25 2470 05 00 00
HYDRONIC M12 24V	DIESEL COOLANT HEATER - 42,000 BTU	25 2470 05 00 00

Spare parts

DESCRIPTION	PART NUMBER
Burner	25 2435 99 1100
Casing for Heat Exchanger	25 2435 99 0102
Water Pump 12 Volt	25 2434 99 2501
Water Pump 24 Volt	25 2435 99 2501
Flame Sensor	25 1920 35 0000
Glow Plug 12 Volt	25 2434 01 0100
Glow Plug 24 Volt	25 2435 01 0100
Cable Harness	25 2435 25 0200
Temperature Sensor	25 2435 40 0100
Plastic Cover	25 2435 99 0103
Seal for Combustion Chamber	25 2435 01 0010
O-Ring (19.8 x 2.3)	22 1000 70 0017
O-Ring (117.07 x 3.53)	22 1000 70 0015
Sensor Spring	25 2281 01 0009
Atomizing Screen	25 2069 10 0102
Hose Clip	152 61 004
Timer, 7-Day	22 1000 30 3600
Programmable Timer 12 Volt	5670433
Fuel Pump Screen	20 1312 00 00 06
Fuel Meter Pump 12 volt	22 4617 01 00 00
Fuel Meter Pump 24 volt	22 4618 01 00 00



E-Guardian DIESEL / WATER

SCOPE OF DELIVERY

DESCRIPTION	BTU	PART NUMBER	Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
E-Guardian HYDRONIC D5 KITS - Carb Approved														
Basic D5 E-Guardian 12V Kit	17,100 BTU	25 2823 25 0506	•	•	•		•		•	•	•			•
Boxed D5 E-Guardian 12V Kit	17,100 BTU	25 2823 25 0500	•	•	•		•	•	•	•	•	•	•	•
Boxed D5 E-Guardian 12V High Altitude Kit	17,100 BTU	25 2823 25 0501	•	•	•		•	•	•	•	•	•	•	•
Boxed D5 E-Guardian 12V New York Kit	17,100 BTU	25 2823 25 0505	•	•	•		•	•	•	•	•	•	•	•
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 10 KW Heater 12 V Kit	32,450 BTU	25 2824 34 10 00	•	•	•		•	•	•	•	•	•	•	•
Boxed M-II 12 KW Heater 12 V Kit	42,000 BTU	25 2824 72 12 00	•	•	•		•	•	•	•	•	•	•	•
Basic M-II 12 KW Heater 12 V Kit	42,000 BTU	25 2824 72 12 01	•	•	•		•		•	•	•	•		•
Boxed M-II 12 KW Heater 12 V New York Kit	42,000 BTU	25 2824 72 12 05	•	•	•		•	•	•	•	•	•	•	•
Spare Parts:														
E-Guardian Coolant Pump		25 2596 25 01 00												
E-Guardian 12 Replacement Heater		25 2596 05 00 00												



Hardware Kit INCLUDES:

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

Fuel System INCLUDES:

Clamps
5mm Fuel Line
1.5mm Fuel Line
3.5mm Fuel Line

For spare parts refer to the Hydronic D5 listing on page 13, and the Hydronic M-II refer to page 21
Refer to the Accessories Section for ducting components and additional accessories.

HYDRONIC L-II SERIES: 55,000, 82,000, 102,000, 120,000 BTU

SCOPE OF DELIVERY

DESCRIPTION	PART NUMBER
HYDRONIC L 16	
Basic Heater 24V	25 2486 02 0000
HYDRONIC L 24	
Basic Heater 24 volt	25 2487 02 00 00
HYDRONIC L 24 Compact	
Water pump Flowtronic 5000 and fuel filter pre-assembled	25 2487 05 00 00
HYDRONIC L 30	
Basic Heater 24 volt	25 2488 02 00 00
HYDRONIC L 30 Compact	
Water pump Flowtronic 5000 and fuel filter pre-assembled	25 2599 05 00 00
HYDRONIC L 35	
Basic Heater 24 volt	25 2600 02 00 00
HYDRONIC L 35 Compact	
Water pump Flowtronic 5000 and fuel filter pre-assembled	25 2489 05 00 00

ACCESSORIES

HARNESS	Universal Harness	20 2900 70 05 10
	Compact Heater Harness	20 2900 70 05 11
FUEL	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
EXHAUST	Flexible Stainless Steel Exhaust Tube 70mm	5530015
	Muffler Clamp 3"	5530004
	Exhaust Elbow (70mm exhaust) D30 / D35	22 1000 40 03 00
PUMPS	Coolant Pump 24volt (5,000 L/hr)	25 1818 29 00 00
	Flowtronic Coolant Pump 24 volt (6,000 L/hr)	25 1818 27 00 00
CONTROLS	Push / Pull Switch 24 volt (supplied with harness)	5670008
	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
12V TO 24V POWER CONVERTER KITS		
	Hydronic 16 with/without coolant pump	25 2800 90 12 23
	Hydronic 24, 30, 35 without pump	25 2800 90 12 23
	Hydronic 16, 24, 30, 35 with/without coolant pump	25 2800 90 12 24



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

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HYDRONIC M-II OFF HIGHWAY KITS

HYDRONIC L-II OFF HIGHWAY KITS

SCOPE OF DELIVERY

DESCRIPTION	PART NUMBER	Heater	Harness	Fuel System	Coolant Hose	Mounting Bracket	Control Options / Timers	Fuel Pickup Pipe	Hardware Kit	Exhaust Pipe	Intake Pipe	Boxed	Manuals
M-II OFF HIGHWAY													
HYDRONIC 12 M-II Boxed Off-Highway Assembly 12V	25 2824 72 12 20	•	•	•		•	•	•	•	•	•	•	•
L-II OFF HIGHWAY													
HYDRONIC 16 L-II Boxed Off-Highway Assembly 12V	25 2800 10 1612	•	•			*			•	•		•	•
HYDRONIC 16 L-II Boxed Off-Highway Assembly 24V	25 2800 10 1600	•	•			*			•	•		•	•
HYDRONIC 24 L-II Boxed Off-Highway Assembly 12V	25 2800 10 2412	•	•			*			•	•		•	•
HYDRONIC 24 L-II Boxed Off-Highway Assembly 24V	25 2800 10 2400	•	•			*			•	•		•	•
HYDRONIC 30 L-II Boxed Off-Highway Assembly 12V	25 2800 10 3012	•	•			*			•	•		•	•
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	25 2800 10 3000	•	•			*			•	•		•	•
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 12V	25 2800 10 3512	•	•			*			•	•		•	•
HYDRONIC 35 L-II Boxed Off-Highway Assembly 12V w/6000 L pump	25 2800 10 5612	•	•			*			•	•		•	•
HYDRONIC 35 L-II Boxed Off-Highway Assembly 24V	25 2800 10 3500	•	•			*			•	•		•	•
HYDRONIC 35 L-II Boxed Off-Highway Assembly 24V w/6000 L pump	25 2800 10 5624	•	•			*			•	•		•	•

* = Mounting holes on base. No mounting hardware included

- 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	PARTS GUIDE		
		Timers and Controlers Table	28
		Control Options and Timers	29-31
		Testers, Adapters and Special Tools	32-33
		Fuel System	34-37
		Mounting	38-40
		Bulk Wiring	41
		Fuse Holders, Fuses and Breakers	42-43
		Terminals and Connectors	44-47
		Power Converter	48
		Exhaust	50-53
		Ducting	54-60
		Coolant Pumps	61
		Plumbing	62-65
		Fuel System Guide	66
		Ducting Rating Guide	67
		AIRTRONIC 2	68-69
		AIRTRONIC 4	70-71
		B1LC compact	72-73
		B3LC compact	74-75
		B/D5LC	76-77
		D8LC	78-79

1

2

3

TIMERS AND CONTROLLERS

FOR AIR HEATERS

AVAILABLE FUNCTIONS	DIGI-CONTROLLER	MINI-CONTROLLER
Programmable Timer		
Multiple Starts - Day / Week		
Ambient Air Temp Sensor	•	
Diagnostic Code Retrieval	•	
Standard Fan Mode	•	•
10-Hour Automatic Shutoff	•	
Manual Start Mode	•	•
Program Memory		
Programmable LVD		
Accepts External Inputs		•

FOR COOLANT HEATERS

DIGITAL PROGRAMABLE TIMER	7 DAY TIMER	MULTI-FUNCTION SWITCH
•	•	•
•		
	Cabin temp sensor	AVAILABLE
	•	
	2 hour max. programmed run time	
•	•	•
•	•	
		•
	•	AVAILABLE

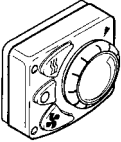
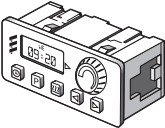
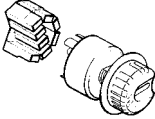
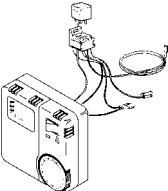
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AIR HEATERS

CONTROL OPTIONS AND TIMERS

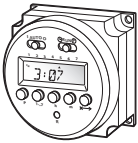
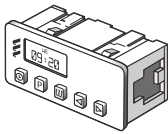
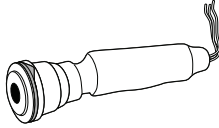
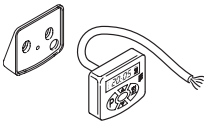
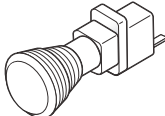
DESCRIPTION	PART NUMBER	AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
AIR HEATERS											
Digi Controller	20 2800 70 1000	•	•			•					
											
Mini Controller 12 and 24 volt	22 1000 32 07 00	•	•			•					
Mini Controller Knob	5699849	•	•			•					
											
Thermostat 12 volt	5670097	•	•	•	•	•					
Thermostat 24 volt	5670096	•	•	•	•	•					
Thermostat Harness (4.6M or 15 feet)	20 2900 70 01 09			•							
Thermostat Knob	2199981										
											
7-Day Timer with Diagnostics 12 and 24 volt	22 1000 30 40 00	•	•	•	•	•	•				
7-Day Timer Kit	20 2900 70 02 35	•	•	•	•	•	•				
											
Rheostat Switch 12 volt	25 1895 71 00 00	•	•	•	•	•	•				
Rheostat Switch 24 volt	25 1896 71 00 00	•	•	•	•						
Thermostat Switch Harness (4.6M or 15 feet)	20 2900 70 01 11	•	•	•	•						
											
Thermostat Bunk Relay Kit 12 volt	20 2900 70 00 97								•		
Thermostat only (On/Off)	29 2100 30 01 84	•	•	•	•	•	•	•	•	•	•
											

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HYDRONIC HEATERS CONTROL OPTIONS AND TIMERS

DESCRIPTION			PART NUMBER	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
COOLANT HEATERS													
Programmable Timer	12 V		5670433							•	•	•	•
	24 V		5670434							•	•	•	•
													
7-Day Timer with Diagnostics 12 and 24 volt			22 1000 30 36 00							•	•	•	•
7-Day Timer Kit			20 2900 70 02 30							•	•	•	•
													
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 Outputs-Detached			25 2800 70 30 30	•	•	•	•	•	•	•	•	•	•
Push button with 24" leads to be used with detached timer			25 2800 70 30 35	•	•	•	•	•	•	•	•	•	•
													
Mini Timer (Green Display) 12 and 24 volt			22 1000 31 60 00							•	•	•	•
Mini Timer (Blue Display) 12 and 24 volt			22 1000 32 18 00							•	•	•	•
													
Push / Pull Switch 12 volt			5670007	•	•	•	•	•	•	•	•	•	•
Push / Pull Switch 24 volt			5670008	•	•	•	•	•	•	•	•	•	•
Replacement Bulb 12 volt			207 00 005										
Replacement Bulb 24 volt			207 00 006										
													
Remote Starter Kit 12 volt (used with 7-Day Timer)			20 2900 70 01 50	•	•	•	•	•	•	•	•	•	•
													

HYDRONIC HEATERS CONTROL OPTIONS AND TIMERS

DESCRIPTION

PART NUMBER

EasyStart T Controller

22 1000 32 88 00

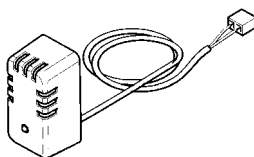


Remote Temperature Sensor

25 1774 89 03 00

Extension Harness for D1LC (1830) and D3LC

25 1482 89 40 00



CommandCall Remote Control (works over cell phone network. Needs SIM card.)

25 2800 70 00 10



7-DAY TIMER ACCESSORIES Complete Bracket Kit with Cosmetic Bezel and Bracket

25 1482 70 01 00

Housing for 7-Day Timer

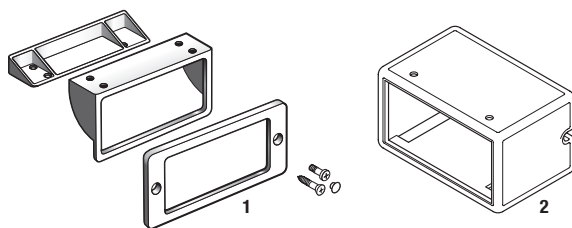
25 1482 89 00 15

Replacement Bulbs 12 volt (5/bag)

22 1000 30 94 00

Replacement Bulbs 24 volt (5/bag)

22 1000 30 89 00



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

* = Not tested
 ○ = E-Guardian
 † = Condenser is mounted on the back wall of truck

TESTERS / ADAPTERS / SPECIAL TOOLS

DESCRIPTION

PART NUMBER

Terminal Removal Tool 1.6mm

206 00 205

Terminal Removal Tool 2.8mm

206 00 215



1



2

Wire Crimper

5670003



Fuel Line Cutter

5520003



Brass Glow Plug Brush

5590002



AIRTRONIC D2 Demo Kit 12 volt

20 2820 69 02 83



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

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FUEL SYSTEM

Refer to Fuel System Guide on page 66, to help plan your fuel system.

DESCRIPTION

PART NUMBER

Single Pick-up Pipe 2.0mm Universal (Drill or 1/2" NPT fitting)

20 2900 20 20 10

Single Pick-up Pipe 2.0mm (66 cm or 26") **RECOMMENDED**

20 2900 20 20 42

Double Pick-up Pipe 2.0mm (56 cm or 22")

20 2900 20 20 57

Double Pick-up Pipe 2.0mm (1/2" NPT)

20 2900 20 21 07

Single Pick-up Pipe 4.0mm (56 cm or 22")

20 2900 20 20 58

20 mm Ring

20 2900 20 20 11

Single Pick-up Pipe 4.0mm (61 cm or 24") + Ring Fitting

20 2900 20 20 12

Single Pick-up Pipe 4.0mm (41 cm or 16")

5520001

Single Pick-up Pipe 4.0mm (66 cm or 26") **RECOMMENDED**

20 2900 20 20 53

Single Pick-up Pipe 4.0mm with Return

20 2900 20 20 59

Fuel Pick-up pipe 2mm W/FTNG 24.5 inches - Vent fitting 1/2" NPT

20 2900 20 20 04

Fuel Pick-up pipe 4mm with 1/2" NPT

20 2900 20 20 50

Compression Fitting 1/4" NPT

20 2900 20 20 44

Compression Fitting 3/8" NPT

5520002

Compression Fitting 1/2" NPT

5520006

Rubber Seal Ring for Fuel Pick-up Pipe

20 2900 20 20 26

Compression FTNG 3/4" NPT

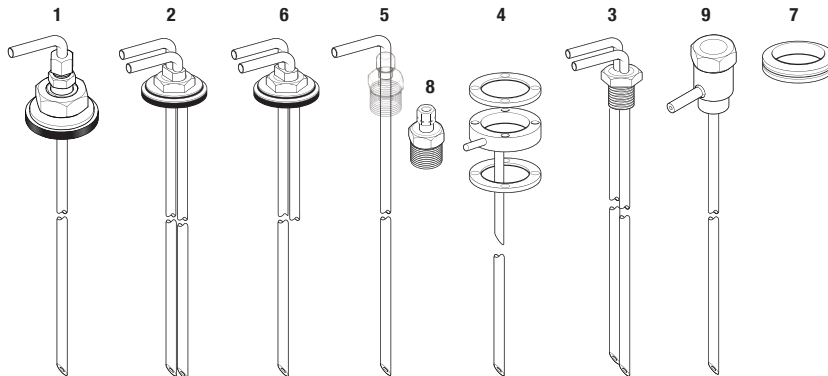
20 2900 20 20 82

Compression FTNG 9/16" w/O-ring

5520007

Automotive Fuel Pick-up Assembly

22 1000 20 11 00



Black Plastic Fuel Line 2.0mm ID

890 31 125

White Plastic Fuel Line 1.5mm ID

890 31 118

White Plastic Fuel Line 2.0mm ID

890 31 055

Black Rubber Fuel Line 3.5mm ID

360 75 300

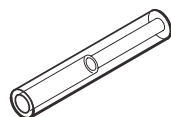
Black Rubber Fuel Line 5.0mm ID

360 75 350

**NO
GRAPHIC**

Fuel Line Adapter 3.5mm to 5mm

25 1888 80 01 02



AIRTRONIC D2

AIRTRONIC D4

B1LC compact

B3LC compact

AIRTRONIC D5

D8LC

HYDRONIC 4/5

HYDRONIC 10 / M / M-II

HYDRONIC 16/24/30/35

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per mtr

per mtr

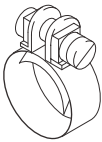
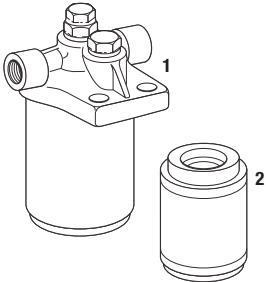
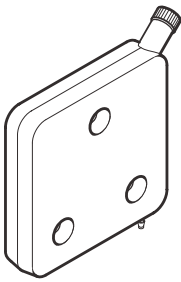
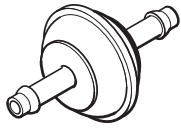
per mtr

per mtr

per mtr

FUEL SYSTEM

Refer to Fuel System Guide on page 66, to help plan your fuel system.

DESCRIPTION	PART NUMBER	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
Clamp 7mm (used with 360 75 300)	10 2063 00 70 78	•	•	•	•	•	•	•	•	•	•
Clamp 9mm (used with 360 75 300)	10 2068 00 90 98	•	•	•	•	•	•	•	•	•	•
Clamp 10mm (used with 360 75 350)	10 2068 01 00 98	•	•	•	•	•	•	•	•	•	•
Clamp 11mm (used with 360 75 350)	10 2068 01 10 98	•	•	•	•	•	•	•	•	•	•
Clamp 12mm (used with 360 31 070)	10 2068 01 20 98	•	•	•	•	•	•	•	•	•	•
Clamp 14mm	10 2068 01 40 98	•	•	•	•	•	•	•	•	•	•
											
Fuel Filter	330 00 052									•	1
Fuel Screen	237 00 054									•	2
											
Plastic Fuel Tank (10L or 2.6 gal - Blue)	22 1000 20 28 00	•	•	•	•	•	•	•	•		•
Plastic Cap	22 1000 20 22 00	•	•	•	•	•	•	•	•		•
											
Plastic Fuel Filter	25 1226 89 00 37	•	•	•	•	•	•	•	•		•
Measuring cylinders 10 ml	552 0004										
Measuring cylinders 25 ml	552 0005										
											

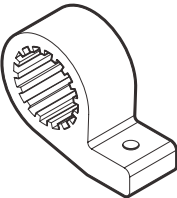
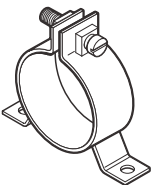
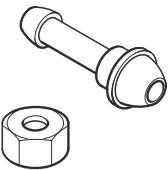
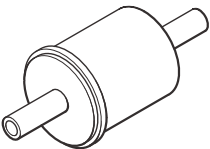
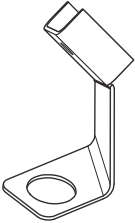
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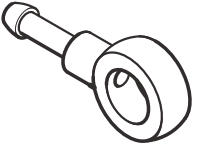
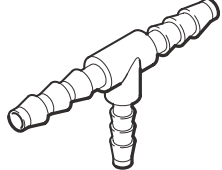
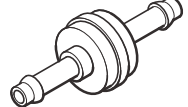
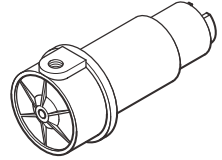
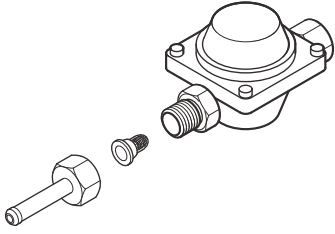
FUEL SYSTEM

Refer to Fuel System Guide on page 66, to help plan your fuel system.

DESCRIPTION	PART NUMBER	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
Clamp 34mm for Fuel Metering Pump	152 00 200	•	•	•	•	•		•			
FMP Holder for Noise Reduction (small pumps)	22 1000 50 03 00	•	•	•	•	•		•			
FMP Holder for Noise Reduction (large pumps)	22 1000 50 07 00	•	•	•	•				•		
											
Fuel Metering Pump Holder	25 1156 20 00 11						•		•		
											
Fuel Connector Nipple and Nut	20 2900 20 20 71									•	
											
Plastic Fuel Filter (installed in front of fuel metering pump)	25 1156 20 00 09	•	•	•	•	•	•	•	•	•	•
											
FMP Bracket 	20 2900 40 01 04	•	•			•					
											

FUEL SYSTEM

Refer to Fuel System Guide on page 66, to help plan your fuel system.

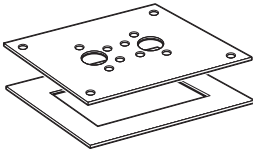
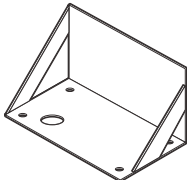
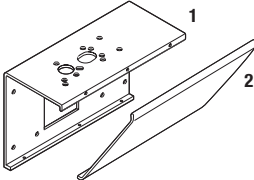
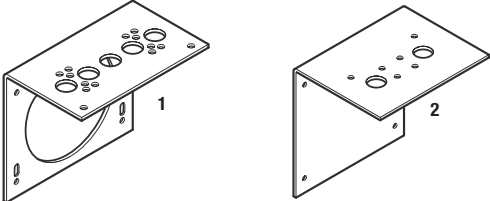
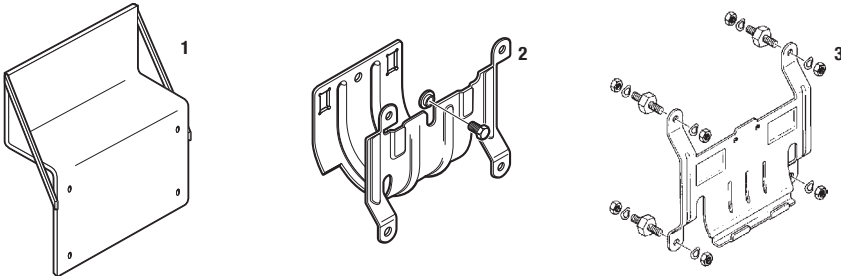
DESCRIPTION	PART NUMBER	AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
Bango fitting 8mm	25 1352 88 00 05									•	
											
Fuel T-piece d=4mm, D=8mm	262 31 155							•			
Fuel T-piece d=6mm, D=6mm	262 31 150	•	•	•	•	•	•	•	•	•	•
Fuel T-piece d=6mm, D=8mm	262 31 151	•	•	•	•	•	•	•	•	•	•
Fuel T-piece d=6mm, D=10mm	262 31 152	•	•	•	•	•	•	•	•	•	•
Fuel T-piece d=6mm, D=12mm	262 31 153	•	•	•	•	•	•	•	•	•	•
											
One Way Check Valve 6mm	244 31 060	•	•	•	•	•	•	•	•	•	•
One Way Check Valve 8mm	244 31 061	•	•	•	•	•	•	•	•	•	•
											
Auxiliary fuel Pump 12V	25 1226 89 82 00	•	•	•	•	•	•	•	•	•	•
Auxiliary fuel Pump 24V	25 1226 89 83 00	•	•	•	•	•	•	•	•	•	•
Bango fitting 8mm (2 required)	25 1352 88 00 05									•	
Hollow bolt 8mm (2 required)	104 10 008									•	
Copper seal 8mm (4 required)	323 16 013									•	
											
Pressure Reducer	22 1000 20 08 00	•	•	•	•	•		•			
											

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MOUNTING PARTS

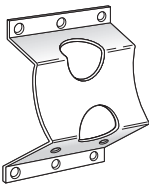
DESCRIPTION	PART NUMBER	AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II	
Mounting Plate with Seal	5540001	•	•	•	•							
												
Side Frame Mounting Tray for Boxed Heaters	20 2900 40 00 57								•			
	20 2900 40 00 75										•	
												
Cargo Bracket	20 2900 40 00 34	•	•	•	•	•						1
Cargo Bracket Support	20 2900 40 00 35	•	•	•	•	•						2
												
Angle Mounting Bracket	20 2900 40 00 23					•						1
Mounting Bracket	5540016	•	•	•	•							2
												
Inside Frame Mounting Bracket	20 2900 40 00 85							•				1
Saddle Bracketed	25 1864 80 00 01							•				2
Mounting Bracket (model 25 2217 / 2218 / 2219 / 2257)	25 2220 80 00 01							•				3
												

• = E-Guardian

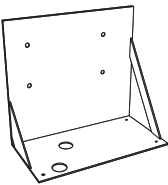
MOUNTING PARTS

DESCRIPTIONPART NUMBER

Mounting Bracket for Coolant Pump25 1371 25 00 01



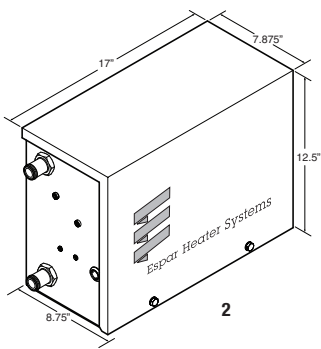
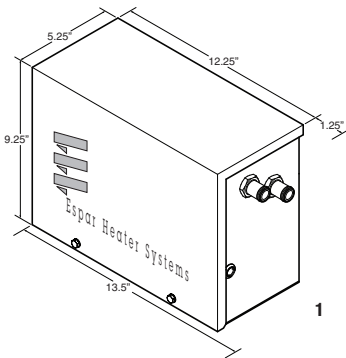
"L" Bracket for HYDRONIC 5 Box only
(used with Cross Frame Mounting Bracket 20 2900 40 00 22)20 2900 40 01 03



Mounting Bracket25 1816 80 00 01



Box Base with shock mounts20 2900 40 90 01
Box Lid20 2900 40 00 70
Box base25 2800 40 10 02
Lid25 2800 40 10 03
Hydronic 5 Box Base25 2800 40 05 02
Hydronic 5 Box Lid25 2800 40 05 01
Also requires: Silicone Seal - Exhaust25 1216 88 03 01
Grommet Harness20 2900 60 10 61
Grommet Fuel20 1280 09 01 03
Additional bulk head fitting required



o = E-Guardian

MOUNTING PARTS

DESCRIPTION

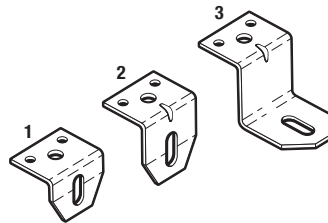
PART NUMBER

Metal Angle Bracket for Fuel Metering Pump

20 1348 03 00 02

20 1348 03 00 04

20 1533 88 00 07



"C" Clamp 10mm

152 00 139

"C" Clamp 25mm (for 22mm Exhaust/Air Intake)

152 10 048

"C" Clamp 28mm (for 24mm Exhaust)

152 09 010

"C" Clamp 34mm (for 30mm Exhaust)

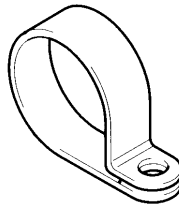
152 09 008

"C" Clamp 41mm (for large Fuel Metering Pumps)

152 10 039

"C" Clamp 50mm

152 10 047



Metal / Rubber Shock Mounts

8mm H, Hex Body

20 1185 00 00 01

15mm H, Round Body, M8

330 09 002

1inch H, Round Body, 5/16 x 18 NC

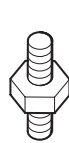
5540014

20mm H, Round Body, M8

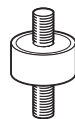
330 09 002

25mm H, Round Body, M6

20 1609 05 00 04



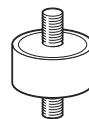
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AIRTRONIC D2

AIRTRONIC D4

B1LC compact

B3LC compact

AIRTRONIC D5

D8LC

HYDRONIC 4/5

HYDRONIC 10 / M

HYDRONIC 16/24/30/35

HYDRONIC M-II

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1

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5

BULK WIRING

DESCRIPTIONPART NUMBER

Bulk Wiring

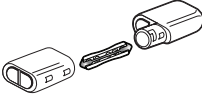
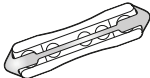
8ga - 2 Core Red, Brown	20 2900 70 59 02
10ga - 1 Core Red	5670136
10ga - 2 Core Red, Brown	20 2900 70 59 03
12ga - 2 Core Red, Brown	20 2900 70 59 23
14ga - 2 Core Red, Brown	20 2900 70 59 05
16ga - 2 Core Green, Brown	20 2900 70 09 15
18ga - 2 Core Green, Brown	20 2900 50 59 01
18ga - 3 Core Red, Brown, Yellow	20 2900 70 09 17
18ga - 4 Core Red, Brown, Yellow, Blue	20 2900 70 09 13
18ga - 6 Core Red, Brown, Yellow, Blue, Grey, Black	20 2900 70 90 09
18ga - 7 Core Red, Brown, Yellow, Blue, Grey, Brown w/white stripe, Grey w/red stripe.	20 2900 70 09 14



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

per ft.
per ft.
per ft.
per ft.
per ft.
per ft.
per ft.
per ft.
per ft.
per ft.

FUSE HOLDERS, FUSES, BREAKERS

		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
DESCRIPTION	PART NUMBER										
Holder for Ceramic Fuse with 16 AMP Fuse	204 00 099	•	•	•	•	•	•	•	•	•	
											
Ceramic 25 AMP Fuse	204 21 009	•	•	•	•	•	•	•	•	•	
											
Water-proof Fuse Holder Cover	2199984	•	•	•	•	•	•	•	•	•	
											
Bussman BAF 30 AMP Fuse	5670050	•	•	•	•	•	•	•	•	•	
Fuse T6 3 AMP for Thermostat	460 26 001							•	•		
											
Packard ATC Fuse Holder with Terminals	5670051	•	•	•	•	•	•	•	•	•	
Base, Fuse Holder 12033769	20 2900 70 70 17	•	•	•	•	•	•	•	•	•	
Cover, Fuse Holder 12033731	20 2900 60 70 09	•	•	•	•	•	•	•	•	•	
Terminal 12033997L	5670199	•	•	•	•	•	•	•	•	•	
											
ATC 3 AMP Fuse	5670057	•	•	•	•	•	•	•	•	•	
ATC 5 AMP Fuse	204 00 079				•			•			
ATC 10 AMP Fuse	5670056	•	•	•	•	•	•	•	•	•	
ATC 15 AMP Fuse	5670053	•	•	•	•	•	•	•	•	•	
ATC 20 AMP Fuse	5670055	•	•	•	•	•	•	•	•	•	
ATC 25 AMP Fuse	204 00 089	•	•	•	•	•	•	•	•	•	
ATC 30 AMP Fuse	5670054	•	•	•	•	•	•	•	•	•	
											

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21
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FUSE HOLDERS, FUSES & BREAKERS

DESCRIPTION

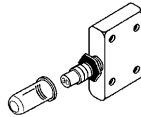
PART NUMBER

Breaker 30 Amp (D7WB)

5670059

Breaker 25 Amp (D5WB-oldstyle)

5670046

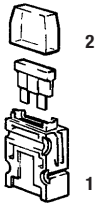


Fuse Holder Base

204 31 004

Fuse Holder Cover

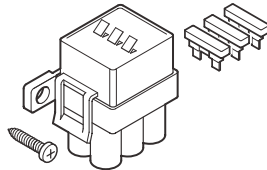
204 31 005



Fuse Holder Kit 5A, 15A, 25A

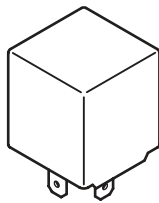
22 1000 31 06 00

INCLUDES: Fuses and Terminals



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

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TERMINALS AND CONNECTORS

DESCRIPTION

PART NUMBER

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

10ga - 12ga Female, Tabs

5670174

14ga - 18ga Female, Tabs

5670394

Terminal Fuse Holder

206 00 004

Flat Terminal

206 73 016

Mini Terminal, AWG 16-20

206 73 052

Flat Terminal

5670186

10ga - 12ga Female, No Tabs

5670171

14ga - 18ga Female, No Tabs

5670172

10ga - 12ga Male

5670176

14ga - 18ga Male

5670175

Mini Terminal, AWG 16-20

206 36 018

Terminal with Tab, AWG 18

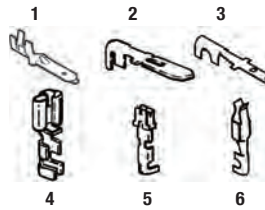
5670394

Terminal with Sensor

5670187

Mini Terminal, AWG 14-18

206 00 182



Ring Terminal (3/8") AWG 10-12

5670178

Ring Terminal

5670199



Socket AWG 14

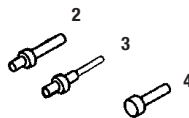
5670268

Deutsch Connector AWG 18 Pin

5670266

Seal Plug

5670325



Socket

5670272

Connector, Female DTHD-04-18P

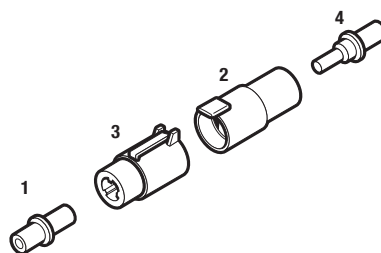
5670321

Connector, Male DTHD-06-18S

5670323

Deutsch Connector Power Pin AWG 10

5670270



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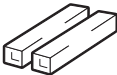
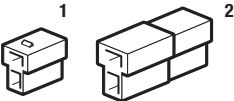
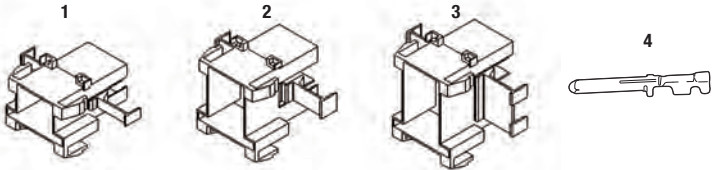
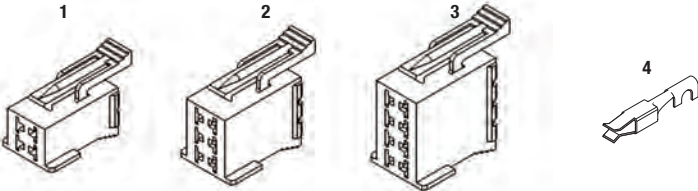
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TERMINALS AND CONNECTORS

		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	
DESCRIPTION	PART NUMBER											
Rubber Boot for Fuel Metering Pump	320 31 120	•	•	•	•	•	•	•	•	•		
												
Plug and Socket Connector	206 00 040	•	•	•	•	•	•	•	•	•		
												
Socket Housing, Male 2 Pin "T"	206 00 099	•	•	•	•	•	•	•	•	•		1
Socket Housing, Female 2 Pin "T"	206 31 004	•	•	•	•	•	•	•	•	•		2
												
Socket Housing, Female 4 Pin	206 31 100	•	•	•	•	•	•	•	•	•	•	1
Socket Housing, Female 6 Pin	206 31 106	•	•	•	•	•	•	•	•	•	•	2
Socket Housing, Female 8 Pin	206 31 101	•	•	•	•	•	•	•	•	•	•	3
Terminal, Male AWG 16-20	206 36 018	•	•	•	•	•	•	•	•	•	•	4
												
Socket Housing, Male 4 Pin	206 31 296	•	•	•	•	•	•	•	•	•	•	1
Socket Housing, Male 6 Pin	206 31 297	•	•	•	•	•	•	•	•	•	•	2
Socket Housing, Male 8 Pin	206 31 298	•	•	•	•	•	•	•	•	•	•	3
Terminal, Female AWG 16-20	206 73 052	•	•	•	•	•	•	•	•	•	•	4
												

[illegible]

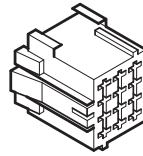
TERMINALS AND CONNECTORS

DESCRIPTION

PART NUMBER

7 day timer 12 pin connector housing

206 31 293



Mini terminal, female AwG 16-20

206 00 180

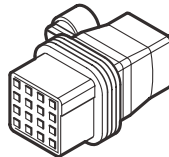


Hydronic M square connector housing

206 31 319

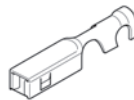
Hydronic M square connector w/pins

22 1000 31 93 00



Mini terminal Stribel AwG 16-20

206 36 154



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

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POWER CONVERTERS 12V TO 24V

DESCRIPTION	PART NUMBER
12V to 24V Power Converter Asmbly 3401	25 2800 90 12 23
12V to 24V Power Harness for 5673401	25 2800 70 16 01
Power Converter 12 - 24 288W	5673401



12V to 24V Power Converter Asmbly 3601	25 2800 90 1224
12V to 24V Power Harness for 5673601	25 2800 70 16 00
Power Converter 12 - 24 488W	5673601

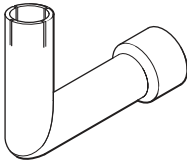
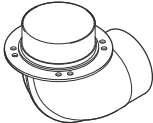
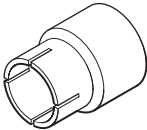
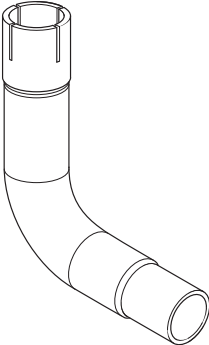


Heat sink	20 2900 40 00 04
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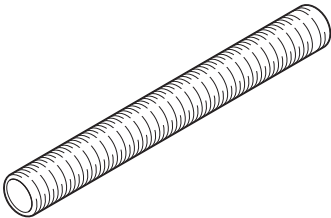
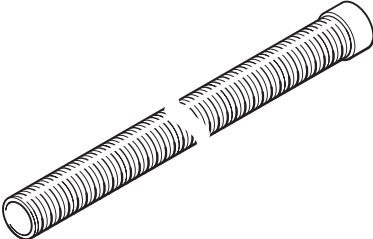
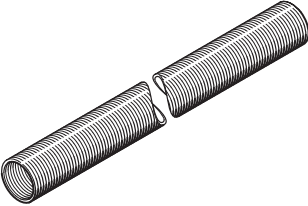
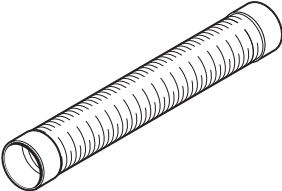


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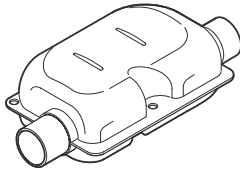
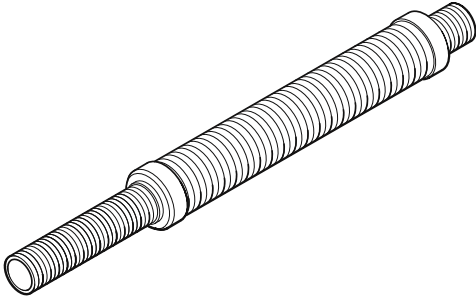
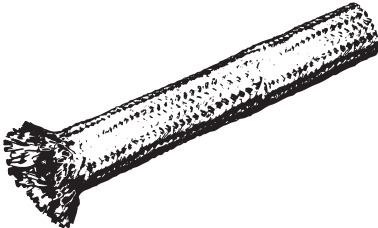
EXHAUST

DESCRIPTION	PART NUMBER	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
Elbow (with 30mm flex exhaust)	25 1226 89 55 00	•	•	•	•	•		•			
											
Exhaust Elbow (with exhaust)	22 1000 40 03 00									•	
											
Straight Exhaust Fitting (24-30mm)	25 1520 80 01 01	•	•	•	•	•		•			
Straight Exhaust Fitting (30-28mm)	25 1226 89 00 28								•		•
Straight Exhaust Fitting (30-26mm)	25 1226 89 00 29								•		•
											
Exhaust 90° adapter (30mm)	25 2800 30 10 00								•		•
											

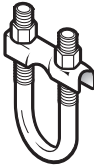
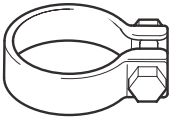
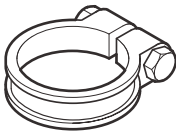
EXHAUST

DESCRIPTION	PART NUMBER	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	
Flexible Stainless Steel Exhaust 24mm (1.3 mtr) 	360 61 557	•	•	•	•	•		•				each
												
Flexible Stainless Steel Exhaust 24mm x 1.3M with end cap	25 1774 80 02 00	•	•	•	•	•		•				
Flexible Stainless Steel Exhaust 30mm x 1.3M with end cap	25 1816 80 08 00								•		•	
												
Flexible Stainless Steel Exhaust 40mm (when elbow is used)	5530012						•					per mtr
Flexible Stainless Steel Exhaust 42mm (direct connect)	5530013						•					per mtr
Flexible Stainless Steel Exhaust 24mm (one layer) 	360 61 550	•	•	•	•	•		•				per mtr
Flexible Stainless Steel Exhaust 24mm (two layer)	360 61 299	•	•	•	•	•		•				per mtr
Flexible Stainless Steel Exhaust 30mm (one layer)	360 61 580								•		•	per mtr
Flexible Stainless Steel Exhaust 30mm (two layers)	360 61 300	•	•	•	•	•			•		•	per mtr
												
Flexible Stainless Steel Exhaust 70mm (direct connect)	5530015									•		per mtr
												

EXHAUST

		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	
DESCRIPTION	PART NUMBER											
Exhaust Muffler for 24mm (Slimmer-New)	22 1000 40 09 00	•	•	•	•	•		•				
Exhaust Muffler for 24mm (Wider-Old)	25 1864 81 01 00	•	•	•	•	•		•				
												
Exhaust Muffler 30mm	25 1226 89 58 00	•	•	•	•	•						
												
Exhaust Muffler 30mm	25 1806 80 01 00								•		•	
												
Exhaust Insulation Sock 1" for 22mm-24mm ID Exhaust	5530001	•	•	•	•			•				per ft.
Exhaust Insulation Sock 2" for 24mm-42mm ID Exhaust	5530002	•	•	•	•	•	•	•				per ft.
Exhaust Insulation Sock 3" for 70mm ID Exhaust	5530003									•		per ft.
												

EXHAUST

DESCRIPTION	PART NUMBER	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
Exhaust End Cap for 24mm	25 1482 80 00 01	•	•	•	•	•		•			
 Plastic Air Intake End Cap with Crossbar 20mm Exhaust End Cap with Crossbar 24mm Plastic Air Intake End Cap with Crossbar 25mm Exhaust End Cap with Crossbar 30mm Exhaust End Cap with Crossbar 46mm	25 1688 80 12 01			•				•			
	20 2900 30 24 00	•	•	•	•	•		•			
	25 1729 89 00 02	•	•		•	•					
	25 1785 80 02 00								•		•
	22 1000 40 02 00						•				
 Exhaust Clamp for 70mm	5530004										•
 Clamp for Exhaust Pipe 26mm	152 61 102	•	•	•	•	•		•			
 Clamp for Exhaust Pipe 27mm-30mm Clamp for Exhaust Pipe 30mm-33mm Clamp for Exhaust Pipe 32mm-50mm	152 09 002								•		•
	152 09 003								•		•
	152 09 004						•				
 Clamp for Exhaust Pipe 32mm-50mm											

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DUCTING

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

DESCRIPTION**PART NUMBER**

Flexible Hose (75mm or 3.0")

5550007

Flexible Hose (100mm or 4.0")

5550008

Flexible Air Hose (aluminum, paper, plastic) (50mm or 2.0")

10 2114 29 00 00

Flexible Air Hose (aluminum, paper, plastic) (60mm or 2.4")

10 2114 31 00 00

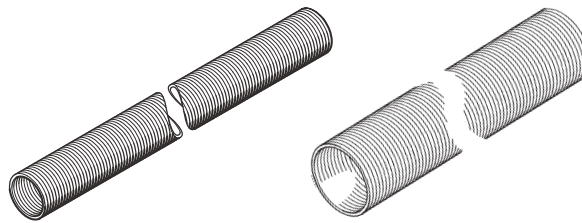
Flexible Air Hose (aluminum, paper, plastic) (75mm or 3.0")

10 2114 34 00 00

Flexible Air Hose (aluminum, paper, plastic) (90mm or 3.5")

10 2114 37 00 00

RECOMMENDED



Plastic "Y" Connector (75mmx75mmx75mm or 3"x3"x3")

25 1226 89 00 44

Plastic "Y" Connector (100mmx100mmx100mm or 4"x4"x4")

25 1226 89 00 45

Plastic "Y" Connector (60mmx50mmx50mm or 2.4"x2"x2")

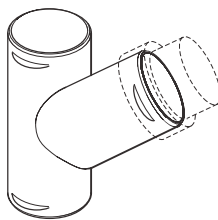
25 1688 89 00 03

Plastic "Y" Connector (60mmx60mmx60mm or 2.4"x2.4"x2.4")

25 1774 89 00 05

Plastic "Y" Connector (90mmx90mmx90mm or 3.5"x3.5"x3.5")

22 1000 01 00 21



Plastic Reducer for "Y" or Ducting Union (75-50mm or 3"-2")

25 1226 89 00 46

Plastic Reducer for "Y" or Ducting Union (100-75mm or 4"-3")

25 1226 89 00 47

Plastic Reducer for "Y" or Ducting Union (100-50mm or 4"-2")

25 1226 89 00 48

Plastic Reducer for "Y" or Ducting Union (75-60mm or 3"-2.4")

25 1226 89 00 50



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

per ft.
per ft.
per mtr.
per mtr.
per mtr.
per mtr.

DUCTING

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

DESCRIPTION

PART NUMBER

Hood Adapter (60-75mm or 2.4"-3")

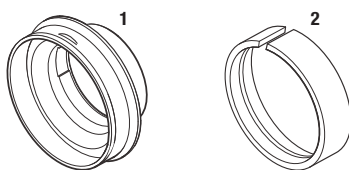
25 1688 89 00 10

Hood Adapter (90-100mm or 3.5"-4") black plastic

20 1607 80 00 01

Hood Adapter (100mm or 4")

20 2900 50 20 02



Ducting Union (60-60mm)

22 1000 01 00 05

Ducting Union (75-75mm)

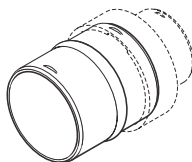
22 1000 01 00 06

Ducting Union (90-90mm)

22 1000 01 00 24

Ducting Union (100-100mm)

22 1000 01 00 07



Straight Air Outlet Hood (60mm)

22 1000 01 00 16

Straight Air Outlet Hood (75mm)

22 1000 01 00 17

Straight Air Outlet Hood (75mm)

22 1000 01 00 18

Straight Air Outlet Hood (90mm)

22 1000 01 00 19

Straight Air Outlet Hood (60mm)

25 1688 80 03 00

Straight Air Outlet Hood (75mm)

25 1688 89 02 00

Straight Air Outlet Hood (75mm)

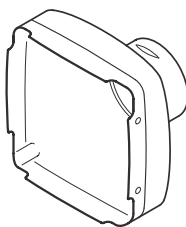
25 1822 80 01 00

Straight Air Outlet Hood (90mm)

25 1822 89 01 00

Complete Rear Air Outlet Hood (90mm)

25 1729 01 09 00

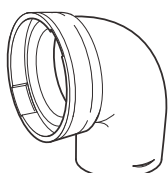


90o Bend di=60mm, da=60mm

25 1688 89 00 01

90o Bend di=75mm, da=75mm

25 1482 89 00 05



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

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2

1

2

3

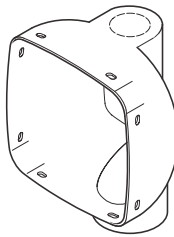
DUCTING

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

DESCRIPTION

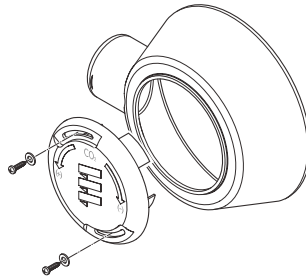
PART NUMBER

90° Air Outlet Hood 60mm Outlet	22 1000 01 00 20
90° Air Outlet Hood 75mm Outlet	22 1000 01 00 22
90° Air Outlet Hood 90mm Outlet	22 1000 01 00 23
90° Air Outlet Hood 60mm Outlet	25 1688 89 01 01
90° Air Outlet Hood 75mm Outlet	22 1000 01 00 02
90° Air Outlet Hood 90mm Outlet	25 1729 89 10 00



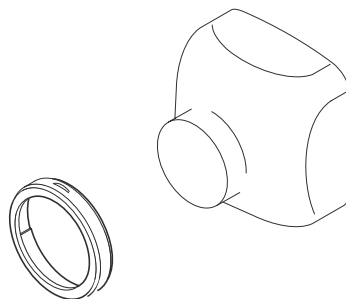
Air Intake Hood (60mm or 2.4")

22 1000 40 06 00



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

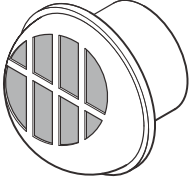
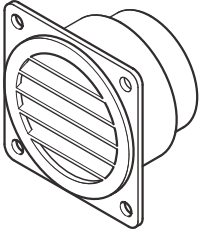
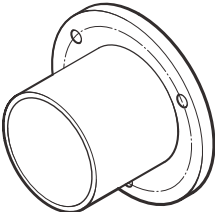
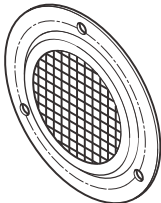
22 1000 01 00 08
 25 1822 89 00 01
 20 1607 80 00 01



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

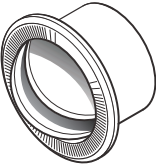
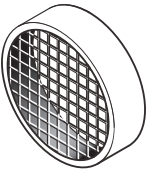
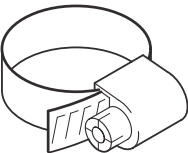
DUCTING

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

DESCRIPTION	PART NUMBER	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
Deflector (60mm or 2.4")	20 2800 50 02 00	•	•	•	•	•					
Deflector (50mm or 2")	20 1575 80 08 00	•	•	•	•	•	•				
											
Adjustable Grille (75-100mm or 3-4")	22 1050 89 21 00	•	•	•	•	•	•	•	•	•	•
Adjustable Grille (90-100mm or 3.5-4")	20 1609 80 09 00		•		•	•					
											
Hose Flange for Outlet Grille for Duct Size 50mm (2")	20 1575 80 08 01	•	•	•	•	•	•				
Hose Flange for Outlet Grille for Duct Size 60mm (2.4")	20 1577 89 06 01	•	•	•	•	•					
Hose Flange for Outlet Grille for Duct Size 75mm (3")	25 1226 89 00 12	•	•	•	•	•	•				
Hose Flange for Outlet Grille for Duct Size 90mm (3.5")	20 1297 00 00 01	•	•	•	•	•	•				
Hose Flange for Outlet Grille for Duct Size 100mm (4")	25 1226 89 00 40	•	•	•	•	•	•				
											
Black Open Screen (60mm or 2.4")	22 1000 01 00 01	•	•	•	•	•					
Black Open Screen (90mm or 3.5")	20 1465 89 05 00	•	•	•	•	•					
Black Open Screen (140mm or 5.25")	25 1729 89 00 05	•	•	•	•	•					
Nickel Plated Open Screen (140mm or 5.25")	25 1226 89 05 00	•	•	•	•	•					
											

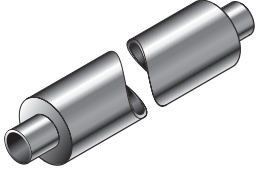
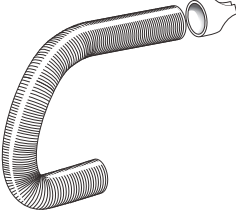
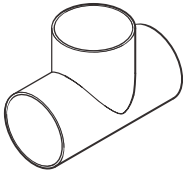
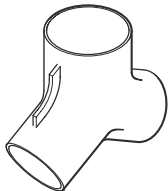
DUCTING

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

DESCRIPTION	PART NUMBER	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
French Closeable Outlet with Flange (75mm or 3" Ducting)	330 31 311	•	•	•	•	•	•				
											
Air Inlet Safety Screen (60mm or 2.4")	25 1688 80 06 00	•		•							
Air Inlet Safety Screen (75mm or 3")	25 1552 05 01 00	•	•		•						
Air Inlet Safety Screen (90mm or 3.5")	25 1729 80 00 01		•		•	•					
Air Inlet Safety Screen (100mm or 4")	25 1226 89 44 00						•				
											
Stainless Steel Hose Clamp 33-57mm (50mm or 2" Ducting)	5550001	•	•	•	•	•	•				
Stainless Steel Hose Clamp 46-70mm (60mm or 2.4" Ducting)	5550004			•	•	•	•				
Stainless Steel Hose Clamp 59-83mm (75mm or 3" Ducting)	5550002	•	•	•	•	•	•				
Stainless Steel Hose Clamp 84-108mm (100mm or 4" Ducting)	5550003			•	•	•	•				
											
Ducting Clamp 32-50mm	10 2067 03 20 50	•	•	•	•	•	•	•	•	•	•
Ducting Clamp 33-57mm	5550001	•	•	•	•	•	•	•	•	•	•
											

DUCTING

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

		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	
DESCRIPTION	PART NUMBER											
Air Intake Silencer (75mm or 3")	25 1226 89 15 00	•	•	•	•							
Air Intake Silencer (100mm or 4")	25 1226 89 56 00		•		•	•	•					
												
Combustion Air Intake Flex Hose 30mm ID	10 2114 25 00 00						•					per mtr
End Cap	25 1480 89 04 00						•					
												
Plastic "T" Piece 60mmx60mmx60mm or 2.4"x2.4"x2.4"	25 1688 89 00 02	•		•								
Metal "T" Piece 75mmx75mmx75mm or 3"x3"x3"	25 1482 89 07 00	•	•	•	•	•	•					
												
Plastic "Y" Piece D=60mm, d=50mm	25 1688 89 00 03	•		•								
Metal "Y" Piece D=75mm, d=50mm	25 1482 80 08 00	•	•	•	•	•	•					
												

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DUCTING

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

DESCRIPTION**PART NUMBER**

Plastic Reducer di=60mm, D=75mm

25 1688 89 00 10

Plastic Reducer di=75mm, D=100mm

25 1226 89 00 47

Plastic Reducer di=75mm, D=50mm

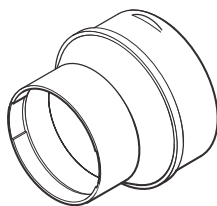
25 1226 89 00 46

Plastic Reducer di=75mm, D=60mm

25 1226 89 00 50

Plastic Reducer di=100mm, D=50mm

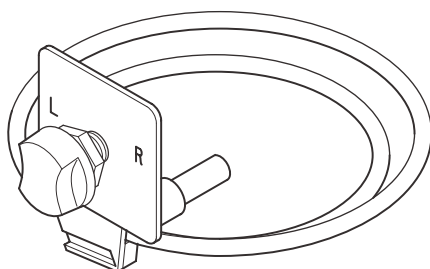
25 1226 89 00 48



Operating Cable for 330 00 174

REQUIRES air regulating valve

22 1000 01 03 00



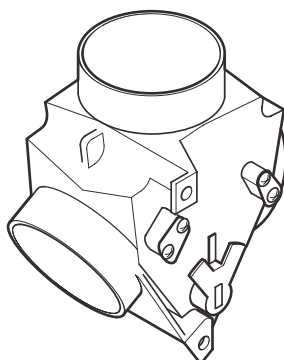
Air Regulating Valve 60mm

330 00 174

Air Regulating Valve 90mm

REQUIRES operating cable

330 00 175



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

COOLANT PUMPS

DESCRIPTION

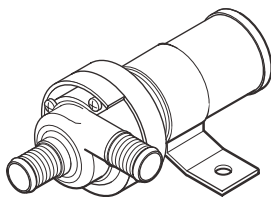
PART NUMBER

Coolant Pump (700 L/hr) 12 volt

25 1815 25 01 00

Coolant Pump (700 L/hr) 24 volt

25 1816 25 01 00

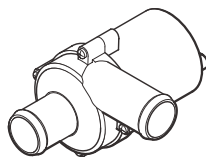


Coolant Pump (800 L/hr) 12 volt

25 2275 25 00 00

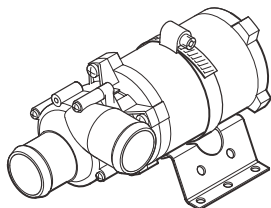
Coolant Pump (900 L/hr) 24 volt

25 2009 25 00 00



Flowtronic Coolant Pump (5000 L/hr) 24 volt

25 1818 29 00 00

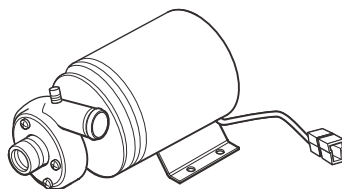


High Capacity Pump 12 volt Albany (2280 L/hr)

20 2900 60 01 39

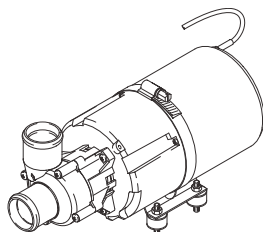
High Capacity Pump 24 volt Albany (2280 L/hr)

20 2900 70 01 40



Flowtronic Coolant Pump 24 volt (6000 L/hr)

25 1818 27 00 00



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

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PLUMBING

DESCRIPTION

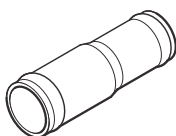
PART NUMBER

Brass Reducer D= 18mm, d= 15mm

20 1645 80 02 01

Brass Reducer D= 20mm, d= 18mm

20 1645 89 00 06



One Way Check Valve D= 18mm, d= 18mm

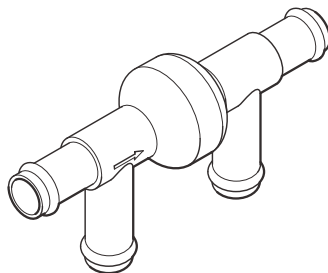
254 00 070

One Way Check Valve D= 20mm, d= 18mm

254 00 073

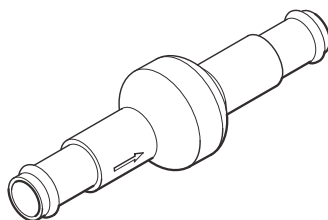
One Way Check Valve D= 20mm, d= 20mm

254 00 074



One Way Check Valve 20mm

254 00 072

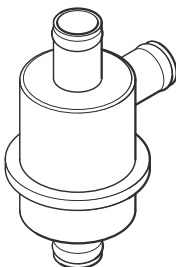


Brass Water Thermostat D= 18mm, d= 18mm (70oC-75oC) 158oF-167oF

330 00 123

Brass Water Thermostat D= 20mm, d= 20mm (70oC-75oC) 158oF-167oF

330 00 124



AIRTRONIC D2

AIRTRONIC D4

B1LC compact

B3LC compact

AIRTRONIC D5

D8LC

HYDRONIC 4/5

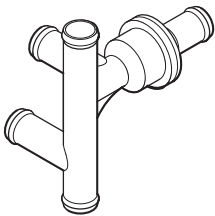
HYDRONIC 10 / M

HYDRONIC 16/24/30/35

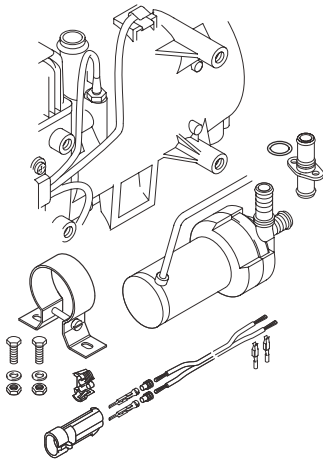
HYDRONIC M-II

PLUMBING

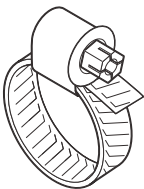
DESCRIPTION	PART NUMBER
5 Way Valve with Thermostat	25 2014 80 72 00



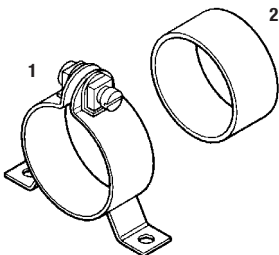
Conversion Kit for Water Pump	22 1000 10 01 00
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Clamp 16-25mm ID 10	10 2067 01 60 25
Clamp 20-32mm ID 10	22 2065 02 00 32



Pump Clamp 48mm 22	22 1000 50 10 00
Rubber Ring for Large FMP	20 1449 00 10 01



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
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					•				

1
2

PLUMBING

DESCRIPTION

PART NUMBER

Brass Pump Fittings 3/4" NPT x 3/4" Barb

20 2900 60 10 02

Brass Pump Fitting 3/4" NPT x 1" Barb

20 2900 60 10 15



Bulk Head Fitting 3/4" - 2 pieces required

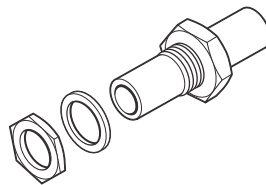
20 2900 60 10 10

1/2 - 3/4 Straight Barb Connection

5520068

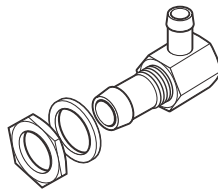
Bulk Head Fitting 3/4" to 1"

20 2900 60 10 57



Bulk Head Fitting 3/4" x 90o

20 2900 60 10 37



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

PLUMBING

DESCRIPTION

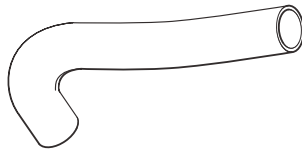
PART NUMBER

90o Hose Bend 20mm x 0.29 mtr

20 2900 60 10 23

90o Hose Bend 1.5" ID

5560001

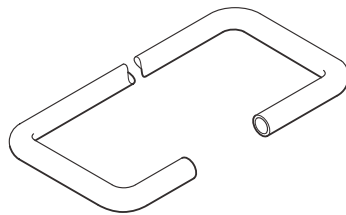


180o Coolant Hose 18mm, L = 2000mm

20 1690 81 00 01

180o Coolant Hose 20mm, L = 2000mm

25 1917 80 00 01



Brass Hose Connector d= 18mm

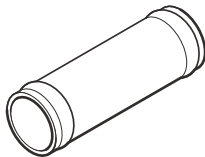
20 1528 88 00 03

Brass Hose Connector d= 20mm

20 1534 88 00 01

Brass Hose Connector d= 22mm

20 1645 89 00 07



Coolant Hose 1.5" 1mt piece

20 2900 60 10 39



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

1

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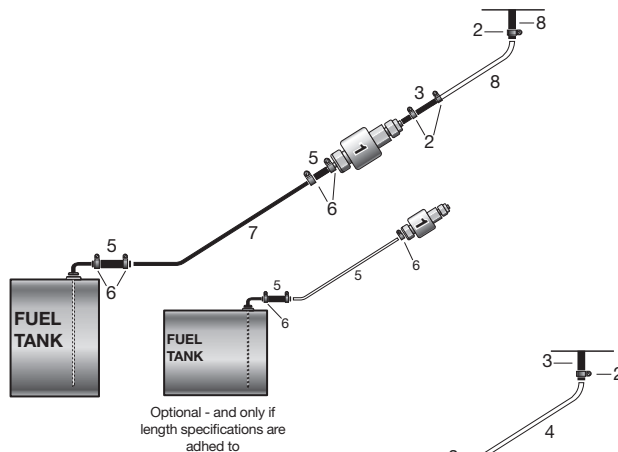
3

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.

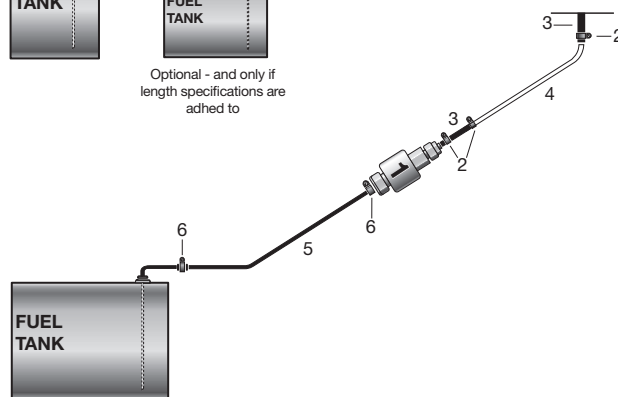
AIRTRONIC 2
AIRTRONIC 4
B1LC compact
B3LC compact
D/B5LC



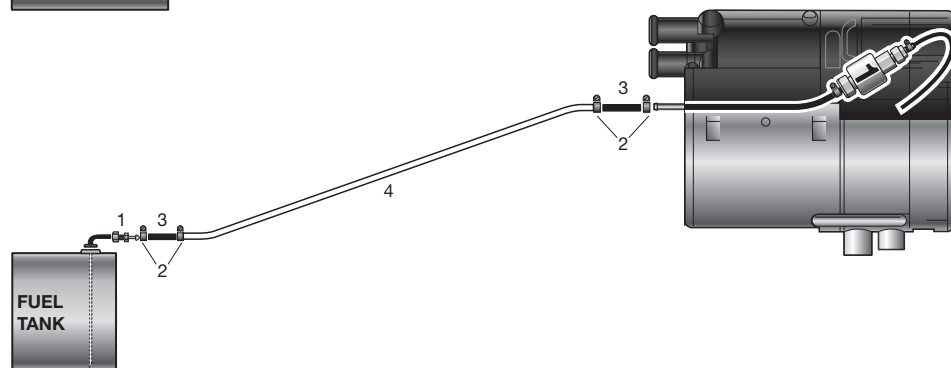
LEGEND

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

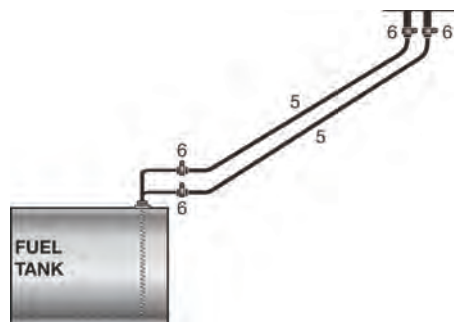
D8LC
HYDRONIC 10



HYDRONIC 4
HYDRONIC 5



HYDRONIC 16
HYDRONIC 24
HYDRONIC 30
HYDRONIC 35



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 cm², R rating 1.0

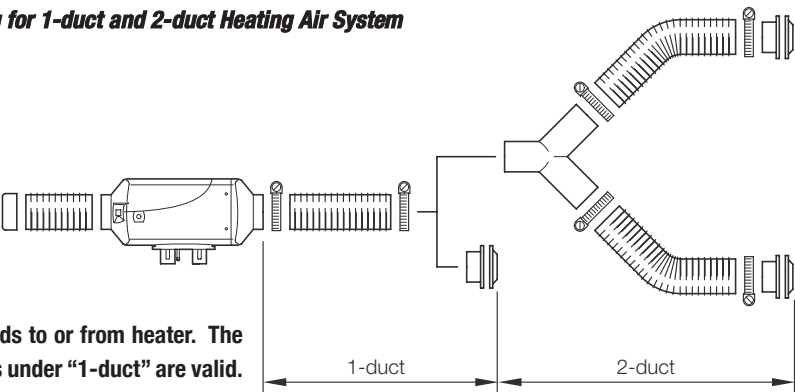
75 diameter hose
A = 44.2 cm², R rating 0.25

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.



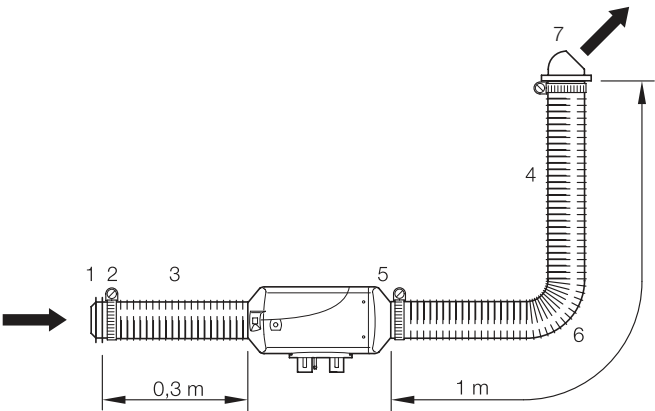
2-duct means:

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	1.7
2	Connection piece 60mm dia.	
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	1.2
7	Swivel outlet	1.4
Total Component Rating		5.6



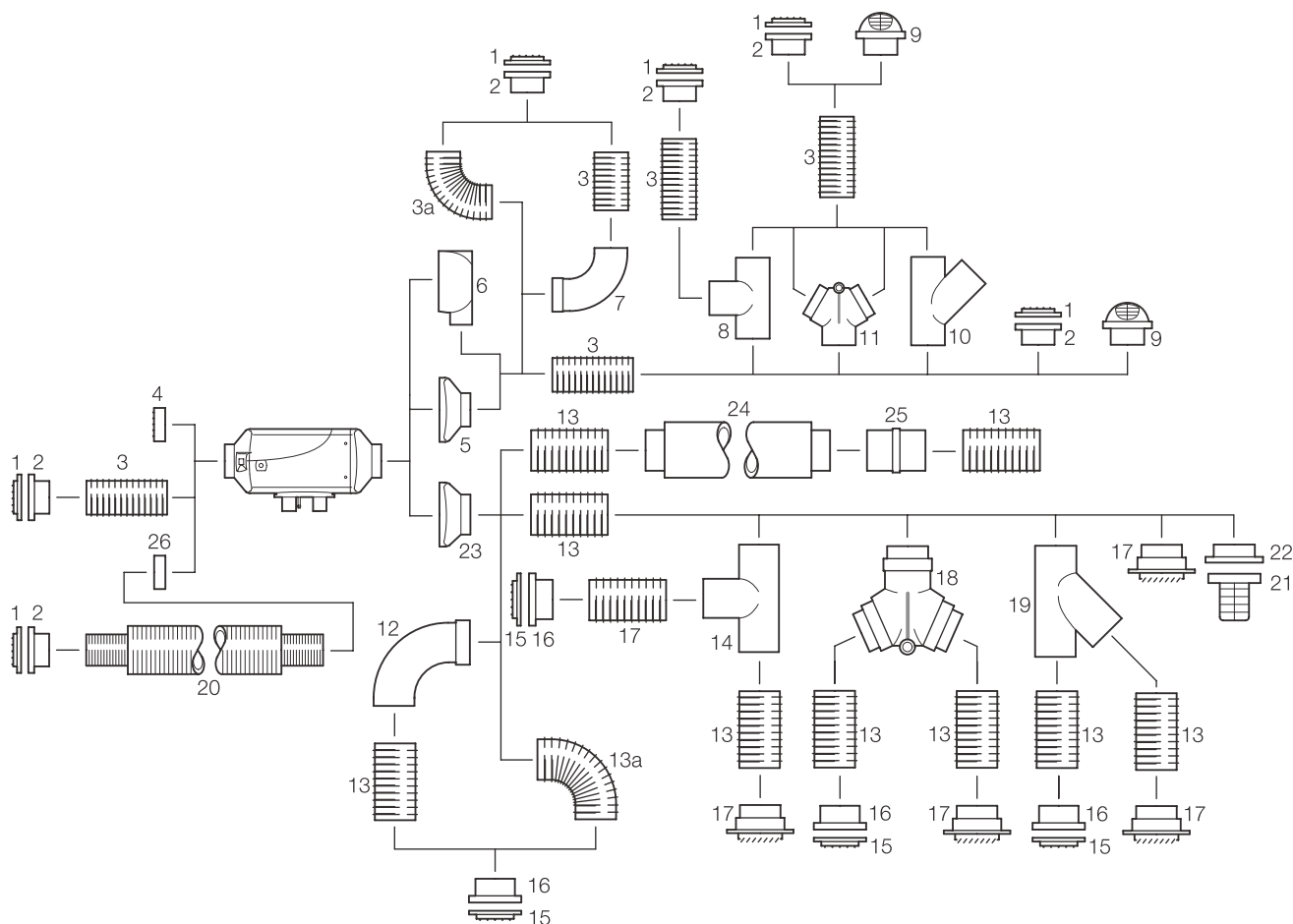
Rating sum = 5.6 and does not exceed the heater rating of 6. The installation is permissible.

DUCTING RATING GUIDE FOR *AIRTONIC 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*

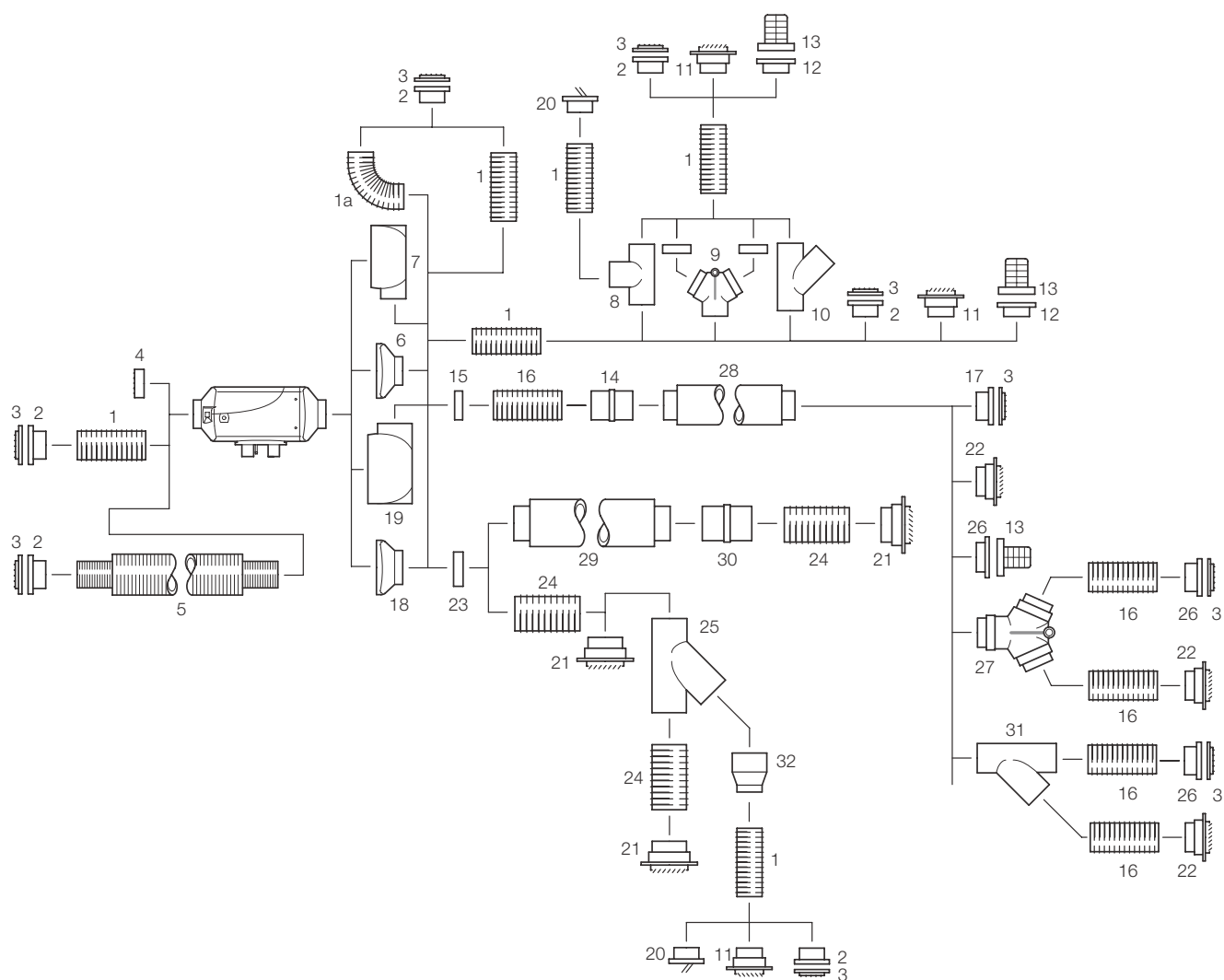
Fig. No.	DESIGNATION (measurements in millimeters)	COMPONENT RATING		See per No. Air Ducting
		1-duct	2-duct	
	Heating air ducting with reduction hood 60 dia. (heater rating 6)			
1	Grille	1.7	0.6	16
2	connecting socket, plastic			25
3	Flexible pipe, 60 dia. per m	1	0.3	1
3a	90° pipe bend of flex. pip, 60 dia.	1.2	0.8	1
4	Protective grille	0	-	18
5	Reduction hood, 60 dia.	0	-	30
6	Spherical reduction hood, 60 dia.	4.5	-	34
7	90° pipe bend	4.1	0	35
8	T-piece	-	0.6	40
9	Outlet grill 60 dia. (rotatable)	1.4	0	10
10	Y-piece	-	0.3	45
11	Regulating valve 60x60x60 dia. with flap			
	Position "middle"	-	0	41
	Position "right/left"	-	1	
	Heating air ducting with reduction hood 75 dia. (heater rating 12)			
12	Pipe bend, 75 dia.	3	0.8	35
13	Flexible pipe, 75 dia. per m	1	0.3	1
13a	90° pipe bend of flex. pipe, 75 dia.	1.2	0.5	1
14	T-piece 75x75x75 dia.	-	0.8	40
15	Grille, 75 dia.	-	-	16
16	Connecting socket, metal, 75 dia.	0.5	0	27
17	Outlet grill (rotatable)	0.4	0	11
18	Regulating valve 75x75x75 dia. with flap			
	Position "middle"		0.4	41
	Position "right/left"		1.5	
19	Y-piece 75x75x75 dia.	-	0.4	45
20	Intake silencer, 75 dia.	0.5	-	4
21	Outlet grill with	0.4	0.4	17
22	Connecting socket, plastic, 75 dia.			17.2
23	Reduction hood, 75 dia.	0	0	30
24	Silencer, 75 dia.	1	-	3
25	Connector, 75 dia.	0.1	-	46
26	Ring, 60x75 dia.	0	-	36

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*

Fig. No.	DESIGNATION (measurements in millimeters)	COMPONENT RATING				See per No. Air Ducting
		1-duct		2-duct		
	Heating air ducting with reduction hood 75 dia. (heater rating 3) Heating air ducting with reduction hood 90 dia. (heater rating 10)	75	90	75	90	
1	Flexible pipe, 75 dia. per m	1	-	0.2	0.3	1
1a	90o pipe bend of flex. pipe, 75 dia.	1	-	0.2	0.4	1
2	Connecting socket, metal, 75 dia.	1.4	1.4	-	0.5	27
3	Grille	-	-	-	-	16
4	Grille, 75 dia.	-	-	-	-	18
5	Intake silencer, 75 dia.	1	0.8	-	-	4
6	Reduction hood, 75 dia.	0	-	-	-	30
7	Spherical reduction hood, 75 dia.	2	-	-	-	34
8	T-piece 75x75x75 dia.	-	-	0.3	-	40
9	Regulating valve 75x75x75 dia. with flap	0	-	-	-	41
	Position “middle” Position “right/left”	1.3	-	-	-	-
10	Branch piece 75x75x75 dia.	-	-	1.8	-	45
11	Outlet grill (rotatable) 75 dia.	0.6	-	0.5	0.3	11
12	Connector, 75 dia.	-	-	-	-	17.2
13	Outlet grill	1	3.3	0.5	0.5	17
14	Connector, 75 dia.	-	0.1	-	-	46
15	Ring, 75x90 dia.	0	0	-	-	36
16	Flexible pipe, 90 dia. per m	-	1	-	-	1
17	Connector socket, 90 dia. with grille	-	1.4	-	0.5	27
18	Reduction hood, 90 dia.	-	0	-	-	30
19	Spherical reduction hood, 90 dia.	-	5	-	-	34
20	Round outlet, 75 dia.	-	-	-	2.1	12
21	Outlet grill (rotatable) 100 dia.	-	1.4	-	0.5	11
22	Outlet grill (rotatable) 90 dia.	-	2.4	-	0.3	11
23*	Grille, round, 90x100 dia.	-	0	-	-	18
24	Flexible pipe, 100 dia. per m	-	0.6	-	0.4	1
25	Y-piece 100x100x100 dia.	-	-	-	0.5	45
26	Connector, 90 dia., with exhauster pos. 13	-	3.3	-	-	17.2
27	Regulating valve 90x90x90 dia.	-	0	-	-	41
	Position “middle” Position “right/left” - 1.4 - -	-	1	-	-	3
28	Silencer, 90 dia.	-	1	-	-	3
29	Silencer, 100 dia.	-	1	-	-	3
30	Connector, 100 dia.	-	0.1	-	-	46
31	Y-piece 90x90x90 dia.	-	-	-	0.5	45
32	Reduction piece, 100 dia. - 75 dia.	-	-	-	0.5	47

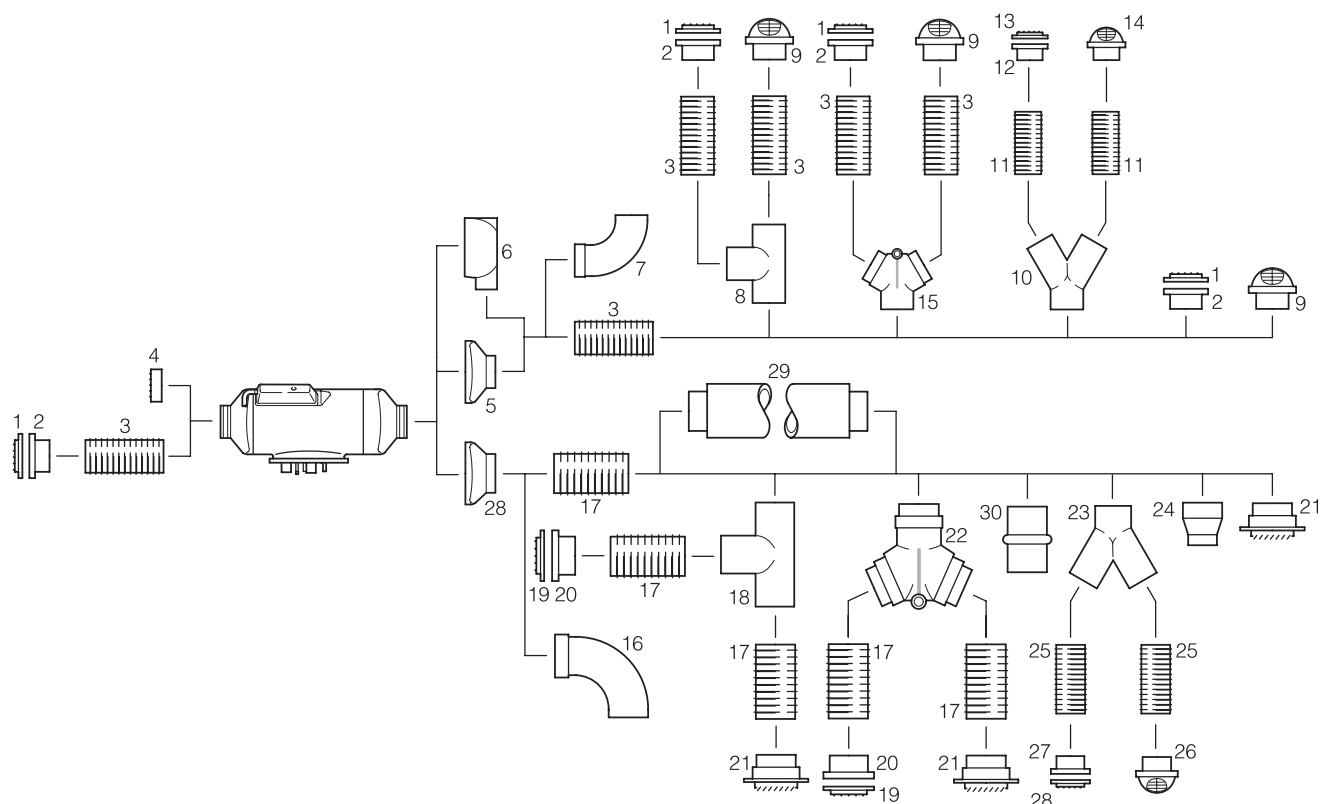
* Pos. 23 - if used as adapter 90x100 dia., cut out the mesh.

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

Fig. No.	DESIGNATION (measurements in millimeters)	COMPONENT RATING		See per No. Air Ducting
		1-duct	2-duct	
	Heating air ducting with reduction hood 60 dia. (heater rating 6)			
1	Grille	1.2	0.4	16
2	Connecting socket, plastic	0.3	0	25
3	Flexible pipe, 60 dia. per m	1	0.25	1
-	90° pipe bend of flex. pipe, 60 dia.	0.5	0.1	1
4	Protective grille	0.15	-	18
5	Reduction hood 60 dia.	0	0	31
6	Spherical reduction hood, 60 dia.	1.7	1.7*	32
7	Pipe bend, 60 dia.	3	*	35
8	T-piece, 60 dia.	-	0.3	40
9	Outlet grill (rotatable) 60 dia.	1	0.15	10
10	Y-piece, 60 dia.	-	0.85	44
11	Flexible pipe, 50 dia. per m	-	0.25	1
-	90° pipe bend of flex. pipe, 50 dia.	-	0.1	1
12	Connecting piece	-	0	25
13	Outlet grill	-	0.15	16
14	Outlet grill (rotatable) 50 dia.	-	0.15	10
	Regulating valve 60x60x60 dia. with flap			
15	Position "middle"	-	0	41
	Position "right/left"	-	1	
	Heating air ducting with reduction hood 75 dia. (heater rating 15)			
16	Pipe bend, 75 dia.	2	2*	35
17	Flexible pipe, 75 dia., per m	1	0.25	1
-	90° pipe bend of flex. pipe, 75 dia.	0.7	0.15	1
18	T-piece 75x75x75 dia.	-	0.7	40
19	Grille, 75 dia.	0.3	0	16
20	Connecting socket, metal, 75 dia.	0	0	27
21	Outlet grill (rotatable) 75 dia.	0.7	0.15	11
	Regulating valve 75x75x75 dia. with flap			
22	Position "middle"	-	0	41
	Position "right/left"	-	1	
23	Y-piece 50x75x50 dia.	-	1.3	43
24	Reducing piece, 75 dia. - 50 dia.	-	0.8	47
25	Flexible pipe, 50 dia. per m	-	1	1
-	90° pipe bend of flex. pipe, 50 dia.	-	0.8	1
26	Outlet grill (rotatable) 50 dia.	-	0.35	10
27	Connecting socket, plastic, 50 dia.	-	0	25
28	Reduction hood, 75 dia.	0	0	31
29	Silencer, 75 dia.	1	-	3
30	Connector, 75 dia.	-	-	46

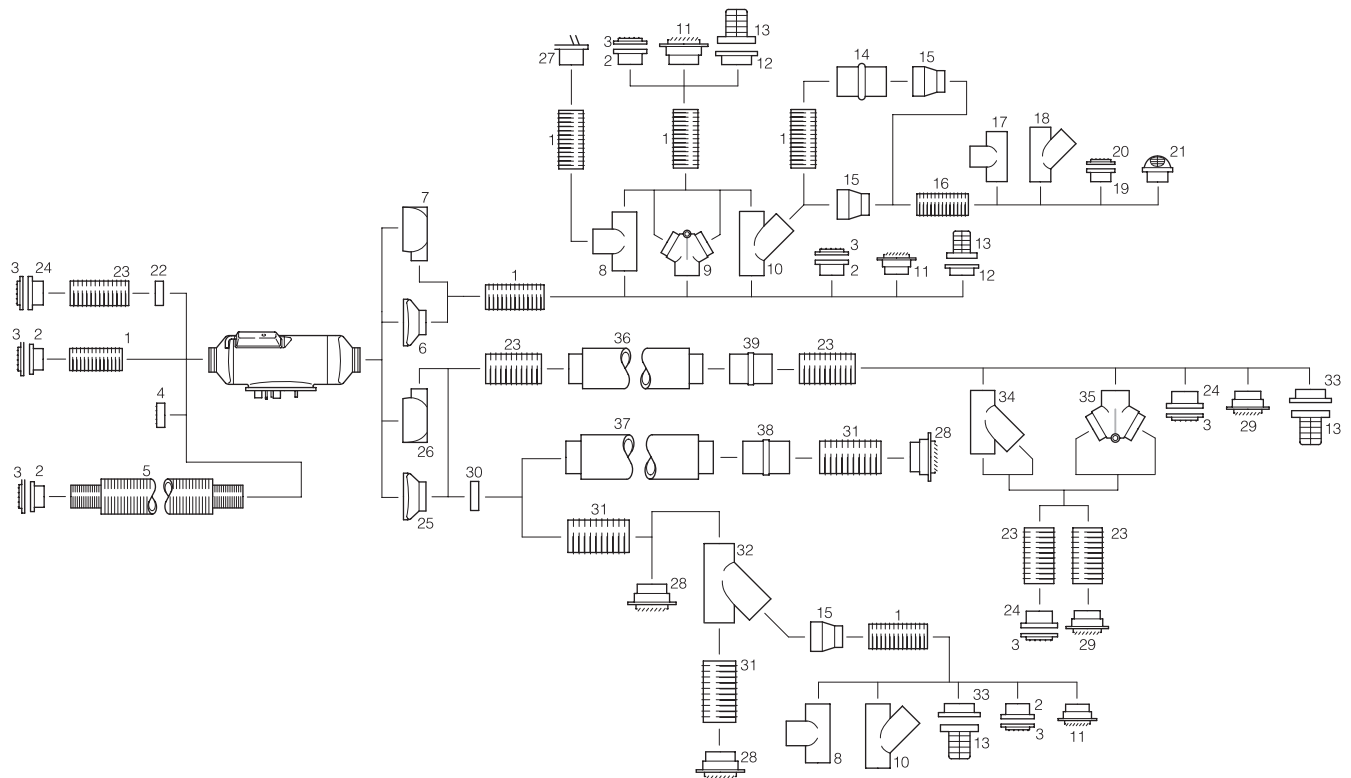
* Component is in front of the 2-duct system. In the case of a combination of air-ducting parts - dia. 60 at the intake side and dia. 75 at the exhaust side - the rating of the components at the exhaust side must be multiplied by 0.4. The heating rating 6 applies.

DUCTING RATING GUIDE FOR B3LC *COMPACT*

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

Heater Rating 13 - 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 B3LC COMPACT

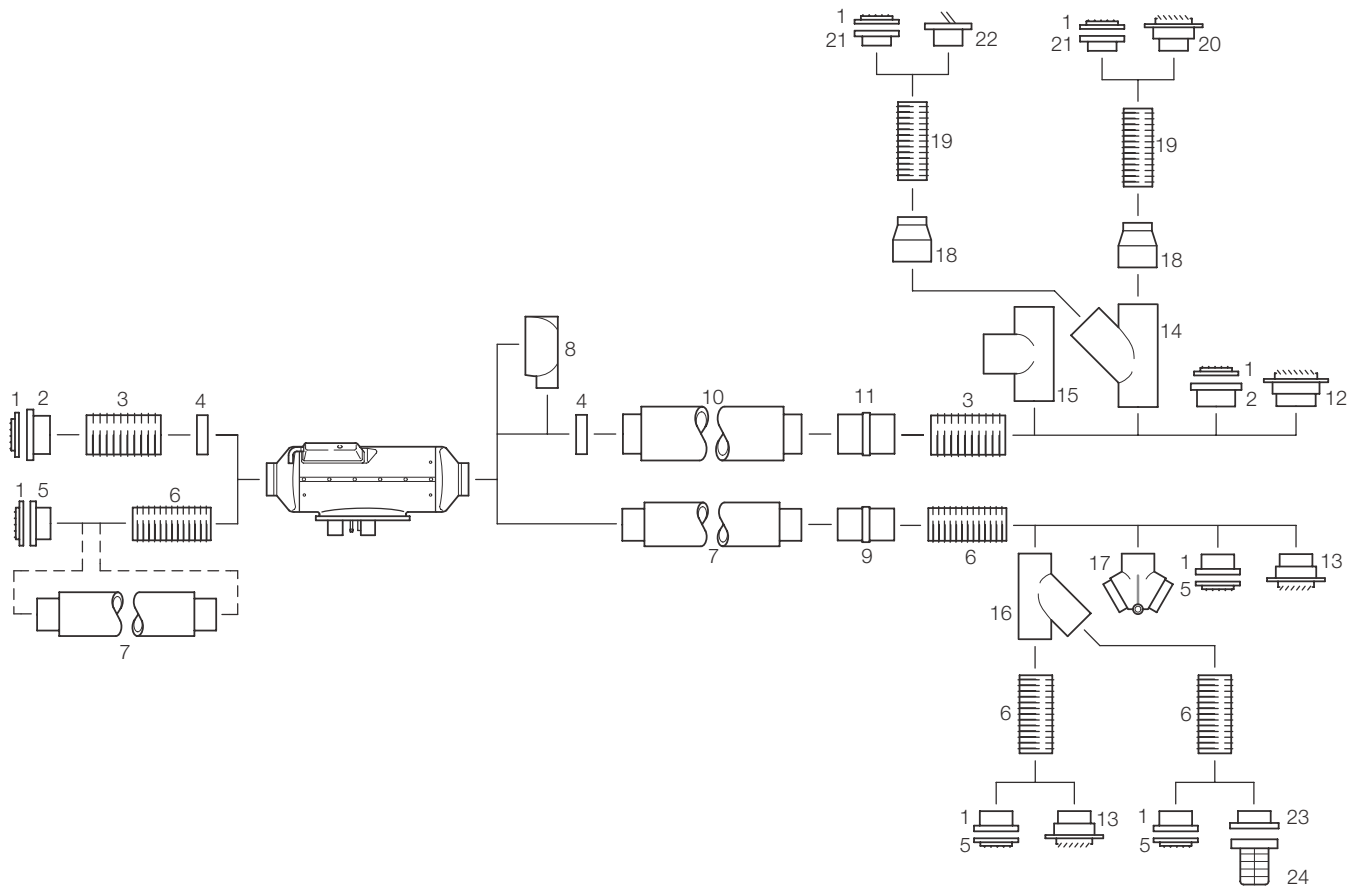
Fig. No.	DESIGNATION (measurements in millimeters)	COMPONENT RATING				See per No. Air Ducting
		1-duct		2-duct		
	Heating air ducting with reduction hood 75 dia. (heater rating 6) Heating air ducting with reduction hood 90 dia. (heater rating 13)	75	90	75	90	
1	Flexible pipe, 75 dia. per m	1	0.9	0.3	0.5	1
2	Connecting socket, metal, 75 dia.	0.3	0.3	0	0	27
3	Grille	0.8	0.5	0.3	0	16
4	Grille, 75 dia.	0.3	0.3	-	-	18
5	Intake Silencer, 75 dia.	0.5	0.5	-	-	4
6	Reduction hood, 75 dia.	0	-	-	-	31
7	Spherical reduction hood, 75 dia.	2.6	-	-	-	32
8	T-piece 75x75x75 dia.	-	-	0.5	0.5	40
9	Regulating valve 75x75x75 dia.	-	-	0.5	-	41
10	Branch piece 75x75x75 dia.	-	-	0.8	0.8	45
11	Outlet grill (rotatable) 75 dia.	0.8	-	0.5	-	11
12	Connector, 75 dia.	0.5	-	0.3	0.3	17.2
13	Outlet grill	0.3	0.3	0.2	0.2	17
14	Connector, 75 dia.	0.3	-	0	-	46
15	Reduction piece, 75 ida. - 60 dia.	-	-	0.3	0	47
16	Flexible pipe, 60 dia. per m	-	-	0.8	-	1
17	T-piece 60x60x60 dia.	-	-	0	-	40
18	Branch piece 60x60x60 dia.	-	-	0	-	45
19	Connecting socket, plastic, 60 dia.	-	-	-	-	25
20	Grille, 60 dia.	-	-	0.2	-	16
21	Outlet grill (rotatable) 60 dia.	-	-	0.8	-	10
22	Ring, 75x90 dia.	0.3	0.3	-	-	36
23	Flexible pipe, 90 dia. per m	-	1	-	-	1
24	Connecting socket, metal, 90 dia.	-	0.5	-	-	27
25	Reduction hood, 90 dia.	-	0	-	-	31
26	Spherical reduction hood, 90 dia.	-	1.4	-	-	32
27	Round outlet, 75 dia.	-	-	-	-	12
28	Outlet grill (rotatable) 100 dia.	-	2.3	-	0	11
29	Outlet grill (rotatable) 90.	-	2.8	-	0	11
30	Grille, round, 90x100 dia.*	-	0	-	-	18
31	Flexible pipe, 100 dia. per m	-	-	-	-	1
32	Y-piece, 100x100x100 dia.	-	-	-	0	45
33	Connector, 90 dia.	-	0.5	-	-	17.2
34	Y-piece	-	-	0.6	0.6	45
35	Regulating valve 90x90x90 dia. with flap	-	0			41
	Position “middle” Position “right/left”	-	1			
36	Silencer, 90 dia.	-	1	-	-	3
37	Silencer, 100 dia.	-	1	-	-	3
38	Connector, 100 dia.	-	-	-	-	46
39	Connecting socket, 60 dia.	-	-	0.3	-	46

* Pos. 30 - if used as adapter 90x100 dia., cut out the mesh.

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*

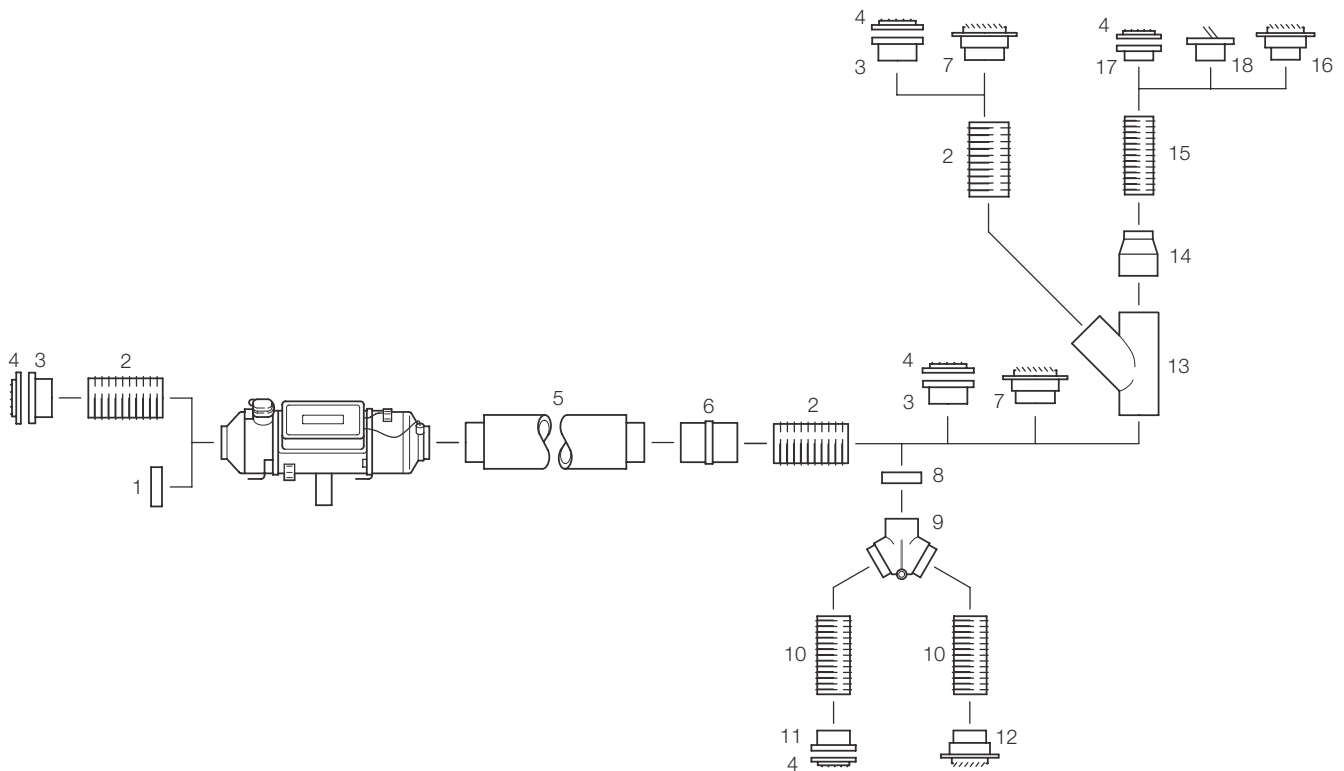
Fig. No.	DESIGNATION (measurements in millimeters)	COMPONENT RATING		See per No. Air Ducting
		1-duct	2-duct	
	Heating air ducting with reduction hood 90 dia. (heater rating 10)			
1	Grille	0.5	0.25	16
2	Connecting socket, metal, 100 dia.	0	0	26
3	Flexible pipe, 100 dia. per m	0.5	0.25	1
	Bend, 90° of flexible pipe, 100 dia.	0	0	1
4	Grille, 90x100 dia.*	0	-	18
5	Connector piece, 90 dia.	0	0	27
6	Flexible pipe, 90 dia. per m	1.0	0.3	1
	Bend, 90° of flexible pipe, 90 dia.	0.25	0	1
7	Silencer, 90 dia.	0.6	0.3	3
8	Spherical reduction hood, 90 dia.	1.5	-	31
9	Connector, 90 dia.	-	-	46
10	Silencer, 100 dia.	0.25	0	3
11	Connector, 100 dia.	-	-	46
12	Outlet grill (rotatable) 100 dia.	3.25	1.0	11
13	Outlet grill (rotatable) 90 dia.	3.25	1.0	11
14	Y-piece 100x100x100 dia.	0.5	0	45
15	T-piece 100x100x100 dia.	0.25	0	40
16	Y-piece 90x90x90 dia.	0.5	0	45
	Regulating valve 90x90x90 dia.			
17	Position "middle"	0	-	41
	Position "right/left"	1	-	
18	Reduction piece, 100 dia. - 75 dia.	2.75	1.0	47
	Flexible pipe, 75 dia. per m	-	1.5	1
19	Bend, 90° of flexible pipe, 75 dia.	-	0.5	1
20	Outlet grill (rotatable) 75 dia.	-	1.25	11
21	Connecting socket, metal, 75 dia.	-	0	27
22	Round outlet, 75 dia., closing	-	-	12
23	Connector, 90 dia.	-	-	17.2
24	Outlet grill	-	-	17

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

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.



DUCTING RATING GUIDE FOR D8LC

Fig. No.	DESIGNATION (measurements in millimeters)	COMPONENT RATING		See per No. Air Ducting
		1-duct	2-duct	
	Heating air ducting with reduction hood 100 dia. (heater rating 8)			
1	Grille, 100 dia.	0.1	-	18
2	Flexible pipe, 100 dia., per m	1.0	0.25	1
-	Pipe bend, 90°, of flex. pipe, 100 dia.	0.5	0.15	1
3	Connecting socket, metal, 100 dia.	0.18	0.1	26
4	Grille, painted, 100 dia.	1.8	0.1	16
-	Grille, nickel-plated, 100 dia.	1.8	0.1	16
5	Silencer, 100 dia.	1.1	0.25	3
6	Connector socket, 100 dia.	-	-	46
7	Outlet grill (rotatable), 100 dia.	3.25	1.1	11
8	Grille, 90x100 dia.*	0	-	18
9	Regulating valve 100x100x100 dia.	2.4	-	41
10	Flexible pipe, 90 dia., per m	1.0	0.25	1
11	Connecting socket, metal, 90 dia.	-	-	27
12	Outlet grill (rotatable) 90 dia.	-	1.4	11
13	Y-pipe 100x100x100 dia.	0	-	45
14	Reduction piece, 100 dia. - 74 dia.	-	0.55	51
15	Flexible pipe 75 dia. per m	-	1.1	1
-	Pipe bend, 90° of flex. pipe, 75 dia.	-	1.1	1
16	Outlet grill (rotatable) 75 dia.	-	-	11
17	Connector socket, 75 dia.	-	0.1	27
18	Connecting socket, metal, 75 dia.	-	0.15	12

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

Espar Products, Inc.
(800) 387-4800
(905) 670-0960
(905) 670-0728 Fax
inquiries@espar.com
www.espar.com

