

COMPLETE HEATING SYSTEMS FROM ESPAR



WEB EDITION • JANUARY 2011

A WORLD OF COMFORT



Espar Heater Systems



IMPORTANT:

SAP AND CURRENT NUMERATION:

Espar has been working with their parent company, Eberspaecher to implement a new computer system called SAP (Systems Application Products of data processing). SAP numeration will be replacing our current numeration for all inventory management functions for Espar.

This catalogue contains the new SAP part numbers.

For your convenience all manuals can be found at www.espar.com/help with heater specific parts listing.

I

1

2

3

4

5

CONTENTS

CHAPTER	TITLE	CONTENT	PAGE
I	Contents	Table of Contents	3
1	The Basics	Gasoline Air Heaters 4 Diesel Air Heaters 5 Gasoline Coolant Heaters 6 Diesel Coolant Heaters 7 Control Options and Timers 8 NITE Air Conditioning Systems 9	
	HEATERS AND KIT BREAKDOWN (Scope of Delivery)		
2	AIR HEATERS	AIRTRONIC D2, Truck Kits and High altitude kits 10 AIRTRONIC D4/B4 11 D1LC compact / B1LC compact 12 AIRTRONIC B / D5 13 D8LC 14	
3	COOLANT HEATERS	HYDRONIC B / D4 15 HYDRONIC B / D5 SC 16 Pick-Up Truck Kits (After Market) 17 HYDRONIC B / D5 S 18 HYDRONIC 10 / M, HYDRONIC M-II 19 E-Guardian 20 HYDRONIC L-II / 16 / 24 / 30 / 35 21	
4	COMBO KITS	HYDRONIC L-II Boxed Heater Kits 22 AIRTRONIC D2 and HYDRONIC D4 Truck Kit 23 AIRTRONIC D2 and HYDRONIC D5 Truck Kit 23 AIRTRONIC D2 and HYDRONIC D5 Boxed Truck Kit 23 AIRTRONIC D4 and HYDRONIC D4 Truck Kit 24 AIRTRONIC D4 and HYDRONIC D5 Truck Kit 24	
5	Accessories Parts Guide	Mounting 26-28 Bulk Wiring 29 Fuse Holders, Fuses and Breakers 30-31 Terminals and Connectors 32-35 Power Converters 12V to 24V 36 Control Options and Timers 37-39 Exhaust 40-43 Ducting 44-50 Plumbing 51-55 Testers, Adapters and Special Tools 56-57 Fuel System 58-61 Fuel System Guide 62 Ducting Rating Guide 63-75	

GASOLINE AIR HEATERS

DESCRIPTION	PART NUMBER
B1LC compact 7,500 BTU Basic Heater 12 volt with fuel pump	20 1766 05 00 00
AIRTRONIC B4 13,600 BTU Basic Heater 12 volt with fuel pump	20 1812 05 00 00
AIRTRONIC B5 18,800 BTU Basic Heater 12 volt with fuel pump with outlet hood	20 1859 05 00 00



DIESEL AIR HEATERS

DESCRIPTION	PART NUMBER
AIRTRONIC 2 - 7,500 BTU - Carb Approved	
Basic Heater 12 volt with fuel pump	25 2069 05 00 00
Basic Heater 24 volt with fuel pump	25 2070 05 00 00
AIRTRONIC 4 13,600 BTU - Carb Approved	
Basic Heater 12 volt with fuel pump	25 2113 05 00 00
Basic Heater 24 volt with fuel pump	25 2114 05 00 00
AIRTRONIC 5 18,800 BTU - Carb Approved	
Basic Heater 12 volt with fuel pump with outlet hood	25 2361 05 00 00
Basic Heater 24 volt with fuel pump with outlet hood	25 2362 05 00 00
D8LC 27,300 BTU	
Basic Heater 12 volt with control unit, internal cable harness, fuel pump, rheostat switch, external temperature sensor, combustion air tube, mounting bracket and shock mounts	25 1890 00 00 00
Basic Heater 24 volt with control unit, internal cable harness, fuel pump, rheostat switch, external temperature sensor, combustion air tube, mounting bracket and shock mounts	25 1891 00 00 00



GASOLINE COOLANT HEATERS

DESCRIPTION	PART NUMBER
HYDRONIC B4 SC 13,700 BTU Basic Heater 12 volt	20 1824 05 00 00
HYDRONIC B5 SC 17,100 BTU Basic Heater 12 volt with external fuel pump	20 1820 05 00 00
HYDRONIC B5 S 17,100 BTU Basic Heater 12 volt with external water pump and fuel pump	20 1819 05 00 00



DIESEL COOLANT HEATERS

DESCRIPTION	PART NUMBER
HYDRONIC D4 SC 13,700 BTU - Carb Approved	
Basic Heater 12 volt	25 2257 05 00 00
HYDRONIC D5 SC 17,100 BTU - Carb Approved	
Basic Heater 12 volt	25 2219 05 00 00
Basic Heater 12 volt with external fuel pump	25 2325 05 00 00
Basic Heater 24 volt with external fuel pump, coolant in/out 20mm	25 2147 05 00 00
HYDRONIC D5 S 17,100 BTU - Carb Approved	
Basic Heater 12 volt with external water pump and fuel pump	25 2217 05 00 00
Basic Heater 24 volt with external water pump and fuel pump, coolant in/out 18mm	25 2218 05 00 00
Basic Heater 24 volt with external water pump and fuel pump, coolant in/out 20mm	25 2146 05 00 00
HYDRONIC 5 Z 17,100 BTU	
Basic Add Heater 12 volt	25 2216 05 00 00
HYDRONIC 10/M 32,400 BTU	
Basic Heater 12 volt with Fuel Pump	25 2160 05 00 00
Basic Heater 24 volt with Blinkcode	25 2227 05 00 00
HYDRONIC M-II 27,300, 32,450, 42,000 BTU - Carb Approved	
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
Universal Installation Kit	25 2435 80 00 00
HYDRONIC 16 / 24 / 30 / 35	
HYDRONIC L 16	25 2486 02 00 00
HYDRONIC L 24	25 2487 02 00 00
HYDRONIC L 24 Compact	25 2487 05 00 00
Water pump Flowtronic 5000 and fuel filter pre-assembled	
HYDRONIC L 30	25 2488 02 00 00
HYDRONIC L 30 Compact	25 2488 05 00 00
Water pump Flowtronic 5000 and fuel filter pre-assembled	
HYDRONIC L 35	25 2489 02 00 00
HYDRONIC L 35 Compact	25 2489 05 00 00
Water pump Flowtronic 5000 and fuel filter pre-assembled	



SPECIAL ORDER



1

1

2

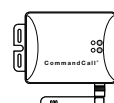
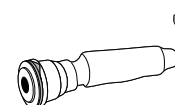
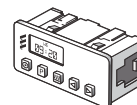
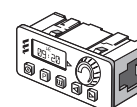
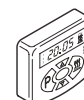
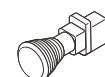
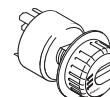
3

4

5

CONTROL OPTIONS AND TIMERS

DESCRIPTION	PART NUMBER
Rheostat Switch (AIRTRONIC 2 / 4, B1LC / B3LC compact, D5LC, D8LC) 12 volt 24 volt	 25 1895 71 00 00 25 1896 71 00 00
Mini-Controller (AIRTRONIC 2 / 4) 12 and 24 volt	 22 1000 32 07 00
Thermostat (AIRTRONIC 2 / 4, B1LC / B3LC compact, D5LC, D8LC) 12 volt 24 volt	 5670097 5670096
Push / Pull Switch (AIRTRONIC 4, D5LC, HYDRONIC 4 / 5, HYDRONIC 10, HYDRONIC 16 / 24 / 30 / 35) 12 volt 24 volt	 5670007 5670008
Mini Timer (HYDRONIC 4 / 5) Green Display 12 and 24 volt Blue Display 12 and 24 volt	 22 1000 31 60 00 22 1000 32 18 00
7-Day Timer (AIRTRONIC 2 / 4, B / D1LC compact, B / D3LC compact) 12 and 24 volt 7day Timer Timer with Bezel and Mounting Bracket (HYDRONIC 4 / 5, HYDRONIC 10, HYDRONIC 16 / 24 / 30 / 35) 12 and 24 volt 7day Timer Timer with Bezel and Mounting Bracket Espar Heater Systems	 20 2900 70 02 35 20 2900 70 02 30
Programmable timer with LVD Programmable Timer with LVD Programmable Timer with LVD, Dual Input Programmable Timer with LVD, Dual Outputs-Detached Push button with 24" leads to be used with detached timer	 25 2800 70 10 10 25 2800 70 20 20 25 2800 70 30 30 25 2800 70 30 35
Programmable timer 12 volt 24 volt	 5670433 5670434
Digi Controller 12 volt	 20 2800 70 10 00
Command Call Remote 12 & 24 volt	 25 2800 70 00 10



NITE AIR CONDITIONING SYSTEMS

TRUCK MODEL	SAP PART NUMBER	AC ONLY
Kenworth Classic Sleeper Mack Vision Mack CH & CL Sterling A-Line Volvo VN Classic Sleeper & WIA Peterbilt 387 Freightliner Underbunk Mounting	20 2800 11 0021	5611021 <i>NOTE:</i> All NITE system kits include all necessary installation hardware for air conditioning unit and heating sys- tem.
Freightliner P2	20 2800 11 0022	5611022
International 9000I Series	20 2800 11 0023	5611023
Kenworth T2000	20 2800 11 0025	5611025
Kenworth Sofa Sleeper	20 2800 11 0026	5611026
Peterbilt 379 70" Sleeper + window Peterbilt 379 63" Sleeper + window	20 2800 11 0027	5611027
Volvo VN 61" Sleeper 670 w/table Volvo VN 77" Sleeper 780 w/table	20 2800 11 0028	5611028
Western Star	20 2800 11 0029	5611029
International Prostar / Lonestar	20 2800 11 0024	5611024
Battery Box (Exclude only) for all Combo Kits	5611002	(1000010993)
Universal A.C only Kit		5611020

I

1

2

3

4

5

AIRTRONIC 2 DIESEL 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
AIRTRONIC D2 - Carb Approved												
Diesel Basic Heater 12V with fuel pump	25 2069 05 0000	•										•
Diesel Basic Heater 24V with fuel pump	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 Camper - Carb Approved												
Diesel Camper Heater 12V with fuel pump	25 2326 05 0000	•										•
JE Universal Installation Kit 12V	25 2326 80 0000		•	•	•			•	•	•	•	
AIRTRONIC D2 - Carb Approved												
Conventional Truck Kit 12V w/Digi Controller w/High altitude pump	20 2820 69 0228	•	•	•	•	•	•	•	•	•	•	•
Conventional HAZMAT Truck Kit 12V	20 2820 69 0250	•	•	•	•	•		•	•	•	•	•
Conventional Truck Kit 12V w/Digi Controller	20 2820 69 0260	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 12V w/Digi Controller, no fuel pick-up pipe	20 2820 69 0261	•	•	•	•	•	•		•	•	•	•
Conventional Truck Kit 12V w/Thermostat	20 2820 69 0281	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 12V w/Thermostat and 90° outlet hood	20 2820 69 0284	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 12V w/Mini-Controller	20 2820 69 0285	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 12V w/7-Day Timer	20 2820 69 0286	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 12V w/Mini-Controller and 90° outlet hood	20 2820 69 0287	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 12V w/90° outlet hood (no fuel pick-up)	20 2820 69 0288	•	•	•	•	•		•	•	•	•	•
Conventional Truck Kit 12V w/On/Off Thermostat (no fuel pick-up)	20 2820 69 0290	•	•	•	•	•	•		•	•	•	•
Conventional Truck Kit 12V w/Mini-Controller and pick-up pipe for vent fitting	20 2820 69 0291	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 12V w/Thermostat, no fuel pick-up pipe	20 2820 69 0295	•	•	•	•	•	•		•	•	•	•
Conventional Truck Kit 12V w/Mini-Controller, no fuel pick-up pipe	20 2820 69 0296	•	•	•	•	•	•		•	•	•	•
Conventional Truck Kit 24V w/Thermostat	20 2820 70 0281	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 24V w/Mini-Controller	20 2820 70 0285	•	•	•	•	•	•	•	•	•	•	•
High Altitude Kits												
With high altitude fuel pump	24 0222 00 00 00											
With high altitude compensator, no extra fuel pump needed	20 2900 70 00 07											
Only heaters that show "H-Kit" on their factory label	22 1000 33 22 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

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

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												
Diesel Basic Heater 12V with fuel pump	25 2113 05 00 00	•										•
Diesel Basic Heater 24V with fuel pump	25 2114 05 00 00	•										•
Diesel Basic Heater 12V "PLUS" version with fuel pump	25 2484 05 00 00	•										•
Diesel Basic Heater 12V "S" version with fuel pump	25 2144 05 00 00	•										•
Diesel Camper Heater PLUS 12V with fuel pump	25 2327 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												
Truck Kit 12V no controls	20 2821 13 04 20	•	•	•	•	•		•	•	•	•	•
Truck Kit 12 volt with Digi-Controller	20 2821 13 04 70	•	•	•	•	•	•	•	•	•	•	•
Truck Kit 12V w/Digi Controller, no fuel pick-up pipe	20 2821 13 04 71	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 12V w/Thermostat	20 2821 13 04 81	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 12V w/Mini-Controller	20 2821 13 04 85	•	•	•	•	•	•	•	•	•	•	•
Conventional Truck Kit 24V w/Mini-Controller	20 2821 14 04 85	•	•	•	•	•	•	•	•	•	•	•
AIRTRONIC 4 CARGO KITS												
Cargo Installation Kit 12 volt 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
1.5mm 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.

 1
1
2
3
4
5

D1LC compact Diesel Air Heater 7,500 BTU
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
D1LC compact												
D1LC Compact 12 volt with fuel pump (limited in stock)	25 1976 05 00 00	•										•
B1LC compact												
Basic Heater 12 volt with fuel pump	20 1766 05 00 00	•										•
Universal Installation Kit 12 volt	20 2819 76 01 80		•	•	•				•	•	•	•

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
 1.5mm 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												
Basic Heater 12V with fuel pump with outlet hood	20 1859 05 00 00	•										•
AIRTRONIC D5 - Carb Approved												
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												
JE Universal Installation Kit 12V and 24V	25 2361 80 00 00		•	•	•				•	•	•	
Espar Universal Installation Kit 12V and 24V	20 2823 61 05 80		•	•	•			•	•	•	•	
AIRTRONIC D5 Truck KITS - Carb Approved												
Conventional Truck Kit 12V w/Thermostat	20 2823 61 05 11	•	•	•			•	•	•	•	•	•
CARGO KITS												
Inside Trailer 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
1.5mm 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	25 1688 50 00 45
	Fuel Pump	22 4603 01 00 00
	Rheostat Switch	25 1895 71 00 00
	External Temperature Sensor	25 1774 89 03 00
	Combustion Air Tube	10 2114 25 00 00
	Shock Mounts	330 09 002
	Mounting Bracket (large)	25 1244 05 00 02
	Mounting Bracket (small)	25 1728 05 00 01
Basic Heater 24 volt		25 1891 00 00 00
INCLUDES:	Control Unit	25 1689 50 00 37
	Fuel Pump	22 4604 01 00 00
	Rheostat Switch	25 1896 71 00 00
	External Temperature Sensor	25 1774 89 03 00
	Combustion Air Tube	10 2114 25 00 00
	Shock Mounts	330 09 002
	Mounting Bracket (large)	25 1244 05 00 02
	Mounting Bracket (small)	25 1728 05 00 01
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
	Rheostat Switch 12 volt	25 1895 71 00 00
	Rheostat Switch 24volt	25 1896 71 00 00
	External Temperature Sensor, provided with heater	25 1774 89 03 00
	External Temperature Sensor, extension harness	25 1482 89 40 00

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 B4 SC GASOLINE COOLANT HEATER - 13,700 BTU **HYDRONIC B4 SC** DIESEL COOLANT HEATER - 13,700 BTU

SCOPE OF DELIVERY

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 B4 SC - Gasoline													
Basic Heater 12 volt	20 1824 05 00 00	•											•
Universal Installation Kit 12 volt	20 1824 80 00 00		→	•	•	•			•	•	•		
HYDRONIC D4 SC - Diesel													
Basic Heater 12 volt	25 2257 05 00 00	•											•
Universal Installation Kit 12 volt	25 2257 80 00 00		→	•	•	•			•	•	•		
HYDRONIC D4 SC TRUCK KITS Diesel													
12 volt	25 2822 57 04 20	•	•	•		•		•	•	•	•		•
Boxed 12 volt	25 2822 57 04 55	•	•	•		•		•	•	•	•	•	•

→ = Includes blower relay connection

^o **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
1.5mm 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 B5 SC GASOLINE COOLANT HEATER - 17,100 BTU

HYDRONIC D5 SC DIESEL COOLANT HEATER - 17,100 BTU

SCOPE OF DELIVERY

If installation is less than 6 feet from the fuel tank kits with external fuel pumps are not 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	•	*	•	•	•	•	•	•	•	•		•
12 volt with External Fuel Pump and 7 day timer	25 2823 25 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													
	20 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 engine preheat, refer to the Combo Truck Kits Section.

Pick-up Truck Kits

HYDRONIC D5 SC DIESEL COOLANT HEATER - 17,100 BTU

SCOPE OF DELIVERY

If installation is less than 6 feet from the fuel tank kits with external fuel pumps are not 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
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	•	•	•		•	•	•	•	•	•		•
Sprinter Conversion Kit with mini - timer													
Converts auxiliary heater into preheater (2006 and earlier models)	24 0212 00 00 00												

* = harness has blower relay

^o 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
1.5mm 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 B5 S GASOLINE COOLANT HEATER - 17,100 BTU

HYDRONIC D5 S DIESEL COOLANT HEATER - 17,100 BTU

SCOPE OF DELIVERY

If installation is less than 6 feet from the fuel tank kits with external fuel pumps are not required.

DESCRIPTION

PART NUMBER

HYDRONIC D5 S - Diesel

Basic Heater 12 volt	25 2217 05 00 00
Universal Installation Kit 12 volt	20 1819 80 00 00
Basic Heater 24 volt	25 2218 05 00 00
Universal Installation Kit 24 volt	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
---	------------------

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
Universal Installation Kit 12 volt	20 1819 80 00 00

HYDRONIC B5 S - Gasoline

12 volt with external water and fuel pump	20 1862 05 00 00
---	------------------

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

→ = includes blower relay connection

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

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

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	•	•	•		•		•	•	•	•	•	•
Universal Installation Kit	25 2435 80 00 00		*	•		•		•	•	•			
Espar Universal Install 12V with diagnosis connection	25 2800 90 10 12		•	•		•		•	•	•			
Espar Universal Install 24V with diagnosis connection	25 2800 90 10 24		•	•		•		•	•	•			

* = Harness has blower motor relay

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

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

1
1
2
3
4
5

E-Guardian DIESEL OR GAS / AIR OR WATER - BTU AMOUNT

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
E-Guardian HYDRONIC D5 KITS - Carb Approved													
Basic D5 E-Guardian 12V Kit	25 2823 25 0506	•	•	•		•		•	•	•			•
Boxed D5 E-Guardian 12V Kit	25 2823 25 0500	•	•	•		•	•	•	•	•	•	•	•
Boxed D5 E-Guardian 12V High Altitude Kit	25 2823 25 0501	•	•	•		•	•	•	•	•	•	•	•
Boxed D5 E-Guardian 12V New York Kit	25 2823 25 0505	•	•	•		•	•	•	•	•	•	•	•
E-Guardian HYDRONIC M-II KITS - Carb Approved													
Boxed M-II 8 KW Heater 12 V Kit	25 2824 70 08 00	•	•	•		•	•	•	•	•	•	•	•
Boxed M-II 10 KW Heater 12 V Kit	25 2824 34 10 00	•	•	•		•	•	•	•	•	•	•	•
Boxed M-II 12 KW Heater 12 V Kit	25 2824 72 12 00	•	•	•		•	•	•	•	•	•	•	•
Basic M-II 12 KW Heater 12 V Kit	25 2824 72 12 01	•	•	•		•		•	•	•	•		•
Boxed M-II 12 KW Heater 24 V Kit	25 2824 73 12 00	•	•	•		•	•	•	•	•	•	•	•
Boxed M-II 12 KW Heater 12 V New York Kit	25 2824 72 12 05	•	•	•		•	•	•	•	•	•	•	•

HYBERNATOR

DESCRIPTION	PART NUMBER												
Hybernator II - In Frame	25 2824 72 12 05	•	•	•		•	•		•	•		•	•
Hybernator II - Compact	Single Heater	25 2800 10 05 15	•	•	•		•	•		•	•		•
Hybernator II - Compact	Dual Heater	25 2800 10 05 25	•	•	•		•	•		•	•		•
Auxiliary Blow Kit	25 2800 90 00 19												•

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

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

HYDRONIC L-II

HYDRONIC 16

HYDRONIC 24

HYDRONIC 30

HYDRONIC 35

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 2488 05 00 00
HYDRONIC L 35	
Basic Heater 24 volt	25 2489 02 00 00
HYDRONIC L 35 Compact	
Water pump Flowtronic 5000 and fuel filter pre-assembled	25 2489 05 00 00
Accessories	
Harnesses	
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	
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

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

HYDRONIC L-II Boxed Heater 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
HYDRONIC 16 L-II Boxed Off-Highway Assembly 24V	25 2800 10 1600	•	•	•					•	•		•	•
HYDRONIC 24 L-II Boxed Off-Highway Assembly 24V	25 2800 10 2400	•	•	•					•	•		•	•
HYDRONIC 30 L-II Boxed Off-Highway Assembly 24V	25 2800 10 3000	•	•	•					•	•		•	•
HYDRONIC 35 L-II Boxed Off-Highway Assembly 24V	25 2800 10 3500	•	•	•					•	•		•	•
HYDRONIC 16 L-II Boxed Off-Highway Assembly 12V	25 2800 10 1612	•	•	•					•	•		•	•
HYDRONIC 24 L-II Boxed Off-Highway Assembly 12V	25 2800 10 2412	•	•	•					•	•		•	•
HYDRONIC 30 L-II Boxed Off-Highway Assembly 12V	25 2800 10 3012	•	•	•					•	•		•	•
HYDRONIC 35 L-II Boxed Off-Highway Assembly 12V	25 2800 10 3512	•	•	•					•	•		•	•

- 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

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

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 / AIRTRONIC 4/5 Combo Kits DIESEL 12 volt only

SCOPE OF DELIVERY

DESCRIPTION			PART NUMBER										
AIRTRONIC 2 / HYDRONIC 4 - Carb Approved													
Truck Kit	INCLUDES:	7-Day Timer Thermostat 12 volt Inside Frame Mounting Bracket	20 2812 15 20 40	•	•	•	•	•	d	•	•	•	•
Boxed Truck Kit	INCLUDES:	7-Day Timer Thermostat 12 volt	20 2812 15 20 41	•	•	•	•	•	d	•	•	•	•
AIRTRONIC 2 / HYDRONIC 5 - Carb Approved													
Truck Kit	INCLUDES:	7-Day Timer Thermostat 12 volt	20 2812 15 20 50	•	•	•	•	•	d	•	•	•	•
Truck Kit	INCLUDES:	7-Day Timer with Bracket Mini Controller	20 2812 15 20 56	•	•	•	•	•	d	•	•	•	•
Truck Kit with External Fuel Pump	INCLUDES:	7-Day Timer with Bracket Mini Controller	20 2812 15 20 58	•	•	•	•	•	d	•	•	•	•
Boxed Truck Kit	INCLUDES:	7-Day Timer with Bracket Thermostat 12 volt	20 2812 15 20 51	•	•	•	•	•	d	•	•	•	•
Boxed Truck Kit	INCLUDES:	7-Day Timer with Bracket Mini Controller	20 2812 15 20 57	•	•	•	•	•	d	•	•	•	•
NOTE: If mounting the HYDRONIC 5 on the cross frame the "L" Bracket is required, part number 20 2900 40 01 03													

d = double fuel Pickup pipe

AIRTRONIC 4 / HYDRONIC 4/5 Combo Kits DIESEL 12 Volt only

SCOPE OF DELIVERY

DESCRIPTION				PART NUMBER													
AIRTRONIC 4 / HYDRONIC 4 - Carb Approved																	
Truck Kit	INCLUDES:	7-Day Timer with Bracket Mini Controller	20 2812 15 40 40	•	•	•		•	•	d	•	•	•		•		
Boxed Truck Kit	INCLUDES:	7-Day Timer with Bracket Mini Controller	20 2812 15 40 41	•	•	•		•	•	d	•	•	•	•	•		
AIRTRONIC 4 / HYDRONIC 5 - Carb Approved																	
Truck Kit	INCLUDES:	7-Day Timer with Bracket Mini Controller	20 2812 15 40 50	•	•	•		•	•	d	•	•	•		•		
Boxed Truck Kit	INCLUDES:	7-Day Timer with Bracket Mini Controller	20 2812 15 40 51	•	•	•		•	•	d	•	•	•	•	•		
NOTE: If mounting the HYDRONIC 5 on the cross frame the “L” Bracket is required, part number 20 2900 40 01 03																	

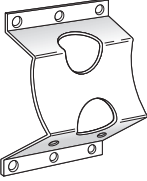
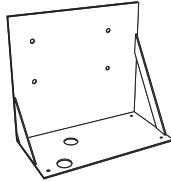
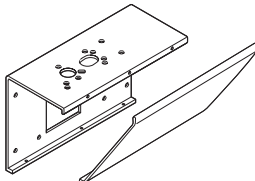
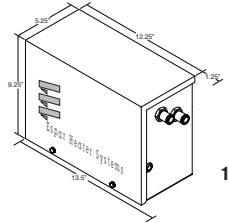
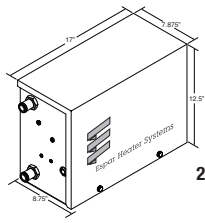
ACCESSORIES PARTS GUIDE

CHAPTER	TITLE	CONTENT	PAGE
5	PARTS GUIDE		
		Mounting	26-28
		Bulk Wiring	29
		Fuse Holders, Fuses and Breakers	30-31
		Terminals and Connectors	32-35
		Power Converter	36
		Control Options and Timers	37-39
		Exhaust	40-43
		Ducting	44-50
		Plumbing	51-55
		Testers, Adapters and Special Tools	56-57
		Fuel System	58-61
		Fuel System Guide	62
		Ducting Rating Guide	63-75
		AIRTRONIC 2	64-65
		AIRTRONIC 4	66-67
		B1LC compact	68-69
		B3LC compact	70-71
		B/D5LC	72-73
		D8LC	74-75

PART NUMBER

[illegible]

MOUNTING PARTS

		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II	
PART NUMBER												
Mounting Bracket for Coolant Pump D24W/D5W (Old style heaters)	25 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 Bracket	25 1816 80 00 01								•			
												
Cargo Bracket	20 2900 40 00 34				•	•						1
Cargo Bracket Support	20 2900 40 00 35				•	•						2
												
Box Base with shock mounts	20 2900 40 90 01								•			2
Box Lid	20 2900 40 00 70								•			2
Hydronic 5 Box Base *	25 2800 40 05 02							•				1
Hydronic 5 Box Lid *	25 2800 40 05 01							•				1
*Also requires: Silicone Seal - Exhaust	25 1216 88 03 01							•				
Grommet Harness	20 2900 60 10 61							•				
Grommet Fuel	20 1280 09 01 03							•				
 												

1
1
2
3
4
5

PART NUMBER

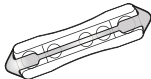
The image shows five different types of bolts and nuts, labeled 1 through 5. Diagram 1 shows a hexagonal nut and a hexagonal bolt. Diagram 2 shows a flange nut and a flange bolt. Diagram 3 shows a large cylindrical nut and a large cylindrical bolt. Diagram 4 shows a flange nut and a flange bolt. Diagram 5 shows a small cylindrical nut and a small cylindrical bolt.

BULK WIRING

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	
Bulk Wiring												
Rolls are available (984 feet/roll)												
8ga - 2 Core Red, Brown	20 2900 70 59 02	•	•	•	•	•	•	•	•	•		per ft.
10ga - 1 Core Red	5670136	•	•	•	•	•	•	•	•	•		per ft.
10ga - 1 Core Brown	20 2900 70 59 07	•	•	•	•	•	•	•	•	•		per ft.
10ga - 2 Core Red, Brown	20 2900 70 59 03	•	•	•	•	•	•	•	•	•		per ft.
12ga - 2 Core Red, Brown	20 2900 70 59 23	•	•	•	•	•	•	•	•	•		per ft.
14ga - 2 Core Red, Brown	20 2900 70 59 05	•	•	•	•	•	•	•	•	•		per ft.
16ga - 2 Core Green, Brown	20 2900 70 09 15	•	•	•	•	•	•	•	•	•		per ft.
18ga - 2 Core Green, Brown	20 2900 50 59 01	•	•	•	•	•	•	•	•	•		per ft.
18ga - 3 Core Red, Brown, Yellow	20 2900 70 09 17	•	•	•	•	•	•	•	•	•		per ft.
18ga - 4 Core Red, Brown, Yellow, Blue	20 2900 70 09 13	•	•	•	•	•	•	•	•	•		per ft.
18ga - 6 Core Red, Brown, Yellow, Blue, Grey, Black	20 2900 70 90 09	•	•	•	•	•	•	•	•	•		per ft.
18ga - 7 Core Red, Brown, Yellow, Blue, Grey, Brown w/white stripe, Grey w/red stripe.	20 2900 70 09 14	•	•	•	•	•	•	•	•	•		per ft.

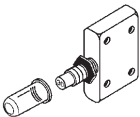
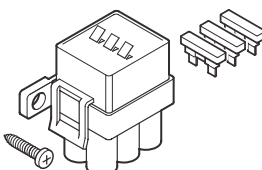
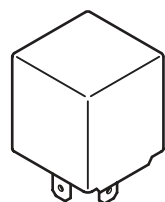


FUSE HOLDERS, FUSES, BREAKERS

		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
	PART NUMBER										
Holder for Ceramic Fuse with 16 AMP Fuse	204 00 099	•	•	•	•	•	•	•	•	•	
	204 21 009	•	•	•	•	•	•	•	•	•	
	2199984	•	•	•	•	•	•	•	•	•	
	5670050	•	•	•	•	•	•	•	•	•	
Fuse T6 3 AMP for Thermostat	460 26 001							•	•		
	5670051	•	•	•	•	•	•	•	•	•	
Base, Fuse Holder 12033769	20 2900 70 70 17	•	•	•	•	•	•	•	•	•	
Cover, Fuse Holder 12033731	20 2900 60 70 09	•	•	•	•	•	•	•	•	•	
Terminal 12033997L	5670199	•	•	•	•	•	•	•	•	•	
	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	•	•	•	•	•	•	•	•	•	
											

1
21
1
2
3
4
5

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
	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 12 volt (D3L/D12W)	203 00 065						•	•			
Relay 24 volt (D1L/D3L/V7S/D12W)	203 00 066						•	•			
											

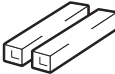
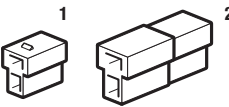
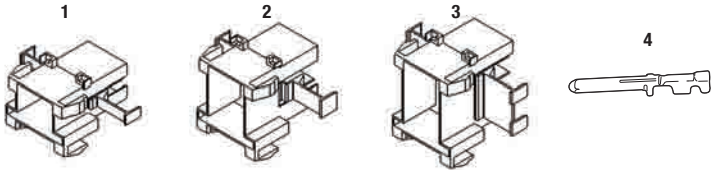
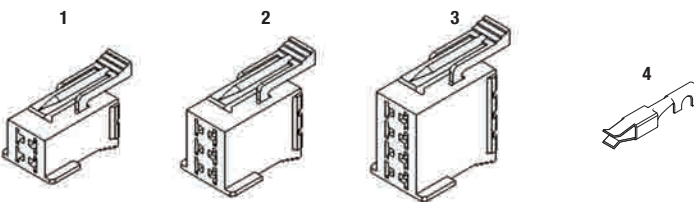
 1
2

 1
1
2
3
4
5

PART NUMBER

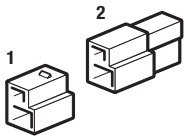
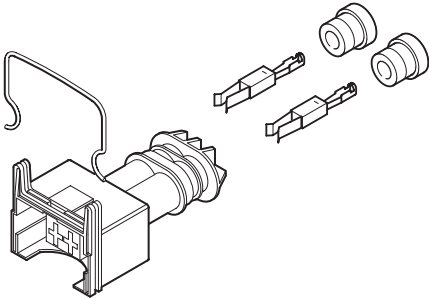
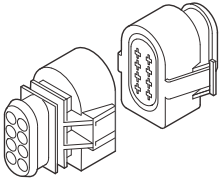
[illegible]

TERMINALS AND CONNECTORS

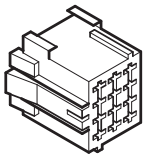
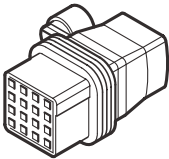
		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II	
	PART NUMBER											
Rubber Boot for Fuel Metering Pump	320 31 120	•	•	•	•	•	•	•	•	•		
												
Plug and Socket Connector	206 00 040	•	•	•	•	•	•	•	•	•		
												
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
												

1
1
2
3
4
5

TERMINALS AND CONNECTORS

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
Socket Housing, Female 2 Pin for Sensor	206 31 018	•		•							
Socket Housing, Male 2 Pin for Sensor	206 31 306	•	•	•	•						
Socket Housing, 2 Pin with Spring (FMP Connection)	206 31 290	•	•					•	•	•	
Mini Terminal, Female AWG 16-20	206 00 180	•	•					•	•	•	
Socket Housing M Stribel Control	206 31 319								•		
Plug for 206 31 319 Stribel	206 75 042							•			
											
Fuel Metering Pump Housing Kit INCLUDES: terminals and seals.	22 1000 31 87 00	•	•			•	•	•	•		
											
Hydronic 4/5 Main harness connector Kit	22 1000 30 10 21							•			
											

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
	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	22 1000 31 93 00	•	•								
											

POWER CONVERTERS 12V TO 24V

	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



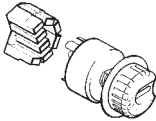
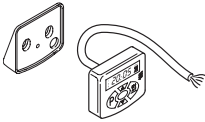
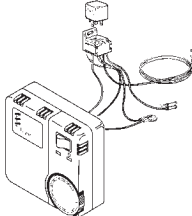
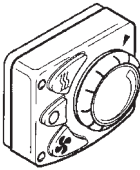
12V to 24V Power Converter Asmbly 3601	25 2800 90 1224
12V to 24V Power Harness for 5673601	25 2800 70 16 00
Power Converter 12 - 24 488W	5673601



40 AMP Fuse	5670024
Heat sink	20 2900 40 00 04



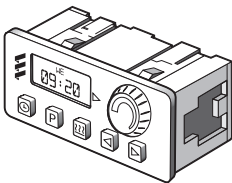
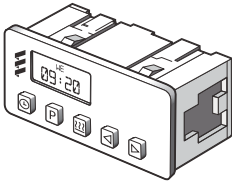
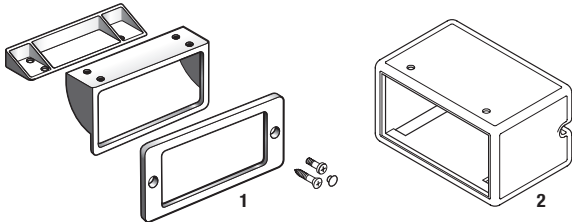
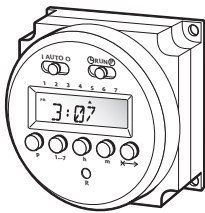
CONTROL OPTIONS AND TIMERS

		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
PART NUMBER											
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	•	•	•	•						
Universal Switch for D1L											
											
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							•	•	•	•
											
Thermostat 12 volt	5670097	•	•	•	•	•					
Thermostat 24 volt	5670096	•	•	•	•	•					
Thermostat Harness (4.6M or 15 feet)	20 2900 70 01 09			•		•					
Knob	2199981										
											
Thermostat Bunk Relay Kit 12 volt	20 2900 70 00 97								•		
Thermostat only (On/Off)	2199982	•	•	•	•	•	•	•	•	•	•
											
Mini Controller 12 and 24 volt	22 1000 32 07 00	•	•			•					
Mini Controller Knob	5699849	•	•			•					
											
Digi Controller	20 2800 70 1000	•	•			•					
											

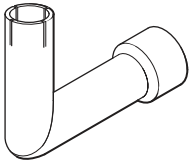
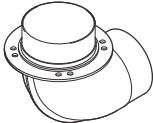
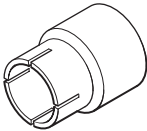
PART NUMBER

[illegible]

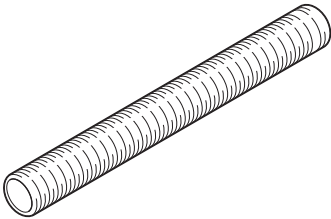
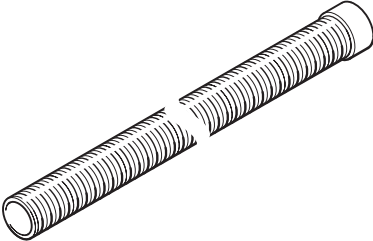
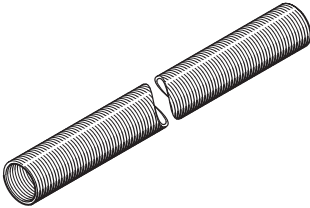
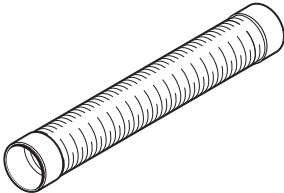
CONTROL OPTIONS AND TIMERS

			AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II	
PART NUMBER													
AIR HEATERS													
7-Day Timer with Diagnostics 12 and 24 volt	22 1000 30 40 00		•	•	•	•	•	•					
7-Day Timer Kit	20 2900 70 02 35		•	•	•	•	•	•					
													
COOLANT HEATERS													
7-Day Timer with Diagnostics 12 and 24 volt	22 1000 30 36 00								•	•	•	•	
7-Day Timer Kit	20 2900 70 02 30								•	•	•	•	
													
7-DAY TIMER ACCESSORIES Complete Bracket Kit with Cosmetic Bezel and Bracket	25 1482 70 01 00		•	•	•	•	•	•	•	•	•	•	1
Housing for 7-Day Timer	25 1482 89 00 15		•	•	•	•	•	•	•	•	•	•	2
Replacement Bulbs 12 volt (5/bag)	22 1000 30 88 00												
Replacement Bulbs 24 volt (5/bag)	22 1000 30 89 00												
													
Programmable Timer	12 V	5670433							•	•	•	•	
	24 V	5670434							•	•	•	•	
													

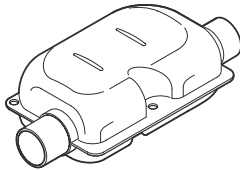
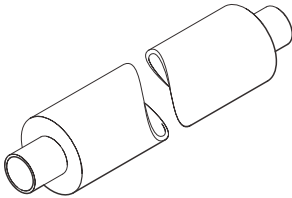
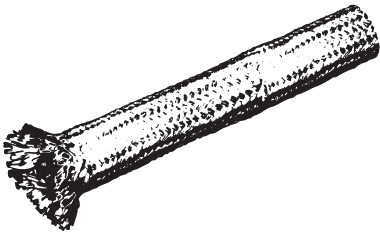
EXHAUST

		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
PART NUMBER											
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

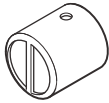
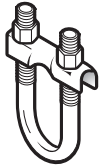
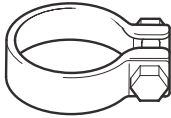
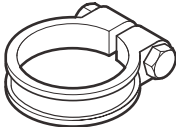
		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II	
	PART NUMBER											
Flexible Stainless Steel Exhaust 24mm (1.3 mtr)	360 61 557	•	•	•	•	•		•				each
												
Exhaust Flex Hose 24mm x 1.3M with end cap	25 1774 80 02 00	•	•	•	•	•		•				
Exhaust Flex Hose 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
Exhaust Flex Hose 24mm (one layer)	360 61 550	•	•	•	•	•		•				per mtr
Exhaust Flex Hose 24mm (two layer)	360 61 299	•	•	•	•	•		•				per mtr
Exhaust Flex Hose 30mm (one layer)	360 61 580								•		•	per mtr
Exhaust Flex Hose 30mm (two layers)	360 61 300	•	•	•	•	•			•		•	per mtr
												
Flexible Stainless Steel Exhaust 70mm (direct connect)	5530015									•		per mtr
												

EXHAUST

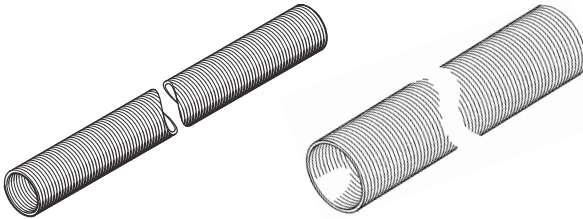
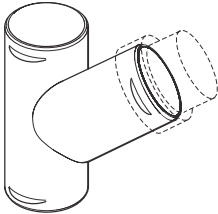
		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II	
PART NUMBER												
Exhaust Muffler for 24mm (Slimmer-New)	22 1000 40 09 00	•	•	•	•	•		•				
Exhaust Muffler for 24mm (Wider-Old)	25 1864 81 01 00	•	•	•	•	•		•				
												
Exhaust Muffler 30mm	25 1226 89 58 00	•	•	•	•	•						
Exhaust Muffler 40mm	25 1570 89 01 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.
												

1
1
2
3
4
5

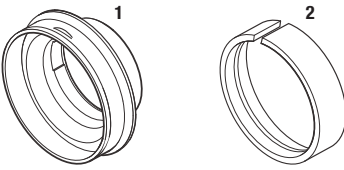
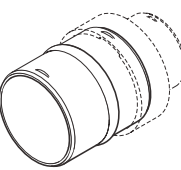
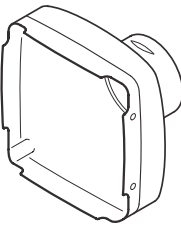
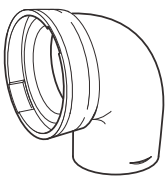
EXHAUST

		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
	PART NUMBER										
Exhaust End Cap for 24mm	25 1482 80 00 01	•	•	•	•	•		•			
											
Plastic Air Intake End Cap with Crossbar 20mm	25 1688 80 12 01			•				•			
Exhaust End Cap with Crossbar 24mm	25 1729 80 06 00	•	•	•	•	•		•			
Plastic Air Intake End Cap with Crossbar 25mm	25 1729 89 00 02	•	•		•	•					
Exhaust End Cap with Crossbar 30mm	25 1785 80 02 00								•		•
Exhaust End Cap with Crossbar 46mm	22 1000 40 02 00						•				
											
Exhaust Clamp for 70mm	5530004										•
											
Clamp for Exhaust Pipe 26mm	152 61 102			•	•	•		•			
											
Clamp for Exhaust Pipe 27mm-30mm	152 09 002								•		•
Clamp for Exhaust Pipe 30mm-33mm	152 09 003								•		•
Clamp for Exhaust Pipe 32mm-50mm	10 2067 03 20 50						•				
											

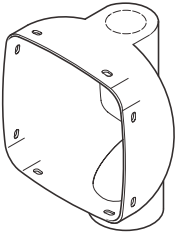
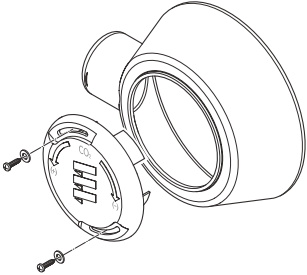
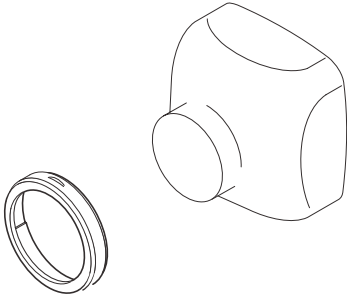
DUCTING

	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 Hose (50mm or 2.0")	5550006	•	•	•	•	•	•					per ft.
Flexible Hose (75mm or 3.0")	5550007	•	•	•	•	•	•					per ft.
Flexible Hose (100mm or 4.0")	5550008	•	•	•	•	•	•					per ft.
Flexible Air Hose (aluminum, paper, plastic) (50mm or 2.0")	10 2114 29 00 00	•	•	•	•	•	•					per mtr.
Flexible Air Hose (aluminum, paper, plastic) (60mm or 2.4")	10 2114 31 00 00	•	•	•	•	•	•					per mtr.
Flexible Air Hose (aluminum, paper, plastic) (75mm or 3.0")	10 2114 34 00 00	•	•	•	•	•	•					per mtr.
Flexible Air Hose (aluminum, paper, plastic) (90mm or 3.5")	10 2114 37 00 00	•	•	•	•	•	•					per mtr.
												
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	•	•	•	•	•	•					
												

DUCTING

		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II	
	PART NUMBER											
Hood Adapter (60-75mm or 2.4"-3")	25 1688 89 00 10	•		•								1
Hood Adapter (90-100mm or 3.5"-4") black plastic	20 1607 80 00 01		•		•	•						2
Hood Adapter (100mm or 4")	20 2900 50 20 02		•		•	•						2
												
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		•		•							
												

DUCTING

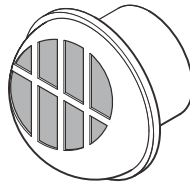
PART NUMBER		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
90o Air Outlet Hood 60mm Outlet	22 1000 01 00 20	•									
90o Air Outlet Hood 75mm Outlet	22 1000 01 00 22		•								
90o Air Outlet Hood 90mm Outlet	22 1000 01 00 23		•								
90o Air Outlet Hood 60mm Outlet	25 1688 89 01 01			•							
90o Air Outlet Hood 75mm Outlet	22 1000 01 00 02				•						
90o Air Outlet Hood 90mm Outlet	22 1000 01 00 03				•						
90o 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	22 1000 01 00 08	•		•							
Adapter Ring di=75mm, da=90mm	25 1822 89 00 01	•	•	•	•						
Adapter Ring di=90mm, da=100mm	20 1607 80 00 01		•		•	•					
											

1
1
2
3
4
5

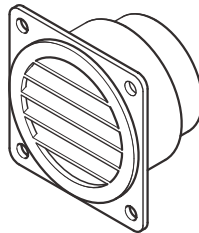
DUCTING

PART NUMBER

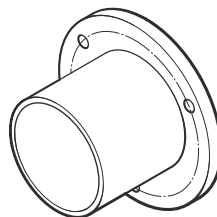
Deflector (60mm or 2.4")	20 2800 50 02 00	•	•	•	•	•							
Deflector (50mm or 2")	20 1575 80 08 00	•	•	•	•	•	•						



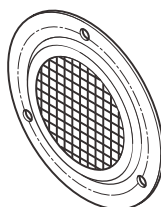
Adjustable Grille (75-100mm or 3-4")	22 1050 89 21 00	•	•	•	•	•	•	•	•	•	•		
Adjustable Grille (90-100mm or 3.5-4")	20 1609 80 09 00		•		•	•							



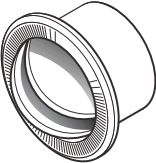
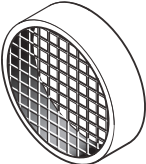
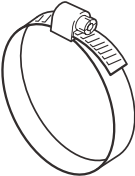
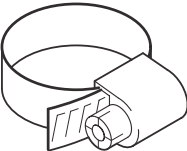
Hose Flange for Outlet Grille for Duct Size 50mm (2")	20 1575 80 08 01	•	•	•	•	•	•						
Hose Flange for Outlet Grille for Duct Size 60mm (2.4")	20 1577 89 06 01	•	•	•	•	•	•						
Hose Flange for Outlet Grille for Duct Size 75mm (3")	25 1226 89 00 12	•	•	•	•	•	•						
Hose Flange for Outlet Grille for 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	•	•	•	•	•							

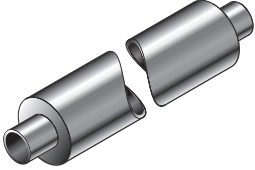
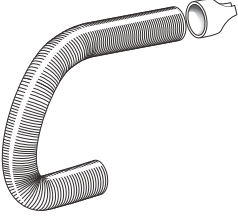
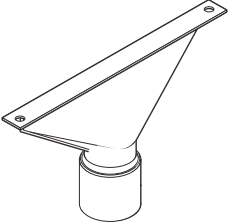
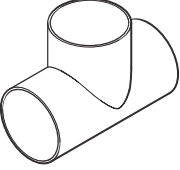
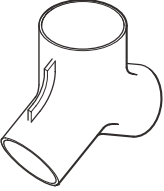


DUCTING

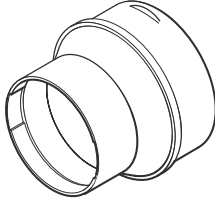
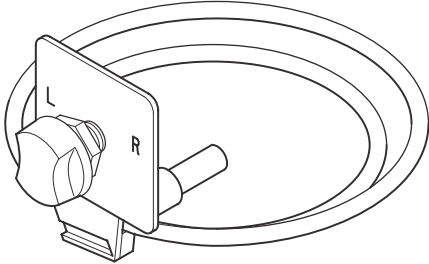
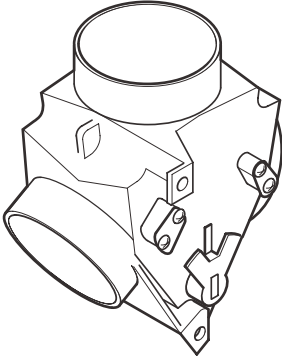
		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
	PART NUMBER										
French Closeable Outlet with Flange (50mm or 2" Ducting)	2199985	•	•	•	•	•	•				
French Closeable Outlet with Flange (75mm or 3" Ducting)	330 31 311	•	•	•	•	•	•				
French Closeable Outlet with Flange (100mm or 4" Ducting)	2199986	•	•	•	•	•	•				
											
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 70-90mm (pump 25 1578 25)	10 2065 07 00 90									•	
Ducting Clamp 90-110mm (pump 25 1371 89 34 00)	10 2065 09 01 10									•	
Ducting Clamp 32-50mm	10 2064 03 20 50	•	•	•	•	•	•	•	•	•	•
Ducting Clamp 33-57mm	5550001	•	•	•	•	•	•	•	•	•	•
											

1
1
2
3
4
5

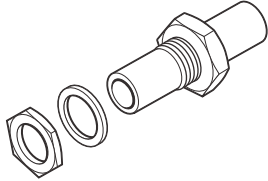
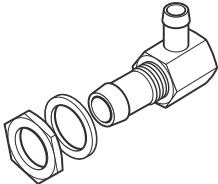
DUCTING

		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II	
PART NUMBER												
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						•					
												
Defrosting Nozzle 50mm ID	25 1226 89 21 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	•	•	•	•	•	•					
												

DUCTING

			AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
PART NUMBER												
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	•	•	•	•	•					
												

PLUMBING

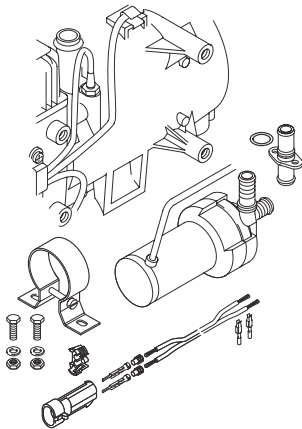
		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
	PART NUMBER										
Brass Pump Fittings 3/4" NPT x 3/4" Barb	20 2900 60 10 02							•	•		•
Brass Pump Fitting 3/4" NPT x 1" Barb	20 2900 60 10 15							•	•		•
											
Bulk Head Fitting 3/4"	20 2900 60 10 10							•	•		•
Bulk Head Fitting 3/4" to 1"	20 2900 60 10 57							•			•
											
Bulk Head Fitting 3/4" x 90o	20 2900 60 10 37							•	•		•
											

PART NUMBER

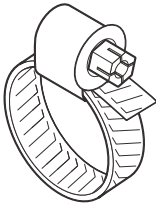
[illegible]

PLUMBING

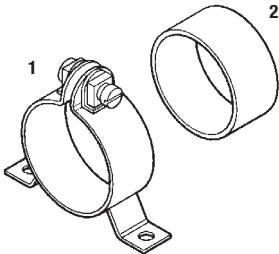
	PART NUMBER
Conversion Kit for Water Pump	22 1000 10 01 00



Clamp 16-25mm ID 10	2064 01 60 25	•	•	•	•	•	•	•	•	•
Clamp 20-32mm ID 10	2065 02 00 32	•	•	•	•	•	•	•	•	•



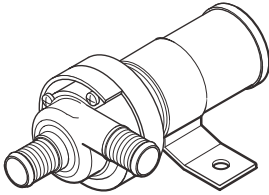
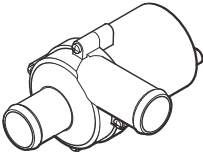
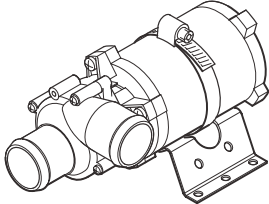
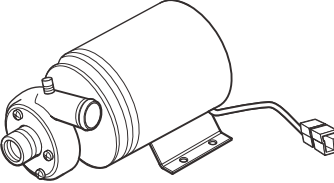
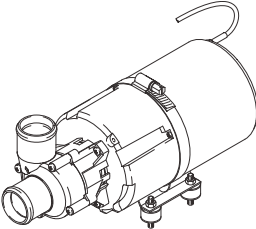
Pump Clamp 48mm 22	1000 50 10 00	•	•							
Rubber Ring for Large FMP	20 1449 00 10 01	•								



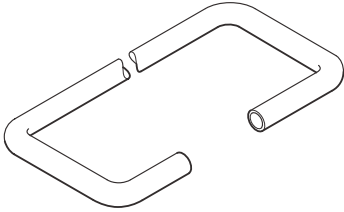
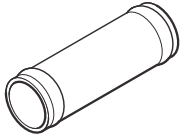
AIRTRONIC D2
AIRTRONIC D4
B1LC compact
B3LC compact
AIRTRONIC D5
D8LC
HYDRONIC 4/5
HYDRONIC 10 / M
HYDRONIC 16/24/30/35
HYDRONIC M-II

1
2

PLUMBING

		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
PART NUMBER											
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 (330 00 012)	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 (2280 L/hr)	20 2900 60 01 39								•		•
High Capacity Pump 24 volt (2280 L/hr)	20 2900 70 01 40								•		•
											
Flowtronic Coolant Pump 24 volt (6000 L/hr)	25 1818 27 00 00									•	
											

PLUMBING

		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
PART NUMBER											
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= 15mm	20 1533 88 00 03							•	•		•
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							•	•		•
Steel Hose Connector (1:1 inch)	20 2900 60 10 22								•		•
											
Coolant Hose 1.5" 1mt piece	20 2900 60 10 39							•			
											

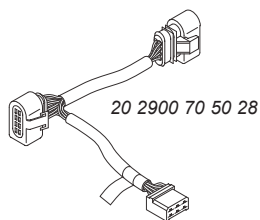
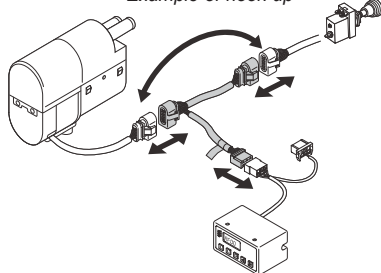
TESTERS / ADAPTERS / SPECIAL TOOLS

All adapters used with Diagnostic Unit and Edith

PART NUMBER

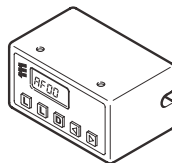
Tester Adapter	20 2900 70 50 31
Tester Adapter	20 2900 70 50 28
Tester Adapter (Round)	20 2900 70 50 30
Tester Adapter (Used with Diagnostic unit)	20 2900 70 50 36
Tester Adapter (Square)	20 2900 70 50 44
Tester Adapter (can be used with EDITH) 8pin to 6pin	20 2900 70 50 46
Tester Adapter used with EDITH	22 1000 31 86 00
Tester Adapter used with EDITH	22 1000 31 63 00
Tester Adapter	22 1000 31 66 00
Tester Adapter EDITH only	22 1000 30 69 00
Tester Adapter	25 2800 70 10 04
Tester Adapter (Park Smart)	25 2786 70 00 01

Example of hook-up



Diagnostic Unit - Can be used with adapter cables for ISO

20 2900 70 50 20

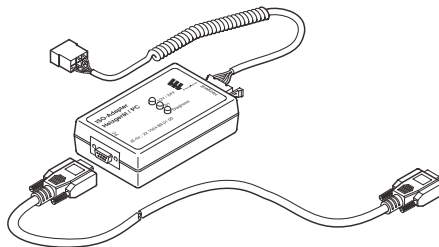


ISO - Adapter for computerized diagnostic (includes USB to serial adapter)

22 1541 89 00 00

Additional USB to Serial Adapter (For computers without serial port)

22 1543 89 00 00



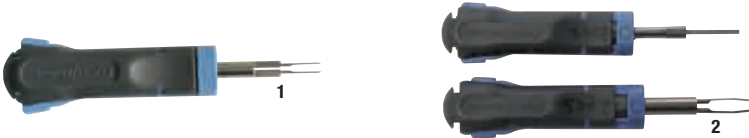
Digi Diagnostic

20 2800 70 1002



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

TESTERS / ADAPTERS / SPECIAL TOOLS

		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
PART NUMBER											
Brass Glow Plug Brush	5590002	•	•	•	•	•	•	•			
											
Fuel Line Cutter	5520003	•	•	•	•	•	•	•	•	•	•
											
Terminal Removal Tool 1.6mm	206 00 205							•			1
Terminal Removal Tool 2.8mm	206 00 215	•	•	•	•	•	•	•	•	•	2
											
Wire Crimper	5670003	•	•	•	•	•	•	•	•	•	•
											
AIRTRONIC D2 Demo Kit 12 volt	20 2820 69 02 83										
											

PART NUMBER

**NO
GRAPHIC**

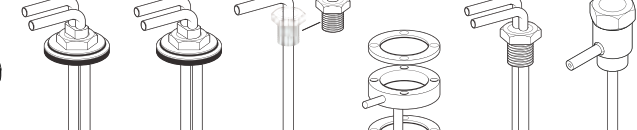
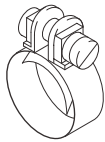
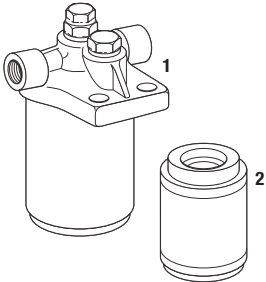
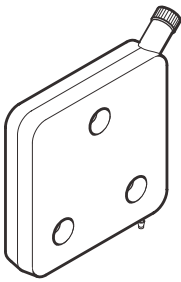
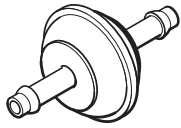
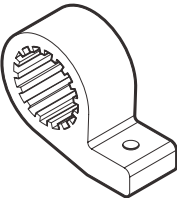
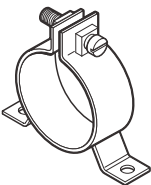
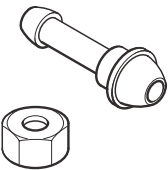
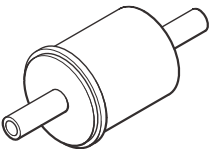
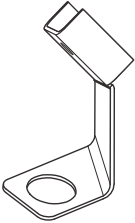


Diagram illustrating the exploded view of the 1000 Series 1/2" tool, showing components 1 through 10. The components are arranged in a sequence from left to right, showing the assembly process. Component 1 is the handle, 2 is the base, 3 is the mounting bracket, 4 is the mounting plate, 5 is the mounting screw, 6 is the mounting nut, 7 is the mounting washer, 8 is the mounting pin, 9 is the mounting bracket, and 10 is the mounting pin.

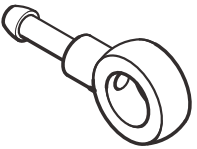
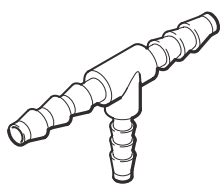
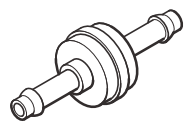
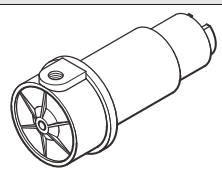
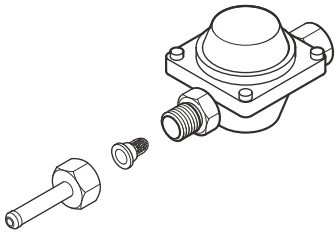
FUEL SYSTEM

		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II	
	PART NUMBER											
Clamp 7mm (used with 360 75 300)	10 2068 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	20 2900 20 20 64									•		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											
												

FUEL SYSTEM

		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
PART NUMBER											
Clamp 34mm for Fuel Metering Pump	152 00 144	•	•	•	•	•		•			
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

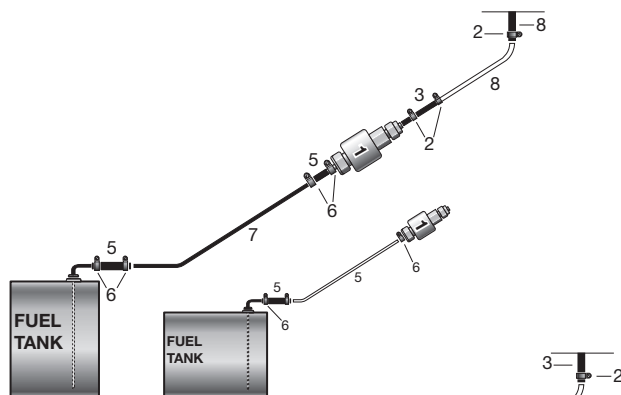
		AIRTRONIC D2	AIRTRONIC D4	B1LC compact	B3LC compact	AIRTRONIC D5	D8LC	HYDRONIC 4/5	HYDRONIC 10 / M	HYDRONIC 16/24/30/35	HYDRONIC M-II
	PART NUMBER										
Bango fitting 8mm	25 1352 88 00 05									•	
Bango fitting 10mm	26310085									•	
Bango fitting 14mm	25 1373 88 03 00									•	
Bango washer 10mm	32316014										
											
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 12 volt 2.5m suction	25 1226 89 82 00	•	•	•	•	•	•	•	•	•	•
Auxiliary fuel Pump 24 volt 2.5m suction	25 1226 89 83 00	•	•	•	•	•	•	•	•	•	•
Bango fitting 8mm (2 required)	25 1352 88 00 05										
Hollow bolt 8mm (2 required)	104 10 088										
Copper seal 8mm (2 required)	323 16 013										
											
Pressure Reducer	22 1000 20 08 00	•	•	•	•	•	•	•	•	•	•
											

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.

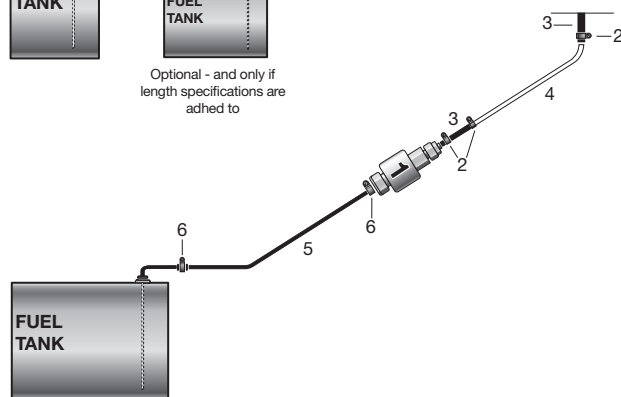
AIRTRONIC 2
AIRTRONIC 4
B1LC compact
B3LC compact
D/B5LC



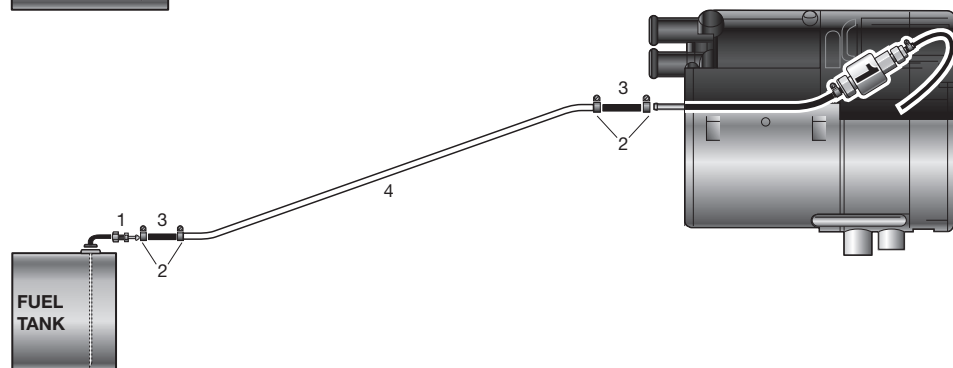
LEGEND

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

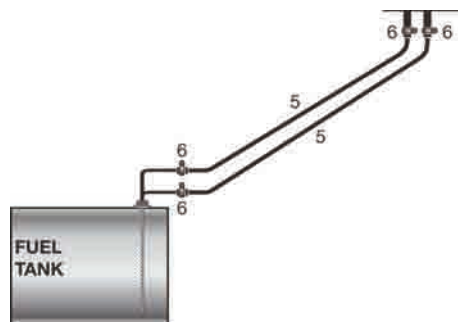
D8LC
HYDRONIC 10



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

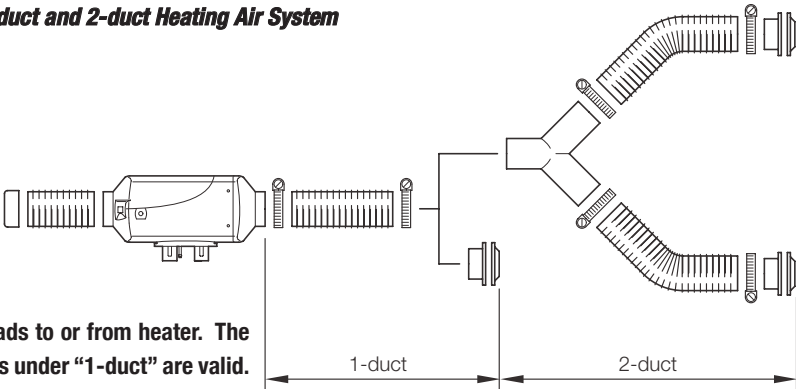
75 diameter hose
A = 44.2 cm², R rating 0.25

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.



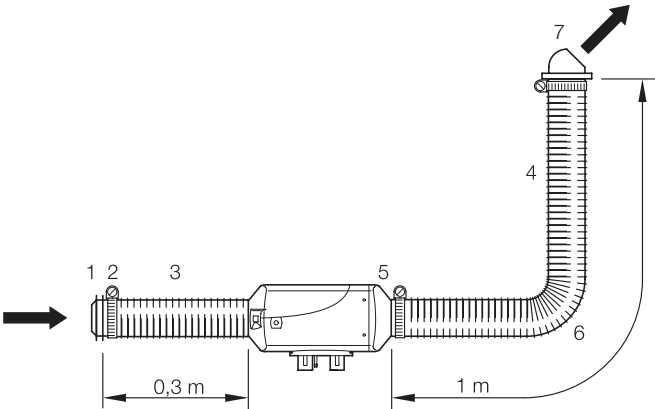
2-duct means:

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



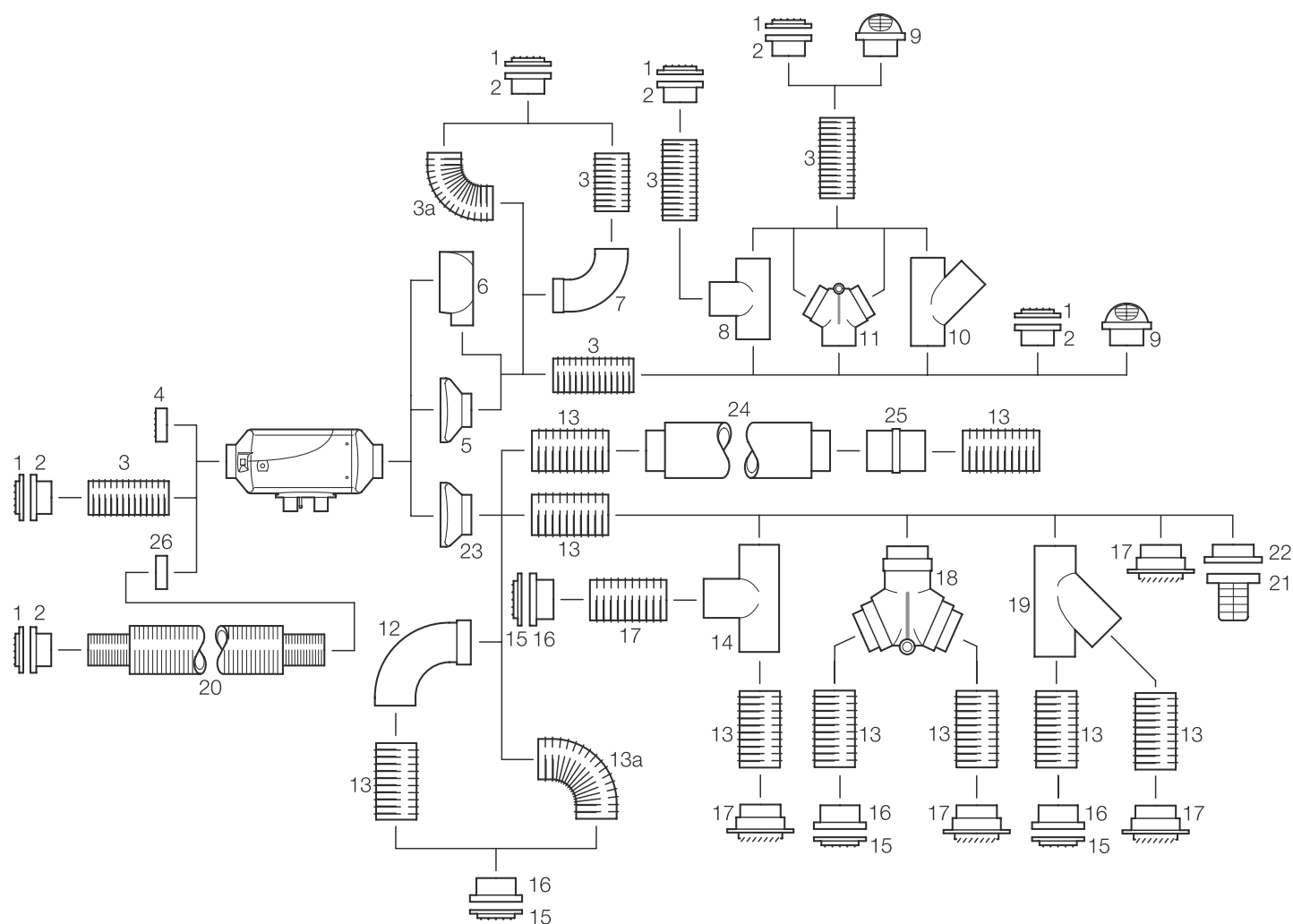
Rating sum = 5.6 and does not exceed the heater rating of 6. The installation is permissible.

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*

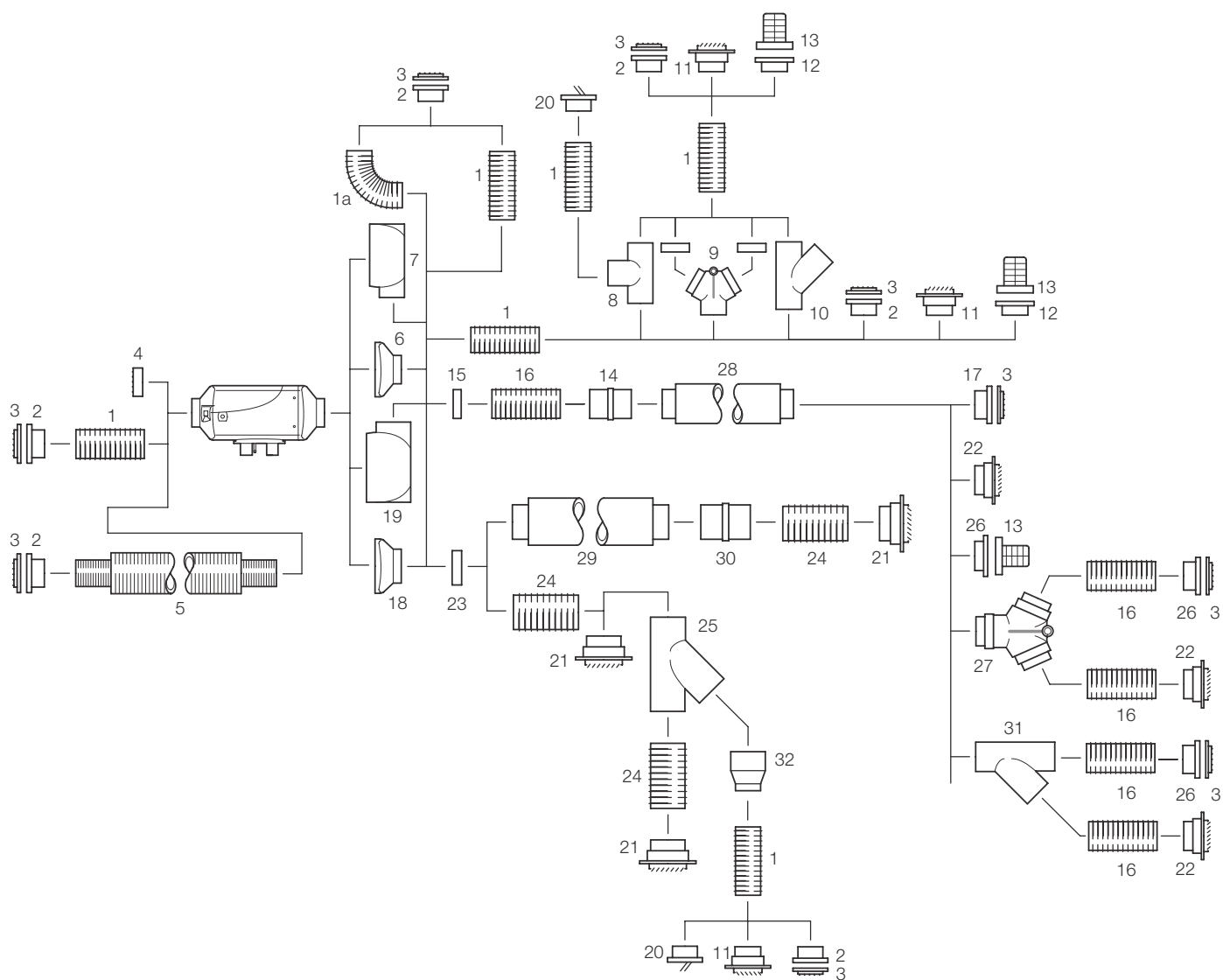
Fig. No.	DESIGNATION (measurements in millimeters)	COMPONENT RATING		See per No. Air Ducting
		1-duct	2-duct	
	Heating air ducting with reduction hood 60 dia. (heater rating 6)			
1	Grille	1.7	0.6	16
2	connecting socket, plastic			25
3	Flexible pipe, 60 dia. per m	1	0.3	1
3a	90° pipe bend of flex. pip, 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" Position "right/left"	- -	0 1	41
	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" Position "right/left"		0.4 1.5	41
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

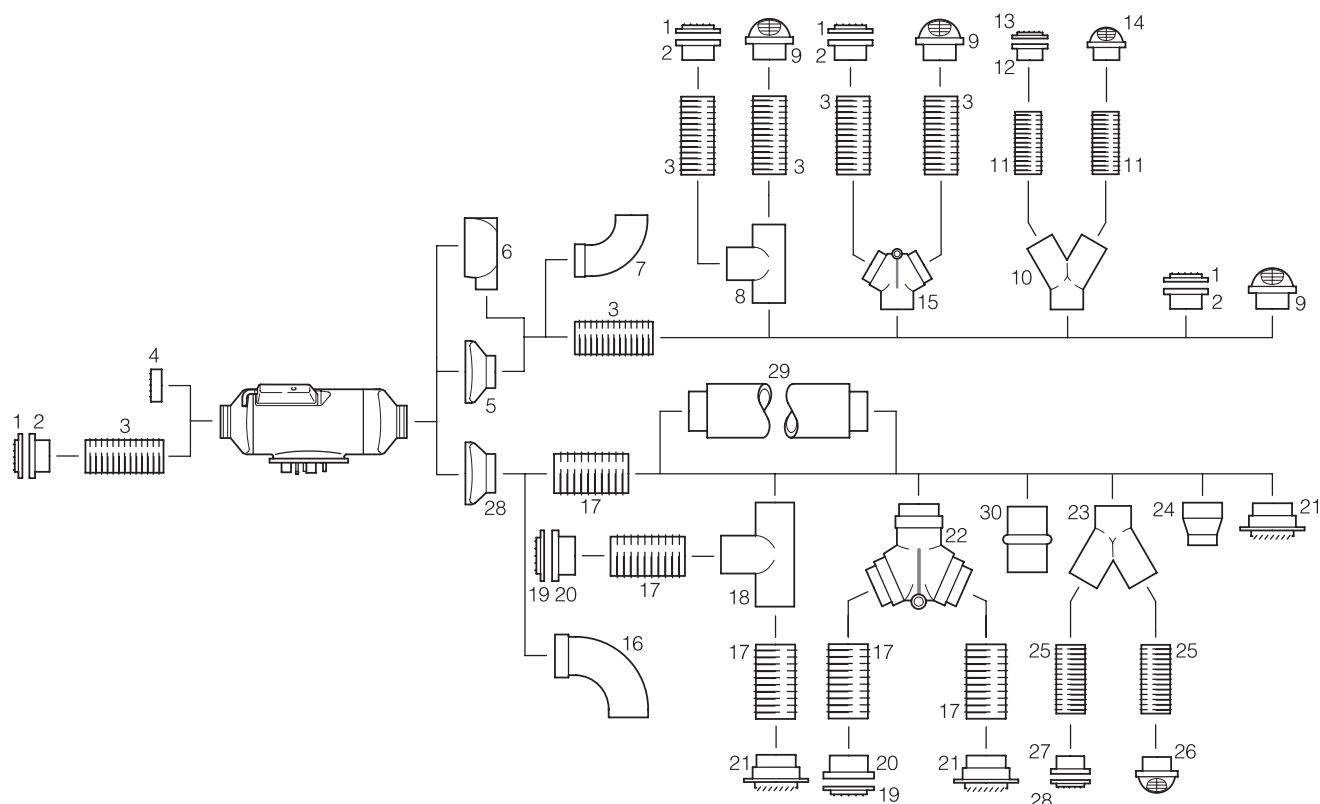
* Pos. 23 - if used as adapter 90x100 dia., cut out the mesh.

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

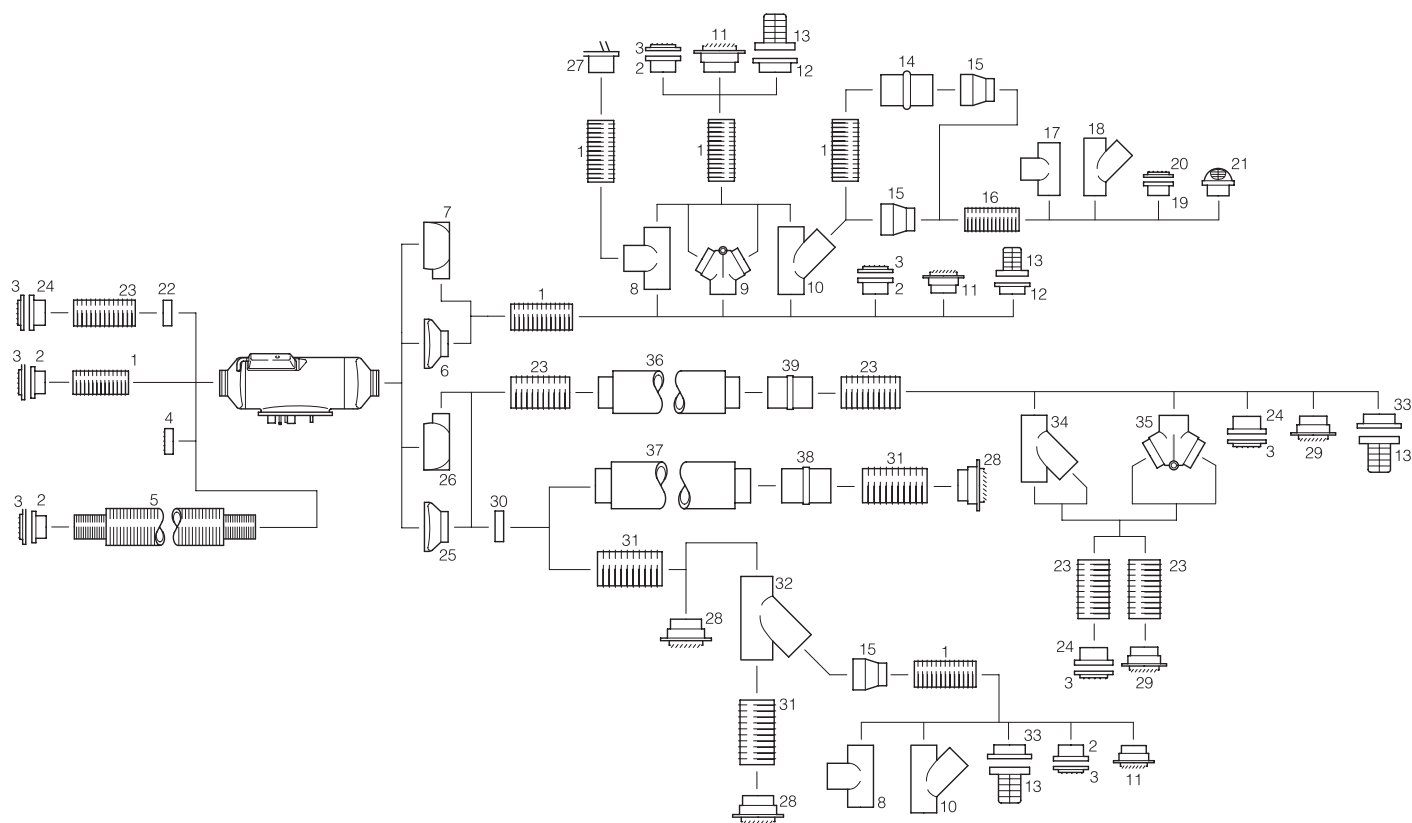
* Component is in front of the 2-duct system. In the case of a combination of air-ducting parts - dia. 60 at the intake side and dia. 75 at the exhaust side - the rating of the components at the exhaust side must be multiplied by 0.4. The heating rating 6 applies.

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

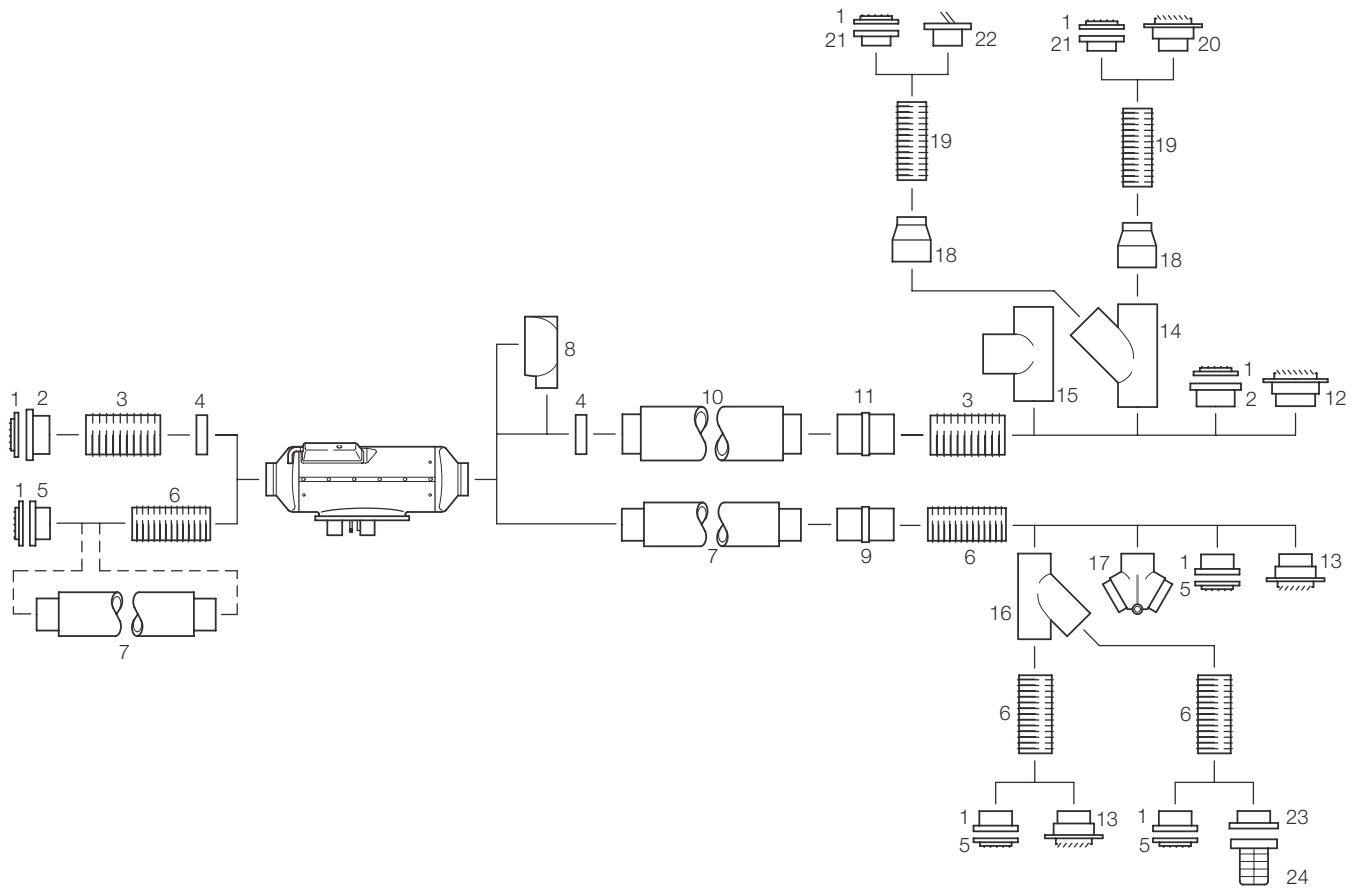
Fig. No.	DESIGNATION (measurements in millimeters)	COMPONENT RATING				See per No. Air Ducting
		1-duct		2-duct		
	Heating air ducting with reduction hood 75 dia. (heater rating 6) Heating air ducting with reduction hood 90 dia. (heater rating 13)	75	90	75	90	
1	Flexible pipe, 75 dia. per m	1	0.9	0.3	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*

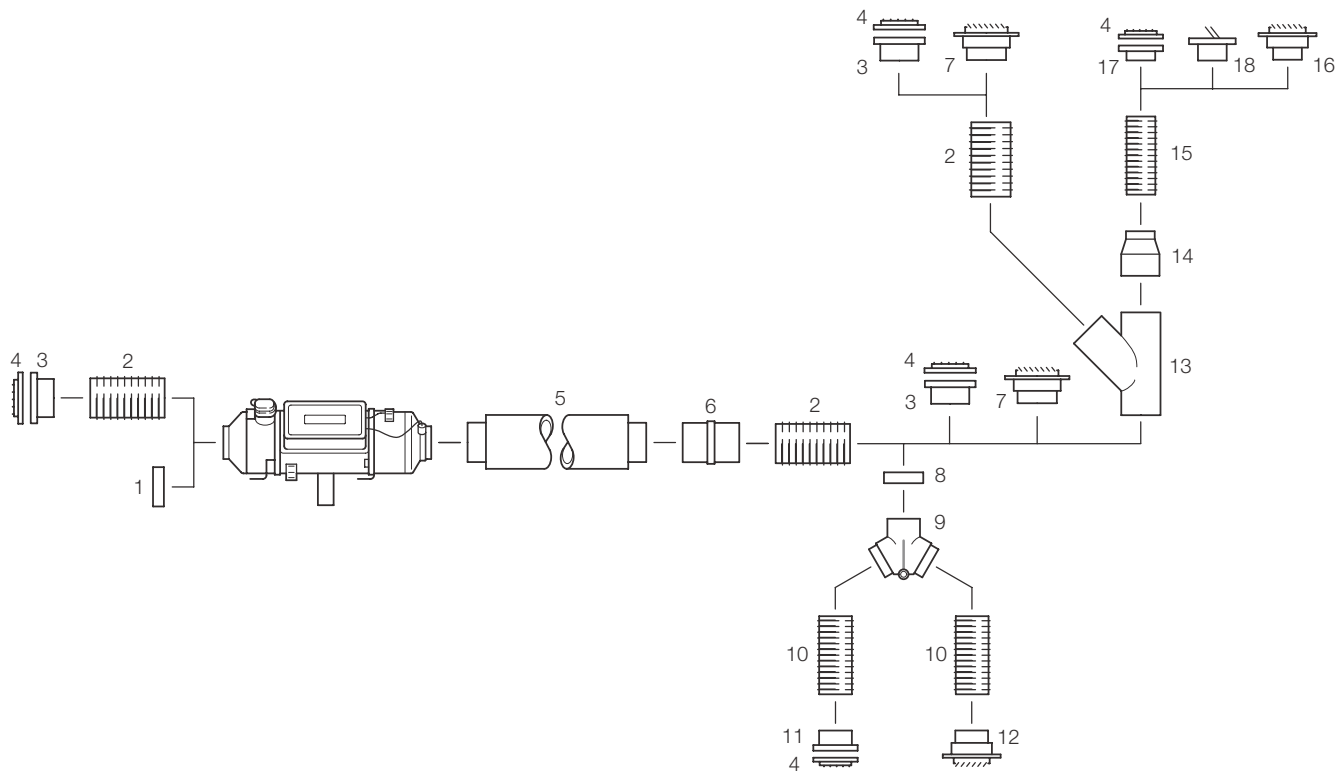
Fig. No.	DESIGNATION (measurements in millimeters)	COMPONENT RATING		See per No. Air Ducting
		1-duct	2-duct	
	Heating air ducting with reduction hood 90 dia. (heater rating 10)			
1	Grille	0.5	0.25	16
2	Connecting socket, metal, 100 dia.	0	0	26
3	Flexible pipe, 100 dia. per m	0.5	0.25	1
	Bend, 90° of 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.

2011

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



Espar Heater Systems

Printed in Canada
Subject to change without notification