

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

1.1. ELECTRICAL SAFETY

WARNING! It is the responsibility of the owner and the operator to read, understand and comply with the following:

You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage. You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a Residual Current Device (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified electrician. You may obtain a Residual Current Device by contacting your Sealey dealer.

You must also read and understand the following instructions concerning electrical safety.

1.1.1. The **Electricity at Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.

1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. **If in any doubt about electrical safety, contact a qualified electrician.**

1.1.3. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply. See 1.1.1. and 1.1.2. and use a Portable Appliance Tester.

1.1.4. Ensure that cables are always protected against short circuit and overload.

1.1.5. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none is loose.

1.1.6. **Important:** Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating at right.

1.1.7. **DO NOT** pull or carry the appliance by the power cable.

1.1.8. **DO NOT** pull the plug from the socket by the cable.


1.1.9. **DO NOT** use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician. When an ASTA/BS approved UK 3 pin plug is damaged, cut the cable just above the plug and **dispose of the plug safely.** Fit a new plug according to the following instructions (UK only).

a) **Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.**

b) **Connect the BROWN live wire to the live terminal 'L'.**

c) **Connect the BLUE neutral wire to the neutral terminal 'N'.**

d) **After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight.**

Double insulated products, which are always marked with this symbol , are fitted with live (brown) and neutral (blue) wires only.

To rewire, connect the wires as indicated above - **DO NOT** connect either wire to the earth terminal.

1.1.10. If an extension reel is used it should be fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 1.5mm², but to be absolutely sure that the capacity of the reel is suitable for this product and for others which may be used in the other output sockets, we recommend the use of 2.5mm² section cable.

1.2. GENERAL SAFETY

✓ Check that the heater is in sound condition and good working order. *Take immediate action to repair or replace damaged parts.*

✓ Use recommended parts only. *Unapproved parts may be dangerous and will invalidate the warranty.*

✓ Use only paraffin/diesel to fuel your heater, in accordance with instructions contained in this manual.

⊠ **WARNING!** Only use heater in well ventilated areas. Ensure continuous ventilation is provided to the heater operating area. Ensure a minimum volume of air of 10m³/kW power and a continuous natural air circulation through windows and doors. For the most efficient operation provide at least 80m³/h air flow from outside. This should be divided equally between floor and high level. Ventilation must be to the outside of the premises in which the heater is to be operated. If your operating area has no direct access to clean fresh air we recommend that you run a large gauge duct from the outside of the building to the back of the heater in order to provide a clean air intake.

✓ Keep the heater a minimum of 3 metres from any combustible materials (i.e. wooden items, cloth, plastics, paper, etc).

✓ Maintain a minimum distance of 50cm from non-combustible materials (i.e. brick, steel, concrete, etc).

✓ Maintain the following clearances around the heater. Sides - 0.6m, Top - 1.5m, Air inlet - 0.6m, Air outlet - 3.0m

✓ Check the colour of the heater outlet to ensure that optimum heat output is maintained.

⊠ **WARNING! DO NOT** use the heater near flammable material, liquids, solids, gases or compressed gas cylinders and the like.

x **DO NOT** allow untrained persons to operate the heater and **DO NOT** operate the heater without the cover.

x **DO NOT** use an external fuel tank. Only use that which is part of the heater.

x **DO NOT** leave the heater unattended when in use. Switch the heater off and unplug from the mains before leaving work area.

x **DO NOT** stand or place **any** object less than 3 metres from the heater output.

x **DO NOT** obstruct the air inlet and outlet sections of the heater.

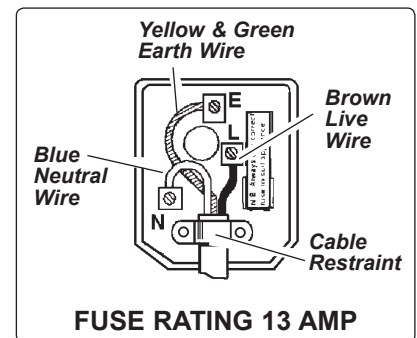
x **DO NOT** operate the heater when you are tired or under the influence of alcohol, drugs or intoxicating medication.

x **DO NOT** over-fill the fuel container. Wipe up any spill fuel immediately.

x **DO NOT** touch the exhaust gas outlet (chimney) at any time due to danger of burns.

x **DO NOT** touch the heater outlet when first switched off as these are very hot and will take time to cool.

✓ Ensure that the heater is correctly turned off when not in use and store in a safe, dry area, out of reach of children.



2. INTRODUCTION & SPECIFICATIONS

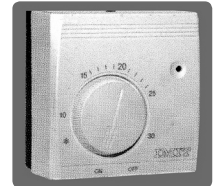
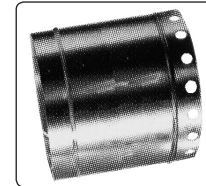
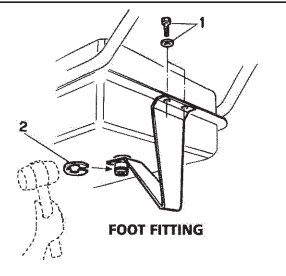
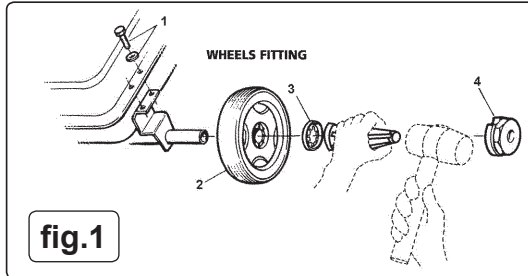
2.1. Paraffin/diesel heaters with low-fume heat output. Specially constructed stainless steel combustion chamber is vertically vented through a flue, dramatically reducing the amount of fumes emitted through the hot air nozzle of the heater. Fully specified with safety cut-out and incorporating a fuel filter for clean, reliable operation. Fitted with an industrial pump for high thermal efficiency and output. Optional nose cone, Model No. ABNC04 together with standard ducting allows heat to be routed where required with the heater up to eight metres away. Ideal for heating marquees, village halls and other public areas. Heaters may be controlled by optional remote thermostat, Model No. ABT04.

2.2. Specifications

Model:	AB125HE.V2 AB180HE.V2
Output Btu/hr / kW:	125,215/36.4180,900/52.6
Tank capacity (ltr):	51 . . 51
Fuel oil:	Paraffin/Diesel Paraffin/Diesel
Electrical input:	230V 5A 230V 5A
Approx. hours operation per filling:	15 . . 10
Transport wheels:	Yes . Yes
Air flow (cfm):	1180 1475

Model:	AB125HE.V2	AB180HE.V2
Automatic shut-off:	..... Yes	..... Yes
Heated volume (ft³):	..... 31300	..... 45225
Heated volume (m³):	..... 885	..... 1280
Flue diameter (mm):	..... 150	..... 150
Net weight (kg):	..... 70	..... 76
Quality standard:	..... CE Norm	..... CE Norm

3. INSTALLATION



3.1. Assembly of wheels and foot.

Assemble the wheels and foot to the heater as indicated in fig.1 using the fixings provided.

3.2. Ventilation.

WARNING! Only use the heater in well ventilated areas. Ensure a minimum volume of air of 10m³/kW power and a continuous natural air circulation through windows and doors. For the most efficient operation provide at least 80m³/h air flow from outside. If the operating area has no direct access to clean fresh air we recommend you run a large gauge duct from the outside of the building to the inlet of the heater in order to provide a clean air intake. Ensure that the duct is laid so as to not compromise safety. Careful consideration must also be given to the placing of the heater to provide safe and comfortable heating.

3.3. Flue connection.

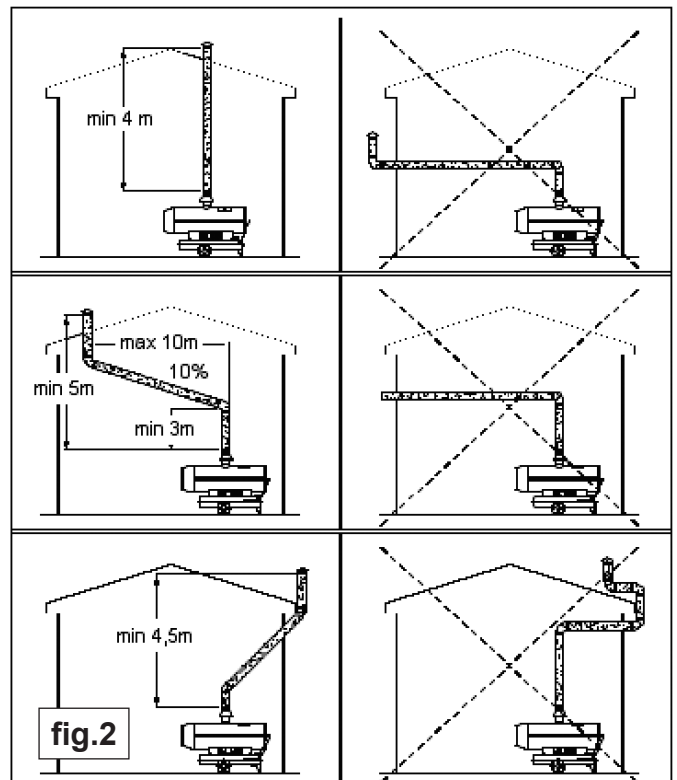
For indoor use this heater must be connected to a flue pipe to vent exhaust gases outside. The heater can only be operated without a flue when it is outside. Connect the heater to a chimney or to an exhaust duct. To get a proper draught (at least 0,1 mbar) in the chimney the exhaust gas path must rise as much as possible vertically. Avoid any elbows and bends in the first part of the exhaust ducts for at least 3 m. Avoid horizontal sections and ensure that any subsequent bends are smooth. See fig.2 for flue installation do's and don'ts.

If a room thermostat is used, set maximum temperature on it. Turn switch to position "ON".

Set the desired temperature on room thermostat.

3.4. Ducting of heated air.

Using optional nose cone, Model No.ABNC04 (see fig.3) together with standard ducting allows heat to be routed where required with the heater up to eight metres away. Ideal for heating marquees, village halls and other public areas. Heaters may be controlled by optional remote thermostat, Model No. ABT04. (see fig.4)



4. OPERATION

4.1 Start-up:

4.1.1 The heaters are factory set to operate without a room thermostat.

4.1.2 If you wish to use a room (remote) thermostat, you may purchase one from your authorised Sealey dealer, model No. ABT04. Install the thermostat by removing the socket cover (fig 5.1) and inserting the thermostat plug into the socket.

4.1.3 Fill the tank with the correct fuel.

4.1.4 Plug into a mains socket (230V ~ 50Hz single phase) - The green light indicates that the heater has power. (See fig 5.4) **(THE HEATER MUST BE EARTHED.)**

4.1.5 If a thermostat is used, set it to maximum.

4.1.6 Turn the switch to the "ON" position. (See fig 5.3)

4.1.7 Set the desired temperature on the thermostat.

4.2 Reset after operation of the safety thermostats:

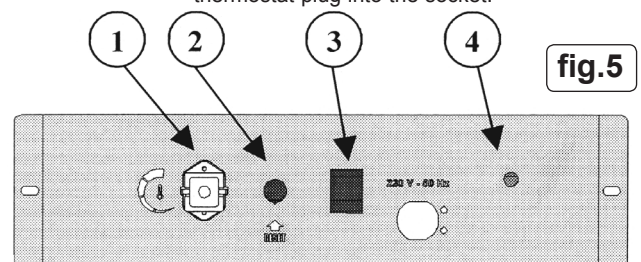
4.2.1 The heater is equipped with a reset button. When the heater locks out, the red light on the push button (fig 5.2) is illuminated. When this occurs, push the reset button to restart the heater.

4.2.2 The heater also incorporates a manual reset safety thermostat fixed in contact with the combustion chamber. This can be accessed via the inspection hatch. To reset this thermostat, **unplug the heater**, open the inspection hatch and push the reset button on the thermostat body.

4.3 Shut down:

Turn the main switch to "OFF" to shut off the flame. The fan will continue rotating for approx 1min 45sec to cool the heater down. The fan motor will automatically stop at the end of the aftercooling time, then the unit can be disconnected from the mains.

WARNING! NEVER disconnect the supply plug to stop the heater whilst in operation. Without the operation of the aftercooling fan, the intense heat could damage components within the machine.



5. MAINTENANCE

- 5.1** Maintenance should only be carried out by qualified personnel.
- 5.2** Before carrying out any form of maintenance, ensure the heater is not connected to the power supply.
- 5.3** The heater must be thoroughly inspected and cleaned once a year to ensure efficient combustion and long life, however specific parts of the heater (list to follow) should be cleaned more regularly to ensure high performance:
- The oil spraying nozzle and associated filter,
 - The main fuel filter cartridge,
 - The oil pump filter,
 - The ignition electrodes,
 - The inside of the appliance, using compressed air,
 - The fan blades,
 - The flame sensor with a mild detergent.
- 5.4** Periodically check cables and electrical connections.
- 5.5** Check the oil filter and replace if necessary.

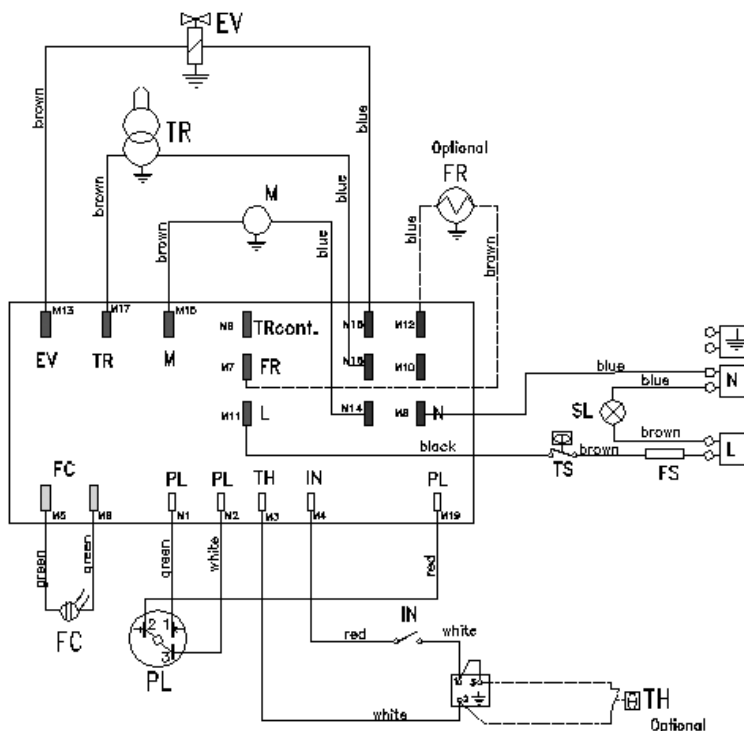
6. TROUBLESHOOTING

TROUBLE	CAUSE	SOLUTION
Heater does not start	No power Faulty cable/connections Burnt fuse Room thermostat set too low Thermostat socket cap not inserted The safety thermostat has been activated	Check main distribution board and power supply line. Check/have cable replaced by a qualified electrician. Check and replace if required. Set room thermostat on a higher temperature. Insert cap into the thermostat socket. Reset the safety thermostat.
Heater starts, flame does not ignite and then heater locks out	Dirty or faulty flame sensor Faulty burner control unit Clogged nozzle Flame sensor receives an external light signal during ignition sequence No fuel Ignition fault, dirty or incorrectly spaced electrodes	Clean or replace. Contact your authorised Sealey dealer for advice/repairs. Clean or replace. Check for external lights (sun, lamps, etc). Fill tank. Clean electrodes, contact Sealey dealer if required.
Heater starts, but combustion is not good	Dirty or blocked nozzle Clogged filters Leaks in fuel circuit Oil pump provides low pressure Insufficient combustion air Insufficient ventilation air	Clean or replace. Clean or replace. Check and if necessary, replace. Contact your authorised Sealey dealer. Wrong air lock setting. Contact your authorised Sealey dealer.
Heater stops due to safety thermostat	The appliance has overheated Faulty safety thermostat	Contact your authorised Sealey dealer.

7. WIRING DIAGRAM

KEY

EV	Fuel Solenoid Valve
TR	Ignition Transformer
M	Motor
SL	Warning Lamp
TS	Safety Thermostat
FS	Fuse
FC	Flame Sensor
PL	Reset Button
IN	Switch
TH	Room Thermostat (Optional)
FR	Heated Filter (Optional)



NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of this product.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



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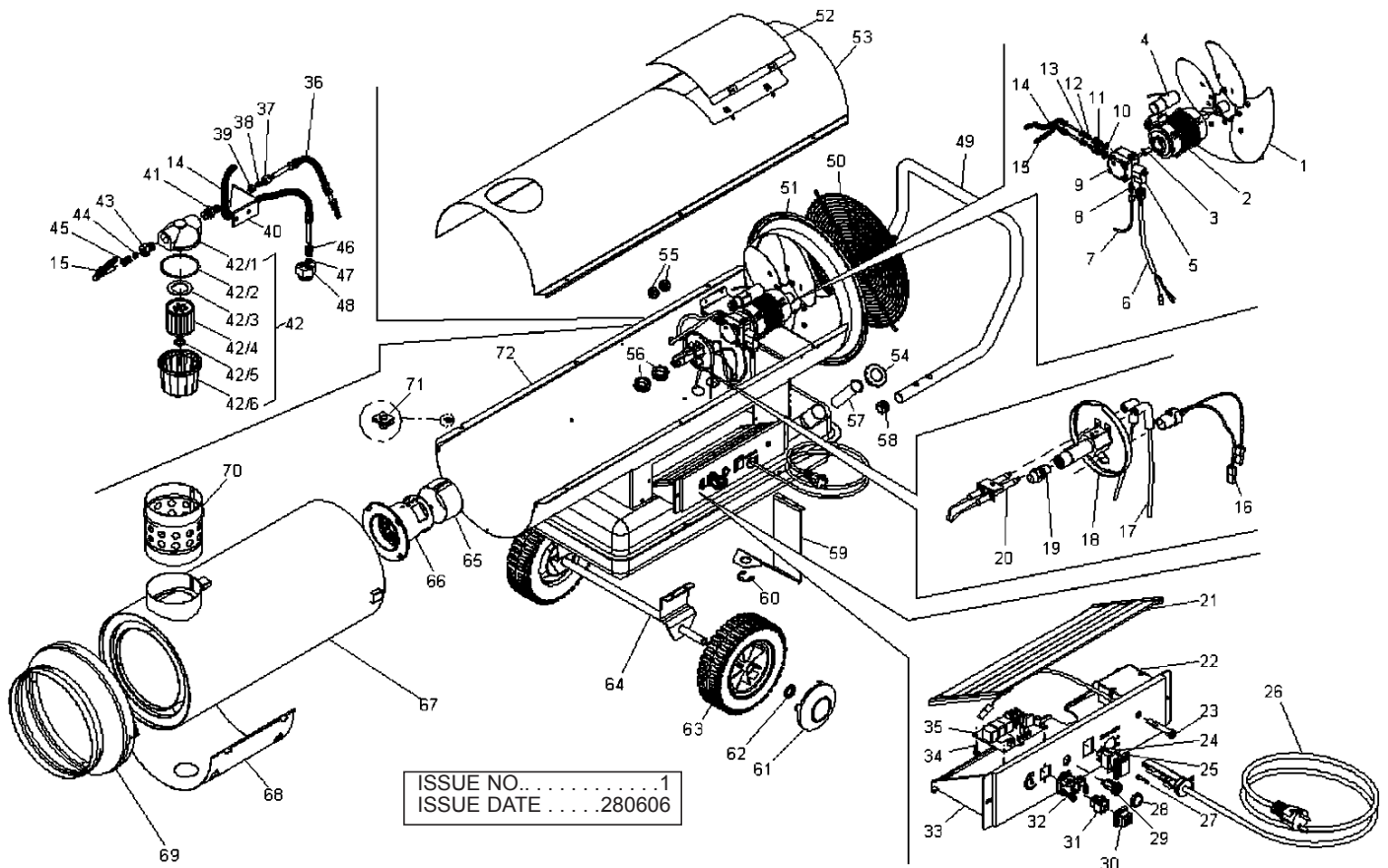
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THE HEATERS SHARE COMMON PARTS WITH THE EXCEPTION OF THE NUMBERS IN ITALICS

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	SL1087007533	FAN (AB125HE)	41	SL1066001500	FITTING
1	SL1087007333	FAN (AB180HE)	42	SL1086002500	OIL FILTER
2	SL1040012233	MOTOR	42/1	SL1135000400	COVER
3	SL1001001300	JOINT	42/2	SL1002004200	O-RING
4	SL1049001500	CAPACITOR	42/3	SL1002005100	GASKET
5	SL1089005800	COIL	42/4	SL1086000700	CARTRIDGE
6	SL1043004500	CABLE + CONNECTOR	42/5	SL1002005300	O-RING
7	SL1076004300	MICROHOSE	42/6	SL1001001900	GLASS
8	SL1067004100	FITTING	43	SL1066001300	FITTING
9	SL1089006400	PUMP	44	SL1067009100	OLIVE
10	SL1018002900	WASHER	45	SL1066001600	FITTING
11	SL1066001300	FITTING	46	SL1066001600	FITTING
12	SL1067009100	OLIVE	47	SL1067009100	OLIVE
13	SL1066001600	FITTING	48	SL1066001200	SUCTION FITTING
14	SL1078000600	BACKFLOW HOSE	49	SL1095011800	HANDLE
15	SL1078000100	INFLOW HOSE	50	SL1090007533	GUARD
16	SL1050000832	FLAME SENSOR	51	SL05511	AIR INLET
17	SL1039007433	HT CABLE	52	SLT0MM411	INSPECTION COVER
18	SL1094135533	BURNER HEAD	53	SLMIR03711	UPPER SHELL (AB125HE)
19	SL1088014100	NOZZLE (AB125HE)	53	SLMIR05511	UPPER SHELL (AB180HE)
19	SL1088012100	NOZZLE (AB180HE)	54	SL1005000100	TANK CAP
20	SL1030002100	ELECTRODE	55	SL1002002000	GASKET
21	SL1001016900	COVER	56	SL1002002100	GASKET
22	SL1033004111	TRANSFORMER	57	SL1086001000	FILLING FILTER
23	SL1032005500	RESET PUSHBUTTON	58	SL1005000900	HANDLE CAP
24	SL1032001700	ON/OFF SWITCH	59	SL1094046500	TANK SUPPORT
25	SL1002002600	CAP	60	SL1023001500	SPRING
26	SL2500EURP2	POWER SUPPLY CABLE	61	SL1005002000	WHEEL CAP
27	SL1035001211	FUSE	62	SL1022000300	CIRCLIP
28	SL1002002855	CAP	63	SL004001300	WHEEL
29	SL1032005500	RESET PUSHBUTTON	64	SL1094134100	AXLE
30	SL1052006600	SOCKET CAP	65	SL1094135733	AIR LOCK
31	SL1043000400	SOCKET BODY	66	SL1095011233	CHAMBER INLET
32	SL1043000600	SOCKET CASING	67	SLMIR037	COMBUSTION CHAMBER (AB125HE)
33	SL1001017100	CONTROL PANEL	67	SLMIR055	COMBUSTION CHAMBER (AB180HE)
34	SL1001015680	SPACER	68	SLMIR5H	CHAMBER SHIELD
35	SL1047004500	BURNER CONTROL	69	SL055A11	AIR OUTLET
36	SL1078000300	SUCTION HOSE	70	SL1094138733	FLUE COLLAR
37	SL1066001700	FITTING	71	SL1017002200	FIXING CLIP
38	SL1067009100	OLIVE	72	SLMIR03711A	LOWER SHELL (AB125HE)
39	SL1017002800	NUT	72	SLMIR05511A	LOWER SHELL (AB180HE)
40	SL1094134900	FILTER BRACKET			