USER MANUAL

SIP FIREBALL® XD50F DIESEL, PARAFFIN & KEROSENE SPACE HEATER

ITEM NO: 09590



PLEASE READ AND FULLY UNDERSTAND THE INSTRUCTIONS IN THIS MANUAL BEFORE OPERATION.
KEEP THIS MANUAL SAFE FOR FUTURE REFERENCE.

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1 Introduction

Thank You for Choosing SIP

SIP Industrial Products Ltd is a flagship supplier of high-quality machinery and equipment to the ever-growing engineering, construction, automotive and agricultural marketplaces.

As an ISO9001 approved machinery specialist, we are passionate about innovation and offering quality, value and choice, making sure that our users have the most appropriate and reliable product for the task at hand.

Welcome to Your User Manual

This manual is designed to introduce the support in place for you as an SIP customer as well as guide you through the product that you have purchased and how to use and maintain it safely and effectively.

Technical and Aftersales Support

With a dedicated service centre at head office and service engineers across the UK and Ireland, SIP are committed to providing you with the optimum support to minimise any working downtime.

Our extensive Technical, Service Engineer and Customer Service teams are on hand to support with:

- Product selection
- Servicing and maintenance advice
- Troubleshooting

Feel free to contact us for more information.
Tel: 01509 500 400
Email: customerservice@sip-group.com

1.1 Product Overview

The SIP FIREBALL XD50F Diesel/Paraffin Space Heater is a portable heater designed to quickly and effectively heat medium-sized workshops and garage spaces.

Featuring an integrated thermostat for regulating heat output and heavy-duty components for long product life, the XD50F safely delivers powerful and continuous heating.

1.2 Manual Version History

Manual Version Number	Date Published
V3.1	09/06/2026

2 Warranty

Warranty Registration

SIP proudly offer a 2 year warranty across all SIP branded machines.*

To benefit from the second warranty year, you must register within 30 days of purchase via the link or QR code below.

www.sip-group.com/warranty/register-warranty



***Excludes accessories and consumables**

3 Safety Instructions

3.1 Safety Symbols Used Throughout This Manual



Important: Please read the following instructions carefully, failure to do so could lead to serious injury, damage to the product or an invalidated warranty.



Danger/Caution: Indicates risk of personal injury and/or the possibility of damage.



Warning: Indicates risk of fire.



Note: Supplementary Information.

3.2 Safety Instructions

When using this diesel/paraffin/kerosene powered space heater, basic safety precautions should **always** be followed to reduce the risk of fire, electric shock, personal injury (or to others) and/or damage to the product. Read all these instructions before operating the item and save this user manual for future reference. SIP recommends that this product should not be modified or used for any application other than that for which it was designed; it was designed for commercial and industrial use, specifically for drying and heating in well-ventilated non-habitable spaces. It **must** be operated strictly in accordance with the instructions provided in this manual. If you are unsure of its relative applications do not hesitate to contact us and we will be more than happy to advise you.

3.2.1 General Safety Principles

Prior to first use read and understand this owner's manual and the labels affixed to the space heater. Learn its applications and limitations, as well as the potential hazards specific to it. Only trained and competent individuals may operate this space heater, and must follow the instructions provided in this manual. **Never** operate the space heater under the influence of alcohol, drugs, or medication. Children under the age of 16 years or people unfamiliar with the space heater **must not** be allowed to use it.

Keep all safety guards and covers in place and functional, and **do not** bypass, disable, or modify any safety guards, safety devices or warning system. **Do not** use this space heater in damp or wet locations, or expose it to rain/water. **Do not** start or use the space heater in poorly ventilated areas. **Always** use a carbon monoxide detector in

combination with an air quality monitor to measure the ventilation quality of the room the space heater is used in. **Do not** place in front of combustible materials either when in use or when cooling down.

THIS SPACE HEATER MUST NEVER BE USED IN A POORLY VENTILATED OR CONFINED SPACE. EXHAUST GASES CONTAIN CARBON MONOXIDE WHICH IS ODORLESS AND CAN KILL.

Only operate the space heater on a stable and level surface. Make sure that the power switch is off before plugging in to avoid unintentional starting. **Do not** move or handle the space heater when it is running or still hot, **always** turn it off and allow it to complete its cooling cycle before unplugging from the electrical mains supply. **Do not** obstruct the air inlet (rear) and the hot air outlet (front) of the heater. **Do not** use any form of ducting in front or at the rear of the heater. **Do not** fill the fuel tank whilst the heater is running or still hot. This heater **must** only use diesel, paraffin (C1) or kerosene fuels. **Do not** run the space heater whilst unattended, **always** switch off the space heater when leaving the area it is heating.

3.2.2 Personal Protective Equipment

Personal Protective Equipment (PPE) **must** be worn when performing refuelling operations and performing maintenance. **Always** ensure that the correct PPE is worn, to reduce the risk of injury **always** wear eye protection and nitrile gloves to prevent contact with any spilt or splashed diesel.

3.2.3 Hazards During Use

Fire and Explosion Hazards: This heater **must** only use diesel, paraffin (C1) or kerosene fuels, using petrol or a more volatile fuel source (such as paint thinners or solvents) may cause an explosion or fire. **Do not** use the space heater in the presence of flammable liquids, gases, dust or other combustible sources. **Do not** use the space heater where it may heat compressed gas cylinders.

Do not move or handle the space heater when it is running or still hot, **always** turn it off and allow it to complete its cooling cycle before unplugging from the electrical mains supply. Clean any spills immediately with appropriate spill kits, and/or change any clothing. Ensure the fuel cap is correctly seated and the fuel tank is sealed after refuelling operations to prevent the escape of fuel vapours.

Fuels **must** be stored in suitable containers in an appropriate location away from children, and **never** near the space heater - especially when it is hot, and in accordance with local safety laws. If fuels are not stored correctly, radiant heat from the space heater can produce flammable vapours.

Keep the front of the heater a minimum of 3.5 metres away from any combustible materials (i.e. wooden items, cloth, plastics, paper, etc).

Do not smoke near, or expose fuels to, open flames or sparks.

Burn Hazards: **Do not** touch the heater outlet or dome when first switched off as these are very hot and will take time to cool. Be aware that the outer casing, panelling and construction may be hot for a time after switching the unit off.

Electrical Hazards: **Never** carry the heater by the mains lead or pull it to remove the plug from the mains socket. Keep the mains lead away from heat, oil and sharp edges. If the mains lead is damaged, it **must** be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid unwanted hazards.

Chemical Hazards: Failure to provide adequate ventilation when using the space heater can result in serious illness or death. Even with a high combustion efficiency, this heater produces small amounts of carbon monoxide (CO). CO is highly toxic, odourless and can kill. **Always** provide continuous ventilation from outside of the building to the heater and its operating area. **Do not** use the heater in closed rooms, living areas, basements or below ground level.

High-risk individuals include:

- Pregnant women.
- Those with heart or lung conditions.
- People with anaemia.
- Anyone under the influence of alcohol.
- Individuals at high altitudes.

CO exposure symptoms:

- Headache.
- Dizziness.
- Nausea.
- Dry mouth or sore throat.

If any CO exposure symptoms occur, stop using the heater immediately, move to fresh air, and seek medical attention. Have the unit serviced before further use.

The use of a carbon monoxide detector is strongly recommended.

3.2.4 Residual Risks

Despite built-in safety features and the hazards/risks identified in this manual, some risks remain and cannot be entirely eliminated or reduced by controls alone. To attempt to mitigate these, assess the risks, stay alert and aware of your surroundings and check that the heater is in sound condition and good working order before use. Take immediate action to repair or replace damaged parts when they are discovered.

3.2.5 Warning signs and symbols

This diesel heater features warning labels and safety symbols, familiarise yourself with the meaning of each symbol before first use. Replace damaged or unreadable labels immediately.



Figure 1: The warning label located near the filling cap for the fuel tank.

The warning label in Figure 1 informs users that the heater must be powered off and allowed to cool before refuelling, and that the heater must not be stored with any fuel in the tank.



Figure 2: The warning label is located near the exhaust/infra-red plate at the front of the heater.

The warning label in Figure 2 warns users that the front of the heater (the exhaust/infra-red plate) will become hot, up to temperatures of 800°C, and should not be touched.



Figure 3: The warning label is displayed on the side of the heater and contains several safety instructions.

The warning label in Figure 3 contains several warnings and instructions on how to use the heater:

Danger:

- NEVER use petrol/gasoline fuel. HIGH RISK OF FIRE!
- NEVER use in environments which contain flammable gas, chemicals or materials.
- Only use in well ventilated areas; NEVER use in confined spaces.

Warning:

1. NEVER remove the power supply during operation! Turn down the thermostat and switch OFF at the heater. Wait for the fan to stop before disconnecting the mains power.
2. DO NOT use in environments with combustible dust; paper dust, saw dust, fibre dust. Clogging will occur and could result in fire.

3. NEVER block the air inlet. Risk of heater overheating.
4. DO NOT modify the heater. Only use for the purpose it is intended for.
5. DO NOT use in damp / wet conditions. Disconnect from the mains supply prior to any maintenance.

3.2.6 Safety Devices

The 09590 SIP FIREBALL® XD50F Diesel/Paraffin Space Heater is equipped with the following safety features:

Overheat Protection: The temperature sensor stops operation of the heater by cutting the power when the internal temperature becomes too high.

Flame Sensor: The 09590 is equipped with a photocell to prevent overfuelling of the unit if the ignition circuit does not operate correctly.

3.2.7 Maintenance and Servicing Safety

When carrying out maintenance or servicing operations **always** unplug the unit from the electrical mains supply, allow it to cool and drain it of fuel first. Repairs **must** only be carried out by qualified persons using original parts otherwise this may result in considerable danger to the user.

You **must** always check that the space heater is in sound condition and good working order prior to use. If you suspect that it is damaged or not operating correctly **do not** attempt a repair, contact an SIP service agent immediately.

3.2.8 Disposal Safety

Dispose of fuel and fuel filters in accordance with local environmental regulations. Never pour fuel or oil down the drain or into soil. At the end of the product's life, recycle components where facilities exist. Contact local authorities for approved disposal or recycling services.

3.2.9 Storage

Never store the space heater with fuel in the fuel tank, especially inside a building where the fumes could come within range of an open fire, sparks or sources of high temperature/ignition. Before storing in any enclosed area, allow the space heater to cool down and **do not** store in a confined area, only in a clean, dry, and ventilated area,

and out of reach of children and unauthorized persons. Before storing, drain the fuel in a well ventilated area and **only** when the heater has cooled down.

4 Electrical Connections

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 a Residual Current Breaker with Over-Current (RCBO). If in any doubt consult a qualified electrician.

Never carry this product by the mains lead or pull it to remove the plug from the mains socket. Keep the mains lead away from heat, oil and sharp edges. If the mains lead is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid unwanted hazards. **Always** disconnect from the power supply when not in use.



Danger/Caution: The wires in the power cable of this product are coloured in accordance with the following code: Blue = Neutral, Brown = Live, Yellow and Green = Earth.

This appliance is fitted with a plug which is moulded onto the electric cable (i.e. non-rewirable) please note:

1. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
2. Never use the plug without the fuse cover fitted.
3. Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).
4. Replacement fuse covers can be obtained from most electrical stockists.
5. The fuse in the plug must be replaced with one of the same rating (13 A) and this replacement must be ASTA approved to BS1362.









Warning: Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved plug with the correct rated fuse. If in doubt consult a qualified electrician.

Note: Always make sure the mains supply is of the correct voltage and amperage and the correct fuse protection is used. In the event of replacing the fuse, always replace the fuse with the same value as the original.

Note: If an extension lead is required in order to reach the mains supply; ensure that this too is rated for the correct voltage and fuse rating.

Note: The cross section of the extension lead should be checked so that it is of sufficient size to reduce the chances of voltage drops.

5 Technical Specifications

Parameter	Value
Input Supply	230 V / 50 Hz
Cable Length	1.5 m
Motor Power	230 W / 0.3 hp
Fuel Type	Diesel / Paraffin (C1) / Kerosene
Pump Type	Air Pump
Fuel Tank Size	18 L
Max. Heat Output	15 kW / 50000 BTU/h
Approx. Heating Area	350 m^3
Approx. Fuel Consumption	1.4 L/h
Energy Efficiency Class	B
Ingress Protection (IP) Rating	IPX4
Maximum Temperature Setting	65°C
Minimum Temperature Setting	0°C
Net Weight	13.9 kg
Gross Weight	16.1 kg
Product Dimensions	430(H) x 320(W) x 800(D) mm
Packaged Dimensions	435(H) x 350(W) x 820(D) mm

5.1 Safety Features

Feature	Description
Overheat Protection	The temperature sensor stops operation of the heater by cutting the power when the internal temperature becomes too high.
Flame Sensor	The 09590is equipped with a photocell to prevent overfuelling of the unit if the ignition circuit does not operate correctly.

6 Getting to know your SIP FIREBALL® XD50F Diesel/Paraffin Space Heater



Figure 4: Points of interest on the 09590 SIP FIREBALL® XD50F Diesel/Paraffin Space Heater.

Item	Description
1	Infra-red Plate
2	Upper Outer Cover
3	Handle
4	Fuel Tank
5	Thernostat Control Dial
6	Target Temperature Display
7	Ambient Temperature Display
8	Heater Ignition Power Switch
9	Lower Outer Cover
10	Motor / Air Pump
11	Rear Grille - Air Inlet
12	Fuel Tank Cap
13	Fuel Gauge

6.1 Assembly Instructions

Minimum assembly is required for the 09590 SIP FIREBALL® XD50F Diesel/Paraffin Space Heater. All that is required is to fasten the ”D” shaped handle to the top of the heater with the screws provided.

6.2 Safety Features

Overheat Protection: The temperature sensor stops operation of the heater by cutting the power when the internal temperature becomes too high.

Flame Sensor: The 09590 is equipped with a photocell to prevent overfuelling of the unit if the ignition circuit does not operate correctly.

7 Operating Instructions

7.1 Minimum Air Requirements



Warning: Carbon monoxide is an odourless gas and can kill. Always use carbon monoxide detectors when using this diesel/paraffin heater.

Danger/Caution: Air contaminants taken into the heater may affect the heat output, damage the unit and may cause health problems.

This diesel/paraffin heater consumes oxygen and produces carbon dioxide (and a trace amount of carbon monoxide) as part of normal operation. These exhaust gases are not ducted to a flue and therefore the heater should never be operated indoors without sufficient ventilation. Always use carbon monoxide detectors when using this diesel / paraffin heater, as it is an odorless gas and can kill.

Airflow through the heater is necessary to ensure proper combustion, which is supplied by the internal burner fan. The air enters the burner funnel and gets mixed with a high pressure fuel jet. The fuel flow is supplied by an electrical pump, which sucks the fuel from the tank and moves it to the nozzle under high pressure.

7.2 Operating Environment

Only operate and refuel/fuel the heater in well ventilated areas. Careful consideration must be given to the placement of the heater to provide safe and comfortable heating. Ensure continuous ventilation is provided to the heater operating area. A ventilation opening must run from where the heater is to be operated to the outside of the premises.

Bodyshop filler dust/paint overspray will damage the motor bearing, clog the filter and contaminate the combustion chamber, causing flame flutter and health hazards. Please note that any parts damaged by filler dust/paint overspray or similar will not be covered by warranty.

7.3 Positioning



Warning: Using the heater in dusty environments or those that contain aerosols may cause damage to the heater or present a fire hazard.



Warning: Sufficient clearance must be left around the heater to ensure clean combustion and reduce the risk of fire.

Do not obstruct the air intake to the heater and always allow the following clearances around the heater from combustible materials:

- Front: 3.5 m
- Sides: 2.0 m
- Top: 2.0 m
- Rear: 2.0 m

7.4 Re-fuelling



Warning: Never use fuels that the heater is not rated for, only use diesel, paraffin (C1) or kerosene. Use of other fuels may cause damage to the heater, or cause an explosion/fire hazard.

- Never use highly volatile fuels such as petrol/gasoline.
- Only perform refuelling operations in a well ventilated area that allows fuel vapours to safely disperse.
- Make sure the heater power switch is in the off position (0) and disconnected from the mains electrical power supply.
- Only refuel when the heater chamber has cooled, if refuelling after use the outer casing will remain hot - do not touch!
- Only use clean/new diesel, paraffin (C1) or kerosene fuel.
- Wear appropriate PPE to refuel the heater and immediately wash/wipe off any fuel if it comes into contact with your skin or body parts.

- Ensure the fuel filter is clean and unblocked prior to refuelling.
- Make sure the tank is free of contaminates including water prior to filling.
- Put the machine on a stable surface, unscrew the fuel tank cap, and add fuel until the gauge indicates the fuel tank is full. Do not overfill. Use of a suitable funnel may make the re-filling process easier.
- Once the fuel tank is filled, tighten the fuel tank cap clockwise after refuelling.
- Clean any fuel spills with a suitable spills kit and store any unused fuel in a suitable container/location.

This heater is able to run on both diesel and C1 paraffin fuel. If changing from one fuel type to another, ensure that the fuel tank is first completely emptied of the original fuel. Mixing fuels can cause the heater to smoke and produce abnormal flames. The heater's pressure and air flow settings are factory set to be compatible with diesel fuel. If C1 paraffin will be used as a primary fuel source, or if changing from diesel to C1 paraffin, these settings may need changing. Contact an SIP agent to discuss this before using, or changing to, C1 paraffin.

7.5 Starting the Heater



Important: The first ignition of the heater should be carried out outdoors, this will allow any oils etc. used during the manufacturing process to be burnt off.

- Plug the mains lead into a suitable mains electrical supply and turn the mains switch on. The ambient temperature will be shown, with the set target temperature shown as 2 dashes.
- Push the heater ignition power switch to the on (I) position.
- The temperature that the thermostat is set to will be shown on the display.

If the set temperature is lower than the ambient temperature, the heater will not run. To start the heater, turn the thermostat control clockwise to raise the set temperature (as shown on the display) above the ambient temperature. When the set temperature is higher than the ambient temperature the heater will start to run.

The set temperature can be adjusted at anytime during operation. Turn the thermostat control anticlockwise to lower the set temperature and clockwise to raise the set temperature. When the ambient temperature reaches the set temperature the heater

will stop running, and when the ambient temperature drops below the set temperature it will automatically begin operating again.

Please be aware that the heater may display unusual behaviour the first time it is used or if it has not been used for a while, such as:

- Strange burning smells due to dust in the burner chamber.
- Smoking (white or black) due to dust in the burner chamber.
- Uneven burning due to dust in the burner chamber or air in the fuel pump.
- Strange sounds like snapping due to thermal expansion.
- Flickers of flame out of the infra-red plate due to air in the fuel nozzle.
- Small sparks on the infra-red plate due to carbon dust in the combustion tank.

These symptoms should disappear after a few minutes. If they do not disappear or if they are extreme, switch off the heater and contact a SIP customer service agent.

Please note, the operating temperature range of this heater is -25 to 65°C.

7.6 Stopping the Heater



Important: Do not turn the mains switch off or disconnect the heater from the mains supply to stop the heater.

- Push the heater ignition power switch to the off (0) position.
- Combustion will stop, it is safe to unplug the heater from the mains supply.

8 Maintenance



Danger: Maintenance operations should only be carried out by suitably qualified persons.



Warning: Never attempt to service or perform maintenance on the heater whilst it is still hot, or plugged into the electrical mains supply.

RECOMMENDED MAINTENANCE SCHEDULE: Proper routine maintenance of the heater will help prolong its life. Please perform maintenance checks and operations according to the maintenance schedule. If there are any questions about the maintenance procedures listed in this manual, please contact an SIP service agent.

Component	Frequency	Procedure
Fuel Tank	Clean every 150-200 hours of operation or when necessary	Empty and rinse with fresh fuel.
Nozzle	Clean or replace once per season or when necessary.	Contact an SIP service agent.
Photocell	Clean once per season or when necessary.	Contact an SIP service agent.
Fuel Filter	Clean or replace twice per season or when necessary.	Clean the fuel filter with clean fuel.
Ignition Device	Clean or replace every 1000 hours of operation, or when necessary.	Contact an SIP service agent.
Fan Blades	Clean when necessary.	Contact an SIP service agent.



Note: Do not store the heater with fuel inside the tank for more than 2 months as the fuel will go stale.

9 Troubleshooting

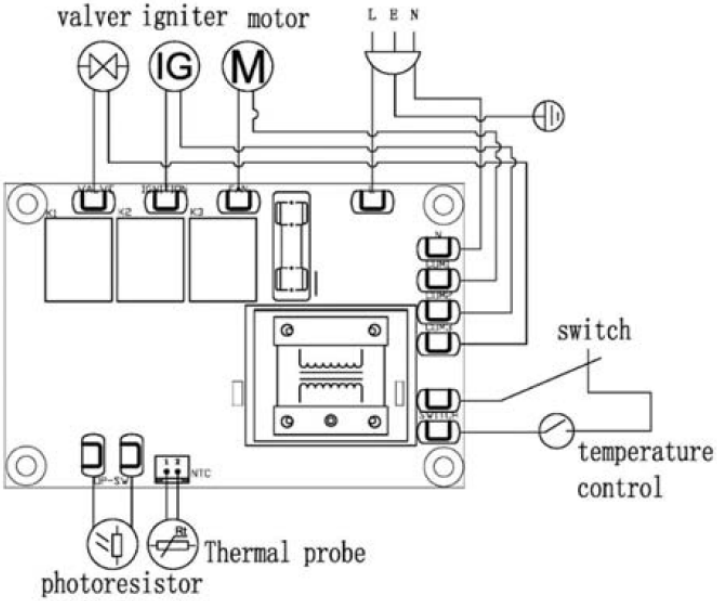


Warning: **Always** switch off, unplug, and allow to cool completely before doing any maintenance to avoid electrocution and burns.

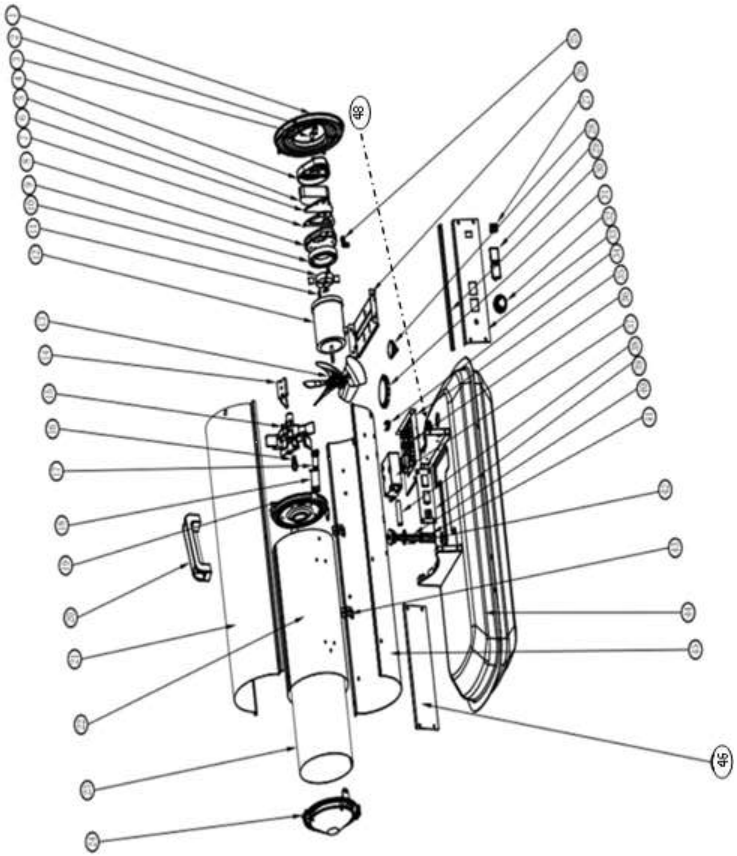
Error Code	Cause	Corrective Action
E1	1. Lack of fuel. 2. Photocell issues. 3. Abnormal or insufficient burner. 4. Ignition misfire.	1. Refill fuel tank. 2. Contact SIP customer service agent. 3. Replace the fuel and clean the fuel filter. 4. Contact SIP customer service agent.
E2	Temperature sensor failure.	Check the probe wire connection. Check the sensor for damage. Contact SIP customer service agent.

9.1 Exploded Drawing and Parts List

Wiring Diagram



Exploded Parts Diagram



Ref No	Description	SIP Product Code
1	Rear Grille	PW24-00269
2	Blanking Plug	PW24-00270
3	Pressure Regulating Screw	PW24-00271
4	Air Pump Gland	PW24-00272
5	Intake Filter	PW24-00273
6	Outlet Filter	PW24-00274
7	Air Pump Gasket	PW24-00275
8	Air Pump Cover	PW24-00276
9	Pump Body	PW24-00277
10	Rotor	PW24-00278
11	Rotor Blade	PW24-00279
12	Motor	PW24-00280
13	Fan	PW24-00281
14	Ignition Electrode	PW24-00282
15	Burner Head Assy	PW24-00283
16	Nozzle	PW24-00284
17	Photocell	PW24-00285
18	Photocell Holder	PW24-00286
19	Burner Head Mounting Plate	PW24-00287
20	Handle	PW24-00288
21	Upper Cover	PW24-00289
22	Outer Combustion Chamber Cover	PW24-00290
23	Inner Combustion Chamber	PW24-00291
24	Heat Deflector	PW24-00292
25	Outlet Pipe Elbow	PW24-00293
26	Motor Bracket	PW24-00294
27	Switch	PW24-00295
28	Fuel Gauge	PW24-00296
29	Digital Display Cover	PW24-00297
30	Seal Strip	PW24-00298
31	Fuel Tank Cap	PW24-00299

Ref No	Description	SIP Product Code
32	Thermostat Knob	PW24-00300
33	Control Panel Plate	PW24-00301
34	Earth Tag	PW24-00302
35	PCB Mounting Plate	PW24-00303
36	Main PCB	PW24-00304
37	Ignition Transformer	PW24-00305
38	Insulation Sheath	PW24-00306
39	Display PCB	PW24-00307
40	Inlet Pipe	PW24-00308
41	Fuel Inlet Pipe Filter	PW24-00309
42	Inlet Pipe Gasket	PW24-00310
43	Chamber Support Bracket	PW24-00311
44	Fuel Tank Assembly	PW24-00312
45	Lower Cover	PW24-00313
46	Side Panel	PW24-00314
47	Fuel Service Kit / Ref no. 5; 6; 7; 40; 41; 42	PW24-00767
48	Fuel Filler Filter inc Metal Insert	PW24-00770
49	Combustion Chamber Assembly / Ref no. 19; 22; 23; 24; 43	PW24-00773

10 UK - Declaration of Conformity

We, SIP (Industrial Products) Ltd, Gelders Hall Road, Shepshed, Loughborough, Leicestershire, LE12 9NH, United Kingdom

As the manufacturer within the UK, England, Scotland and Wales, declare that the

SIP FIREBALL® XD50F Diesel/Paraffin Space Heater - 09590

Conforms to the requirements of the following regulation(s), as indictated:

Electrical Equipment (Safety) Regulations 2016
Electromagnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
The Ecodesign for Energy-Related Products and Energy Information Regulations 2021

The following designated standards have been applied:

BS EN 62233:2008

The following technical standards have been applied:

BS EN 60335-2-102:2016
EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021
BS EN IEC 55014-1:2021
BS EN IEC 55014-2:2021
BS EN IEC 61000-3-2:2019+A1:2021
BS EN 61000-3-3:2013+A2:2021
BS EN 13842:2004



Mr. P Ippaso - Managing Director
SIP (Industrial Products) Ltd
Date: 04/06/2026

11 EU - Declaration of Conformity

We, SIP (Machinery Europe) Ltd, ASM, Block One, Quayside Business Park, Dundalk, County Louth, A91 DP8R, Republic of Ireland

As the manufacturer's authorised representative within the EC, declare that the

SIP FIREBALL® XD50F Diesel/Paraffin Space Heater - 09590

Conforms to the requirements of the following directive(s), as indictated:

2014/35/EU	Low Voltage (LVD) Directive
2014/30/EU	Electromagnetic Compatibility (EMC) Directive
2011/65/EU	Restriction of Hazardous Substances (RoHS) Directive
2009/125/EC	Ecodesign Directive

And the relevent harmonised standard(s), including:

EN 60335-2-102:2016
EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021
EN 62233:2008

The following technical standards have been applied:

EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A2:2021
EN 13842:2004



Mr. P Ippaso - Managing Director
SIP (Machinery Europe Ltd)
Date: 04/06/2026

CE

12 Information Requirements for Gaseous/Liquid Fuel Local Space Heaters (Regulation (EU) 2024/1103)

Contact Details (UK):	SIP (Industrial Products) Ltd, Gelders Hall Road, Shepshed, Loughborough, Leicestershire, LE12 9NH, United Kingdom
Contact Details (EU):	SIP (Machinery Europe) Ltd, ASM, Block One, Quayside Business Park, Dundalk, County Louth, A91 DP8R, Republic of Ireland
Model identifier: 09590	
Indirect heating functionality: No	
Direct heat output: 15 kW	
Indirect heat output: N/A (kW)	
Minimum permissible total flue duct length (vertical + horizontal pipe): N/A (m)	

Fuel	Diesel, Kerosene		Nitrogen oxides (NO_x) emissions	
			Value	**Unit**
Select fuel type	Liquid		< 22.43	mg/kWh$_{input}$GCV)

Item	Symbol	Value	Unit
Heat Output			
Nominal Heat output	P_{nom}	20	kW
Minium heat output (indicative)	P_{min}	N/A	kW
Auxiliary electricity consumption			
At nominal heat output	el_{max}	0.167	kW
At minimum heat output	el_{min}	N/A	kW
Power consumption			
In off-mode	P_0	0	W
In standby mode	P_{sm}	0.0011	W
In idle mode	P_{idle}	N/A	W
In networked standby mode	P_{nsm}	N/A	W
Standby mode with display of information or status	No		
Permanent pilot flame power requirement			
Pilot flame power requirement (if applicable)	P_{pilot}	N/A	kW

Item	Symbol	Value	Unit
Efficiency (NCV)			
Useful efficiency at nominal heat output	$\eta th_{,nom}$	100	%
Useful efficiency at minimum heat output (indicative)	$\eta th_{,min}$	N/A	%
Seasonal space heating energy efficiency	η_s	84.90	%
Type of heat output/room temperature control (select one)			
Single stage heat output, no room temperature control	No		
Two or more manual stages, no room temperature control	No		
Mechanic thermostat room temperature control	No		
Electronic room temperature control	Yes		
Electronic room temperature control plus day timer	No		
Electronic room temperature control plus week timer	No		
Other control options (multiple selections possible)			
Room temperature control, with presence detection	No		
Room temperature control, with open window detection	No		
Distance control option	No		
Adaptive start control	No		
Working time limitation	No		
Black bulb sensor	No		
Self-learning functionality	No		
Control accuracy	No		

13 Notes



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility please use it or alternatively use a recognised recycling agent. This will allow the recycling of raw materials and help protect the environment.

FOR HELP OR ADVICE ON THIS PRODUCT PLEASE CONTACT YOUR DISTRIBUTOR OR SIP DIRECTLY ON:

T: 01509 500400
E: sales@sip-group.com or customerservice@sip-group.com

SIP INDUSTRIAL

British Assessment Bureau
UKAS MANAGEMENT SYSTEMS
8289
ISO 9001
QUALITY MANAGEMENT

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