

**EN**

Original Instructions  
Version 1

**DRAPER**<sup>®</sup>

2kW & 2.8kW PTC

# **ELECTRIC SPACE HEATER**

**04565, 04566**



**UK  
CA** **CE**

# 1. Preface

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These are the original product instructions. This document is part of the product; retain it for the life of the product, passing it on to subsequent holders. Read this manual in full before attempting to assemble, operate, or maintain this product.

This Draper Tools manual describes the purpose of the product and contains all the necessary information to ensure its correct and safe use. Following all the instructions and guidance in this manual will ensure the safety of both the product and the operator and increase the lifespan of the product.

All photographs and drawings within this manual are supplied by Draper Tools to help illustrate correct operation of the product.

Every effort has been made to ensure the information contained in this manual is accurate. However, Draper Tools reserves the right to amend this document without prior warning. Always use the latest version of the product manual.

## 1.1 Product Reference

**User Manual for:** 2kW PTC Electric Space Heater, 2.8kW PTC Electric Space Heater

**Stock No:** 04565, 04566

**Part No:** ESH2000PTC/B, ESH3000PTC

## 1.2 Revisions

**Version 1:** May 2022  
First release

As our manuals are continually updated, always ensure that the latest version is used.

**Download the latest version from:**  
[drapertools.com/manuals](http://drapertools.com/manuals)

## 1.3 Understanding the Safety Content of this Manual

**WARNING!** – Situations or actions that may result in personal injury or death.

**CAUTION!** – Situations or actions that may result in damage to the product or surroundings.

**Important:** – Information or instructions of particular importance.

## 1.4 Copyright © Notice

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### 3. Warranty

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Draper Tools products are carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, return the complete tool to your nearest distributor or contact Draper Tools directly. Contact information can be found at the back of this manual.

Proof of purchase must be provided.

If, upon inspection, it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This warranty period covers parts and labour for 12 months from the date of purchase. Where tools have been hired out, the warranty period covers 90 days from the date of purchase.

This warranty does not apply to any consumable parts, batteries or normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper Tools repair agent.

In all cases, to make a claim for faulty workmanship or materials within the standard warranty period, please contact or return the product to the place of purchase. Proof of purchase may be required.

If the place of purchase is no longer trading or if you experience any difficulties with your warranty, please contact Customer Services with the product details and your proof of purchase. Contact details can be found at the back of this manual.

If the tool is not covered by the terms of this warranty, repairs and carriage charges will be quoted and charged accordingly.

This warranty supersedes any other guarantees expressed or implied and variations of its terms are not authorised.

Your Draper Tools guarantee is not effective until you can produce, upon request, a dated receipt or invoice to verify your purchase within the guarantee period.

Please note that this warranty is an additional benefit and does not affect your statutory rights.

#### **Draper Tools Limited**

## 4.1 Scope

This heater is intended to raise the ambient temperature in garages and workshop environments and is suitable for domestic and light commercial use only. Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Part of our core range, this product is suitable for enthusiasts and tradespersons alike.

**WARNING! This product is not a toy and must be respected.**

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

## 4.2 Specification

Stock No.	04565	04566
Part No.	ESH2000PTC/B	ESH3000PTC
Rated voltage	220~240V	220~240V
Rated input	2,000W	2,800W
Rated frequency	50Hz	50Hz
Rated current	8.9-9.1A	11.7-12.7A
Fuse	10A	13A
Position settings		
Off	0W	0W
Fan only	25W	25W
Half power	1,000W	1,400W
Full power	2,000W	2,800W
Max. heat output	6,824 BTU	9,554 BTU
Dimensions	W 210 x H 217 x D 160mm	W 265 x H 290 x D 210mm
Heating area	20m <sup>3</sup>	32m <sup>3</sup>
Thermal cut-out	68°C	85°C
IP rating	IP20	IP20
Weight	1.65kg	2.85kg

**Important:** Read all the Health and Safety instructions before attempting to operate, maintain or repair this product. Non-compliance with these instructions may result in injury or damage to the user or the product.

### 5.1 General Health and Safety Precautions for this Heater

- Observe all standard safety precautions and good practices when working with electrical equipment.
- Take extra care when using this product around children.
  - Children of less than three years should be kept away unless continuously supervised.
  - Children aged between three years and eight years shall only switch on/off the appliance if it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
  - Children aged between three years and eight years shall only plug in, regulate and clean the appliance or perform user maintenance.
- Keep your work environment clear and well-lit, with bystanders at a safe distance.
- Before every use, inspect the heater for broken, cracked, loose or corroded parts.

**Important: DO NOT** use this product if it is damaged in any way. Contact Draper Tools to discuss repair and replacement options.
- Use the product only in the manner instructed in this manual and **DO NOT** modify it in any way.
- This heater is for indoor use **ONLY**.
- **DO NOT** expose this product to temperatures greater than 50°C.
- **DO NOT** use this heater in small rooms that are occupied by individuals that are not capable of leaving the room on their own, unless constant supervision is provided.
- **DO NOT** use the heater in dusty environments.
- Position the heater on a firm and level surface during use and ensure that the adjustable screws are tightly secured.
- The heater must **ONLY** be used in its upright position.
- Position this product **ONLY** on fire-resistant flooring.
- **DO NOT** position the heater in close proximity to curtains or other combustible materials that may move and come into contact with the heater.
  - Allow a minimum of 2m clearance between the heater outlet grille and any nearby objects.
- **DO NOT** position this heater in the vicinity of combustible materials, in explosive environments or in the presence of flammable or combustible gases and vapours.
- **DO NOT** position this heater below or pointing towards a power socket or outlet.
- Ensure that both switches are in the “off” position before connecting the heater to the power supply.
- **ONLY** use this product with power supplies that match the rated voltage of the heater.
  - **NEVER** use this heater on an extension lead, multi-socket or plug adaptor; it must be plugged directly into the power supply.
  - **NEVER** plug more than one heater into the same power outlet.
- **NEVER** abuse the power cord.
  - Untangle the power cord fully before connecting it to the power supply.
  - **NEVER** remove the plug from the power supply by pulling on the cord.
  - **DO NOT** carry the product by the cable or plug.
  - Keep the power cord away from sources of heat, liquids, sharp edges and moving parts.
  - The power cord attached to this product is not suitable for use on building sites.
- **NEVER** allow the power cord to come into contact with other heated objects or direct the heater at the power cord or supply.
- This is a Class I appliance.
  - This product requires an earth connection to protect against electric shock from accessible conductive parts in the event of a failure of the basic insulation.
  - To reduce the risk of electric shock, avoid contact with earthed objects during use.
- **ALWAYS** check that the heater is positioned safely before turning it on.
- **NEVER** leave the heater unattended while it is on.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.

- **DO NOT** use this heater with a programmer, timer, separate remote-control system or any other device that switches the heater on automatically, as it may be covered or positioned incorrectly when activated and pose a fire risk.
- **NEVER** cover any part of the heater as this may cause the heater to overheat or the covering item to ignite or burn.
- **NEVER** insert foreign objects through the grilles.
- **DO NOT** operate the heater without both of the grilles installed.
- **WARNING! Risk of shock!**
  - **DO NOT** allow the heater to come into contact with water or any other liquid.
  - **DO NOT** use this heater in the vicinity of a bath, shower, swimming pool or other body of water.
  - **DO NOT** touch the heater with wet hands.
- **WARNING! Some parts of the product become very hot during use and may cause burns.**
  - **DO NOT** touch the metal grille on the front or rear of the heater during or immediately after use.
  - **ALWAYS** handle the heater by the safety tab when adjusting the position of the heater during and immediately after use.
  - **ALWAYS** switch off the heater, disconnect it from the power supply and allow it to cool for at least 20 minutes before attempting to move or reposition it.
  - Particular attention **MUST** be given when children and vulnerable people are present.

qualified personnel in order to avoid a hazard.

The damaged or incomplete plug, when cut from the cable, shall be disabled to prevent connection to a live electrical outlet.

This product is Class I† and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

**CAUTION! DO NOT use this product with an extension lead or multi-socket.**

**†Earthed:** This product requires an earth connection to protect against electric shock from accessible conductive parts in the event of a failure of the basic insulation.

## 5.2 Connection to the Power Supply

This appliance is supplied with an approved plug and cable for your safety. The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, ensure the substitute is of the correct rating, approved to BS 1363/A and ASTA or BS Kite marked.

ASTA 

BSI 

The fuse can be replaced by removing the cover of the plug using a cross-headed screwdriver and removing the broken fuse from its holder. This should only be performed by suitably qualified personnel.

If the power supply cord is damaged, it must be replaced by Draper Tools, an authorised service agent or similarly

# 6. Identification and Unpacking

## 6.1 Product Overview

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment.



- |                               |                            |
|-------------------------------|----------------------------|
| 1. Inlet grille               | 6. PTC heater element      |
| 2. Operation control dial     | 7. Safety tab              |
| 3. Outlet grille              | 8. Stand                   |
| 4. Position adjustment screws | 9. Thermostat control dial |
| 5. Power LED                  | 10. Transport handle       |

## 6.2 Packaging

Keep the product packaging for the duration of the warranty period in case the product needs to be returned for repair.

**WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.**

Please visit [drapertools.com](http://drapertools.com) for our full range of accessories and consumables.



**Important:** Before use, read and understand all the safety instructions listed in this manual. The heater may emit an odour during first use. This is normal and will pass shortly after switching on.

**WARNING! DO NOT** leave the heater unattended while it is connected to the power supply or switched on.

## 7.1 Positioning the Heater

This heater is intended for use in small, enclosed spaces such as offices, home garages, etc.

Position the fan so that it stands upright unaided on a firm, level and fire-resistant surface and is located a safe distance away from flammable objects and wet environments.



Fig. 1

Set the angle of the heater by loosening the position adjustment screws (4), tilting the heater as required and then tightening the screws to secure it.

**Important: ALWAYS** ensure that the position adjustment screws are tightly secured before switching on the heater.

Ensure that the operation control dial (2) is set to the off position (○) and the thermostat control dial (9) is set to the lowest position, then connect the plug directly to a power outlet.

**WARNING! DO NOT** attempt to adjust the angle of the heater during or immediately after use. **ALWAYS** switch off the heater, disconnect the power supply and allow it to cool before loosening the position adjustment screws.

## 7.2 The Operation Control Dial



Fig. 2

The operation control dial (2) has four operating positions:

**Position Function**

○	Off (disconnect the power supply when not in use)
⌚	Fan only (no heat)
⌚	Half power
⌚	Full power

## 7.3 The Thermostat Control Dial



Fig. 3

The thermostat control dial (9) can be used to set the desired room temperature. The heater will then maintain the chosen temperature automatically.

1. After connecting the heater to the power supply, turn the operation control dial (2) to the desired position.

2. Turn the thermostat control dial clockwise to the maximum position and allow the heater to heat the space in order to set the desired ambient temperature.
3. When the desired temperature is reached, turn the thermostat control dial anticlockwise until it "clicks" and the power LED goes out.
4. The heater will automatically switch on and begin heating when the ambient temperature drops below the current setting.
5. **Important:** If the fan only (🌀) setting is selected on the operation control dial (2), the thermostat control dial must be set to its maximum position.

## 7.4 The Safety Tab

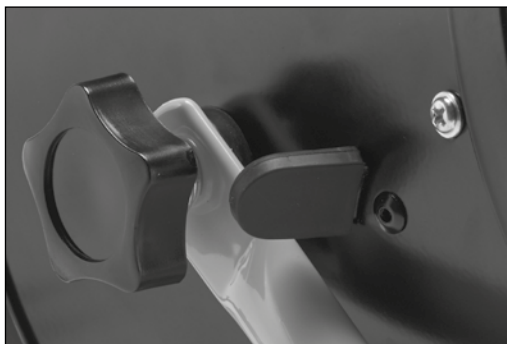


Fig. 4

The heater is equipped with a safety tab (7) for safe adjustment when the heater is in use and to prevent the heater from being directed towards the ground.

**Important:** The safety tab **MUST NOT** be removed or bent out of position under any circumstances. **DO NOT** use the heater if the safety tab has been compromised in any way and contact Draper Tools for support.

## 7.5 Switching Off the Heater After Use

Before switching off the heater, turn the operation control dial (2) to the fan only (🌀) setting and turn the thermostat control dial to its maximum position. Allow the fan to blow for a few minutes to cool the heater element before turning both dials to their lowest position and disconnecting the power supply.

## 7.6 Thermal Cut-Out

The heater is equipped with a safety device that cuts the power to the heating element, which is activated when the heater overheats. When this occurs, the heater must be switched off, disconnected from the power supply and left to cool for at least ten minutes.

**Important:** If overheating causes the heater to switch off automatically, the cause of overheating **MUST** be rectified before the product is used again. Possible causes include covering of the inlet (1) and outlet (3) grilles or the fan being positioned too close to a wall or other object.

Once the heater has fully cooled, reconnect it to the power supply and switch it back on again.

**Important:** Read all the Health and Safety information in this manual before attempting to maintain this product. All maintenance should be carried out **ONLY** by authorised and suitably qualified personnel.

**WARNING! ALWAYS ensure that the heater is switched off, disconnected from the power supply and has fully cooled before attempting to maintain this product.**

## 8.1 General Maintenance and Storage

- Keep the heater clean and dry.
  - Clean the heater body using a dry cloth **ONLY**.
  - Clean the heater grilles using a dry cloth or brush, ensuring that all dust and debris is collected and removed from the heater.
- Any maintenance to the plug and power cable **MUST** be carried out by suitably qualified personnel.
- Any repairs to the heater must be carried out by suitably qualified personnel.
- The heater should be inspected at least once a year by suitably qualified personnel.
- Store the heater in its original bag and box, in a clean and dry location, out of reach of children.

## 8.2 Troubleshooting

Problem	Possible Cause	Remedy
The heater does not operate when switched on.	The power supply is not active.	Ensure that the power supply to which the heater is connected is switched on.
	The plug or cable connection is loose or damaged.	Remove the plug from the power supply and check it for damage or loose parts.
The heating element is glowing.	The input voltage is incorrect.	Disconnect the heater <b>IMMEDIATELY</b> and allow it to cool before reconnecting to a power supply matching the rating plate on the product.
	The input grille is blocked.	Disconnect the heater and check that the input grille is not obstructed by external objects. Allow the heater to cool, then clean the grille with a brush or dry cloth.
The heater does not emit any heat.	The ambient temperature is too high.	Increase the thermostat control setting or move the heater to a cooler environment.
	The thermostat is damaged.	Check that the power LED illuminates when the thermostat control dial is turned to its maximum position. Contact Draper Tools to discuss repair and replacement options.
	The thermal cut-out has been activated.	Switch off the heater, disconnect it from the power supply and allow it to cool for at least ten minutes. Check for and clear any blockages and obstructions. Reconnect the power and switch on the heater.
The heater emits an unusual noise	The fan is obstructed.	Switch off the heater, disconnect the power supply and allow it to cool. Look through the inlet grille to check for any obstructions. Clean both grilles thoroughly. Contact Draper Tools for support.
	The heater is not level.	Ensure that the heater is positioned on a flat and level surface.



At the end of its working life, or when it can no longer be repaired, dispose of the heater according to local regulations.

Contact your local authority for details of collection schemes in your area.

In all circumstances:

- **DO NOT** dispose of this product with domestic waste.
- **DO NOT** dispose of this product with unsorted municipal waste.
- **DO NOT** incinerate.
- **DO NOT** abandon in the environment.

# 10. Explanation of Symbols



Read the instruction manual



**Warning!**



Danger of electric shock



Hot during use; do not touch



Rated voltage



Rated input



Do not cover



Do not incinerate or throw onto fire



Do not abandon in the environment



Product weight



Indoor use only; do not expose to rain



Class I appliance, Earthed



WEEE -

Waste Electrical & Electronic Equipment  
Do not dispose of Waste Electrical & Electronic Equipment  
in with domestic waste



UK Conformity Assessed



European conformity





## Contact Details

### **Draper Tools**

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### **Service / Warranty Repair Agents**

For aftersales servicing or warranty repairs, please contact the Draper Tools Product Helpline for details of an agent in your area.