



**DRAPER**<sup>®</sup>

客戶代號	ITEM NO.	材 質	尺 寸	印 刷 顏 色	改 稿 日 期
UK905	63858 & 92967 共用說明書	Instructions	A5 x 16 Pages	■ K	22.10.21

# PTC ELECTRIC SPACE HEATERS

92967 & 63858



These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

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

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

# 1. TITLE PAGE

---

## 1.1 INTRODUCTION:

**USER MANUAL FOR: PTC Electric Space Heaters**

**Stock Nos: 92967 & 63858**

**Part Nos: ESH2000PTC & ESH2800PTC**

## 1.2 REVISIONS:

---

**Date first published July 2019.**

---

**Updated August 2020.**

---

---

As our user manuals are continually updated, users should make sure that they use the very latest version.

**Downloads are available from:** <http://drapertools.com/manuals>

Draper Tools Limited  
Hursley Road  
Chandler's Ford  
Eastleigh  
Hampshire  
SO53 1YF  
UK

Draper Tools Limited  
Oude Graaf 8  
6002 NL  
WEERT  
Netherlands

**Website:** [drapertools.com](http://drapertools.com)

**Product Help Line:** +44 (0) 23 8049 4344

**General Fax:** +44 (0) 23 8026 0784

## 1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

**WARNING!** – Information that draws attention to the risk of injury or death.

**CAUTION!** – Information that draws attention to the risk of damage to the product or surroundings.

## 1.4 COPYRIGHT © NOTICE:

Copyright © Draper Tools Limited.

Permission is granted to reproduce this publication for personal and educational use only. Commercial copying, redistribution, hiring or lending is prohibited.

No part of this publication may be stored in a retrieval system or transmitted in any other form or means without written permission from Draper Tools Limited.

In all cases this copyright notice must remain intact.

## 2. CONTENTS

---

<b>1</b>	<b>TITLE PAGE</b>	
1.1	INTRODUCTION .....	2
1.2	REVISION HISTORY .....	2
1.3	UNDERSTANDING THIS MANUAL .....	2
1.4	COPYRIGHT NOTICE.....	2
<b>2</b>	<b>CONTENTS</b>	
2.1	CONTENTS.....	3
<b>3</b>	<b>WARRANTY</b>	
3.1	WARRANTY.....	4
<b>4.</b>	<b>INTRODUCTION</b>	
4.1	SCOPE.....	5
4.2	SPECIFICATION .....	5
4.3	HANDLING AND STORAGE .....	5
<b>5.</b>	<b>HEALTH AND SAFETY INFORMATION</b>	
5.1	GENERAL HEATER SAFETY WARNINGS .....	6-8
5.2	RESIDUAL RISK .....	8
5.3	CONNECTION TO THE POWER SUPPLY.....	8
<b>6.</b>	<b>TECHNICAL DESCRIPTION</b>	
6.1	IDENTIFICATION .....	9
<b>7.</b>	<b>UNPACKING AND CHECKING</b>	
7.1	PACKAGING .....	10
<b>8.</b>	<b>PREPARING THE SPACE HEATER</b>	
8.1	SETTINGS .....	11
8.2	THERMOSTAT .....	11
8.3	SAFETY TAB.....	11
<b>9.</b>	<b>MAINTENANCE AND TROUBLESHOOTING</b>	
9.1	MAINTENANCE .....	12
9.2	TROUBLESHOOTING .....	12
<b>10.</b>	<b>DISPOSAL</b>	
10.1	DISPOSAL.....	13
<b>11.</b>	<b>EXPLANATION OF SYMBOLS</b>	
11.1	EXPLANATION OF SYMBOLS .....	14
	<b>DECLARATION OF CONFORMITY .....</b>	<b>ENCLOSED</b>

## 3. WARRANTY

---

### 3.1 WARRANTY

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact

**Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.**

**Telephone Sales Desk: (023) 8049 4333 or Product Help Line (023) 8049 4344.**

A proof of purchase **must** be provided with the tool.

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 covering labour is 12 months from the date of purchase except where tools are hired out when the warranty period is 90 days from the date of purchase. The warranty is extended to 12 months for parts only. This warranty does not apply to any consumable parts, any type of battery 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 warranty repair agent.

**Note:** If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This warranty applies in lieu of any other warranty expressed or implied and variations of its terms are not authorised.

Your Draper warranty is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the warranty period.

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

**Draper Tools Limited.**

# 4. INTRODUCTION

## 4.1 SCOPE

This heater is intended for garage/workshop use, for domestic and light commercial use only. Any other application is considered misuse.

As part of our core range, this product is suitable for enthusiasts and tradespeople alike. Any application other than that it was intended for, is considered misuse.

## 4.2 SPECIFICATION

Stock No.....	92967 .....	63858
Part No. ....	ESH2000PTC.....	ESH2800PTC
Rated voltage .....	220~240V.....	220~240V
Rated input .....	2000W.....	2800W
Rated frequency.....	50Hz.....	50Hz
Current .....	9A .....	12A
Fuse .....	10A .....	13A
Position settings:		
○ 0 .....	Off .....	Off
⊙ Fan only.....	20W.....	25W
I Half power .....	1000W.....	1400W
II Full power.....	2000W.....	2800W
Size of heater .....	185 x 170 x 240mm.....	250x200x290mm
Weight .....	1.5kg .....	2.4kg

## 4.3 HANDLING AND STORAGE

This machine should be stored in a dry location and in its box. Avoid storing this machine in areas prone to damp or humidity.

When handling this machine never pick up or carry this machine by the power supply cable. Always lift from the handle.

**Warning:** DO NOT use the heater in the vicinity of showers, bath tubs, wash basins, swimming pools etc. Risk of electric shock/death.

DO NOT cover inlet or outlet of heater.

**Warning:** NEVER plug more than one heater or other device into ANY socket outlet.

DO NOT use on any form of extension cord or multi-socket.

Risk of electrical supply overload/fire.

## 5. HEALTH AND SAFETY INFORMATION

---

### 5.1 GENERAL HEATER SAFETY WARNINGS

**WARNING** Read all safety warnings, instructions, illustrations and specifications provided with this heater. *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference.

#### Work area safety

**Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*

**Do not operate heaters in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Heater create sparks which may ignite the dust or fumes.*

**Keep children and bystanders away while operating a heater.** *Distractions can cause you to lose control.*

#### Electrical safety

**Heater plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) heaters.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*

**Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*  
**Do not expose heaters to rain or wet conditions.** *Water entering a heater will increase the risk of electric shock.*

**Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the heater.**  
**Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*

**Do not operate the heater outdoors, or on an extension cord.**

**Do not operate the heater in a damp location, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

#### Personal safety

**Stay alert, watch what you are doing and use common sense when operating a heater. Do not use a heater while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating heaters may result in serious personal injury.*

**Use personal protective equipment. Always wear eye protection.** *Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing mask used for appropriate conditions will reduce personal injuries.*

**Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying heaters with your finger on the switch or energising heaters that have the switch on invites accidents.*

**Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the heater in unexpected situations.*

**Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

**If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*

**Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*

#### Heater use and care

**Do not force the heater. Use the correct heater for your application.** *The correct heater will do the job better and safer at the rate for which it was designed.*

**Do not use the heater if the switch does not turn it on and off.** *Any heater that cannot be controlled with the switch is dangerous and must be repaired.*

**Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the heater before making any adjustments, changing accessories, or storing heaters.** *Such preventive safety measures reduce the risk of starting the heater accidentally.*

## 5. HEALTH AND SAFETY INFORMATION

---

Store idle heaters out of the reach of children and do not allow persons unfamiliar with the heater or these instructions to operate the heater. *Heaters are dangerous in the hands of untrained users.*

Maintain heaters and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the heater's operation. If damaged, have the heater repaired before use. *Many accidents are caused by poorly maintained heaters.*

Use the heater, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. *Use of the heater for operations different from those intended could result in a hazardous situation.*

Keep handles and grasping surfaces dry, clean and free from oil and grease. *Slippery handles and grasping surfaces do not allow for safe handling and control of the heater in unexpected situations.*

### Service

Have your heater serviced by a qualified repair person using only identical replacement parts. *This will ensure that the safety of the heater is maintained.*

Use in environments with no permanent presence of people.

Normal air circulation through doors and windows must be ensured.

DO NOT operate heater on a timer or allow it to be used unattended, or used on an automatic/electronic separate remote control system.

Use in environments with permanent presence of people.

The apparatus should not be used for continuous heatings of stables and farms.

**Warning: Failure to comply with the precautions and instructions provided with this heater, can result in death, serious bodily injury and property loss or damage from hazards of fire, explosion, burn, asphyxiation, and/or electrical shock.**

Only persons who can understand and follow the instructions should use or service this heater.

If you need assistance or heater information such as instructions manual, labels etc. Please contact the manufacturer.

Check the heater thoroughly for damage. DO NOT operate a damaged heater.

DO NOT modify the heater or operate a heater which has been modified from its original condition.

**Important: Use in open buildings please abide by the relevant national and local guidelines and regulations.**

For indoor use only. Not for use where exposed to weather.

Use ONLY in well ventilated areas.

**Warning: Fire, burn, inhalation and explosion hazard. Keep solid combustibles, such as building materials, paper or cardboard, a safe distance away from the heater. Never use the heater in spaces which do or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals.**

**Caution: Due to the high surface and exhaust temperatures, adults and children must observe clearances to avoid burns or clothing ignition. Do not touch. Keep children, clothing, and combustibles away.**

**Never point the heater directly at persons nearby. Install the heater such that it is not directly exposed to water spray, rain and / or water.**

Operate only on a stable, level surface.

Do not use in a dusty atmosphere. Never restrict or duct inlet or outlet.

Use only with electrical power supply specified on rating plate. The electrical connection and earthing must comply with EN 60335-1 and EN 50165

## 5. HEALTH AND SAFETY INFORMATION

---

Use only a properly earthed socket.

Do not move, handle, or service while the heater is hot or in use.

Use only in accordance with national and local regulations, directives, and all other relevant restrictions.

**Warning: The space heaters must only be used on fire-resistant floors. Safety distance: 2 metres from walls or other objects. The space heater must not be used in rooms containing explosive powders, gas fumes, flammable substances and materials. The space heater must be regularly cleaned if used in dusty environments. All service operations must be carried out by duly qualified and authorised staff only.**

### 5.2 RESIDUAL RISK

**Important note:** Although the safety instructions and operating manuals for our space heater contain extensive instructions of safe working with space heaters, every space heater involves a certain residual risk which can not be completely excluded by safety mechanisms. Space heaters must therefore always be operated with caution!

### 5.3 CONNECTION TO THE POWER SUPPLY

Make sure the power supply information on the machine's rating plate are compatible with the Power supply you intent to connect it to.

This product comes supplied with a UK standard 3 pin plug. It is designed for connection to a Domestic power supply rated at 230V AC.

It is Class I (earthed); is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

This product requires an earth connection.

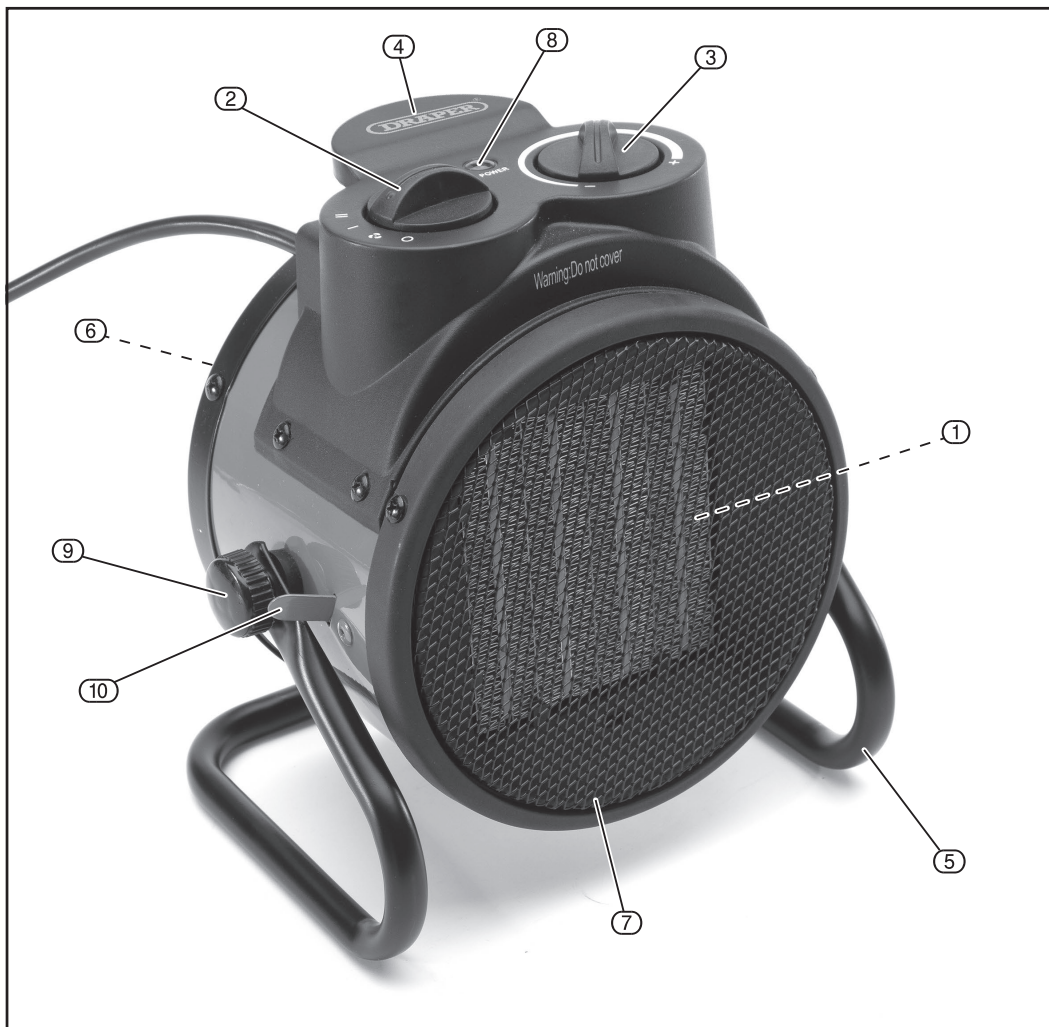
#### **IMPORTANT**

**DO NOT** use with any form of extension lead or multi-socket.

**DO NOT** use two heaters plugged into one twin socket, as this may overload the supply and damage the machine.

## 6. TECHNICAL DESCRIPTION

### 6.1 IDENTIFICATION



- ① PTC heater element.
- ② Operation control dial.
- ③ Thermostat control dial.
- ④ Transport handle.
- ⑤ Stand.
- ⑥ Inlet guard.
- ⑦ Outlet guard.
- ⑧ LED power.
- ⑨ Thumbscrew.
- ⑩ Safety tab.

# 7. UNPACKING AND CHECKING

---

## 7.1 PACKAGING

Carefully remove the product from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing, please contact the Draper Help Line (the telephone number appears on the Title page) and do not attempt to use the product.

The packaging material should be retained at least during the warranty period, in case the machine needs to be returned for repair.

### **Warning!**

- Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.
- If any of the packaging is to be thrown away, make sure they are disposed of correctly, according to local regulations.

## 8. PREPARING THE SPACE HEATER

**Note:** On first use the heater will emit a small amount of odour. This will disappear quickly after initial use.

These heaters are designed for small enclosed spaces like small offices, home garages etc. Always position the fan so that it stands upright on a firm non-flammable surface and at a safe distance from flammable objects and away from any potentially wet or damp environments.

### 8.1 SETTINGS - FIG. 1

Insert the plug into the power supply.

This heater works on 230V/50Hz earthed power supply only.

The control dial (2) has multiple positions.

Position	Function
○	Off (Remove plug when not in use)
⦿	Fan on (no heating)( <b>Note:</b> Thermostat must be set to maximum setting)
I	Half Power
II	Full Power

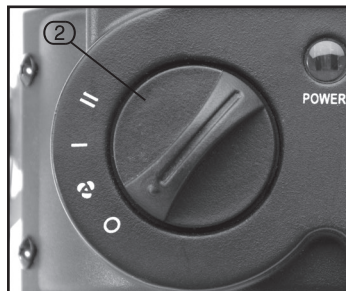


FIG.1

### 8.2 THERMOSTAT - FIG. 2

To set the thermostat, first turn the thermostat dial (3) to its maximum setting. Once the room has reached the required temperature, slowly turn the thermostat anti-clockwise until it “clicks”. This has then “set” the thermostat. The heating element and fan will then turn on and off as required.

The LED will light when the fan is rotating.

**Attention:** Do not leave the heater unattended when it is still operational.

**SAFETY DEVICE:**

This appliance is equipped with a safety device which cuts the power to the heating element when activated.

The thermal cutout activates in the event of the appliance over heating. In the event of the thermal cut out activating, the heater must be switched off, unplugged and left to cool for a minimum of 10 minutes.

The cause for the appliance overheating must be addressed immediately and rectified.

Possible reasons for the appliance overheating include the guard becoming covered, the inlet or outlet vents positioned too close to an object or the fan heater being left to run continuously.

When the unit is sufficiently cool, reconnect it to the mains and switch on again.

Before switching off the heater, turn the thermostat to its minimum setting and let the appliance fan run for at least two minutes to cool the heating element. Then when cooled, turn off the fan and remove the plug from mains power.

### 8.3 SAFETY TAB

The safety tab (10) must NOT be removed or bent out of position as this prevents the heater from being pointed downwards. Heater must always point upwards.

Use thumbscrews (9) to adjust and lock heater.

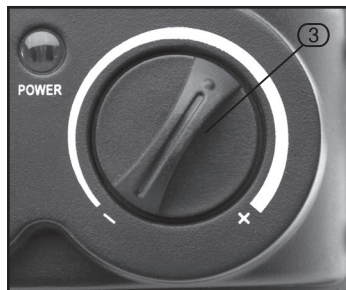


FIG.2

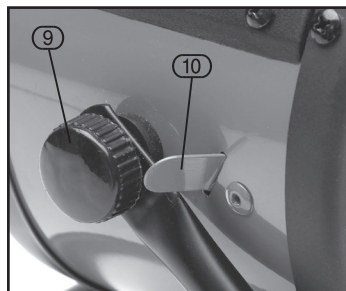


FIG.2

# 9. MAINTENANCE AND TROUBLESHOOTING

---

## 9.1 MAINTENANCE

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your heater in good working condition.

The motor must be correctly ventilated during the heater's operation. For this reason avoid blocking the air inlets.

If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

- Keep the heater clean, especially the motor grid and fan blades.
- Store the heater in a dry, clean and safe place away from the reach of children.
- The heater should be inspected at least once a year by a qualified person.
- Repair can only be made by a suitably trained and qualified person.

## 9.2 TROUBLESHOOTING

**Note:** Isolate the power source by either removing the power supply plug from the socket, or battery from the tool, before carrying out adjustment, servicing or maintenance.

Problem	Possible Cause	Remedy
Motor does not start.	1. Blown fuse in plug.	1. Replace fuse.
	2. Unknown.	2. Return to an authorised service agent for diagnosis.

# 10. DISPOSAL

---

## 10.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not dispose of WEEE\* as unsorted municipal waste.



\* *Waste Electrical & Electronic Equipment.*

# 11. EXPLANATION OF SYMBOLS

---

## 11.1 EXPLANATION OF SYMBOLS



Read the instruction manual.



Class I construction  
*(Must be earthed).*



WEEE –  
Waste Electrical & Electronic Equipment.  
*Do not dispose of Waste Electrical & Electronic  
Equipment in with domestic rubbish.*



# CONTACTS

Draper Tools Limited

UK: Hursley Road, Chandler's Ford, Eastleigh,  
Hampshire. SO53 1YF. U.K.

EU: Oude Graaf 8  
6002 NL Weert (NL)

Help Line: (023) 8049 4344

Sales Desk: (023) 8049 4333

Internet: [drapertools.com](http://drapertools.com)

E-mail: [sales@drapertools.com](mailto:sales@drapertools.com)

General Enquiries: (023) 8026 6355

Service/Warranty Repair Agent:

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

YOUR DRAPER STOCKIST

PJJB0820

©Published by Draper Tools Limited.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise without prior permission in writing from Draper Tools Ltd.