

Jefferson[®]

PROFESSIONAL TOOLS & EQUIPMENT

450W

110V~50Hz

INDUSTRIAL SUBMERSIBLE WATER PUMP

Suitable for Puddle Water & Residue



JEFSUBPIRE085-10

User Manual

v.1.1



ABOUT THIS DOCUMENT

This manual has been compiled by Jefferson Tools and is an integrated part of the product with which it's enclosed and should be kept with it for future reference. Please read all of the information supplied in this User Manual before operating this product.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that you read the information supplied before carrying out any maintenance or repair. By following all the general safety instructions contained in this manual you will help to ensure operator safety and extend the potential life span of the equipment.

All photographs and drawings in this manual are supplied by Jefferson Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure accuracy of information contained in this manual our policy of continuous improvement determines the right to make modifications without prior warning. Contact your nearest Jefferson Dealer if you are unsure about any information included in this manual or require any additional information about the safe use, operation maintenance, or repair of this equipment.

INTRODUCTION

This industrial residue or puddle pump is ideal for pumping large or small areas of water found on flat surfaces, especially after flooding and liquid spills. It's 1" outlet can be adjusted from top or side discharge to suit multiple applications including aquatic environments and construction sites.

- Submersible Water / puddle & residue pump with 450W motor with thermal cutout
- Heavy-duty and durable build quality
- Manufactured from corrosion resistant materials with aluminium outer motor case
- 110V ~ 50Hz power supply with UK 16A plug and 10M cable
- Designed for pumping dirty water and residue with a maximum flow rate of 85L/Min
- Discharge outlet: 1"
- 10M maximum head
- Double-end mechanical seal
- Tough solid rubber base
- Capable of pumping down to 2mm

SPECIFICATIONS

Model Number:	JEFSUBPIRE085-10
Rated Power / Motor:	450W
Power Supply:	110V ~ 50Hz
Plug / Current	UK / 16A
Maximum Flow Rate:	5100L/Hr • 85L/Min
Maximum Head:	10M
Maximum Depth:	5M
Maximum Grain Size:	6mm
Maximum Temp:	40°C
Cable Length:	10M
Insulation Class:	B
Ingress Protection:	IP68
Outlet Diameter:	1"
Dimensions:	190 x 190 x 301cm
NW / GW:	11.8kg / 12.6kg

SAFETY GUIDELINES



Read and ensure that you understand all of the operating instructions, safety precautions and warnings in this Instruction Manual before operating or maintaining this equipment. Most accidents that result from operation and maintenance are caused by the failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing appropriate safety procedures. Never use this equipment or modify it in any way that has not been specifically recommended by the manufacturer. Contact a qualified electrician for advice on any issues relating to electrical safety in your working environment.

- We recommend that you fit a **Residual Current Circuit Breaker (RCCB)** in the main distribution board and that a **Residual Current Device (RCD)** is used when operating this equipment.
- The **Electricity at Work Act 1989** includes legislation that places legal implications on employers to ensure the safety of electrical devices in the workplace. The regulations dictate that all portable equipment must be inspected regularly and tested to ensure that it is safe for use. 'Portable equipment' means any electrical item that can be moved and this is often referred to as **Portable Appliance Testing (PAT)**. PAT testing should be carried out regularly on this equipment by trained, authorised personnel, as required by the legislation. The **Health and Safety at Work Act 1974** states that it is the responsibility of the owner of electrical appliances to ensure that both the equipment and working environments are maintained to ensure safe operation at all times.
- Check that all equipment cables are secure, correctly insulated, free from damage, and protected against short circuit and overload before connecting to the power supply. Do not use worn or damaged cables, plugs, sockets or other fittings.
- Ensure that the power supply matches voltage requirements specified on the equipment and that the plug is wired correctly and fitted with the correct fuse.
- If the electrical fuse blows, ensure it is replaced by an identical type of fuse with the same rating. Never pull or manoeuvre this equipment into position using the power cable (move using the handle). Ensure the power cable is kept away from heat, oil and sharp edges.
- We recommend that the equipment is connected directly to the power supply without the use of extension leads as the resulting voltage drop can reduce motor and pump performance.
- Always disconnect the from the power source and remove any water from the pump before servicing, inspecting, maintaining, cleaning, replacing or checking any parts. Do not try to connect or disconnect to the power supply or operate the equipment with wet hands.
- Do not carry the pump while it is connected to its power source. Do not use this appliance in potentially explosive environments or in the vicinity of flammable liquids or gases.
- Ensure the connection is made to earthed sockets which have been properly installed and tested according to local standards and regulations.
- Ensure mains voltage and fuse meet the ratings stated in the technical data. Do not use extension cables with this equipment.
- Do not use the equipment to pump water from bodies of water where people or animals are present (eg. swimming pools, fish ponds etc.)
- When not in use, the pump should be stored in dry place. Keep out of reach of children. Keep children and animals away from the work area.
- Watch what you are doing and remove any potential distractions before use. Use common sense at all times.
- Do not operate this equipment when you are tired or if you are under the influence of alcohol, drugs or medication that makes you drowsy.
- Keep all screws, bolts, and plates tightly mounted. Check regularly.
- If the equipment appears to be operating unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs by a authorized service centre.
- Only use Jefferson approved replacement parts. Non-approved parts will void your warranty and can lead to malfunction and resulting injuries. Genuine parts are available from Jefferson your dealer.
- Do not modify the equipment for any use other than which it was designed for by the manufacturer. Do not tamper with or attempt to adjust the tank, pressure switch or safety valve. Never strap anything to the tank. Do not subject the tank to impact, vibration, heat, abrasion or corrosive materials.
- Always contact an authorized service centre for advice on any repairs. Unauthorized modification may not only impair the equipment performance but may also result in accident or injury to repair personnel who do not have the required knowledge and technical expertise to perform the repair operations correctly.
- When the pump is not in use ensure that it is switched off, disconnected from the power supply and the air and all residual moisture drained before putting into storage.
- This pump must be used in accordance with Health & safety, government, local authority, and water authority rules and regulations.
- Disconnect the pump from the mains power before changing accessories, servicing or performing any maintenance.
- Ensure that the pump is kept in good condition.
- Only use for pumping water not exceeding 40°C. Do not use in freezing temperatures.
- If the pump is used to pump water from a well, drain or deep receptacle, take adequate precautions to stop persons and animals falling in.
- Use the built-in handle to lower or raise the pump. it may be necessary to attach a suitable rope or pulley to the handle to assist when operating at maximum depths.
- If the bed of the water container contains sludge, sand, gravel or mud etc, suspend the pump or place it on a raised base to operate above the solid matter. Abrasive substances will reduce the working life of the pump, and invalidate your warranty if equipment damage is caused.
- In flood situations the user is responsible for ensuring that the appropriate risk assessments, back-up procedures, alarms etc are correctly installed in case of pump failure. This pump is not designed for continuous use in a fish pond or similar water feature or display.
- Do not operate the pump if any parts are damaged or missing as this may cause failure and/or possible personal injury.
- Do not exceed the maximum submersible depth or any other rated specifications (see equipment specifications).
- Do not allow uncontrolled discharge of contaminated water which would pollute the environment.

OPERATION

1. Fit the discharge pipe to the pump outlet and secure with a clip.
2. Ensure the diameter of the discharge pipe is the same as or greater than the outlet diameter, as a smaller pipe will adversely effect the pump flow rate.
3. Position the pump in the water accordingly, and place the outlet pipe securely in the discharge receptacle or area. Submerge the pump at an angle into the water to prevent air pockets from forming on the underside of the appliance. Once submerged it can be straightened up and positioned for operation. It is recommended that the pump is sunk with its discharge outlet facing up, to release any trapped air.
4. Connect the pump to the electrical mains supply and turn it on to begin pumping.
5. Disconnect from the mains when the water has been removed or reduced to the required level.

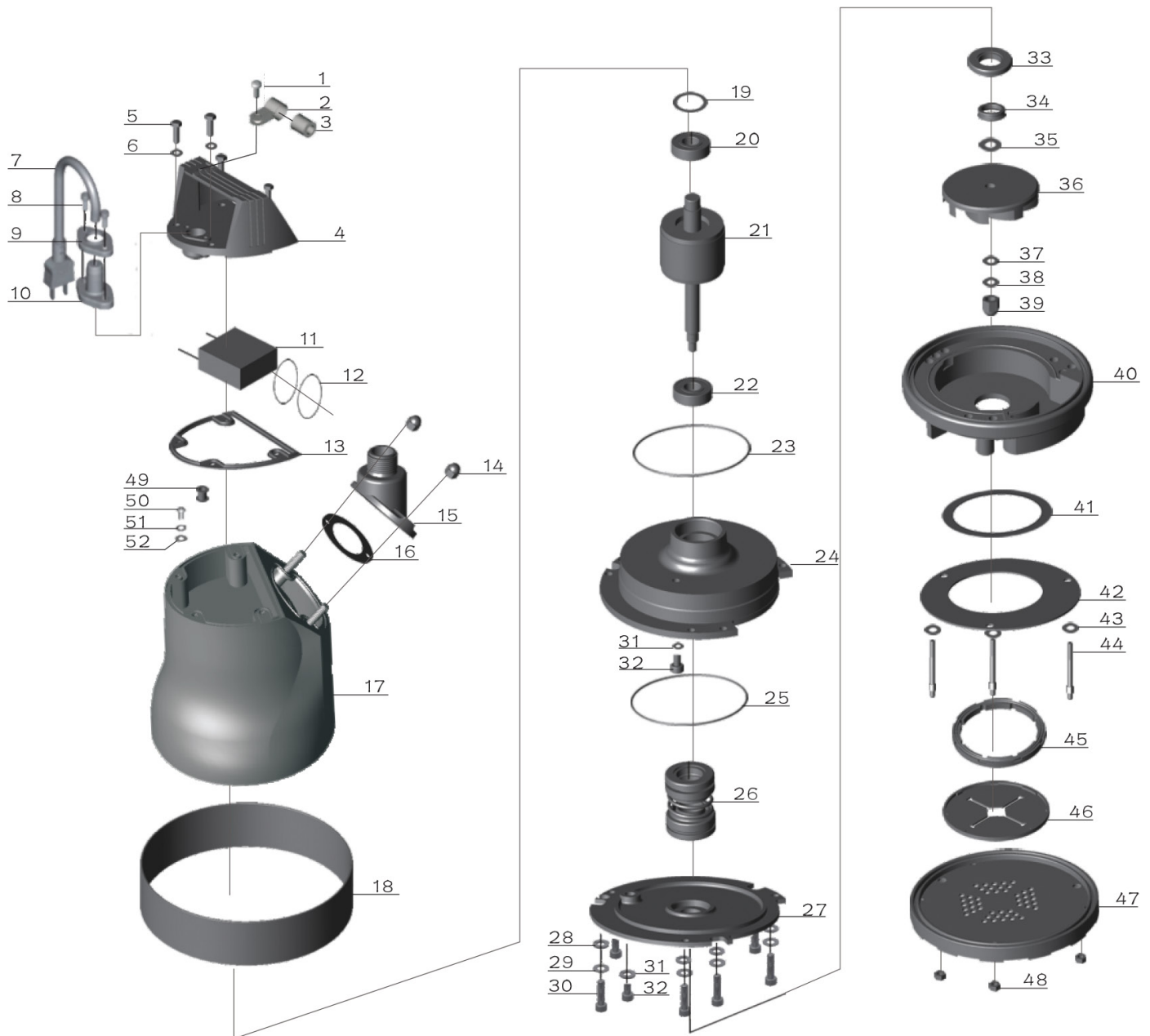
MAINTENANCE

- Ensure all maintenance and repair operations are carried out by fully trained and competent persons.
- Ensure the pump is disconnected from the mains power supply before attempting any service or maintenance.
- Keep all parts of the pump clean. rinse, drain and allow to dry before storing the pump.
- Visually check the equipment for damage before use.
- Regularly check the water inlet on the base of the pump to ensure that there are no blockages. to access the impeller, carefully undo the base screws and remove the base. Clean the impeller and replace the base ensuring that the o ring is correctly positioned
- Do not dismantle any other part of the unit for maintenance purposes.

TROUBLESHOOTING

FAULT	CAUSE	REMEDY
The motor is running as normal but there is no suction.	1. The water level is below the minimum suction depth. 2. Air bubbles in pump accumulated during submersion, or float is incorrectly positioned so the pump does not stop at minimum level and is sucking in air. 3. Clogged intake filter or discharge pipe.	1. Stop the pump. 2. Release air by inclining the pump and re-immersing it in water. 3. Remove the blockage, and clean the unit.
Reduced water volume for level of water.	1. The discharge pipe is bent, or pinched. 2. The discharge pipe too narrow for the flow rate. 3. The pump is partially blocked.	1. Straighten pipe. 2. Use wider diameter discharge pipe. 3. Clean pump.
The pump will not start or suddenly stops during operation.	1. No electrical power. 2. The float is not working. 3. The impeller is jammed.	1. Check the cable, plug and fuse. 2. Contact your authorised service agent. 3. Clean the pump.

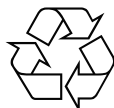
PARTS LIST & DIAGRAM



PARTS LIST

#	Description	#	Description
1	Screw	27	Oil Chamber Cover
2	Cable Presser	28	Washer
3	Protector	29	Spring Washer
4	Handle	30	Screw
5	Bolt	31	"O" Ring
6	Washer	32	Screw
7	Cable	33	Oil Seal
8	Screw	34	Lip Seal
9	Flange	35	Washer
10	Cable Protector	36	Impeller
11	Capacitor	37	Washer
12	"O" Ring	38	Spring Washer
13	Gasket	39	Nut
14	Nut	40	Pump Casing
15	Outlet Connector	41	Gasket
16	Gasket	42	Pump Cover
17	Stator	43	Gasket
18	Pump Casing Guard	44	Bolt
19	Undulated Washer	45	Valve
20	Bearing	46	Valve Seat
21	Rotor	47	Base Plate
22	Bearing	48	Nut
23	"O" Ring	49	Line Protector
24	Oil Chamber	50	Screw
25	"O" Ring	51	Spring
26	Mechanical Seal	52	Washer

ENVIRONMENTAL PROTECTION



**PLEASE
RECYCLE**

Recycle any packaging and unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.

When the product becomes completely unserviceable, reaches the end of its working life and requires disposal, drain off any fluids (if applicable) into approved containers and dispose of the product and the fluids according to local regulations.

WEEE Waste Electrical and Electronic Equipment Statement



Information on Disposal for Users of Waste Electrical & Electronic Equipment

This symbol on the product(s) and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge.

For private households:

Dispose of this product at the end of its working life and in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). Contact your local solid waste authority for recycling information for this equipment.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For business users in the European Union:

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union:

This symbol is only valid in the European Union. If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.

RoHS Directive 2011/65/EU

We hereby declare that this equipment has been tested and found to be compliant to RoHS Directive 2011/65/EU of the European Parliament and the Council from 08/06/2011 on restriction of the use of certain hazardous substances in electrical and electronic appliances.

Determination of levels of regulated substances in electrotechnical products, elements of Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) contents were measured by XRF Spectroscopy and chemical confirmation test for RoHS restricted substances.

EC DECLARATION OF CONFORMITY

We, Jefferson Professional Tools & Equipment, as the authorised European Community representative of the manufacturer, declare that the following equipment conforms to the requirements of the following Directives:

Directive:	Description:
2014/30/EU (as amended)	Electromagnetic Compatibility
2006/42/EC (as amended)	Machinery Directive
2014/35/EU (as amended)	Low Voltage Directive
2011/65/EU (as amended)	RoHS Directive

Equipment Category:

Water Pump

Product Name/Model:

JEFSUBPIRE085-10 - 450W INDUSTRIAL SUBMERSIBLE WATER PUMP 110V

Notified Body

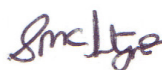
Ente Certificazione Macchine Srl
Via Ca' Bella, 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO) - ITALY
+39 051 6705141 +39 051 6705156

Notified Body Number:

1282

Signed by:

Stephen McIntyre



Position in the company:

Operations Director

Date:

10 June 2020

**Name and address of manufacturer
or authorised representative:**

Jefferson Tools, Herons Way, Chester Business Park, Chester, United Kingdom,
CH4 9QR
Telephone: +44 (0)1244 646 048 **Fax:** +44 (0)1244 241 191
Email: enquiries@jeffersontools.com

LIMITED WARRANTY STATEMENT

Jefferson Professional Tools & Equipment, or hereafter "Jefferson" warrants its customers that its products will be free of defects in workmanship or material. Jefferson shall, upon suitable notification, correct any defects, by repair or replacement, of any parts or components of this product that are determined by Jefferson to be faulty or defective.

This warranty is void if the equipment has been subjected to improper installation, storage, alteration, abnormal operations, improper care, service or repair.

Warranty Period

Jefferson will assume both the parts and labour expense of correcting defects during the stated warranty periods below.

All warranty periods start from the date of purchase from an authorised Jefferson dealer. If proof of purchase is unavailable from the end user, then the date of purchase will be deemed to be 3 months after the initial sale to the distributor.

1 Year

- JEF SUBPIRE085-10 - 450W INDUSTRIAL SUBMERSIBLE WATER PUMP 110V

90 Days

- All replacement parts purchased **outside** of the warranty period

Important: All parts used in the repair or replacement of warranty covered equipment will be subject to a minimum of 90 days cover or the remaining duration of the warranty period from the original date of purchase.

Warranty Registration / Activation

You can register and activate your warranty by visiting the Jefferson Tools website using the following address:

www.jeffersonstools.com/warranty and completing the online form. Online warranty registration is recommended as it eliminates the need to provide proof of purchase should a warranty claim be necessary.

Warranty Repair

Should Jefferson confirm the existence of any defect covered by this warranty the defect will be corrected by repair or replacement at an authorized Jefferson dealer or repair centre.

Packaging & Freight Costs

The customer is responsible for the packaging of the equipment and making it ready for collection. Jefferson will arrange collection and transportation of any equipment returned under warranty. Upon inspection of the equipment, if no defect can be found or the equipment is not covered under the terms of the Jefferson warranty, the customer will be liable for any labour and return transportation costs incurred.

These costs will be agreed with the customer before the machine is returned.

** Jefferson reserve the right to void any warranty for damages identified as being caused through misuse*

Warranty Limitations

Jefferson will not accept responsibility or liability for repairs made by unauthorised technicians or engineers. Jefferson's liability under this warranty will not exceed the cost of correcting the defect of the Jefferson products.

Jefferson will not be liable for incidental or consequential damages (such as loss of business or hire of substitute equipment etc.) caused by the defect or the time involved to correct the defect. This written warranty is the only express warranty provided by Jefferson with respect to its products.

Any warranties of merchantability are limited to the duration of this limited warranty for the equipment involved.

Jefferson is not responsible for cable wear due to flexing and abrasion. The end user is responsible for routine inspection of cables for possible wear and to correct any issues prior to cable failure.

Claiming Warranty Coverage

The end user must contact Jefferson Professional Tools & Equipment (Tel: +44 (0) 1244 646 048) or their nearest authorised Jefferson dealer where final determination of the warranty coverage can be ascertained.

Step 1 - Reporting the Defect

Online Method:

- Visit our website www.jeffersonstools.com/warranty and complete the Warranty Returns form. You can complete the form online and submit it to us directly or download the form to print out and return by post.

Telephone Method:

Contact your Jefferson dealer or sales representative with the following information:

- Model number
- Serial number (usually located on the specification plate)
- Date of purchase

A Warranty Returns form will be sent to you for completion and return by post or fax, together with details of your nearest authorised Jefferson repair centre. On receipt of this form Jefferson will arrange to collect the equipment from you at the earliest convenience.

Step 2 - Returning the Equipment

It is the customer's responsibility to ensure that the equipment is appropriately and securely packaged for collection, **together with a copy of the original proof of purchase**. Please note that Jefferson cannot assume any responsibility for any damage incurred to equipment during transit. Any claims against a third party courier will be dealt with under the terms & conditions of their road haulage association directives.

NOTE: Jefferson will be unable to collect or process any warranty requests without a copy of the original proof of purchase.

Step 3 - Assessment and Repair

On receipt, the equipment will be assessed by an authorised Jefferson engineer and it will be determined if the equipment is defective and in need of repair and any repairs needed are covered by the warranty policy. In order to qualify for warranty cover all equipment presented must have been used, serviced and maintained as instructed in the user manual.

Where repair is not covered by the warranty a quotation for repair, labour costs and return delivery will be sent to the customer (normally within 7 working days).

NOTE: If the repair quotation is not accepted Jefferson Professional Tools & Equipment will invoice 1 hour labour time at £30 per hour plus return carriage costs (plus VAT).

In cases where no fault can be found with the equipment, or, if incorrect operation of the equipment is identified as the cause of the problem, a minimum of 1 hour labour at **£30 per hour plus carriage costs** will be required before the equipment will be despatched back to the customer.

Any equipment repaired or replaced under warranty will normally be ready for shipment back to the customer within 7 working days upon receipt of the equipment at an authorised Jefferson Repair centre (subject to part availability). Where parts are not immediately available Jefferson will contact you with a revised date for completion of the repair.

General Warranty Enquiries

For any further information relating to Jefferson warranty cover please call **+44 (0) 1244 646 048** or send your enquiry via email to **warranty@jeffersonstools.com**

Disclaimer:

The information in this document is to the best of our knowledge true and accurate, but all recommendations or suggestions are made without guarantee. Since the conditions of use are beyond their control, Jefferson Tools® disclaim any liability for loss or damage suffered from the use of this data or suggestions. Furthermore, no liability is accepted if use of any product in accordance with this data or suggestions infringes any patent. Jefferson Tools® reserve the right to change product specifications and warranty statements without further notification. All images are for illustration purposes only.



IMPORTANT! SAFETY FIRST!

Before attempting to use this product please read all the safety precautions and operating instructions outlined in this manual to reduce the risk of fire, electric shock or personal injury.



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