



HEAT GUNS

MODEL NO: **HS102.V3 & HS102K.V3**

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

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



Refer to
instruction
manual



Wear protective
gloves



Wear eye
protection



Warning!
Hot surface

1. SAFETY

1.1. ELECTRICAL SAFETY

- ☐ **WARNING!** It is the user's responsibility to check the following:
- ✓ Check all electrical equipment and appliances to ensure that they are safe before using.
- ✓ Inspect power supply leads, plugs and all electrical connections for wear and damage.
- ✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- ✗ **DO NOT** use worn or damaged cables, plugs or connectors.
- ✓ Ensure that any faulty item is repaired or replaced immediately by a Sealey qualified technician.
- ✓ If the cable or plug is damaged during use, switch off the electricity supply and remove from use.
- ✓ Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.
Important: Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.
- ✗ **DO NOT** pull or carry the appliance by the power cable.
- ✗ **DO NOT** pull the plug from the socket by the cable. If an extension reel is used it should be fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 1.5mm², but to be absolutely sure that the capacity of the reel is suitable for this product and for others which may be used in the other output sockets, we recommend the use of 2.5mm² section cable. If an extension reel is to be used outdoors, ensure it is marked for outdoor use.

1.2. GENERAL SAFETY

- ✓ Disconnect the system from the mains power before changing accessories, servicing or performing other maintenance.
- ✓ Use correctly rated extension lead.
- ✓ Maintain the gun in good condition (use an authorised service agent).
- ✓ Use recommended accessories only (non-recommended accessories can be hazardous and will invalidate your warranty).
- ✓ Wear appropriate protective clothing and equipment. Work gloves and eye protection are mandatory. Also wear non-slip shoes and protective hair covering to contain long hair. Remove loose fitting garments and jewellery.
- ✓ Evaluate your working area before using the gun. i.e. ceiling, floors and enclosures may contain flammable materials.
- ✓ Keep the work area clean, uncluttered and well lit. Use the gun only in a well-ventilated area. Ensure that small or irregular shaped objects are secured in a vice or clamps before you work on them.
- ✓ Clean working surface before using the gun in a free standing vertically position (dust or dirt will be taken up into the air inlet).
- ✓ Avoid unintentional starting (if the gun stops during operation, disconnect it from the power supply and have it serviced by an authorised service agent).
- ✓ Stay alert! Always pay attention to the work at hand when operating this gun.
- ✓ Guard against electric shock by not contacting grounded surfaces (i.e. pipes, radiators, etc.)
- ✓ Maintain correct balance and footing.
- ✓ Keep the gun handle dry, clean and free from oil and grease. Clean dry paint or varnish from the nozzle and scrapers after use.
- ✓ Allow the gun to cool before storing (only store away when cold). Store the gun in a safe, dry place out of reach of children.
- ✗ **DO NOT** allow children to operate the gun.
- ✗ **DO NOT** direct the hot airflow toward people (including yourself), animals, or plants.
- ✗ **DO NOT** use the gun in a wet environment, or areas of high humidity (i.e. bathrooms, steam rooms, etc.).
- ✗ **DO NOT** use the gun in the rain or on extremely damp days.
- ✗ **DO NOT** obstruct the hot airflow by blocking or covering the air outlet.
- ✗ **DO NOT** touch the hot air nozzle as it becomes extremely hot.
- ✗ **DO NOT** place the heat gun on any surface whilst running, except when using the gun by standing on end in an upright position.
- ✗ **DO NOT** allow the gun to fall over whilst operating free standing in an upright position.
- ✗ **DO NOT** leave the heat gun running unattended. Always turn the power supply OFF and **DO NOT** leave until the gun has cooled.
- ✗ **DO NOT** use the gun for a task it is not designed to perform.
- ✗ **DO NOT** use the gun in combination with chemical strippers.
- ✗ **DO NOT** operate the gun when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- ▲ **DANGER! DO NOT USE THE HEAT GUN AS A HAIR DRYER**
- ☐ **LEAD PAINT WARNING!** Paint once contained lead as a traditional ingredient. Paint particles, resulting from the removal of such paint, are toxic and ingestion/inhalation must, therefore, be avoided. The following action must be taken before using this tool:
The operator must determine potential hazard relating to age of paint to be removed (modern paints do not have lead content).

- ▲ **DANGER!** Keep all persons and pets away from the work area. The following are particularly vulnerable to the effects of lead paint dust: Expectant women, babies and children. We recommend personal protection by using the following safety items: Paint Spray Respirator (Sealey ref. SSP1699), PE Coated Hooded Coverall (Sealey ref. SSP267), Latex Gloves (Sealey ref. SSP24). Take adequate measures to contain the paint dust, flakes, and scrapings. When task is complete continue to wear safety equipment and thoroughly clean all areas. Ensure paint waste is disposed of in sealed bags or containers.

2. INTRODUCTION

Equipped with triple-range variable electronic temperature control. Suitable for paint stripping, soft soldering, removing sticky labels and defrosting frozen pipes. Additionally suitable for plastic welding with optional plastic welding nozzles. Nozzles supplied separately. Gun is designed to stand vertically, allowing use as a safe Bunsen burner alternative. Fitted BS approved 3-pin safety plug.

3. SPECIFICATION

Model no.: **HS102.V3/HS102K.V3** (Welding kit option)
 Fuse Rating: 13A
 Plug Type: 3-Pin
 Power: 2000W
 Power Supply Cable Length: 2m
 Supply: 230V
 Temperature range: 50°C - 600°C
 Air volume: 250/500L/min.



4. OPERATION

4.1. PREPARING THE Heat gun FOR USE

- 4.1.1. Before plugging into the mains ensure the gun is in the OFF position.
 - 4.1.2. When ready to commence work set power switch to desired temperature setting. Allow one and a half minutes.
 - 4.1.3. **STANDING THE GUN ON END:** Gun may be stood on end in an upright (vertical) position.
 - 4.1.4. Ensure the surface on which you will stand the gun is flat, level, and free from dirt.
 - 4.1.5. HS102 balances on the end of its main body and the rubber stop on the end of the handle.
- **WARNING!** KEEP HANDS AWAY FROM THE IMMEDIATE NOZZLE AREA. IF LEAD PAINT IS BEING REMOVED FOLLOW THE SAFETY WARNING AT THE BEGINNING OF THIS MANUAL. Always wear gloves and eye protection.

4.2. PAINT AND VARNISH REMOVAL

- 4.2.1. The easy removal of paint and varnish requires practice. Follow these simple working techniques to achieve the required result.
NOTE: The heat gun is designed to remove both oil and latex based paints and varnishes from surfaces. It will not remove stains or primer coats that have impregnated the surface of the wood.
 - 4.2.2. Switch the gun on and allow it to reach its operating temperature.
 - 4.2.3. Always test on a small unobtrusive area first. If satisfactory, proceed with the task in hand.
 - 4.2.4. Hold the gun nozzle 3" to 4" from the paint to be removed.
 - 4.2.5. After a short time paint will soften and begin to blister.
 - 4.2.6. **DO NOT** overheat the paint as this will cause it to burn making it more difficult to remove. Wear eye protection, especially when stripping paint from overhead. If lead paint is being removed, refer to the warning at the beginning of this manual.
 - 4.2.7. Begin scraping the paint off. Work from top to bottom. Use a scraper with smooth even strokes, warming the surface in front of the scraper by moving the gun slightly from side to side.
 - 4.2.8. If the correct temperature has been applied to the paint, thick even layers can be removed in a single pass (paint should be removed in strips equal in width to the scraper blade).
 - 4.2.9. Keep the scraper blade edge clean and sharp preventing paint peelings from building up.
 - 4.2.10. Scrape paint as soon as it becomes soft, as it will re-harden very quickly.
 - 4.2.11. After softening, shaped or profiled surfaces may be stripped by using a wire brush.
 - 4.2.12. To protect surrounding surfaces from the heat gun cover with non-flammable material.
- IMPORTANT: DO NOT** concentrate the heat gun on windows or glass surfaces as the glass may crack.

5. PLASTIC WELDING TOOL

HS102 may be adjusted for use as a Plastic Welding Tool (welding kits available as described in part 3 - included with HS102K).

- 5.1. Testing materials to be welded: Most adhesion failures are due to the incorrect matching of materials. The welding rod therefore must be of the same material as the item to be welded. For instance, most car body parts are made of ABS material. Some manufacturers however, use different plastics in their products. To test, snip off a piece of material from the work to be welded and proceed as follows:

▲ **DANGER:** Step 5.1.1 must be performed in a well ventilated area (out of doors if possible). Never perform task in a domestic building. Safeguard against fire. Wear safety gloves and face mask. **DO NOT** inhale smoke.

- 5.1.1. Set light to the sample with a naked flame. If the flame gives off black smoke it is (almost) certain to be ABS.
5.1.2. By sample, take a strip of material from an unobtrusive part of the component and use it as your welding rod.
5.1.3. If in doubt, contact the item manufacturer.

5.1.4. WELDING THE MATERIAL

- 5.1.5. Remove any paint or other covering from the entire adjoining surface areas of the piece to be welded.
5.1.6. Cut a chamfer on adjoining pieces to form a groove that can be filled with weld.
5.1.7. Using the heat gun (without any welding rod loaded) thoroughly pre-heat both surfaces to be welded (they should be soft but not tacky).
5.1.8. Fit the 9mm reduction nozzle to the gun and the welding nozzle to the reduction nozzle.
5.1.9. Select a low to medium heat by turning the temperature regulator at rear of the gun. Experience will determine the setting, but we suggest position 6 which gives 330-340°C as a starting position for most commonly used plastics.
5.1.10. Select the fan speed setting on the heat gun according to the size and thickness of material being welded (i.e. Thin = Two, Thick = Three).
5.1.11. Now position the nozzle over the material to be welded and feed the welding rod through the slot at the same time moving the gun along the groove at a speed according to the melt/ adhesion rate.
5.1.12. A good connection is made when a small dome forms (a trial is always recommended using an odd piece of material). With practice, a good flat weld can be achieved by applying pressure on the nozzle as the rod is drawn along. A roller is available as an optional extra.
5.1.13. Overlapping materials can be removed with a sharp knife.
- 5.2. **WELDING PROBLEM CHECKLIST** If a weld fails ask yourself the following questions:
- 5.2.1. Do the materials match?
5.2.2. Are both surfaces clean?
5.2.3. Are surfaces chamfered?
5.2.4. Have surfaces been pre-heated correctly?
5.2.5. Did the welding rod melt to the correct consistency?
- 5.3. **IMPORTANT NOTES.**
- 5.3.1. To weld over cracks in the material, drill approximately 1/16" diameter holes at each end of the crack to prevent running during welding and sanding.
5.3.2. Handling the welding nozzles - The nozzle gets very hot and should only be removed with pliers or allowed to cool if removing by hand.

6. MAINTENANCE

- ☐ Unplug gun from power supply and allow to cool before performing any maintenance.
- 6.1. Keep the air intake and outlet openings clean and free from dirt and peelings.
6.2. Only use a damp cloth and mild household cleaning agent to wipe the gun clean. **DO NOT** use turpentine, paint thinner, gasoline, or similar substance to clean the gun.
6.3. Check the gun, power lead and nozzles for damage before storage.
6.4. Store the gun in a safe, dry, childproof location.

7. OTHER TASKS

The gun may also be used for the following:

Removing self-adhesive stickers and trim. Loosening rusted or over-tightened nuts and metal screws. Thawing frozen pipes, frozen doors, padlocks, etc. Defrosting ice-compartments. Fast drying of paint or varnish. Highlighting natural woodgrain before staining, or varnishing. Softening old putty. Drying wet timber prior to repairs or finishing. Shrinking PVC shrink-wrap sheeting. Shrinking polyvinyl wire joints. Soldering. Sterilisation (500°C). Removing candle wax and restoring candles. Binding of engine parts. Repair of tarpaulin or PVC. Joining garden hose. Liquifying pewter, tar, bitumen or wax. Model making. Moulding PVC, Copper, Plexiglass into shape. Plumbing tasks. Roofing repairs. Applying veneer strips. Control of garden path weeds. Waxing and de-waxing skis. Chemistry: use as a bunsen-burner and more.

IMPORTANT: Safety is a key principle when endeavouring to use the gun for different tasks. When approaching a new task, consider the potential dangers that may arise, take any necessary precautions, and practice before attempting the job.



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



REGISTER YOUR
PURCHASE HERE



ENVIRONMENT PROTECTION

Recycle 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 and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

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

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 36 months from purchase date, proof of which is required for any claim.

Jack Sealey Ltd t/a Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk, IP32 7AR UK
Jack Sealey (EU) Ltd t/a Sealey Group, Farney Street, Carrickmacross, Co. Monaghan, A81 PK68 Ireland
Tel: 01284 757500 • **Email:** sales@sealey.co.uk • **Web:** www.sealey.co.uk