MASTER®

HEAT TOOLS FOR INDUSTRY™

MASTER-MITE® HEAT GUN

Instruction Manual

Please read, understand and keep this manual for future reference.

Description & Introduction

The Master-Mite® is a versatile, lightweight (only 28 ounces) heat gun that features three heat ranges: 500°F, 650°F and 800°F. This "whisper quiet" heat gun produces enough heat to apply heat shrinkable tubing without excessive air velocity so delicate connectors or components will not blow off the work surface. While the Master-Mite® is lightweight and easy to hold for long periods of time, it also comes standard with a bench stand which adjusts to four heights for hands-free operation. Attachments and accessories are available for many varied applications.

Each Master-Mite® heat gun comes standard with a silver 650°F heating element, a bench stand and one heat shrink attachment for shrink tubing. Should you require additional elements and/or attachments, please specify separately.

Heat guns are a source of extremely high temperature flameless heat. As with other products which generate extremely high temperatures, regardless of your specific application, extreme care and caution should be observed when using this product. Therefore, we recommend that you pay particular attention to the safety instructions which we have provided for your protection.

Specifications

Size . . . . . 8-7/8"L x 7"H
Weight . . . . . 1-3/4 lbs.
Motor . . . . . 3300 RPM
Nozzle length. . . . . .3-7/8" L
Nozzle opening . . . . . 1" dia.
Cord length . . . . . 7 ft.
Air velocity . . . . . 700 FPM
Air volume . . . . . 3.8 CFM
Housing Static Decay . . . . . 5000V to <0.01 sec.
Housing Surface Res. . . . . <500 ohms/sq.
Thermal Cutout . . . . . .Standard

All 120V models are cULus listed.

Model	Volts	Max. Amps	Ship Weight
10008	120	4.5	3 lbs.
10009	220	2.2	3 lbs.
10010	240	2.0	3 lbs.

Heating Element Nozzles

Part No.	Color	Temp. °F	Temp. °C	Voltage	Wattage
20012	Blue	500	260	120	340
20013	Silver	650	343	120	475
20014	Black	800	427	120	525
20033	Blue	500	260	220	400
20034	Silver	650	343	220	450
20035	Black	800	427	220	500
20160	Blue	500	260	240	400
20161	Silver	650	343	240	450
20162	Black	800	427	240	500

Important Safety Instructions

WARNING: THIS PRODUCT IS A SOURCE OF VERY HIGH TEMPERATURE FLAMELESS HEAT. AS WITH ANY ELECTRICAL TOOL, WHEN USING HEAT TOOLS, ALWAYS FOLLOW BASIC SAFETY PRECAUTIONS, INCLUDING THE FOLLOWING, TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY.

1) Read and understand this instruction manual before using. *Save this manual for future reference.*

   WARNING: To reduce the risk of fire or electric shock, do not expose heat guns to rain or moisture. Store indoors. Connect to grounded outlet only.

2) Do not use plug adaptors or remove the ground prong from the plug. This tool is equipped with a 3-prong plug and a 3-wire grounding system. Connect to properly grounded outlets only.

3) Use heat gun only on adequately rated circuits to avoid overheating of electrical systems.

4) Do not direct hot air stream at your clothing, hands or body parts. Do not use as a hair dryer.

5) Do not touch nozzle opening or nozzle shield until cool. When in "Hot" mode, extreme heat is generated at those areas.

6) Run on "Cold" before turning off. The nozzle and shield require approximately 3 minutes to become cool to the touch.

7) Do not touch work surface with nozzle. Keep nozzle face at least 1" away.

8) Keep a clean work area. Messy or cluttered work areas invite accidents or injury.

9) Keep away from children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. All visitors should be kept at a safe distance from the work area. Do not let visitors touch the tool or extension cord.

10) Use tool in a well-ventilated area. Do not use near flammable liquids or in an explosive environment (where fumes, gases or dust are present).

11) Remove all highly flammable materials and other debris from the work area.

12) Wear safety glasses at all times.

13) When using an extension cord, use only a 3-wire grounded cord with a minimum of 14-gauge capacity. We recommend they be listed by Underwriters laboratories (UL) in the U.S.A. or (CSA) Canadian Standards Association in Canada and be suitable for outdoor use. Cords marked for outdoor use are also suitable for indoor use.

14) Don't abuse cordset. Never yank by cord to remove from electrical outlet or carry tool by cord.

15) Always hold tool by the handle or use stand. When using stand, place tool on a level surface. Position cordset so it does not cause tipping.

16) Keep a fully-charged fire extinguisher close at hand.

17) Do not leave heat gun unattended while the heat gun is running or cooling down.

18) Stay alert. Do not operate tool when you are tired. Use common sense and watch what you are doing.

19) Store properly. Do not store while hot. Store in a dry, high or locked-up location. Keep out of the reach of children.

⚠ **WARNING:** This product, when used for soldering and similar applications, can expose you to LEAD, which is known to the State of California to cause cancer and birth defects and other reproductive harm.

IMPORTANT SAFETY INSTRUCTIONS

READ THESE INSTRUCTIONS

WARNING: Hidden areas such as walls, ceilings, floors, soffit boards and other panels may contain flammable liquids that could be ignited by the hot air gun when working in these locations. The ignition of these materials may not be apparent and could result in property damage and injury to persons. Do not use if in doubt about this hazard. When working in these locations, keep the hot air gun moving in a back and forth motion. Lingering or pausing in one spot could ignite the panel or the material behind it.

Paint Stripping

WARNING: Extreme care should be taken when stripping paint. The peelings, residue and vapors of paint may contain lead, which is poisonous. Any pre-1977 paint may contain lead and paint applied to homes prior to 1950 is likely to contain lead. Once deposited on surfaces, hand to mouth contact can result in the ingestion of lead. Exposure to even low levels of lead can cause irreversible brain and nervous system damage; young and unborn children are particularly vulnerable.

Before beginning any paint removal process you should determine whether the paint you are removing contains lead. This can be done by your local health department or by a professional who used a paint analyzer to check the lead content of the paint to be removed. **LEAD BASED PAINT SHOULD ONLY BE REMOVED BY A PROFESSIONAL AND SHOULD NOT BE REMOVED USING A HOT AIR GUN.**

Persons removing paint should follow these guidelines.

1. Move the work piece outdoors. If this is not possible, keep the work area well ventilated. Open the windows and put an exhaust fan in one of them. Be sure the fan is moving the air from inside to outside.
2. Remove or cover any carpets, rugs, furniture, clothing, cooking utensils and air ducts.
3. Place drop clothes in the work area to catch any paint chips or peelings. Wear protective clothing such as extra work shirts, overalls and hats.
4. Work in one room at a time. Furnishing should be removed or placed in the center of the room and covered. Work areas should be sealed off from the rest of the dwelling by sealing doorways with drop clothes.
5. Children, pregnant or potentially pregnant women and nursing mothers should not be present in the work area until the work is done and all cleanup is complete.
6. Wear a dust respirator or a dual filter (dust and fume) respirator mask which has been approved by the Occupational Safety and Health Administration (OSHA), the National Institute of Safety and Health (NIOSH), or the United States Bureau of Mines. These masks and replaceable filters are readily available at major hardware stores. Be sure the mask fits. Beards and facial hair may keep masks from sealing properly. Change filters often. DISPOSABLE PAPER MASKS ARE NOT ADEQUATE.
7. Use caution when operating the hot air gun. Keep the hot air gun moving as excessive heat will generate fumes which can be inhaled by the operator.
8. Keep food and drink out of the work area. Wash hands, arms and face and rinse mouth before eating of drinking. Do not smoke or chew gum or tobacco in the work area.
9. Clean up all removed paint and dust by wet mopping the floors. Use a wet cloth to clean all walls, sills and any other surface where paint or dust is clinging. DO NOT SWEEP, DRY DUST OR VACUUM. Use a high phosphate detergent or trisodium phosphate (TSP) to, wash and mop areas.
10. At the end of each work session put the paint chips and the debris in a double plastic bag, close it with tape or twist ties, and dispose of properly.
11. Remove protective clothing and work shoes in the work area to avoid carrying dust into the rest of the dwelling. Wash work clothes separately. Wipe shoes off with a wet rag that is then washed with the work clothes. Wash hair and body thoroughly with soap and water.

SAVE THESE INSTRUCTIONS

Repair and Maintenance Instructions

All repairs and maintenance other than that recommended in this instruction manual must be performed by a qualified repair technician who is experienced with the repair of electric tools, a qualified service organization, or Master Appliance Corp.'s Service Department.

Please contact Master's Customer Service Department for genuine Master Appliance replacement parts or for repair service.

WARNING: Always unplug your tool before performing any maintenance or repairs. Use only identical Master Appliance brand replacement parts.

Cleaning

Unplug heat gun before cleaning. To clean outside of tool, use only a mild soap and damp cloth. Do not use other cleaning agents, turpentine, gasoline, lacquer or paint thinner, or other solvents that may contain chemicals which are harmful to plastics and other insulating materials. Never immerse tool in a liquid or allow a liquid to enter inside the tool. Make sure all vents and openings are free and clear of debris.

Operating Instructions

Before performing an application, we recommend that you experiment with a piece of scrap material. Use care in approaching the work surface until you find the proper distance from the work area and the proper heat application time.

Use a gentle back and forth motion when applying heat unless it is found that a concentrated heat is desired.

To Operate Heat Gun

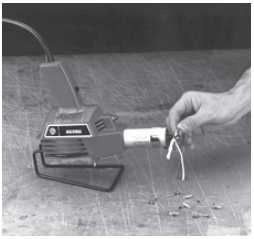
1. Plug heat gun into properly rated outlet.
2. Move rocker switch to "Hot" position. Heat gun will come up to full operating temperature in approximately two minutes.
3. When performing applications where hands-free use is desired, use bench stand.
4. To turn heat gun off after use, move switch to "Cool" position. Run on cool for approximately three minutes. This will allow the heat gun to cool down and the nozzle and attachments to become cool to the touch.
5. Move switch to "Off" position.

When heat gun is used in an enclosed container, such as a shrink tunnel or special enclosure, ambient air must be allowed to pass into the heat gun and there must be an outlet of equal size for the heated air to pass out of the enclosure also. Total enclosure will cause damage or possible failure to the heat gun due to the extreme heat generated.

Typical Applications

Your Master-Mite® provides a flow of heated air for a variety of applications. Uses are as limitless as your own ingenuity.

- Bend and form plastics
- Cure epoxies
- Deburring plastics
- Defrost frozen coils
- Dry negatives and parts
- Heat solids and liquids
- Loosen nuts and bolts
- Remove floor tiles and putty
- Repair vinyl
- Shrink tubing and packaging
- Soften materials



Will not blow delicate components around the work area.

NOTE: Users should independently evaluate the suitability of the product for their application.

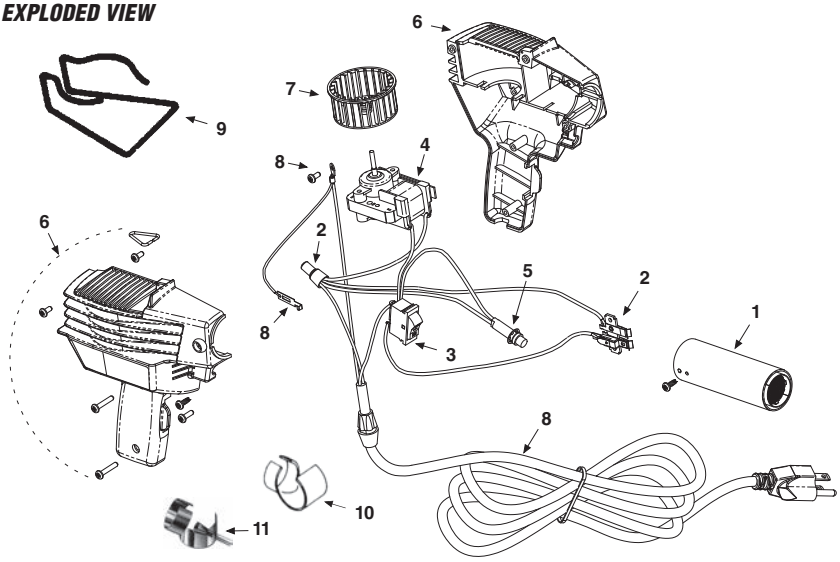
Suggested Nozzles for Heat Shrinkables

Type Tubing	Common or Trade Designation	Approx. Shrink Temp. °F***	Suggested Heat Nozzle
Polyester	Mylar*	175	Blue
Polyvinyl Chloride	PVC; Vinyl	250	Silver
Irradiated Polyvinyl Chloride	PVC; Vinyl	250	Silver
Irradiated Butyl	—	250	Silver
Irradiated Polyelefin	—	275	Silver
Polyfluorinated Ethylene Propylene	FEP	300	Silver
Polyvinylidene Fluoride	Kynar**	350	Silver
Irradiated Neoprene	—	350	Silver
Irradiated Silicone	—	350	Silver

* Registered trade name of Pennsalt.
** Registered trade name of General Electric.
*** Based on latest available information.

Master-Mite® Replacement Parts

EXPLODED VIEW



Item No.	Part No.	Description
1	20012	Element Kit, 120V, 500°F, 340W (Blue)
1	20013	Element Kit, 120V, 650°F, 475W (Silver)
1	20014	Element Kit, 120V, 800°F, 525W (Black)
1	20033 *	Element Kit, 220V, 500°F, 400W (Blue)
1	20034 *	Element Kit, 220V, 650°F, 450W (Silver)
1	20035 *	Element Kit, 220V, 800°F, 500W (Black)
1	20160 *	Element Kit, 240V, 500°F, 400W (Blue)
1	20161 *	Element Kit, 240V, 650°F, 450W (Silver)
1	20162 *	Element Kit, 240V, 800°F, 500W (Black)
2	30018	Spring Clip Assembly Kit, W/Thermostat
3	35234	Switch, Rocker, 120V / 230V
4	50179	Motor, 120V, With Mounting Bracket
4	50217 *	Motor, 230V, With Mounting Bracket
5	50183	Light, 120V, With Retaining Ring
5	50220 *	Light, 230V, With Retaining Ring
6	50703	Housing Kit for Model 10008, 120V
7	51277	Blower Wheel
8	50175	Cordset Kit, 120V, w/Ground Tab
8	50218 *	Cordset Kit, 230V, USA w/Ground Tab
8	35239 *	Cordset Kit, 230V, European w/Ground Tab
8	35008 *	Cordset Kit, 230V, British w/Ground Tab
Accessories:		
9	50675	Bench Stand
10	40060	Heat Shrink Attachment
11	40061	Pinpoint Attachment - 1/4" concentration of heat exactly where you want it. Eliminates back pressure.

* 220/240 Volt Models Only
Note: Kits include hardware (see exploded view)

Master-Mite® Heat Gun replacement parts and accessories are engineered and manufactured to precise Master Appliance specifications. Replacement parts and accessories from other manufacturers are not produced to these precise specifications and, therefore, may cause difficulties with—or actual damage to—a Master-Mite® Heat Gun. Master Appliance cannot assume any responsibility or liability for difficulties resulting from the use of any other brand of replacement parts or accessories with a Master-Mite® Heat Gun.