

# MASTER<sup>®</sup> APPLIANCE

Designers and Manufacturers of Heat Tools for Industry

Master Heat Gun<sup>®</sup>

Varitemp<sup>®</sup>

Proheat<sup>®</sup>

Variair<sup>®</sup>

Masterflow<sup>®</sup>

Master-Mite<sup>®</sup>

Ecoheat<sup>®</sup>

Ultratorch<sup>®</sup>

Ultratip<sup>®</sup>

Ultratane<sup>®</sup>

Econolron<sup>®</sup>

PortaPro<sup>®</sup>

Multiseal<sup>™</sup>

Solderseal<sup>™</sup>

Proseal<sup>™</sup>



**2009 - 2010**

[www.masterappliance.com](http://www.masterappliance.com)

# Master Appliance®

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The original heavy-duty heat guns with rugged cast aluminum housing and powerful universal motor

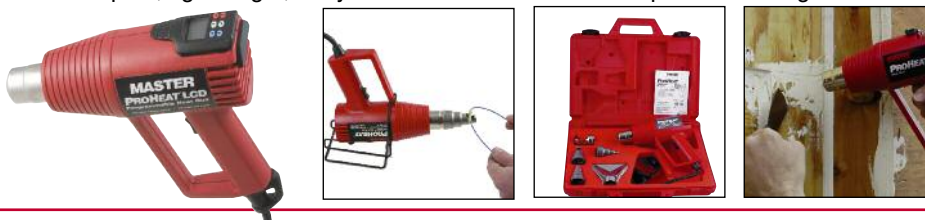


Rotating Swivel Stand

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Compact, lightweight, easy-to-use with durable Lexan® plastic housing



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Economical two temperature heat gun with resettable thermostat for overheating protection



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Continuous duty heat blower with powerful 47 CFM airflow. Suitable for mounting over conveyors or on machinery



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Quiet motor with 3.8 CFM airflow provides a balance of heat and gentle airflow at the work station



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Economical soldering iron, flameless hot air tool and torch



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Cordless flexibility, reaches operating temperature in less than 4 minutes, runs for over 2 hours



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MP-100 Personal electric soldering iron with stand by mode

BT-30 Battery-powered for easy transport to job site



### ■ Heat-Seal Electrical Connectors, Shrink Tubing and Crimpers

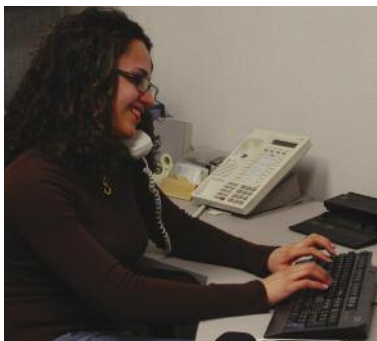
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### **Master Appliance Corp., Designers and Manufacturers of Heat Tools for Industry**

Located near the western shores of Lake Michigan in Racine, Wisconsin, Master Appliance invented and introduced the first industrial quality heat gun to the worldwide marketplace in 1958. In 1985, we introduced North America's first butane-powered, cordless soldering iron, torch and flameless heat tool, ideal for field use. These professional quality heat tools, and others developed since, have enjoyed worldwide market success. Today our products are used in thousands of facilities, workshops and in the field for drying, welding, shrinking, soldering, desoldering, gluing and for many other common and unique applications, where heat is the need.



Master is continually developing new heat tool products, with enhanced capabilities, making it easier to work with new materials and processes used throughout industry. With over 50 years of experience, the Master name stands for extraordinary expertise in heat technology, quality products and unsurpassed service. Whether you are considering a new application, material or process or simply looking to replace an old, tired heat tool, call us for fast professional service.

### **Local Availability, Sales, Parts & Service**

Master heat tools are sold worldwide through a network of Authorized Stocking Distributors. Trained Sales and Customer Service Representatives, located at our headquarters and throughout the world, insure fast personal service. Contact us for your nearest stocking distributor or sales representative. **Visit our website for up-to-date information on products, accessories, parts, warranty and repair service.**



### **Master Appliance Corp.**

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Local and International: 262-633-7791

Fax: 262-633-9745

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

Website: [www.masterappliance.com](http://www.masterappliance.com)

### **Engineering, Design, Research and Development**

Master's goal is to provide the most advanced and rugged heat tools in the market, and the best product for your specific application. Our Heat Technology Specialists, using state-of-the art systems, tools and test & measurement equipment, are constantly striving for better heat tool designs that are ergonomic, compact and lightweight or feature heavy-duty, stable bases for mounting or bench-top use.

### **Manufacturing**

Master Heat™ Tool products are made with superior, quality materials and the finest craftsmanship. Great designs and expert assembly, in a lean, efficient manufacturing setting, assure our customers maximum product quality, performance and value.



# Master Varitemp® VTS Heat Gun

## Deluxe Varitemp Heat Gun with versatile pivoting stand

- Stable, deluxe heavy-duty, pivoting metal stand with non-slip rubber feet
- Unique, adjustable spring loaded slide handle with ergonomic grip
- Easy selection of multiple pivoting angles for hands-free or hands-on use, to provide the best balance and aim
- High temperature and power ratings: Ambient up to 1000°F/540°C at 1740 watts
- Variable temperature control provides easy dial-in temperatures
- Powerful high speed universal motor
- High airflow rating: 23 CFM at 3000 FPM gets the job done fast
- Sturdy die cast aluminum housing
- Double protected heating element housing
- Easily replaceable, reinforced, mica-insulated ceramic heating element
- Externally accessible carbon brush holders for quick replacement
- Three position "OFF-COLD-HOT" rocker switch
- 6 foot, 3-wire grounded cordset made with flexible, oil and sunlight resistant rubber jacket
- UL Listed. Made in USA
- Use to shrink tubing and packaging, bend plastics, cure adhesives, dry and heat parts, strip paint, defrost frozen pipes, heat sensitive materials, solder/desolder and more



Pivoting stand and adjustable slide grip handle

| MASTER VARITEMP® VTS HEAT GUN |                                                |            |        |      |
|-------------------------------|------------------------------------------------|------------|--------|------|
| MODEL NO.                     | DESCRIPTION                                    |            |        |      |
| VTS-750                       | Amb.-1000°F                                    | Amb.-540°C | 23 CFM | 120V |
|                               | 60 Hz                                          | 14.5A      | 1740W  | ® UL |
| VTS-752                       | Amb.-750°F                                     | Amb.-400°C | 23 CFM | 220V |
|                               | 50 Hz                                          | 7A         | 1680W  |      |
| HAS-043K                      | Replacement heating element for VTS-750        |            |        |      |
| HAS-014K                      | Replacement heating element for VTS-752        |            |        |      |
| 35257                         | Replacement brush, spring and cap kit (2 each) |            |        |      |

### Optional Accessories

| PART NO. | DESCRIPTION                                  |
|----------|----------------------------------------------|
| A-160-HG | Shrink attachment for tubing up to 3/4" O.D. |
| A-170-HG | Shrink attachment for tubing 3/4" to 2" O.D. |
| 35245    | Three popular attachments                    |
| 30202    | Solder preform attachment                    |
| 51309    | 3/8" pinpoint attachment                     |
| 51542    | Glass protector attachment                   |
| 51543    | 2-1/4" spreader attachment                   |
| 51544    | 7/8" reducer attachment                      |

Photos of accessories shown on page 7

### Specifications

- Air Volume: 23 CFM ■ Air Velocity: 3000 FPM ■ Motor: Universal
- Nozzle Opening: 1.2" I.D., 1.5" O.D. ■ Cordset: 6 ft., 3-wire grounded ■ Dimensions: 9" L x 6" W x 12" H.
- Tool Net Weight: 5 lbs. ■ Shipping Weight Kit: 8 lbs.



Ergonomic handle with spring loaded slide grip



Reflector Attachment for Heat Shrinking



Replacement Brush, Spring and Cap Kit (2 each)



Perfect for bench-top use in manufacturing and repair

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

# Master & Varitemp® Heat Guns

Professional, heavy-duty, industrial quality, multiple use heat guns

- High temperature and power ratings: up to 1000°F/540°C at 1740 watts
- Varitemp model features variable temperature control which allows user to dial-in a any temperature from ambient to 1000°F/540°C
- High air flow rating: 23 CFM at 3000 FPM gets the job done fast
- Powerful high speed universal motor
- Sturdy die cast aluminum housing
- Double protected heating element housing
- Easily replaceable, reinforced, mica-insulated ceramic heating element
- Externally accessible carbon brush holders for quick replacement
- Three position "OFF-COLD-HOT" rocker switch
- Contoured, well balanced handle
- Non-slip rubber-backed base with 90° rotation
- 6 foot, 3-wire grounded cordset made with flexible, oil and sunlight resistant rubber jacket
- Optional Momentary Contact Switch
- UL Listed or CSA Certified. Made in USA
- Use to shrink tubing and packaging, bend plastics, cure adhesives, dry and heat parts, strip paint, defrost frozen pipes, heat sensitive materials, solder/desolder and more



UL  
120V Models



USA  
MADE IN

HG Series  
Master Heat  
Gun®

## Momentary Contact Safety Switch:

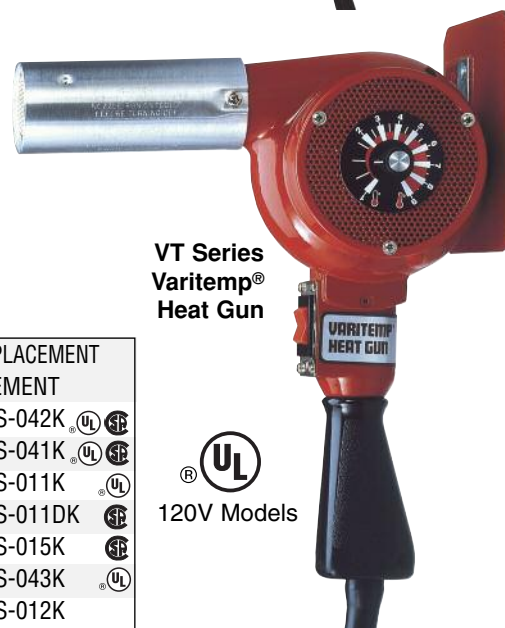
if not held, will shut the unit off

An option for Master Heat Gun® models.  
To order add "MC" suffix to model  
number. Example: HG-501A-MC.

Also, many international volt-  
ages/cordsets available upon request.

Contact our Sales Department for  
appropriate model numbers.

See our website for other parts and repair service information



VT Series  
Varitemp®  
Heat Gun

UL  
120V Models

| MASTER HEAT GUN®          |                |               |        |      |       |       | REPLACEMENT ELEMENT                                                                                                                                                                        |
|---------------------------|----------------|---------------|--------|------|-------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL NO.                 | DESCRIPTION    |               |        |      |       |       |                                                                                                                                                                                            |
| HG-201A                   | 200-300°F      | 93-150°C      | 23 CFM | 120V | 60 Hz | 5A    | 600W HAS-042K    |
| HG-301A                   | 300-500°F      | 150-260°C     | 23 CFM | 120V | 60 Hz | 12A   | 1440W HAS-041K   |
| HG-501A                   | 500-750°F      | 260-400°C     | 23 CFM | 120V | 60 Hz | 14A   | 1680W HAS-011K                                                                                        |
| HG-501A-D                 | 500-750°F      | 260-400°C     | 23 CFM | 120V | 60 Hz | 12A   | 1440W HAS-011DK                                                                                       |
| HG-751A-C *               | 750-1000°F     | 400-540°C     | 23 CFM | 120V | 60 Hz | 18A   | 2160W HAS-015K                                                                                        |
| HG-751B                   | 750-1000°F     | 400-540°C     | 23 CFM | 120V | 60 Hz | 14.5A | 1740W HAS-043K                                                                                        |
| HG-202A                   | 200-300°F      | 93-150°C      | 23 CFM | 220V | 50 Hz | 3A    | 600W HAS-012K                                                                                                                                                                              |
| HG-302A                   | 300-500°F      | 150-260°C     | 23 CFM | 220V | 50 Hz | 6A    | 1440W HAS-013K                                                                                                                                                                             |
| HG-502A                   | 500-750°F      | 260-400°C     | 23 CFM | 220V | 50 Hz | 7A    | 1680W HAS-014K                                                                                                                                                                             |
| HG-752A                   | 750-1000°F     | 400-540°C     | 23 CFM | 220V | 50 Hz | 9A    | 1740W HAS-016K                                                                                                                                                                             |
| MASTER VARITEMP® HEAT GUN |                |               |        |      |       |       | REPLACEMENT ELEMENT                                                                                                                                                                        |
| MODEL NO.                 | DESCRIPTION    |               |        |      |       |       |                                                                                                                                                                                            |
| VT-750C                   | Amb. to 1000°F | Amb. to 540°C | 23 CFM | 120V | 60 Hz | 14.5A | 1740W HAS-043K                                                                                        |
| VT-752C                   | Amb. to 750°F  | Amb. to 400°C | 23 CFM | 220V | 50 Hz | 7A    | 1680W HAS-014K                                                                                                                                                                             |

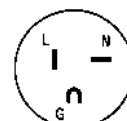
## Specifications

- Air Volume: 23 CFM ■ Air Velocity: 3000 FPM ■ Motor: Universal ■ Nozzle Opening: 1.2" I.D., 1.5" O.D. ■ Cordset: 6 ft., 3-wire grounded ■ Dimensions: 9" L x 5.2" W x 10.1" H.
- Tool Net Weight: 3.7 lbs. ■ Shipping Weight Tool: 5 lbs. ■ Shipping Weight Kit: 10 lbs.

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



Replacement Heating  
Element



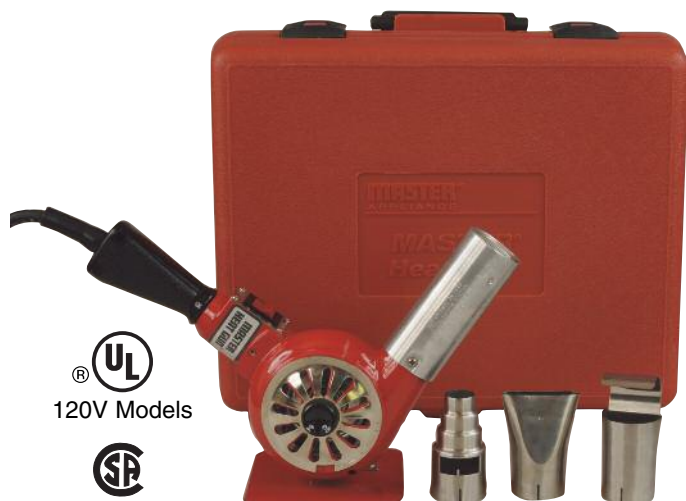
\*NEMA 5-20P Plug



Rotating Swivel Stand

# Master & Varitemp® Kits & Accessories

Add versatility to your HG & VT heat gun models



UL  
120V Models  
SP

**Master Heat Gun® Kit**

- Quality attachments are made of durable stainless steel
- Storage/carrying case protects heat gun and provides ample storage space for attachments
- Kits include a Master Heat Gun® or Varitemp® Heat Gun, A-160-HG shrink attachment, 51543 spreader attachment and 51544 reducer attachment packed in a rugged, plastic storage/carrying case

USA  
MADE IN



UL  
120V Models

**Varitemp® Heat Gun Kit**

## MASTER HEAT GUN® KIT

| MODEL NO. | DESCRIPTION                                        |
|-----------|----------------------------------------------------|
| HG-201AK  | 200-300°F 93-150°C 23 CFM 120V 60 Hz 5A 600W       |
| HG-301AK  | 300-500°F 150-260°C 23 CFM 120V 60 Hz 12A 1440W    |
| HG-501AK  | 500-750°F 260-400°C 23 CFM 120V 60 Hz 14A 1680W    |
| HG-751BK  | 750-1000°F 400-540°C 23 CFM 120V 60 Hz 14.5A 1740W |

## MASTER VARITEMP® HEAT GUN KIT

| MODEL NO. | DESCRIPTION                                          |
|-----------|------------------------------------------------------|
| VT-750CK  | Amb.-1000°F Amb.-540°C 23 CFM 120V 60 Hz 14.5A 1740W |

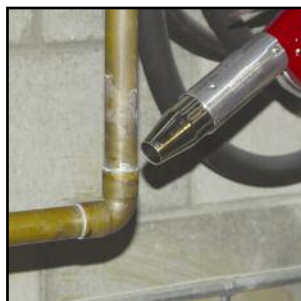
## Optional Accessories

| PART NO. | DESCRIPTION                                  |
|----------|----------------------------------------------|
| A-160-HG | Shrink attachment for tubing up to 3/4" O.D. |
| A-170-HG | Shrink attachment for tubing 3/4" to 2" O.D. |
| 35245    | Three popular attachments                    |
| 30202 *  | Solder preform attachment                    |
| 51013    | Molded storage carrying case                 |
| 51309 *  | 3/8" pinpoint attachment                     |
| 51542    | Glass protector attachment                   |
| 51543    | 2-1/4" spreader attachment                   |
| 51544    | 7/8" reducer attachment                      |

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



**Thaw Pipes**



**Solder/Desolder**



**A-160-HG**  
Shrink attachment for tubing up to 3/4"



**51543**  
2-1/4" Spreader attachment



**51544**  
7/8" Reducer attachment



**A-170-HG**  
Shrink attachment for tubing 3/4" to 2" O.D.



**30202 \***  
Solder preform attachment



**51309 \***  
3/8" Pinpoint attachment



**51542**  
Glass protector attachment



**35245**  
Three of our most popular attachments



**51013**  
Rugged, plastic storage and carrying case for HG & VT Heat Guns only

\* Not for use with HG-751B or HG-752A

# Proheat® LCD Programmable Heat Gun & Kit

Rugged variable air flow, variable temperature heat gun with digital display

- Compact, light weight, easy-to-use
- Six preset & customizable program settings with digital display of temperature and air flow settings
- Programmable heat and air flow removes the guess work
- Adjustable temperature in 10° increments from 130°F to 1000°F (50°C to 540°C) in your choice of degrees Fahrenheit or Celsius
- Adjustable air flow from 4 to 16 CFM (113 - 453 l/min.)
- Electronic closed loop temperature control system maintains constant temperature when varying air flow or using specialty attachments
- Base functions as built-in stand for hands-free use
- Ergonomic handle provides balanced grip
- Temperature & Air Flow Lock-In feature provides added management control. Perfect for production applications requiring consistent application of heat.
- Power-interrupt Reset for added safety, prevents heat gun from causing damage if left in "Hot" position during power failure, when power returns
- Made in the USA. 12 month warranty
- UL Listed or CE Certified
- Use to heat or dry temperature sensitive materials, shrink tubing, shrink packaging and specialty connectors, solder and desolder, bend plastics, activate adhesives, remove decals, defrost frozen pipes and more
- Multiple electrical plugs, attachments & bench stand available - see page 12

PH-1500  
PH-2500



Programmable temperature and air flow controls with 6 memory functions



Quality attachments for professional applications

Proheat LCD Programmable Heat Gun with rugged storage case and all 5 specialty attachments

| MODEL NO. | DESCRIPTION  | Air Temperature                                                                                  | Air Velocity               | Air Volume             |      |          |      |       |    |    |
|-----------|--------------|--------------------------------------------------------------------------------------------------|----------------------------|------------------------|------|----------|------|-------|----|----|
| PH-1500   | Heat Gun     | 130° F to 1000° F/50°C to 540° C                                                                 | 737-4000 FPM/213-1219m/min | 4-16 CFM/113-453 l/min | 120V | 60 Hz    | 11A  | 1300W | UL | US |
| PH-1500K  | Heat Gun Kit | PH-1500 Heat Gun with storage case and all 5 attachments (Part No.35309) see page 12 for details |                            |                        |      |          |      |       |    | UL |
| PH-2500   | Heat Gun     | 130° F to 1000° F/50°C to 540° C                                                                 | 737-4000 FPM/213-1219m/min | 4-16 CFM/113-453 l/min | 230V | 50/60 Hz | 6.2A | 1426W | CE |    |
| PH-2500K  | Heat Gun Kit | PH-2500 Heat Gun with storage case and all 5 attachments (Part No.35309) see page 12 for details |                            |                        |      |          |      |       |    | CE |

## Specifications

- Motor: Permanent Magnet ■ Nozzle Opening: .88" I.D., 1.31" O.D.
- Cordset: 6 ft., 3-wire grounded ■ Dimensions: 8.2" L x 3.0" W x 7.3" H
- Tool Net Weight: 1.6 lbs. ■ Shipping Weight Tool: 2 lbs.
- Shipping Weight Kit: 7 lbs.

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

## Use Preset Programs or Create Your Own

| Preset Program | Temp °F | Temp °C | Air Flow CFM | Heat Gun Application          |
|----------------|---------|---------|--------------|-------------------------------|
| 1              | 250     | 120     | 8            | Applying specialty composites |
| 2              | 450     | 230     | 12           | Shrinking tubing              |
| 3              | 650     | 340     | 14           | De-soldering circuit boards   |
| 4              | 850     | 450     | 16           | Bending & forming plastics    |
| 5              | 1000    | 540     | 12           | Soldering                     |

# Proheat® LCD Dial-in Heat Gun & Kit

Rugged variable air flow, variable temperature heat gun with digital display

- Compact, light weight, easy-to-use
- LCD with digital display of temperature and air flow settings
- Dial-in temperatures in 10° increments from 130°F to 1000°F (50°C to 540°C) displayed in degrees Fahrenheit or Celsius
- Adjustable air flow from 4 to 16 CFM (113 - 453 l/min.)
- Electronic closed-loop temperature control system maintains constant temperature when varying air flow or using specialty attachments
- Base functions as built-in stand for hands-free use
- Balanced ergonomic design and grip prevents operator fatigue
- Temperature & Air Flow Lock-In feature provides added management control. Perfect for production applications requiring consistent application of heat
- Power-interrupt Reset for added safety, prevents heat gun from causing damage if left in "Hot" position during power failure, when power returns
- Made in the USA. 12 month warranty
- UL Listed or CE Certified
- Use to heat or dry temperature sensitive materials, shrink tubing, shrink packaging and specialty connectors, solder and desolder, bend plastics, activate adhesives, remove decals, defrost frozen pipes and more
- Multiple electrical plugs, attachments & bench stand available - see page 12



Dial-In variable temperature & airflow controls



Quality attachments for professional applications

Proheat LCD Dial-In Heat Gun with rugged storage case and all 5 specialty attachments

| MODEL NO. | DESCRIPTION        | Air Temperature                                                                                  | Air Velocity               | Air Volume             |      |          |      |       |        |
|-----------|--------------------|--------------------------------------------------------------------------------------------------|----------------------------|------------------------|------|----------|------|-------|--------|
| PH-1400   | Heat Gun           | 130° F to 1000° F/50°C to 540° C                                                                 | 737-4000 FPM/213-1219m/min | 4-16 CFM/113-453 l/min | 120V | 60 Hz    | 11A  | 1300W | cUL US |
| PH-1400K  | Heat Gun Kit       | PH-1400 Heat Gun with storage case and all 5 attachments (Part No.35309) see page 12 for details |                            |                        |      |          |      |       | cUL US |
| PH-1400-1 | Heat Shrink System | PH-1400 Heat Gun with bench stand (35216) and specialty connector attachment (35292)             |                            |                        |      |          |      |       | cUL US |
| PH-2400   | Heat Gun           | 130° F to 1000° F/50°C to 540° C                                                                 | 737-4000 FPM/213-1219m/min | 4-16 CFM/113-453 l/min | 230V | 50/60 Hz | 6.2A | 1426W | CE     |
| PH-2400K  | Heat Gun Kit       | PH-2400 Heat Gun with storage case and all 5 attachments (Part No.35309) see page 12 for details |                            |                        |      |          |      |       | CE     |
| PH-2400-1 | Heat Shrink System | PH-2400 Heat Gun with bench stand (35216) and specialty connector attachment (35292)             |                            |                        |      |          |      |       | CE     |

Bench Top Heat Shrink System with Locking Controls



## Specifications

- Motor: Permanent Magnet
- Nozzle Opening: .88" I.D., 1.31" O.D.
- Cordset: 6 ft., 3-wire grounded
- Dimensions: 8.2" L x 3.0" W x 7.3" H
- Tool Net Weight: 1.6 lbs.
- Shipping Weight Tool: 2 lbs.
- Shipping Weight Kit: 7 lbs.

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

# Proheat® Variair® Heat Gun & Kit

Rugged variable air flow, variable temperature heat gun

- Compact, light weight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- Variable temperature 130°F to 1000°F (54°C to 540°C)
- Variable air flow 4 to 16 CFM
- Electronic closed loop temperature control system maintains constant temperature when varying air flow or using specialty attachments
- Base provides built-in stand for hands-free use
- Protective hand/switch guard and hanging loop
- Power-interrupt Reset for added safety, prevents heat gun from causing damage if left in "Hot" position during power failure, when power returns
- Made in the USA. 12 month warranty
- New 230 Volt models PH-2300, PH2300-1 & PH-2300K
- UL Listed or CE Certified
- Use to heat temperature sensitive materials including specialty connectors, solder preforms, shrink tubing and more
- Multiple electrical plugs, attachments & bench stand available - see page 12

PH-1300  
PH-2300

**NEW!**  
European Models



Proheat Variair Heat Gun with rugged storage case and all 5 specialty attachments



Separate temperature and air flow controls



Quality attachments for professional applications

| MODEL NO. | DESCRIPTION        | Air Temperature                                                                                  | Air Velocity               | Air Volume             |      |          |      |       |     |    |
|-----------|--------------------|--------------------------------------------------------------------------------------------------|----------------------------|------------------------|------|----------|------|-------|-----|----|
| PH-1300   | Heat Gun           | 130° F to 1000° F/50°C to 540° C                                                                 | 737-4000 FPM/213-1219m/min | 4-16 CFM/113-453 l/min | 120V | 60 Hz    | 11A  | 1300W | cUL | US |
| PH-1300K  | Heat Gun Kit       | PH-1300 Heat Gun with storage case and all 5 attachments (Part No.35309) see page 12 for details |                            |                        |      |          |      |       |     |    |
| PH-1300-1 | Heat Shrink System | PH-1300 Heat Gun with bench stand (35216) and specialty connector attachment (35292)             |                            |                        |      |          |      |       |     |    |
| PH-2300   | Heat Gun           | 130° F to 1000° F/50°C to 540° C                                                                 | 737-4000 FPM/213-1219m/min | 4-16 CFM/113-453 l/min | 230V | 50/60 Hz | 6.2A | 1426W | CE  | CE |
| PH-2300K  | Heat Gun Kit       | PH-2300 Heat Gun with storage case and all 5 attachments (Part No.35309) see page 12 for details |                            |                        |      |          |      |       |     |    |
| PH-2300-1 | Heat Shrink System | PH-2300Heat Gun with bench stand (35216) and specialty connector attachment (35292)              |                            |                        |      |          |      |       |     |    |

## Specifications

- Motor: Permanent Magnet ■ Nozzle Opening: .88" I.D., 1.31" O.D.
- Cordset: 6 ft., 3-wire grounded ■ Dimensions: 8.2" L x 3.0" W x 7.3" H ■ Tool Net Weight: 1.6 lbs. ■ Shipping Weight Tool: 2 lbs.
- Shipping Weight Kit: 7 lbs.

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

## Bench Top Heat Shrink System



# Proheat® Varitemp® Heat Gun & Kit

Rugged variable temperature heat gun

- Compact, lightweight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- Variable temperature 130°F to 1000°F (50°C to 540°C)
- Electronic closed loop temperature control system maintains constant temperature and protects unit from overheating
- Base provides built-in stand for hands-free use
- Protective hand/switch guard and hanging loop
- Made in the USA. 12 month warranty
- UL Listed or CE Certified
- Use to heat temperature sensitive materials including specialty connectors, solder preforms, shrink tubing
- Multiple electrical plugs, attachments & bench stand available - see page 12



PH-1200  
PH-2200



Easy access variable temperature control



Quality attachments for professional applications



Proheat Varitemp with rugged storage case and all 5 specialty attachments

| MODEL NO. | DESCRIPTION        | Air Temperature                                                                                  | Air Velocity       | Air Volume       |      |          |      |       |        |
|-----------|--------------------|--------------------------------------------------------------------------------------------------|--------------------|------------------|------|----------|------|-------|--------|
| PH-1200   | Heat Gun           | 130° F to 1000° F/50°C to 540° C                                                                 | 4000 FPM/1219m/min | 16 CFM/453 l/min | 120V | 60 Hz    | 11A  | 1300W | cUL US |
| PH-1200K  | Heat Gun Kit       | PH-1200 Heat Gun with storage case and all 5 attachments (Part No.35309) see page 12 for details |                    |                  |      |          |      |       |        |
| PH-1200-1 | Heat Shrink System | PH-1200 Heat Gun with bench stand (35216) and specialty connector attachment (35292)             |                    |                  |      |          |      |       |        |
| PH-2200   | Heat Gun           | 130° F to 1000° F/50°C to 540° C                                                                 | 4000 FPM/1219m/min | 16 CFM/487 l/min | 230V | 50/60 Hz | 6.2A | 1426W | CE     |
| PH-2200K  | Heat Gun Kit       | PH-2200 Heat Gun with storage case and all 5 attachments (Part No.35309) see page 12 for details |                    |                  |      |          |      |       |        |
| PH-2200-1 | Heat Shrink System | PH-2200 Heat Gun with bench stand (35216) and specialty connector attachment (35292)             |                    |                  |      |          |      |       |        |

## Specifications

- Motor: Permanent Magnet
- Nozzle Opening: .88" I.D., 1.31" O.D.
- Cordset: 6 ft., 3-wire grounded
- Dimensions: 8.2" L x 3.0" W x 7.3" H
- Tool Net Weight: 1.6 lbs.
- Shipping Weight Tool: 2 lbs.
- Shipping Weight Kit: 7 lbs.

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

## Bench Top Heat Shrink System



PH-1200-1  
PH-2200-1

# Proheat® Heat Gun, Kit & Accessories

## Rugged dual temperature heat gun & momentary contact heat gun

- Compact, lightweight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- Two heat settings 500°F or 1000°F (260°C or 540°C)
- Base provides built-in stand for hands-free use
- Protective hand/switch guard and hanging loop
- New PH-1000 & PH-2000 models have Momentary Contact Switch
- UL Listed or CE Certified, 12 month warranty, Made in USA
- Use to activate adhesives, bend plastics, dry filler material, shrink tubing and more
- Multiple electrical plugs, 2 attachments & bench stand available - see below

### Specifications

- Motor: Permanent Magnet ■ Nozzle Opening: .88" I.D., 1.31" O.D.
- Cordset: 6 ft., 3-wire grounded ■ Dimensions: 8.2" L x 3.0" W x 7.3" H
- Tool Net Weight: 1.6 lbs. ■ Shipping Weight Tool: 2 lbs.
- Shipping Weight Kit: 7 lbs.

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

PH-1000  
PH-1100  
PH-2000  
PH-2100



PH-1100K  
PH-2100K

Proheat Dual Temperature Heat Gun with rugged storage case and 2 attachments (35016 & 35017)

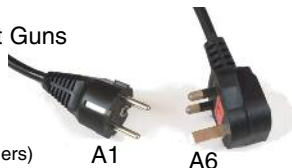
| MODEL NO. | DESCRIPTION  | Air Temperature                                                                                  | Air Velocity       | Air Volume       |      |          |      |       |       |
|-----------|--------------|--------------------------------------------------------------------------------------------------|--------------------|------------------|------|----------|------|-------|-------|
| PH-1100   | Heat Gun     | 500°F or 1000°F /260°C or 540°C                                                                  | 4000 FPM/1219m/min | 16 CFM/453 l/min | 120V | 60 Hz    | 11A  | 1300W | UL US |
| PH-1100K  | Heat Gun Kit | PH-1100 Heat Gun with storage case and all 5 attachments (Part No.35309) see page 12 for details |                    |                  |      |          |      |       | UL US |
| PH-1000   | Heat Gun     | 1000°F /540°C                                                                                    | 4000 FPM/1219m/min | 16 CFM/453 l/min | 120V | 60 Hz    | 11A  | 1300W | UL US |
|           |              | with <b>Momentary Contact Safety Switch</b> (if not held, will shut the unit off)                |                    |                  |      |          |      |       |       |
| PH-2100   | Heat Gun     | 500°F or 1000°F /260°C or 540°C                                                                  | 4000 FPM/1219m/min | 16 CFM/453 l/min | 230V | 50/60 Hz | 6.2A | 1426W | CE    |
| PH-2100K  | Heat Gun Kit | PH-2100 Heat Gun with storage case and 2 attachments (35017 & 35016)                             |                    |                  |      |          |      |       | CE    |
| PH-2000   | Heat Gun     | 1000°F /540°C                                                                                    | 4000 FPM/1219m/min | 16 CFM/453 l/min | 230V | 50/60 Hz | 6.2A | 1426W | CE    |
|           |              | with <b>Momentary Contact Safety Switch</b> (if not held, will shut the unit off)                |                    |                  |      |          |      |       |       |

## Proheat® Heat Gun Accessories

Professional quality options and accessories add versatility to your Proheat Series Heat Gun models. Direct, concentrate or reflect heat to allow more versatile and precise applications for your heat tool.

Note: For 230 Volt Proheat Series Heat Guns destined outside North America, add suffix A1 or A6 to model number to designate plug type.

Example: PH-2400-A1 (Continental Europe & others)  
PH-2500-A6 (UK & others)



A1

A6



Nozzle Shield  
Prevents  
nozzle contact  
Part No. 35026



Bench Stand  
To position heat guns  
for various  
applications  
Part No. 35216



Storage Case  
Rugged, plastic stor-  
age and carrying case  
Part No. 35351



3-1/2" Spreader  
Attachment  
Spread air over  
large area  
Part No. 35016



1-3/8" Shrink  
Attachment  
Shrink tubing  
Part No. 35017



1/2" Specialty  
Connector  
Attachment\*  
Terminate tubing and  
specialty connectors  
Part No. 35292



5/16" Pinpoint  
Attachment\*  
Pinpoint hot air  
source for  
desoldering and  
plastic welding  
Part No. 35294



9/16" Reducer  
Attachment\*  
Direct hot air  
source for  
desoldering and  
plastic welding  
Part No. 35293



Get all 5!  
Attachment Kit\*  
Five attachments  
Part No. 35309

\* Not for PH-1000, PH-1100  
PH-2000 or PH-2100  
These models do not have  
"closed loop temperature features"

# Ecoheat® Heat Gun & Kit

Economical, lightweight, multi-use heat gun



- Two heat settings: 500°F or 1000°F (260°C or 540°C)
- Two fan speeds - Low or High (7 or 9 CFM)
- Resettable thermostat - Automatically protects element against overheating
- Lightweight - 1 lb. - Easy to hold at any angle for long periods of time, eliminates operator fatigue
- Built-in hand guard - Protects hand and fingers. Recessed switch guards against knocks and bumps
- 3-wire grounded cordset - Positive grounding system for user safety
- Thermoplastic housing - For high impact durability
- Built-in stand - Very stable, allows user to set heat gun down in an upright position for hands-free use
- Use to bend and form plastics, dry body fillers, remove decals, spot dry paint, shrink tubing, packaging and more

| MODEL NO. | DESCRIPTION                                                                                                                                                                                                                                                                                          |                |            |      |          |     |       |        |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|------|----------|-----|-------|--------|
| EC-100    | 500°F or 1000°F                                                                                                                                                                                                                                                                                      | 260°C or 540°C | 7 or 9 CFM | 120V | 50/60 Hz | 10A | 1200W | cUL US |
| EC-100K   | 500°F or 1000°F                                                                                                                                                                                                                                                                                      | 260°C or 540°C | 7 or 9 CFM | 120V | 50/60 Hz | 10A | 1200W | cUL US |
| 35225     | Kit includes EC-100 Heat Gun, 7/8" reducer attachment, 1-1/4" shrink tubing reflector, 1-15/16" and 3-1/8" spreader attachments packed in a durable storage/carrying case. Attachment kit contains 7/8" reducer attachment, 1-1/4" shrink tubing reflector, 1-15/16" and 3-1/8" spreader attachments |                |            |      |          |     |       |        |
| 35215     | Durable storage/carrying case                                                                                                                                                                                                                                                                        |                |            |      |          |     |       |        |



Kit includes storage case and four specialized nozzle attachments shown left to right: 7/8" reducer, shrink tubing reflector, 1-5/16" spreader and 3-1/8" spreader

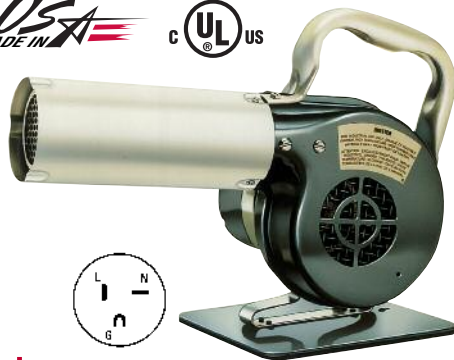
## Specifications

- Air Volume: 7 or 9 CFM
- Air Velocity: 720 or 1100 FPM
- Motor: Permanent Magnet
- Nozzle Opening: 1.2" I.D., 1.35" O.D.
- Cordset: 6 ft., 3-wire grounded
- Dimensions: 8.5" L x 3.2" W x 7.7" H
- Tool Net Weight: 2 lbs.
- Shipping Weight Tool: 3 lbs.
- Shipping Weight Kit: 5 lbs.

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

# Masterflow® Heat Blower

Heavy-duty, industrial quality, continuous-duty heat blower



Replacement Heating Element ★ NEMA 5-20P Plug

- 3 models produce 300°F, 500°F or 750°F. High temperatures accommodate many heating, drying & shrinking applications
- High air flow: 47 CFM at 2200 FPM gets job done fast
- Brushless induction type motor for quiet, continuous-duty operation
- Easily replaceable, reinforced, mica-insulated heating element
- Rubber-backed stand permits 90° non-slip adjustability
- Use in any position or mount on equipment
- Ergonomic handle for carrying or portable use
- Mount over conveyor line or on machinery
- Use to heat or dry materials, bend plastics, shrink wrap and more

## Specifications

- Air Volume: 47 CFM
- Air Velocity: 2200 FPM
- Motor: Induction
- Nozzle Opening: 1.85" I.D., 2.25" O.D.
- Dimensions: 12" L x 6" W x 9" H, (AH-301 & AH-302, 9" L x 6" W x 9" H)
- Base Size: 6" x 6"
- Cordset: 6 ft., 3-wire grounded
- Net Weight: 6 lbs.
- Shipping Weight: 8 lbs.

| MODEL NO. | DESCRIPTION |       |      |       |       |        |  | REPLACEMENT ELEMENT |
|-----------|-------------|-------|------|-------|-------|--------|--|---------------------|
| AH-301    | 300°F       | 150°C | 120V | 10.0A | 60 Hz | 1200 W |  | 815 cUL US          |
| AH-501    | 500°F       | 260°C | 120V | 14.0A | 60 Hz | 1680 W |  | 30310 cUL US        |
| AH-751 ★  | 750°F       | 400°C | 120V | 18.0A | 60 Hz | 2160 W |  | 30312 cUL US        |
| AH-302    | 300°F       | 150°C | 240V | 5.2A  | 60 Hz | 1200 W |  | 816 cUL US          |
| AH-502    | 500°F       | 260°C | 240V | 7.3A  | 60 Hz | 1680 W |  | 30311 cUL US        |
| AH-752    | 750°F       | 400°C | 240V | 9.4A  | 60 Hz | 2160 W |  | 30313 cUL US        |

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

# Master-Mite® Heat Gun

## Continuous-duty bench-top heating system

- Complete system comes standard with 650°F/343°C heating element, adjustable stand and heat shrink attachment
- Ideal heat & air flow (3.8 CFM), performs benchtop heating jobs without blowing components around the work station
- Quiet-running shaded pole motor, eliminates noisy production areas
- 3 optional easy-to-change plug-in heating elements available: 500°, 650° & 800°F
- Use to activate adhesive, cure epoxies, dry components, melt solder preforms, remove decals, shrink tubing and more

### Optional Replacement Heating Elements

| PART NO. | DESCRIPTION                  |
|----------|------------------------------|
| 30201    | Blue 500°F 260°C 120V 340W   |
| 40061    | Silver 650°F 343°C 120V 475W |
| 40061    | Black 800°F 427°C 120V 525W  |
| 40060    | Blue 500°F 260°C 220V 400W   |
| 40060    | Silver 650°F 343°C 220V 450W |
| 40060    | Black 800°F 427°C 220V 500W  |
| 50675    | Blue 500°F 260°C 240V 400W   |
| 50675    | Silver 650°F 343°C 240V 450W |
| 50675    | Black 800°F 427°C 240V 500W  |

### Optional Accessories

| PART NO. | DESCRIPTION               |
|----------|---------------------------|
| 30201    | Solder preform attachment |
| 40060    | Heat shrink attachment    |
| 40061    | 1/4" pinpoint attachment  |
| 50675    | Bench stand               |



c UL US  
120V Model

| MODEL NO. | DESCRIPTION                               |
|-----------|-------------------------------------------|
| 10008     | 650° F/343° C 120V 60Hz 4.5A 475W c UL US |
| 10009     | 650° F/343° C 220V 50Hz 2.0A 450W         |
| 10010     | 800° F/427° C 240V 50Hz 1.9A 450W         |

### Specifications

■ Air Volume: 3.8 CFM ■ Air Velocity: 700 FPM ■ Motor: Shaded Pole ■ Nozzle Opening: .99" I.D., 1.03 O.D. ■ Cordset: 7 ft., 3-wire grounded ■ Dimensions: 8.8" L x 3.3" W x 7" H ■ Net Weight: 1.7 lbs. ■ Shipping Weight: 3 lbs.

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

# Master-Mite® ESD Heat Gun

## Continuous-duty ESD bench-top heating system

- Complete system comes standard with black 800°F/427°C heating element, shrink attachment and adjustable stand
- Totally grounded system with housing surface conductivity 500 ohms square. Conductive housing will not build up or hold a static charge
- Housing helps to shield against EMI & RFI (electromagnetic & radio frequency interference)
- A long-life, quiet-running, maintenance free shaded pole motor
- Low velocity air flow will not blow components around the workstation
- 3 optional interchangeable plug-in heating elements available
- Complete line of attachments available
- Use to activate adhesive, cure epoxies, dry components, melt solder preforms, remove decals, shrink tubing and more

| MODEL NO. | DESCRIPTION                             |
|-----------|-----------------------------------------|
| 10012     | 800°F/427°C 120V 60Hz 4.5A 525W c UL US |
| 10014     | 800°F/427°C 100V 50/60Hz 4.9A 450W      |

### Optional Replacement Heating Elements

| PART NO. | DESCRIPTION                  |
|----------|------------------------------|
| 20012    | Blue 500°F/260°C 120V 340W   |
| 20013    | Silver 650°F/343°C 120V 475W |
| 20014    | Black 800°F/427°C 120V 525W  |

### Optional Accessories

| PART NO. | DESCRIPTION               |
|----------|---------------------------|
| 30201    | Solder preform attachment |
| 40060    | Heat shrink attachment    |
| 40061    | 1/4" pinpoint attachment  |
| 50675    | Bench stand               |



c UL US  
120V Model

### Specifications

■ Ave. Air Volume: 3.8 CFM ■ Ave. Air Velocity: 700 FPM ■ Motor: Shaded Pole ■ Nozzle Opening: .99" I.D., 1.03 O.D. ■ Cordset: 7 ft., 3-wire grounded ■ Dimensions: 8.8" L x 3.3" W x 7" H ■ Housing Static Decay 5000V to <50V <0.01 sec. ■ Housing Surface Res. <500 ohms/sq. ■ Net Weight: 1.75 lbs. ■ Shipping Weight: 3 lbs.

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

# Econolron® EI-20

## Economical, butane-powered soldering iron, flameless heat tool & torch

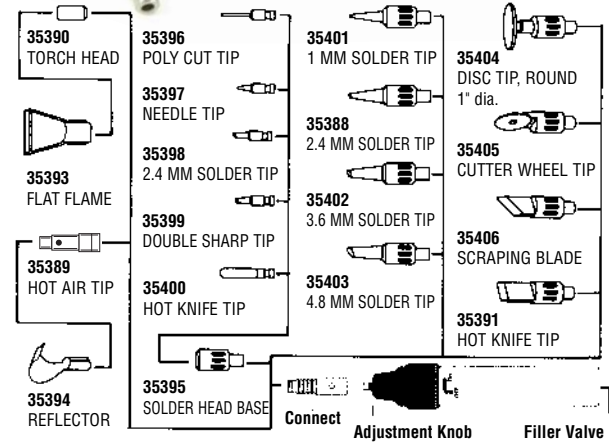
- Standard with soldering tip, hot air tip and torch tip
- Completely portable, lightweight and easy to handle
- Temperatures up to 2370°F/1300°C
- Ignite tool with flint lighter built into the cap
- Use to pinpoint flameless heat, silver solder, solder and desolder, heat shrink tubing and environmental connectors, strip insulation and cut plastics with hot knife tip, use as an open flame torch and more



| MODEL NO. | DESCRIPTION                                                                          |
|-----------|--------------------------------------------------------------------------------------|
| EI-20     | Economical, refillable, butane-powered soldering iron, flameless heat tool and torch |

### Optional Accessories

| PART NO. | DESCRIPTION                  | PART NO. | DESCRIPTION                       |
|----------|------------------------------|----------|-----------------------------------|
| 35388    | 2.4 mm soldering tip (std.)  | 35398    | 2.4 mm soldering tip – base req'd |
| 35389    | Flameless hot air tip (std.) | 35399    | Double sharp tip – base req'd     |
| 35390    | Torch head (std.)            | 35400    | Hot knife tip – base req'd        |
| 35391    | Hot knife tip (std. EI-20K)  | 35401    | 1 mm soldering tip                |
| 35392    | Cap with striker wheel       | 35402    | 3.6 mm soldering tip              |
| 35393    | Flat flame                   | 35403    | 4.8 mm soldering tip              |
| 35394    | Reflector                    | 35404    | Disc tip, round 1" dia.           |
| 35395    | Solder head base             | 35405    | Cutter wheel tip                  |
| 35396    | Poly cut tip – base req'd    | 35406    | Scraping blade                    |
| 35397    | Needle tip – base req'd      | 35407    | Popular accessory kit             |



### Specifications

- Approx. Soldering Tip Temp.: 395° F to 780° F (200° C to 420° C)
- Approx. Hot Air Tip Temp.: 780° F (420° C)
- Approx. Torch Temp.: 2370° F (1300° C)
- Equivalent to Electric Iron: 10 to 60 Watt
- Approx. Operating Time: 60 min.
- Fuel Tank Capacity: .6 fl. oz. (.01 L)
- Dimensions: 6.5" L (16.6 cm) w/o cap
- Net Weight: 1.9 oz. (54 g)
- Shipping Weight: 1 lb.
- Shipped Empty

35392 Cap with striker wheel

35407 Popular accessory kit includes: 35395 Solder head base, 35396 poly cut tip, 35397 needle tip, 35398 2.4 MM solder tip, 35399 double sharp tip, 35400 hot knife tip

Refill with Master Ultratane Butane for best performance. (page 28)

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

# Econolron® EI-20K

## Economical, butane-powered soldering iron, flameless heat tool & torch kit

- Kit contains tool, soldering tip, hot air tip, torch tip, hot knife tip, coil of 60/40 solder, sponge and tool stand packed in rugged plastic storage case
- Completely portable, lightweight and easy-to-handle
- Temperatures up to 2370°F/1300°C
- Ignite tool with flint lighter built into the cap
- Use to pinpoint flameless heat, silver solder, solder and desolder, heat shrink tubing and environmental connectors, strip insulation, cut plastics with hot knife tip, use as an open flame torch and more



| MODEL NO. | DESCRIPTION                                                                              |
|-----------|------------------------------------------------------------------------------------------|
| EI-20K    | Economical, refillable, butane-powered soldering iron, flameless heat tool and torch kit |

### Specifications

- Approx. Solder Tip Temp.: 395° F to 780° F (200° C to 420° C)
- Approx. Hot Air Tip Temp.: 780° F (420° C)
- Approx. Torch Tip Temp.: 2370° F (1300° C)
- Equivalent to Electric Iron: 10 to 60 Watt
- Approx. Operating Time: 60 min.
- Fuel Tank Capacity: .6 fl.oz. (.01 L)
- Tool dimensions: 6.5" L (16.6 cm) w/o cap
- Kit dimensions: 10" L X 5" W X 2" H (25.4 cm x 12.7 cm X 5 cm)
- Torch Net Weight: 1.9 oz. (54 g)
- Torch Kit Weight: 13.3 oz. (377 g)
- Shipping Weight tool: 1 lb.
- Shipping Weight Kit: 1 lb.(454 g)
- Shipped Empty



See above for more EI-20 accessories

Refill with Master Ultratane Butane for best performance. (page 28)

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

# High Performance Ultratip® Technology

Longer tip life, superior thermal conductivity

Master Appliance Ultratorch® heat tools feature Ultratip® soldering tips. Ultratip is the long lasting, oxygen-free, copper based, iron and chrome plated soldering tip with a built-in catalyst, tinned with lead-free solder.

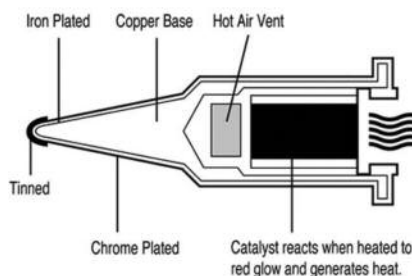
Ultratorch heat tools, with Ultratip Technology, are perfect for use with today's lead-free solders. In fact, Ultratip soldering tips have more than double the iron and chrome plating thickness of our competitors' brass based tips, providing higher thermal conductivity and much longer tip life.

## Tips for Lead-Free Hand Soldering

Because hand soldering tends to be done at the end of the line, where the value of a board is at its highest, switching to lead-free solder may have a significant effect on your manufacturing yields, costs and productivity. Simply increasing tip temperature is not the answer because it can cause flux to evaporate before it's had time to activate.

The keys to success here are tip material, tip shape, tip condition, the soldering iron's power output and it's time on the joint.

## Ultratip Technology



By choosing the tip shape closest to the component you're soldering, and always selecting the largest tip, you'll transfer heat more efficiently at lower settings. We offer a wide selection of tips for your applications.

Since lead-free solder's higher tin content erodes the tip's iron plating faster, Ultratip's thicker iron and chrome plating will significantly extend the tip life. Cleaning your tips often and immediately re-tinning them will also keep them in top condition longer.

# Ultratorch® UT-35

Economical, butane-powered, 3-in-1 soldering iron, flameless heat tool & torch

- Standard with Ultratip® soldering tip, hot air tip and protective cap
- 3-in-1 soldering iron, flameless heat tool and torch
- Completely portable, lightweight and easy to use
- Does not require cords, batteries or cartridges, just a lighter
- Adjustable temperature control for temperatures up to 1200°F
- Equivalent to a 20-60 watt electric soldering iron
- Built-in window indicates fuel level
- Refill with Master Ultratane Butane for best performance. (page 28)
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder & desolder, spot dry, strip insulation with hot knife and more



60-01-02 tip

60-01-52



| MODEL NO. | DESCRIPTION                                                                                    |
|-----------|------------------------------------------------------------------------------------------------|
| UT-35     | Professional quality, economical, butane-powered soldering iron, flameless heat tool and torch |

## Optional Accessories

| PART NO. | DESCRIPTION                              | PART NO.  | DESCRIPTION                               |
|----------|------------------------------------------|-----------|-------------------------------------------|
| 60P-1    | .2mm needle preheat soldering tip        | 60-01-01  | 1mm diameter tapered needle tip           |
| 60P-1C   | 1mm tapered needle preheat soldering tip | 60-01-02  | 3.3mm diameter chisel tip (std.)          |
| 60P-1.2D | 1.2mm chisel preheat soldering tip       | 60-01-03  | 2mm diameter spade tip                    |
| 60P-1.6D | 1.6mm chisel preheat soldering tip       | 60-01-04  | 3mm diameter spade tip                    |
| 60P-0.5B | .5mm needle preheat soldering tip        | 60-01-52  | 5.6mm O.D./4.71mm I.D. hot air tip (std.) |
| 60-02    | Protective cap (standard)                | 70-01-55  | Heat shrink attachment                    |
| 60-07U   | Ejector unit                             | 113-01-10 | Hot knife tip                             |
| 60-14    | Knurled cap nut                          | 60P-K     | Preheat hot knife tip                     |

## Specifications

■ Soldering Tip Temp.: 932° F (500° C) max ■ Hot Air Tip Temp.: 1200° F (650° C) max ■ Torch Tip Temp.: 2370° F (1300° C) max ■ Equivalent to 20 to 60 Watt Electric Iron ■ Operating Time: approx 60 min. ■ Fuel Tank Capacity: 12 ML ■ Dimensions: 7.3" L (185 mm) w/o cap ■ Net Weight: 2.6 oz. (74g) ■ Shipping Weight: 1 lb. ■ Shipped Empty

Refill with Master Ultratane Butane for best performance. (page 28)



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

# Ultratorch® UT-40Si & UT-40SiH

Professional quality, economical, self-igniting soldering iron & flameless heat tool

- Standard with Ultratip® soldering tip, hot air tip and protective cap
- Convenient slide switch ignition system for quick ignition
- Adjustable temperature lever for temperatures up to 1202°F
- Equivalent to a 20-80 watt electric soldering iron
- Compact size, lightweight and completely portable
- Rugged, easy-to-hold plastic body
- Butane powered with patented gas catalyst reaction system
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder & desolder, spot dry, strip insulation with hot knife and more

| MODEL NO. | DESCRIPTION                                   |
|-----------|-----------------------------------------------|
| UT-40Si   | Ultratorch soldering iron/flameless heat tool |
| UT-40SiH  | Ultratorch w/hot air tip & shrink attachment  |

## Optional Accessories

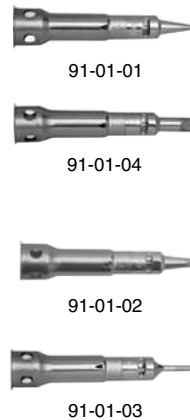
| PART NO.                                   | DESCRIPTION                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------|
| <b>SOLDERING TIPS</b>                      |                                                                             |
| 91-01-01                                   | 1mm wide chisel soldering tip                                               |
| 91-01-02                                   | 2.4mm wide chisel soldering tip (std. Ut-40Si, Ut-40SiK)                    |
| 91-01-03                                   | 2mm wide chisel soldering tip                                               |
| 91-01-04                                   | 5mm wide chisel soldering tip                                               |
| <b>HOT AIR TIPS AND SHRINK ATTACHMENT</b>  |                                                                             |
| 91-01-50                                   | 1.6mm wide hot air tip                                                      |
| 91-01-52                                   | 4.7mm wide hot air tip (std. all models)                                    |
| 70-01-55                                   | .5" dia. shrink attachment (std. UT-40SiH, UT-40SiK)<br>(requires 91-01-52) |
| <b>HOT KNIFE TIP</b>                       |                                                                             |
| 91-01-53                                   | Standard/with UT-40SiK                                                      |
| <b>PROTECTIVE CAP &amp; CARRYING STRAP</b> |                                                                             |
| 91-02                                      | Protective cap (std. all models)                                            |
| 70-52U                                     | Carrying strap                                                              |

## Specifications

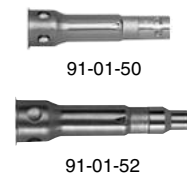
- See UT-40SiK for tool specifications



## Soldering Tips



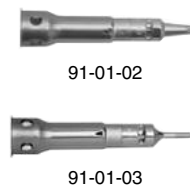
## Heat Tips



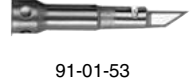
## Heat Shrink Attachment



## Protective Cap



## Hot Knife Tip



## Carrying Strap



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

# Ultratorch® UT-40SiK

Professional quality, economical, self-igniting soldering iron & flameless heat tool kit

- Kit contains Ultratorch, Ultratip® soldering tip, hot air tip, hot knife tip, shrink attachment, cap, sponge and stand, packed in a rugged plastic storage/carrying case
- Convenient slide switch ignition system for quick ignition
- Adjustable temperature lever for temperatures up to 1202°F
- Equivalent to a 20-80 watt electric soldering iron
- Compact size, lightweight and completely portable, features a rugged, easy-to-hold plastic body
- Patented gas catalyst reaction system
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder & desolder, spot dry, strip insulation with hot knife and more

| MODEL NO. | DESCRIPTION             |
|-----------|-------------------------|
| UT-40SiK  | Ultratorch UT-40SiK Kit |

## Specifications

- Approx. Soldering Tip Temp. 840° F (450° C)
- Approx. Hot Air Tip Temp.: 1202° F (650° C)
- Equivalent to Electric Iron: 20 to 80 Watt
- Approx. Operating Time: 1.3 hrs.
- Fuel Tank Capacity: .5 fl. oz
- Dimensions: 8.3" L (208 mm)
- Tool Net Weight: 2.6 oz.
- Shipping Weight Tool: 1 lb.
- Shipping Weight Kit: 2 lbs.
- Shipped Empty

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



See above for more UT-40Si accessories.  
Refill with Master Ultratane Butane for best performance. (page 28)

# Ultratorch® UT-50

Professional quality, pen-sized butane-powered soldering iron, flameless heat tool and torch

- Standard with Ultratip® soldering tip, hot air tip and protective cap
- Pen-sized heat tool fits in your shirt pocket for absolute portability
- Aluminum fuel tank with viewing window to indicate fuel level
- Optional tips and accessories available
- Operates for approximately 20 minutes on a full charge
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder and desolder, spot dry, torch materials and more

| MODEL NO. | DESCRIPTION                                                  |
|-----------|--------------------------------------------------------------|
| UT-50     | Butane-powered soldering iron, flameless heat tool and torch |

## Optional Accessories

| PART NO. | DESCRIPTION                       |
|----------|-----------------------------------|
| 71-01-01 | 1 mm dia. tapered needle tip      |
| 71-01-02 | 2.4 mm dia. chisel tip (standard) |
| 71-01-03 | 2 mm dia. spade tip               |
| 71-01-04 | 3 mm dia. spade tip               |
| 71-01-50 | 1.5mm dia. hot air tip            |
| 71-01-52 | 4.7mm dia. hot air tip (standard) |
| 70-01-55 | Heat shrink attachment            |
| 70-35    | Ejector spanner wrench            |
| 70-52U   | Carrying strap                    |

## Specifications

- Approx. Soldering Tip Temp.: 392° F to 842° F (200° C to 450° C)
- Approx. Hot Air Tip Temp.: 806° F (430° C) ■ Approx. Torch Tip Temp.: 2372° F (1300° C) ■ Equivalent to Electric Iron: 20 to 60 Watt ■ Approx. Operating Time: 20 min. ■ Fuel Tank Capacity: .2 fl. oz. (6 cc)
- Dimensions: 6.5" L (165 mm) ■ Net Weight: 2.2 oz. (53 g)
- Shipping Weight: 1 lb. ■ Shipped Empty

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



71-01-01



71-01-02



71-01-03



71-01-04



71-01-50



71-01-52



70-01-55



70-35



70-52U

Refill with Master Ultratane Butane for best performance. (page 28)

# Ultratorch® UT-100SiEA

Self-igniting butane-powered flameless heat tool with fan assisted airflow

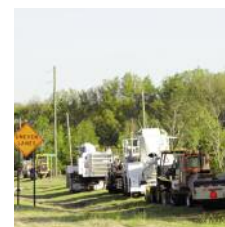
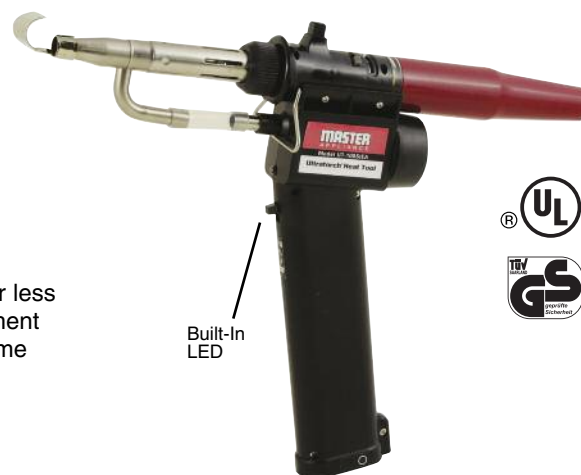
- Eliminates scorching and burning damage to shrink tubing during installation
- Variable temperature 302°F to 572°F (150°C to 300°C) with fan
- Enhanced Air Flow volume is 4 times greater with fan
- Variable temperature 482°F to 932°F (250°C to 500°C) without fan
- Butane-powered and completely portable/cordless, for use where no electrical outlets are available
- Built-in battery-powered motor uses 4 standard AA batteries
- Built-in LED light provides lighting in dark locations
- Built-in stand is convenient for safety and hands-free use
- Ideal for terminating shrink tubing and specialty connectors 10mm I.D. or less
- Use with or without enhanced air flow and with or without shrink attachment
- Ergonomic handle makes tool easy to use over an extended period of time
- UL & TUV Listed

| MODEL NO.  | DESCRIPTION                                                  |
|------------|--------------------------------------------------------------|
| UT-100SiEA | Butane-powered flameless heat tool with fan assisted airflow |

## Specifications

- Approx. Hot Air Temp.with fan: 302° F to 572° F (250°C to 300°C)
- Approx. Hot Air Temp.without fan: 482° F to 932° F (150°C to 300°C)
- Approx. Operating Time: 100 min. ■ Fuel Tank Capacity: 1 fl. oz. (28 cc)
- Dimensions: 10.25" L (242 mm) 8.25" H (242 mm) ■ Hot Air Tip Opening: 8mm dia. ■ Net Weight: 11.25 oz. (319 g) ■ Shipping Weight: 1 lb (453g). ■ Shipped Empty

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



# Ultratorch® UT-100 & UT-100-TC

## Butane-powered soldering iron, flameless heat tool and torch

- Triple function soldering iron, flameless heat tool and brazing torch
- Features oxygen-free, copper based Ultratip® soldering tips, with thick iron and chrome plating for long life and high thermal conductivity
- Cordless and completely portable, ready-to-use in 30 seconds
- Adjustable temperature control
- Soldering temperature up to 932°F, ideal for use with today's lead-free solder
- Hot air temperature up to 1202°F, perfect for Solderseal™ environmental "heat and seal" connectors
- Torch temperatures up to 2372°F/1260°C
- Sturdy metal tank with fuel viewing window holds enough fuel for 2 hours of operation
- Refill with Master Ultratane Butane for best performance. (page 28)
- Use to pinpoint heat, remove surface mount components, repair vinyl, heat shrink tubing, solder and desolder, spot dry, torch materials and more
- Optional accessories available and interchangeable between UT-100 & UT100Si. (See page 20)



| MODEL NO. | DESCRIPTION                                                                                                                                                                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UT-100-TC | Includes Ultratorch, three Ultratip soldering tips: 70-01-01, 70-01-02, 70-01-05, hot air tip: 70-01-52, shrink attachment: 70-01-55, hot knife: 70-01-16, 70-07TU torch ejector, open end wrench, ejector, sponge, cap, solder, wire cutter and needle nose pliers packed in a rugged plastic carrying case |
| UT-100    | Includes Ultratorch, Ultratip soldering tip: 70-01-02, hot air tip: 70-01-52, shrink attachment: 70-01-55, 70-07TU torch ejector, open end wrench, ejector, sponge and steel case                                                                                                                            |

See page 20 for more tips & accessories

Refill with Master Ultratane Butane for best performance. (page 28)

### Specifications

- Approx. Soldering Tip Temp.: 392° F to 932° F (200° C to 500° C)
- Approx. Hot Air Tip Temp.: 1112° F (600° C) ■ Approx. Torch Tip Temp. 2372° F (1260° C) ■ Equivalent to Electric Iron: 20 to 80 Watt ■ Approx. Operating Time: 120 min. ■ Fuel Tank Capacity: 1 fl. oz. (28 cc)
- Tool dimensions: 9.5" L (242 mm) ■ Tool Net Weight: 3.7 oz. (90 g)
- UT-100 Shipping Weight: 1 lb. ■ UT-100-TC Shipping Weight: 3 lb (131KG) ■ Shipped Empty

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



### UT-100-TC

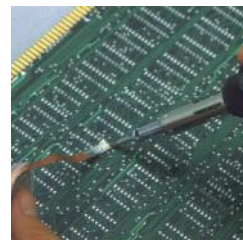
#### Ultratorch Professional Kit:

Includes heat tool, 3 soldering tips, flameless hot air and open flame torch tips, hot knife, solder, wire cutter, needle nose pliers and cap in a rugged storage/carrying case



70-01-02 tip  
70-35  
70-07TU  
70-01-52  
70-01-55

### UT-100 Ultratorch



Solder



Flameless Heat



Torch

# Ultratorch® UT-100 & UT-100Si Tips and Accessories

## For use with UT-100 & UT-100Si Ultratorches

- Oxygen-free, copper based Ultratip® soldering tips have thick iron and chrome plating for long life and high thermal conductivity
- Ultratips are manufactured using a patented process which produces uniform iron and chrome plating thickness
- Ultratip® soldering tips feature leading-edge combustion chamber/exhaust port design
- All tips pre-tinned with lead-free solder
- Optional accessories interchangeable between all UT-100 & UT-100Si models

| PART NO.              | DESCRIPTION                                                           |
|-----------------------|-----------------------------------------------------------------------|
| <b>SOLDERING TIPS</b> |                                                                       |
| 70-01-01              | 1mm dia. tapered needle soldering tip (std. UT-100-TC, UT-100Si-TC)   |
| 70-01-02              | 3.3mm dia. chisel soldering tip (std., all models)                    |
| 70-01-03              | 2mm dia. spade soldering tip                                          |
| 70-01-04              | 3mm dia. spade soldering tip                                          |
| 70-01-05              | 0.5mm dia. tapered needle soldering tip (std. UT-100-TC, UT-100Si-TC) |
| 70-01-06              | 2mm dia. micro spade soldering tip                                    |
| 70-01-07              | 0.5mm dia. square tapered pyramid soldering tip                       |
| 70-01-08              | 2mm dia. 35° spade soldering tip                                      |
| 70-01-09              | 3mm dia. 35° spade soldering tip                                      |
| 70-01-10              | 1mm dia. offset tapered needle soldering tip                          |
| 70-01-11              | 8mm dia. high powered chisel soldering tip                            |
| 70-01-12              | 3mm dia. high powered round head needle tip                           |
| 70-01-13              | .5mm dia. high powered long tapered chisel tip                        |
| 70-01-15              | 7mm dia. 45° spade soldering tip                                      |
| <b>HOT KNIFE TIP</b>  |                                                                       |
| 70-01-16              | Hot knife tip (std. UT-100-TC, UT-100Si-TC)                           |
| <b>HOT AIR TIPS</b>   |                                                                       |
| 70-01-50              | 2.5 O.D./1.59 I.D. (mm) hot air tip                                   |
| 70-01-51              | 4.25 O.D./3.3 I.D. (mm) hot air tip                                   |
| 70-01-52              | 5.7 O.D./4.9 I.D. (mm) hot air tip (std. all models)                  |
| 70-01-53              | 8.0 O.D./6.9 I.D. (mm) hot air tip                                    |
| <b>ACCESSORIES</b>    |                                                                       |
| 70-01-54              | Large heat shrink attachment                                          |
| 70-01-55              | Small heat shrink attachment (std. all models)                        |
| 70-02                 | Protective cap (std. UT-100, UT-100-TC)                               |
| 70-07TU               | Ejector, torch (std. UT-100, UT-100-TC)                               |
| 70-35                 | Ejector spanner wrench                                                |
| 70-37U                | Tip cleaner sponge (std. with UT-100, UT-100SiK)                      |
| 70-40U                | Metal storage box (std. with UT-100, UT-100SiK)                       |
| 70-43                 | Tool holder (std. with UT-100, UT-100SiK)                             |
| 70-52U                | Carrying strap                                                        |
| 90-02                 | Protective cap (std. UT-100Si, UT-100Si-TC)                           |
| 80-40                 | Open end wrench (std. UT-100Si, UT-100SiK and UT-100Si-TC)            |
| <b>ADAPTER</b>        |                                                                       |
| 70-01-14              | 8.4 tip adapter (4mm dia. x .7 pitch mm)                              |

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

### Soldering Tips



70-01-01



70-01-02



70-01-03



70-01-04



70-01-05



70-01-06



70-01-07



70-01-08



70-01-09



70-01-10



70-01-11



70-01-12



70-01-13



70-01-15

### Hot Knife Tip



70-01-16

### Adapter



70-01-14

### Hot Air Tips



70-01-50



70-01-51



70-01-52



70-01-53



70-07-TU

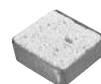
### Accessories



70-02



70-35



70-37U



70-40U



70-43



70-52U



70-01-54



70-01-55



80-40



90-02

# Self-igniting butane-powered soldering iron and flameless heat tool

- 

Includes heat tool, 3 soldering tips and flameless hot air tip, hot knife, solder, wire cutter, needle nose pliers and cap in a rugged storage/carrying case

## UT-100SiK Ultratorch Kit



70-01-55

80-40

70-35

70-01-52

**UT-100Si**  
**Ultratorch**



90-02

80-40

70-35

70-01-52

70-01-55



## Hot Knife Tip

## UT-100Si-HK Ultratorch

See page 20 for more accessories

■ Approx. Soldering Tip Temp.: 482° F to 932° F (250° C to 500° C) ■ Approx. Hot Air Tip Temp.: 1202° F (650° C) ■ Equivalent to Electric Iron: 20 to 80 Watt  
 ■ Approx. Operating Time: 120 min. ■ Fuel Tank Capacity: 1 fl. oz. (28 cc)  
 ■ Dimensions: 10.3" L (260 mm) ■ Tool Net Weight: 5.5 oz. (100 g) ■ Shipping Weight UT-100Si: 1 lb ■ Shipping Weight UT-100SiK: 2 lbs ■ Shipping Weight UT-100Si-TC: 2 lbs ■ Shipped Empty

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



Refill with Master Ultratane Butane  
for best performance. (page 28)

# Ultratorch® UT-200, & UT-200Si

Butane-powered soldering iron/heat tools

2.6 Hour Run Time



## UT-200

- Operates as a soldering iron, flameless heat tool and butane torch
- Standard with Utratip® soldering tip, hot air tip, shrink attachment and protective cap
- Equivalent to 200 watt max. electric soldering iron
- Adjustable temperatures up to 2372°F/1260°C
- High power (BTU's) makes it perfect for heavy-duty service and maintenance
- Sturdy metal tank holds enough fuel for 2.6 hours of operation at middle temperature setting
- Refill with Master Ultratane Butane for best performance. (page 28)
- Use to pinpoint heat, heat shrink tubing, solder and desolder, strip insulation, terminate specialty connectors, torch materials and more
- Optional accessories interchangeable between UT-200, UT-200Si and UT-300Si models

2.6 Hour Run Time



## UT-200Si

- Operates as a soldering iron and flameless heat tool
- Self-ignition with push button for fast, easy starting
- Standard with Utratip® soldering tip, hot air tip, shrink attachment, spanner wrenches and protective cap
- Equivalent to 200 watt max. electric soldering iron
- Adjustable temperatures up to 1004°F/540°C
- High power (BTU's) makes it perfect for heavy-duty service and maintenance
- Sturdy metal tank holds enough fuel for 2.6 hours of operation at middle temperature setting
- Refill with Master Ultratane Butane for best performance. (page 28)
- Use to pinpoint heat, heat shrink tubing, solder and desolder, strip insulation, terminate specialty connectors, torch materials and more
- Optional accessories interchangeable between UT-200, UT-200Si and UT-300Si models



| MODEL NO. | DESCRIPTION                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------|
| UT-200    | Butane-powered soldering iron, heat tool and torch with soldering tip, hot air tip, shrink attachment and protective cap      |
| UT-200A   | Butane-powered soldering tool with jumbo tip                                                                                  |
| UT-200Si  | Self-igniting, butane-powered soldering iron/heat tool, with soldering tip, hot air tip, shrink attachment and protective cap |

See page 23 for more accessories

Refill with Master Ultratane Butane for best performance. (page 28)

### Specifications

- Approx. Soldering Tip Temp.: 482° F to 986° F (250° C to 530° C)
- Approx. Hot Air Tip Temp.: 1004° F (540° C)
- Approx Torch Temp UT-200 2372°F (1260°C)
- Fuel Tank Capacity: 2.2 fl. oz. (63 cc)
- Dimensions: 11.9" L (300 mm)
- Net Weight: 9 oz. (186 g)
- Shipping Weight: 1 lb.
- Shipped Empty

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



Solder



Desolder



Torch  
(UT-200 only)



Flameless Heat

# Ultratorch® 300Si

## Butane-powered pistol grip soldering iron and flameless heat tool



- Operates as a soldering iron or flameless heat tool
- Standard with Ultratip® soldering tip, hot air tip, shrink attachment and protective cap
- Convenient slide switch ignition system for quick ignition
- Pistol grip design, great for extended use applications
- High performance soldering tip can reach approx. 932°F/500°C
- Built-in window indicates fuel level
- High capacity, can run up to 3 hours on a full tank
- Use to pinpoint heat, heat shrink tubing, solder and desolder, strip insulation, terminate specialty connectors and more
- Optional accessories interchangeable between UT-200, UT-200Si and UT-300Si models

| MODEL NO. | DESCRIPTION                                           |
|-----------|-------------------------------------------------------|
| UT-300Si  | Butane-powered soldering iron and flameless heat tool |

### Specifications

- Approx. Soldering Tip Temp.: 932° F (500° C) ■ Approx. Hot Air Tip Temp.: 1112° F (600° C) ■ Equivalent to Electric Iron: 200 Watt max.
- Approx. Operating Time: 180 min. ■ Fuel Tank Capacity: 2.7 fl. oz. (80cc) ■ Dimensions: 7.3" H x 6.8" L (186 mm H x 172 mm W)
- Net Weight: 9.9 oz. (352 g) ■ Shipping Weight: 1 lb. ■ Shipped Empty

Refill with Master Ultratane Butane for best performance. (page 28)

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

## Ultratorch® UT-200, UT-200Si & UT-300Si Tips and Accessories

### For use with UT-200, UT-200Si & UT-300Si Ultratorches

- Oxygen-free, copper based Ultratip® soldering tips have thick iron and chrome plating for long life and high thermal conductivity
- Ultratips are manufactured using a patented process which produces a uniform iron and chrome plating thickness
- Ultratip® soldering tips feature leading-edge combustion chamber/exhaust port design
- All tips are pre-tinned with lead-free solder
- Optional accessories interchangeable between UT-200, UT-200Si and UT-300Si models

| PART NO.              | DESCRIPTION                                              |
|-----------------------|----------------------------------------------------------|
| <b>SOLDERING TIPS</b> |                                                          |
| 72-01-01              | 3mm dia. tapered needle soldering tip                    |
| 72-01-02              | 10mm dia. chisel soldering tip (std. UT-200, UT-200Si)   |
| 72-01-03              | 4mm dia. spade soldering tip                             |
| 72-01-05              | 1mm dia. tapered needle soldering tip                    |
| 72-01-06              | 4mm dia. micro spade soldering tip                       |
| 72-01-07              | 1.5mm dia. tapered pyramid soldering tip                 |
| 72-01-11              | 7mm dia. chisel soldering tip (std. UT-300Si)            |
| 72-01-12              | 4mm dia. chisel soldering tip                            |
| 72-01-13              | 12.5mm dia. 45° spade soldering tip                      |
| <b>HOT AIR TIPS</b>   |                                                          |
| 72-01-51              | 5.6 O.D./3.6 I.D. (mm) hot air tip                       |
| 72-01-52              | 8.6 O.D./6.6 I.D. (mm) hot air tip (std. all models)     |
| 72-01-53              | 11.5 O.D./9.7 I.D. (mm) hot air tip                      |
| <b>ACCESSORIES</b>    |                                                          |
| 72-01-54              | Heat shrink attachment 32mm wide (std. UT-300Si)         |
| 72-01-55              | Heat shrink attachment 27mm wide (std. UT-200, UT-200Si) |
| 72-02                 | Protective cap (std. UT-200, UT-200Si)                   |
| 72-52U                | Carrying strap                                           |
| 80-35                 | Ejector spanner wrench (std. UT-200Si)                   |
| 80-40                 | Open end wrench (std. UT-200, UT-200Si)                  |
| 78-02                 | Protective cap (std. UT-300Si only)                      |
| <b>ADAPTER</b>        |                                                          |
| 72-01-14              | Adapter (5mm dia. x 8mm pitch) tip                       |

### Soldering Tips



72-01-01



72-01-02



72-01-03



72-01-05



72-01-06



72-01-07



72-01-11



72-01-12



72-01-13



72-01-14

### Hot Air Tips



72-01-51

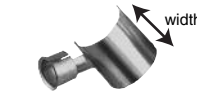


72-01-52



72-01-53

### Accessories



72-01-54 (32mm wide)  
72-01-55 (27mm wide)



72-02



72-52U



80-35



80-40



78-02

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

# Microtorch Model MT-5

Pocket-sized, self-igniting butane-powered microtorch



- Compact pocket size that fits easily into pocket or tool kit
- Quick starting self-igniting piezo electric ignition eliminates the need for lighters or matches
- Flame resists wind and moisture and is perfect for outdoor use
- Adjustable flame height for low and high temperatures up to 2500°F/1300°C blue flame
- Safety lock and attached safety cap prevent unintentional ignition
- Hands-free mode
- Refill with Master Ultratane Butane for best performance. (page 28)
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Use to heat and ignite materials, repair glass, shrink tubing, solder and desolder, terminate specialty connectors and more

| MODEL NO. | DESCRIPTION             |
|-----------|-------------------------|
| MT-5      | Pocket-sized Microtorch |

## Specifications

- Approx. Flame Temp. 2500° F ■ Fuel Tank: Plastic, Built-in, Refillable
- Approx. Run Time: 20 min. @ max. setting ■ Dimensions: 2.9" H x 1.3" W x .9" D ■ Net Weight: 1.7 oz. ■ Shipping Weight: 1 lb. ■ Shipped Empty

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

# Microtorch Models MT-11 & MT-11K

Compact palm-sized, self-igniting, butane-powered microtorch & kit



- Built-in self-igniting system with safety lock
- Temperatures up to 2500°F/1300°C
- Compact palm-sized, perfect for tool kits and field service kits
- Adjustable wind-resistant flame
- Replaceable, refillable "fuel cell" (included)
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Kit includes microtorch with empty fuel cell and 15/16 oz. can of butane packed in single shipper carton with proper D.O.T. markings
- Ships via ground transportation without hazmat charges
- Use to heat materials, ignite materials, pinpoint torch, shrink tubing, solder and desolder, terminate specialty connectors and more

| MODEL NO. | DESCRIPTION                                     |
|-----------|-------------------------------------------------|
| MT-11     | Palm-sized Microtorch, shipped without fuel     |
| MT-11K    | Microtorch with 15/16 oz. can of butane (10448) |
| RC-31     | Replacement fuel cell 2 pack (see page 28)      |

## Specifications

- Approx. Flame Temp.: 2500° F ■ Approx. Run Time: 20 min. @ max. setting ■ Fuel Tank: Refillable Fuel Cell ■ Dimensions: 4.3" H x 2.5" W x 1" D
- Net Weight: 2.1 oz. ■ Shipping Weight: 1 lb. ■ Shipping Weight Kit: 2 lbs.

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

# Microtorch Model MT-30

Low profile, table-top Microtorch with stable base

- Built-in self-igniting system with safety lock that ensures the switch is not turned on when not in use
- Wide, heavy, stable base is perfect for bench-top use
- Durable self-contained, refillable metal fuel tank
- 60 minute continuous run time with a full charge
- Adjustable broad or pinpoint flame
- Safety lock prevents unintentional ignition, locks for storage
- Refill with Master Ultratane Butane for best performance. (page 28)
- Use to heat materials, ignite materials, pinpoint torch, shrink tubing, solder and desolder, terminate specialty connectors and more

**NEW!**



CE



| MODEL NO. | DESCRIPTION                      |
|-----------|----------------------------------|
| MT-30     | Low profile table-top Microtorch |

## Specifications

• Approx. Flame Temp.: 2500° F • Approx. Run Time: 60 min. @ max. setting • Fuel Tank: Metal, Built-in, Refillable • Dimensions: 5.1" L x 3" W x 3.5" D • Net Weight: 12 oz. • Shipping Weight: 1 lb. ■ Shipped Empty

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

# Mini-Triggertorch Model MT-70 & MT-70P

Self-igniting butane-powered heat tool

- Gas adjustment wheel provides adjustable, long blue torch flame with temperatures up to 2,500°F/1300°C
- Self-igniting piezo electric ignition is easy to start and eliminates the need for lighter or matches
- Incorporates "trigger" switch with "pulldown" lock to meet Consumer Products Safety Commission (CPSC) Child Safety Requirements
- "Hands-free" slide lock for continuous use and instant off operation
- Ergonomic handle design ensures a non-slip grip
- Removable base for table-top or hand-held use
- 60 minute continuous run time with a full charge
- Durable self-contained, refillable plastic fuel tank
- Refill with Master Ultratane Butane for best performance (page 28)
- Unique shutter lever to easily extinguish ignition flame if using optional soldering or hot air tip attachments
- Use to heat parts, ignite materials, melt plastic, shrink tubing, solder & desolder, terminate specialty connectors and more

**NEW!**



| MODEL NO. | DESCRIPTION                                           |
|-----------|-------------------------------------------------------|
| MT-70     | Table-Top Mini-Triggertorch                           |
| MT-70P    | MT-70 Mini-Triggertorch & MT-11 Palm-sized Microtorch |

## Specifications

• Approx. Flame Temp.: 2500° F • Approx. Run Time: 60 min. @ max. setting • Fuel Tank: Plastic, Built-in, Refillable • MT-70 dimensions: 5.5" L x 3.8" H x 1.3" W • Net Weight: 6.4 oz. • Shipping Weight: 1 lb. ■ Shipped Empty • ■ MT-70P shipping weight 2 lbs.



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

# Microtorch Models MT-51, MT-51B & MT-51H

Hand-held or table-top butane-powered microtorch

**MT-51**



- Built-in self-igniting system with gas shut-off safety lock
- Durable self-contained, refillable plastic fuel tank
- Wide, stable base is perfect for hands-free use
- Temperature up to 2500°F/1300°C
- 2 hour continuous burn time, perfect for continuous heat applications
- Adjustable broad or pinpoint flame
- Refill with Master Ultratane Butane for best performance. (page 28)
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Use to heat materials, ignite materials, pinpoint torch, shrink tubing, solder and desolder, terminate specialty connectors and more



**MT-51B**

Included butane canister provides three fuel refills.



Butane 10448

MT-51B ships via ground transportation with no Hazmat charges

**MT-51H**

Includes Hot Air Tip & Heat Reflector for heat shrink applications.



Hot Air Tip 35387

Heat Reflector 35394



Heat Shrink

| MODEL NO. | DESCRIPTION                                                                                       |
|-----------|---------------------------------------------------------------------------------------------------|
| MT-51     | Microtorch, table-top                                                                             |
| MT-51B    | Microtorch, table-top with <sup>15</sup> / <sub>16</sub> oz. butane (10448)                       |
| MT-51H    | Microtorch, table-top includes hot air tip (35387) and 1" diameter heat shrink attachment (35394) |

## Specifications

- Approx. Flame Temp.: 2500° F
- Approx. Run Time: Two Hours
- Fuel Tank: Plastic, Built-in, Refillable
- Dimensions: 6.1" H x 3" W x 1.3" D
- Net Weight: 5 oz.
- Shipping Weight: 1 lb.
- Shipped Empty

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

# Triggertorch™ Models MT-76 & MT-76K

Professional quality, hand-held or table-top, butane-powered, self-igniting triggertorch, soldering iron and flameless heat tool

- Gas adjustment wheel provides adjustable, long blue torch flame with temperatures up to 2,500°F/1300°C
- MT-76 includes soldering tip and hot air tip for soldering up to 752°F/400°C and heating up to 932°F/500°C
- Self-igniting piezo electric ignition is easy to start and eliminates the need for lighter or matches
- Kit includes triggertorch, removable stand, 5" wire cutter, 5" needle nose pliers, soldering tip, hot air tip, shrink attachment, polyfoam cutter, hot knife tip, roll 60/40 solder, and stand with sponge packed in a durable plastic storage/carrying case
- Incorporates "trigger" switch with "pulldown" lock to meet Consumer Products Safety Commission (CPSC) Child Safety Requirements
- "Hands-free" slide lock for continuous use and instant off operation
- Unique shutter lever to easily extinguish ignition flame when using soldering or hot air tip attachments
- Ergonomic handle design ensures a non-slip grip
- Removable base for table-top or hand-held use
- 2 hour continuous run time with a full charge
- Durable self-contained, refillable plastic fuel tank
- Refill with Master Ultratane Butane for best performance (page 28)
- Use to heat parts, ignite materials, melt plastic, shrink tubing, solder & desolder, terminate specialty connectors and more



## MT-76K, 4 tools in 1

Open Flame Torch, Soldering Iron, Flameless Hot Air and Hot Knife



Solder



Flameless Hot Air



2 Hour Run Time



Solder Tip  
35386

Hot Air  
Tip

## MT-76, 3 tools in 1

Open Flame Torch, Soldering Iron and Flameless Hot Air

| MODEL NO. | DESCRIPTION                                                                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MT-76     | Triggertorch with table-top stand, soldering tip (35386) & hot air tip (35387)                                                                                                                                                                            |
| MT-76K    | Triggertorch with table-top stand, soldering tip (35386), hot air tip (35387), hot knife tip (35400), shrink attachment (35394), polyfoam cutter (35396), 5" wire cutter, 5" needle nose pliers, 60/40 solder and sponge packed in a durable plastic case |

### Specifications

- Approx. Flame Temp.: 2500° F • Approx. Run Time: Two Hours • Fuel Tank: Plastic, Built-in, Refillable • Dimensions: 6.5"H x 3.8"W x 1.3"D • MT-76 Weight: 7.6 oz. • Shipping Weight: 1 lb. • Shipping Weight Kit: 3 lbs. • Shipped Empty

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

# General Industrial Torch Model GT-70

Hand-held or table-top, butane powered, heavy-duty, general industrial torch



- Self-igniting piezo electric ignition is easy to start and eliminates need for lighter
- Durable self-contained, refillable metal fuel tank
- 30 minute continuous run time with a full charge
- Large sized adjustable blue flame accommodates heavy-duty industrial applications with temperatures up to 2500°F/1300°C
- Safety lock prevents unintentional ignition, locks for storage
- Refill with Master Ultratane Butane for best performance
- Meets Consumer Products Safety Commission (CPSC) Child Safety Requirements
- Use to braze with special alloy welding rods, heat and bend thin metals, loosen rusted bolts, pop dents out of metal, shrink and terminate heavy wall adhesive-lined tubing, solder and desolder and more

| MODEL NO. | DESCRIPTION              |
|-----------|--------------------------|
| GT-70     | General Industrial Torch |

## Specifications

- Approx. Flame Temp.: 2500° F
- Approx. Run Time: 30 Min.
- Fuel Tank: Metal, Built-in, Refillable
- Dimensions: 6.5" H x 5" W x 1.8" D
- Net Weight: 10.6 oz.
- Shipping Weight: 1 lb.
- Shipped Empty

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

# Ultratane® Butane

For use with all Master butane-powered products



**51773**  
5 1/8 OZ.



**10448**  
1 5/16 OZ.



**RC-31**

- Recommended fuel for all Master butane-powered products
- Triple-refined formula reduces clogging of filters
- Special vapor pressure promotes consistent ignition
- Contains no CFC's
- Available in two aerosol canister sizes: 5 1/8 oz. (145 gm) and 1 5/16 oz. (26.5 gm) and refillable RC-31 fuel cells
- Model 10448 has proper D.O.T. markings to ship via ground transportation without hazardous material charges
- Model 51773 ships via ground transportation with hazardous material charges

| MODEL NO. | DESCRIPTION                                              |
|-----------|----------------------------------------------------------|
| 51773     | 5 1/8 oz. (145 gram) canister with universal tip adapter |
| 10448     | 1 5/16 oz. (26 gram) canister with universal tip adapter |
| RC-31     | Refillable butane fuel cell. Carded 2 per card           |

## RC-31 Fuel Cell (for use with MT-11)

- RC-31 has proper D.O.T. markings to ship via ground transportation without hazardous material charges
- RC-31 is not considered a cigarette lighter
- RC-31 is a refillable fuel cell to replace pre-childproof lighters
- Refillable with Master Ultratane® Butane 51773 and 10448

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

# PortaPro® Glue Gun

Cordless, butane-powered hotmelt glue gun

- Completely portable, lets you work almost anywhere
- Industrial power and durability
- One touch, fast piezo ignition
- Reaches operating temperature in less than 4 minutes
- 140 minutes continuous run time with a full charge
- Fuel view window indicates fuel level
- Refill with Master Ultratane Butane for best performance. (page 28)
- Built-in fold away stand
- Unlimited versatility
- Use to bond corrugated materials, chipboard and wood, fasten plastics, light metals, textiles, shock absorbent packaging, capacitors, resistors, soldered parts, electrical potting/staking parts on PC boards and jumper wires, reseal products during packaging, and glue down carpeting

| MODEL NO. | DESCRIPTION           |
|-----------|-----------------------|
| GG-100    | PortaPro Glue Gun     |
| GG-100K   | PortaPro Glue Gun Kit |

## Accessories

| PART NO. | DESCRIPTION                                              |
|----------|----------------------------------------------------------|
| 35408    | Standard general purpose tip                             |
| 35409    | Needle extension tip                                     |
| 35410    | Diagonal cut extension tip                               |
| 35411    | Spreader extension tip                                   |
| 35412    | 12 General purpose glue sticks 12" long x 1/2" dia.      |
| 35413    | 12 Carton closing glue sticks 12" long x 1/2" dia.       |
| 35414    | 12 Woodworking glue sticks 12" long x 1/2" dia.          |
| 35454    | 20 lbs. General purpose glue sticks (approx. 290 sticks) |
| 35455    | 20 lbs. Carton closing glue sticks (approx. 290 sticks)  |
| 35456    | 20 lbs. Woodworking glue sticks (approx. 290 sticks)     |

Contact Master Appliance for glue stick specifications



Continuous use operating times up to 140 minutes



Cordless operation is fast and convenient



## GG-100 PortaPro Glue Gun

Includes glue gun, general purpose tip (35408) and four general purpose 6" glue sticks



## GG-100K PortaPro Glue Gun Kit

includes: glue gun, 4 tips, 8 general purpose 6" long glue sticks & manual packed in a rugged storage case. Case has slot to hold Master Butane (51773 not included)

## Specifications

- Operating Temp: Approx. 392°F/200°C
- Ramp Up Time: 3-4 minutes
- Recommended Glue Stick: 1/2"
- Glue Melt Rate: up to 1.9 lbs. per hour
- Ave. Run Time: Approx. 140 minutes (full tank)
- Fuel Capacity: 20 ml.
- Dimensions: 8.4" L x 2.1" W x 8.0" H
- Tool Net Weight: 14.8 oz. w/o fuel
- Shipping Weight Tool: 1.8 lbs.
- Shipping Weight Kit: 3 lbs.
- Shipped Empty



35408 Standard General Purpose Tip  
Dia. 4.47mm O.D.



35409 Needle Extension Tip  
7.8mm long  
Dia. 3.2mm O.D.



35410 Diagonal Cut Extension Tip  
8.4mm long x 45°  
Dia. 4.74mm O.D.



35411 Spreader Extension Tip  
7.6mm(L) x 6.6mm(W)  
0.50mm I.D. slot

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

# MicroPro® AC MP-100 standby Soldering Iron

## Personal electric soldering iron

- Compact, lightweight, easy-to-use
- Fingertip grip, just two inches from target, is ideal for precise work
- Standby temperature mode reduces tip temperature during pauses between soldering jobs for faster warm-up to full solder temperatures
- Standby mode significantly extends tip life, (standby temp: 290°F/140°C, soldering temp: 1004°F (540°C))
- Heating element is located in the solder tip for outstanding heat transfer, heat up and recovery times - 14 watts maximum power
- Green/red LED indicators for standby and operating modes
- Perfect for use with today's lead-free solder
- Perfect personal soldering tool for R&D, electronic engineers and repair technicians

| MODEL NO. | DESCRIPTION                                 |
|-----------|---------------------------------------------|
| MP-100    | Micropro AC electric standby soldering iron |

### Optional Accessories

| PART NO. | DESCRIPTION              | PART NO. | DESCRIPTION            |
|----------|--------------------------|----------|------------------------|
| 35430    | .25mm conical tip        | 35436    | Hot knife tip          |
| 35431    | .50mm conical tip (std.) | 35438    | AC/DC power adapter    |
| 35432    | 1.6mm chisel tip         | 35439    | Adapter cord           |
| 35433    | 2.4mm chisel tip         | 35440    | Protective cap         |
| 35434    | 1.0mm bevel tip          | 35441    | Stand/tip removal tool |
| 35435    | 2.0mm bevel tip          |          |                        |



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

### Specifications

■ Approx. Tip Life: 30,000 cycles (joints) ■ Heater Type: iron-plated anti-corrosion ■ Solder tool dimensions: (with tip) 6.5" L x .52" W (165mm L x 13.20 mm W), ■ Adapter dimensions: 3" x 1.9" x .13" (75mm L x 48mm W x 35mm D) ■ Tool Weight: 1.1 oz. (30 grams) ■ Adapter Weight: 2.7 oz. (76.5 grams) ■ Shipping Weight: 1 lb. (454 grams)

# MicroPro® BT-30 Battery Powered Soldering Iron

## Lightweight, compact, completely portable soldering iron

- Standard tool includes 2 Ultratip® soldering tips (1-.5mm conical tip and 1-1.5mm chisel tip), tip removal wrench, and 3 AA Alkaline batteries
- Lightweight and completely portable, equivalent to a 6W electric iron
- Solders approximately 60 minutes continuous duty
- Solders up to 160 joints intermittently with new batteries
- Fast start-up, reaches 361° F (183° C) in 10 seconds
- Total of 8 tips available (2 standard)
- Top quality, plug-in solder tips incorporate built-in heater (patent pending)
- Use to solder and desolder micro sized to small sized parts, perfect for field service and repair work

| MODEL NO. | DESCRIPTION                                       |
|-----------|---------------------------------------------------|
| BT-30     | Micropro battery-powered, portable soldering iron |

### Optional Accessories

| PART NO. | DESCRIPTION             | PART NO. | DESCRIPTION                              |
|----------|-------------------------|----------|------------------------------------------|
| 35364    | .5mm conical tip (std.) | 35366    | 1.0mm chisel tip                         |
| 35367    | 1mm conical tip         | 35372    | 1.5 chisel tip (standard)                |
| 35370    | 1.5mm conical tip       | 35373    | Tip remover                              |
| 35365    | .8mm spade tip          | 35374    | Protective cap                           |
| 35368    | 1.3mm spade tip         | 35375    | 1.5V AA Alkaline batteries, package of 4 |
| 35371    | 1.8mm spade tip         |          |                                          |

### Specifications

■ Approx. Solder Tip Temp.: 6W (max) 932° F (500° C) ■ Max. Solder Tip Temp.: 1040° F (560° C) ■ Approx. Tip Life: 30,000 cycles (joints) ■ Time to Reach Operating Temp.: 361° F in 10 Sec. (183° C in 10 Sec.) ■ Approx. Temp. Drop When Touching Object: 212° F (100° C) ■ Heater Type: Built-in, plug-in mounting, iron-plated anti-corrosion ■ Approx. Run Time: 60 Min. Continuous w/New Batteries ■ Approx. No. of Solder Joints, Intermittently: 160 using New Batteries ■ Batteries: 3-1.5V Alkaline, AA ■ Dimensions: 6.8" L x 1.4" W x .8" D (173mm L x 35.5mm W x 20mm D) ■ Net Weight: 3.8 oz. w/Batteries (105 grams w/Batteries) ■ Shipping Weight: 1 lb.



Conical Tip



35364  
35367  
35370

Spade Tip



35365  
35368  
35371

Chisel Tip



35366  
35372



35373



35374



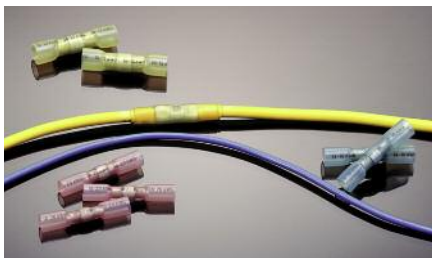
35375

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

# Sealed Electrical Systems

Environmentally sealed connections create permanent repairs

- Heavy Duty Trucking
- Marine & RV
- Plant Maintenance Departments
- OEM & Automotive Aftermarket
- Heavy Duty Equipment
- Oil Fields & Mining
- Municipalities & Military Bases

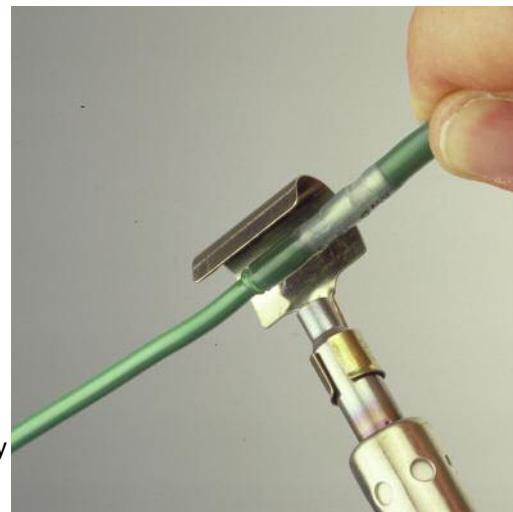


The past decade has seen the advent of sweeping technological advances in the automotive, fleet, and marine industries. Many of these advances involve improved electrical systems, controlled by miniature onboard computers. Consequently, small variations in voltage can significantly affect vehicle performance.

To combat these problems and increase longevity, the major manufacturers in these industries are using completely sealed electrical systems.

Unfortunately, the repair and maintenance industry is lagging behind. The integrity of sealed electrical harnesses is often breached when repairs are made with inferior, unsealed electrical connectors. Master Appliance has the solution.

The heat shrink connector is the innovative solution that allows the aftermarket to keep pace with changing technology. Each repair made with a heat shrink connector is individually protected from corrosion, contaminant's and current leakage. This ensures that the original integrity of the wiring harness is maintained.



## Sealed Electrical Systems

**Seal Your Connectors!**  
**Make Permanent Repairs!**

Resist water & condensation  
Resist salt & other contaminant's  
Resist wire pull out & current leakage

Master Appliance high quality adhesive-lined Heat-Seal Electrical Connectors are available in three styles:

### **Multiseal™**

Crimp, solder & heat-seal connectors

### **Solderseal™**

Solder & heat-seal connectors

### **Proseal™**

Crimp and heat-seal connectors

# Multiseal™ Electrical Connector Kits

## High quality crimp, solder & heat-seal connectors

- Crimped for mechanical reliability; soldered for strength and conductivity, and heat sealed for superior durability
- Prevents opening of connector barrel for stronger crimp
- Low temperature pre-measured solder with flux for greater tensile strength and superior current flow
- Uniform adhesive flow does not overflow onto terminal to impede contact
- Heat shrink tubing does not reduce in length creating better insulation along with superior wire support and strain relief
- Translucent, adhesive-lined polyolefin shrink tubing – Allows visual inspection, prevents wire corrosion, and provides a water and contaminant resistant seal
- Color-coded tubing with wire gauge imprint – Provides easy identification of the correct part for the job
- Superior integrity of electrical systems – Sealed electrical systems ensure the original integrity of wire connections and wiring harnesses and conforms with OEM standards. **103 lbs tensile strength**

### 10058 - Multiseal Butt Splice Connector Minipak

| Butt Connectors | Description                       | Qty |
|-----------------|-----------------------------------|-----|
|                 | 18-20 AWG, Butt Connector, Red    | 20  |
|                 | 14-16 AWG, Butt Connector, Blue   | 20  |
|                 | 10-12 AWG, Butt Connector, Yellow | 10  |

**3 items & 50 pieces**

### 10067 Multiseal Connector Kit

| Ring Terminals     | Description                                 | Qty |
|--------------------|---------------------------------------------|-----|
|                    | 18-20 AWG, Ring Terminal, #6 Stud, Red      | 5   |
|                    | 18-20 AWG, Ring Terminal, #10 Stud, Red     | 5   |
|                    | 14-16 AWG, Ring Terminal, #10 Stud, Blue    | 5   |
|                    | 14-16 AWG, Ring Terminal, 1/4" Stud, Blue   | 5   |
|                    | 14-16 AWG, Ring Terminal, 3/8" Stud, Blue   | 5   |
|                    | 10-12 AWG, Ring Terminal, #10" Stud, Yellow | 5   |
|                    | 10-12 AWG, Ring Terminal, 1/4" Stud, Yellow | 5   |
|                    | 10-12 AWG, Ring Terminal, 3/8" Stud, Yellow | 5   |
|                    | 10-12 AWG, Ring Terminal, 1/2" Stud, Yellow | 5   |
| Spade Terminals    |                                             |     |
|                    | 18-20 AWG, Spade Terminal, #10, Red         | 5   |
|                    | 14-16 AWG, Spade Terminal, #10, Blue        | 5   |
|                    | 10-12 AWG, Spade Terminal, #10, Yellow      | 5   |
| Butt Connectors    |                                             |     |
|                    | 22-24 AWG, Butt Connector, Clear            | 5   |
|                    | 18-20 AWG, Butt Connector, Red              | 10  |
|                    | 14-16 AWG, Butt Connector, Blue             | 15  |
|                    | 10-12 AWG, Butt Connector, Yellow           | 10  |
| Insulated Couplers |                                             |     |
|                    | 18-20 AWG, Female Coupler, 1/4 Tab, Red     | 5   |
|                    | 14-16 AWG, Female Coupler, 1/4 Tab, Blue    | 5   |
|                    | 18-20 AWG, Male Coupler, 1/4" Tab, Red      | 5   |
|                    | 14-16 AWG, Male Coupler, 1/4" Tab, Blue     | 5   |

**20 items and 120 pieces**

### 10066 - Multiseal Connector Kit with Tool Slot

### 10068 - Multiseal Connector Kit with UT-100Si & Crimper

| Ring Terminals     | Description                                | Qty |
|--------------------|--------------------------------------------|-----|
|                    | 18-22 AWG, Ring Terminal, #10 Stud, Red    | 5   |
|                    | 14-16 AWG, Ring Terminal, #8 Stud, Blue    | 5   |
|                    | 14-16 AWG, Ring Terminal, #10 Stud, Blue   | 5   |
|                    | 14-16 AWG, Ring Terminal, 1/4" Stud, Blue  | 5   |
|                    | 14-16 AWG, Ring Terminal, 3/8" Stud, Blue  | 5   |
|                    | 10-12 AWG, Ring Terminal, #10 Stud, Yellow | 5   |
| Butt Connectors    |                                            |     |
|                    | 18-22 AWG, Butt Connector, Red             | 10  |
|                    | 14-16 AWG, Butt Connector, Blue            | 10  |
|                    | 10-12 AWG, Butt Connector, Yellow          | 10  |
|                    | 10-12 AWG, Butt Connector, Yellow          | 10  |
| Insulated Couplers |                                            |     |
|                    | 18-20 AWG, Female Coupler, 1/4 Tab, Red    | 5   |
|                    | 14-16 AWG, Female Coupler, 1/4 Tab, Blue   | 5   |
|                    | 18-20 AWG, Male Coupler, 1/4" Tab, Red     | 5   |
|                    | 14-16 AWG, Male Coupler, 1/4" Tab, Blue    | 5   |

**14 items and 90 pieces**

10058



10067



10066



10068



Crimp barrel inside



Solder preform inside



1. Strip wires 3/8" and insert into crimp barrel of the connector

2. Crimp the wires in crimp barrel.

3. Apply heat to the connector until solder and adhesive flows and tubing recovers. Allow the connector to cool.

## Crimp

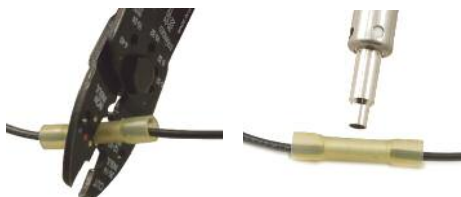
Mechanical reliability holds wires in place

## Solder

Ultimate tensile strength • Superior conductivity

## Seal

Durable insulation • Watertight connection



Temperature rating: -67°F to 230°F  
-55°C to 110°C  
Longitudinal change: +1, -10%  
Recovery temperature: 275°F/135°C  
Dielectric strength: 900 Volts/Mil.  
UL Voltage Rating: 600 Volts  
Corrosion resistance: Non-corrosive  
Fungus Resistance: Non-nutrient  
Water absorption: <0.1%

# Solderseal™ Electrical Connector Kits

High quality solder & heat-seal connectors

- High quality, sealed solder connection that takes the guess-work out of soldering water tight connections
  - Low temperature pre-measured solder with flux for greater tensile strength and superior current flow
  - Uniform adhesive flow does not overflow onto terminal to impede contact
  - Heat shrink tubing does not reduce in length creating better insulation along with wire superior support and strain relief
  - Translucent, adhesive-lined polyolefin shrink tubing – Allows visual inspection, prevents wire corrosion, and provides a water and contaminant resistant seal
  - Ensures the original integrity of wire connections and wiring harnesses and conforms with OEM standards
- 102 lbs tensile strength**

## 10056 - Solderseal Butt Splice Connector Minipak

| Butt Connectors | Description                       | Qty |
|-----------------|-----------------------------------|-----|
|                 | 22-24 AWG, Butt Connector, Red    | 10  |
|                 | 18-20 AWG, Butt Connector, Red    | 15  |
|                 | 14-16 AWG, Butt Connector, Blue   | 15  |
|                 | 10-12 AWG, Butt Connector, Yellow | 15  |

**4 items & 55 pieces**



10056



10724



10729

## 10724 - Solderseal Connector Kit

| Ring Terminals     | Description                                       | Qty |
|--------------------|---------------------------------------------------|-----|
|                    | 18-20 AWG, Ring Terminal, Red, #6 Stud            | 5   |
|                    | 18-20 AWG, Ring Terminal, Red, #8                 | 5   |
|                    | 18-20 AWG, Ring Terminal, Red, #10                | 5   |
|                    | 18-20 AWG, Ring Terminal, Red, 1/4"               | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, #8                | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, #10               | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, 1/4"              | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, 3/8" Stud         | 5   |
|                    | 10-12 AWG, Ring Terminal, Yellow, #10 Stud        | 5   |
|                    | 10-12 AWG, Ring Terminal, Yellow, 1/4" Stud       | 5   |
|                    | 10-12 AWG, Ring Terminal, Yellow, 3/8" Stud       | 5   |
|                    | 10-12 AWG, Ring Terminal, Yellow, 1/2" Stud       | 5   |
| Spade Terminals    | Description                                       | Qty |
|                    | 18-20 AWG, Spade Terminal, Red, #10               | 5   |
|                    | 14-16 AWG, Spade Terminal, Blue, #10 Stud         | 5   |
|                    | 10-12 AWG, Spade Terminal, Yellow, #10 Stud       | 5   |
| Butt Connectors    | Description                                       | Qty |
|                    | 22-24 AWG, Butt Connector, Clear                  | 5   |
|                    | 18-20 AWG, Butt Connector, Red                    | 10  |
|                    | 14-16 AWG, Butt Connector, Blue                   | 10  |
|                    | 10-12 AWG, Butt Connector, Yellow                 | 5   |
| Insulated Couplers | Description                                       | Qty |
|                    | 18-20 AWG, Slip-On Connector, Red, .250 Female    | 5   |
|                    | 18-20 AWG, Slip-On Connector, Red, .250 Male      | 5   |
|                    | 14-16 AWG, Slip-On Connector, Blue, .250 Female   | 5   |
|                    | 14-16 AWG, Slip-On Connector, Blue, .250 Male     | 5   |
|                    | 10-12 AWG, Slip-On Connector, Yellow, .250 Female | 5   |
|                    | 10-12 AWG, Slip-On Connector, Yellow, .250 Male   | 5   |

**25 items and 135 pieces**

## 10729 - Solderseal Connector Kit with Tool Slot

## 10725 - Solderseal Connector Kit with UT-100Si

| Ring Terminals     | Description                                     | Qty |
|--------------------|-------------------------------------------------|-----|
|                    | 18-20 AWG, Ring Terminal, Red, #10              | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, #10             | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, 1/4"            | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, 3/8" Stud       | 5   |
|                    | 10-12 AWG, Ring Terminal, Yellow, #10 Stud      | 5   |
|                    | 10-12 AWG, Ring Terminal, Yellow, 3/8" Stud     | 5   |
| Butt Connectors    | Description                                     | Qty |
|                    | 22-24 AWG, Butt Connector, Clear                | 10  |
|                    | 18-20 AWG, Butt Connector, Red                  | 10  |
|                    | 14-16 AWG, Butt Connector, Blue                 | 10  |
|                    | 10-12 AWG, Butt Connector, Yellow               | 10  |
| Insulated Couplers | Description                                     | Qty |
|                    | 14-16 AWG, Slip-On Connector, Blue, .250 Female | 5   |
|                    | 14-16 AWG, Slip-On Connector, Blue, .250 Male   | 5   |

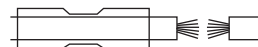
**12 items and 80 pieces**



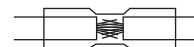
Solder preform inside



10725



1. Strip wires 3/8" and slide the connector over one of the wires. Separate the wire strands.



2. Intermingle the wire strands and slide the connector over the joined wires.



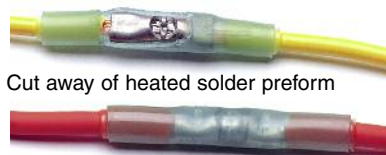
3. Apply heat to the connector until solder and adhesive flows and tubing recovers. Allow the connector to cool.

## Solder

Ultimate tensile strength • Superior conductivity

## Seal

Durable insulation • Watertight connection



Cut away of heated solder preform

|                       |                                  |
|-----------------------|----------------------------------|
| Temperature rating:   | -67°F to 230°F<br>-55°C to 110°C |
| Longitudinal change:  | +1, -10%                         |
| Recovery temperature: | 275°F/135°C                      |
| Dialectic strength:   | 500 Volts/Mil.                   |
| UL Voltage Rating:    | 600 Volts                        |
| Corrosion resistance: | Non-corrosive                    |
| Fungus Resistance:    | Non-nutrient                     |
| Water absorption:     | <0.1%                            |

# Proseal™ Electrical Connector Kits

## High quality crimp & heat-seal connectors

- The finest "Crimp & Heat-Seal" connector on the market today. Better wire contact - Less voltage drop - Better current flow
- Seamless butt connectors & brazed seam rings and spades – Prevents opening of connector barrel for stronger crimp
- Uniform adhesive flow does not overflow onto terminal to impede contact
- Heat shrink tubing does not reduce in length, creating better insulation along with superior wire support and strain relief
- Translucent, adhesive-lined polyolefin shrink tubing – Allows visual inspection, prevents wire corrosion and provides a water and contaminant resistant seal
- Color-coded tubing with wire gauge imprint – Provides easy identification of the correct part for the job
- Superior integrity of electrical systems – Sealed electrical systems ensure the original integrity of wire connections and wiring harnesses and conforms with OEM standards. **89 lbs tensile strength**



10054



10600



10723

### 10054 - Proseal Butt Splice Connector Minipak

| Butt Connectors | Description                       | Qty |
|-----------------|-----------------------------------|-----|
|                 | 18-20 AWG, Butt Connector, Red    | 20  |
|                 | 14-16 AWG, Butt Connector, Blue   | 20  |
|                 | 10-12 AWG, Butt Connector, Yellow | 5   |

**3 items & 45 pieces**

### 10600 Assortment Proseal Connector Kit

| Ring Terminals     | Description                                 | Qty |
|--------------------|---------------------------------------------|-----|
|                    | 18-20 AWG, Ring Terminal, #6 Stud, Red      | 5   |
|                    | 18-22 AWG, Ring Terminal, #10 Stud, Red     | 5   |
|                    | 14-16 AWG, Ring Terminal, #8 Stud, Blue     | 5   |
|                    | 14-16 AWG, Ring Terminal, #10 Stud, Blue    | 5   |
|                    | 14-16 AWG, Ring Terminal, 1/4" Stud, Blue   | 5   |
|                    | 14-16 AWG, Ring Terminal, 3/8" Stud, Blue   | 5   |
|                    | 10-12 AWG, Ring Terminal, #8 Stud, Yellow   | 5   |
|                    | 10-12 AWG, Ring Terminal, #10 Stud, Yellow  | 5   |
|                    | 10-12 AWG, Ring Terminal, 1/4" Stud, Yellow | 5   |
|                    | 10-12 AWG, Ring Terminal, 3/8" Stud, Yellow | 5   |
| Spade Terminals    | Description                                 | Qty |
|                    | 18-20 AWG, Spade Terminal, #10, Red         | 5   |
|                    | 14-16 AWG, Spade Terminal, #10, Blue        | 5   |
|                    | 10-12 AWG, Spade Terminal, #10, Yellow      | 5   |
| Butt Connectors    | Description                                 | Qty |
|                    | 18-22 AWG, Butt Connector, Red              | 10  |
|                    | 14-16 AWG, Butt Connector, Blue             | 10  |
|                    | 10-12 AWG, Butt Connector, Yellow           | 10  |
| Insulated Couplers | Description                                 | Qty |
|                    | 18-20 AWG, Female Coupler, 1/4 Tab, Red     | 5   |
|                    | 14-16 AWG, Female Coupler, 1/4 Tab, Blue    | 5   |
|                    | 18-20 AWG, Male Coupler, 1/4" Tab, Red      | 5   |
|                    | 14-16 AWG, Male Coupler, 1/4" Tab, Blue     | 5   |

**20 items and 115 pieces**



Crimp barrel inside



10719



1. Strip wires 1/4" and insert into crimp barrel of connector.

2. Crimp the wires in crimp barrel.

3. Apply heat until tubing recovers and adhesive melts and flows.

### 10723 - Proseal Connector Kit with Tool Slot

### 10719 - Proseal Connector Kit with UT-100Si & Crimper

| Ring Terminals     | Description                                     | Qty |
|--------------------|-------------------------------------------------|-----|
|                    | 18-20 AWG, Ring Terminal, Red, #10              | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, #8              | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, #10             | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, 1/4" Stud       | 5   |
|                    | 14-16 AWG, Ring Terminal, Blue, 3/8" Stud       | 5   |
|                    | 10-12 AWG, Ring Terminal, Yellow, #10 Stud      | 5   |
|                    | 10-12 AWG, Ring Terminal, Yellow, 3/8" Stud     | 5   |
| Butt Connectors    | Description                                     | Qty |
|                    | 18-20 AWG, Butt Connector, Red                  | 10  |
|                    | 14-16 AWG, Butt Connector, Blue                 | 10  |
|                    | 10-12 AWG, Butt Connector, Yellow               | 10  |
| Insulated Couplers | Description                                     | Qty |
|                    | 14-16 AWG, Slip-On Connector, Blue, .250 Female | 5   |
|                    | 14-16 AWG, Slip-On Connector, Blue, .250 Male   | 5   |

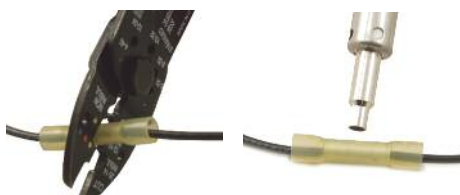
**12 items and 75 pieces**

## Crimp

Mechanical reliability • Holds wires in place

## Seal

Durable insulation • Watertight connection



|                       |                                  |
|-----------------------|----------------------------------|
| Temperature rating:   | -67°F to 230°F<br>-55°C to 110°C |
| Longitudinal change:  | +1, -10%                         |
| Recovery temperature: | 275°F/135°C                      |
| Dialectic strength:   | 900 Volts/Mil.                   |
| UL Voltage Rating:    | 600 Volts                        |
| Water absorption:     | <0.1%                            |
| Corrosion resistance: | Non-corrosive                    |
| Fungus Resistance:    | Non-nutrient                     |
| Water absorption:     | <0.1%                            |

# Heat-Shrink Tubing Kits

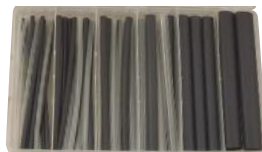
High quality heat-shrink tubing

## Dual wall flexible heat-shrink tubing with adhesive lining

- Polyolefin, 3 to 1 shrink ratio
- Highly flexible for conforming to irregular shapes
- Self-extinguishing UL224 (except clear)
- Internal layer of thermo-plastic adhesive provides a barrier against contaminant's



10063



10065



10064

### 10063 Flexible Adhesive-Lined Shrink Tubing Minipak

| Flexible Shrink Tubing | Description                            | Qty |
|------------------------|----------------------------------------|-----|
|                        | 1/8" pre-shrink I.D., 6" length, Black | 5   |
|                        | 1/4" pre-shrink I.D., 6" length, Black | 5   |
|                        | 3/8" pre-shrink I.D., 6" length, Black | 5   |
|                        | 1/2" pre-shrink I.D., 6" length, Black | 4   |
|                        | 3/4" pre-shrink I.D., 6" length, Black | 3   |
|                        | 1" pre-shrink I.D., 6" length, Black   | 2   |

**6 items and 24 pieces**

### 10064 Flexible Adhesive-Lined Shrink Tubing Kit

| Flexible Shrink Tubing | Description                             | Qty |
|------------------------|-----------------------------------------|-----|
|                        | 1/8" pre-shrink I.D., 6" length, Black  | 5   |
|                        | 1/8" pre-shrink I.D., 6" length, Clear  | 3   |
|                        | 3/16" pre-shrink I.D., 6" length, Red   | 3   |
|                        | 3/16" pre-shrink I.D., 6" length, Black | 5   |
|                        | 3/16" pre-shrink I.D., 6" length, Clear | 2   |
|                        | 3/16" pre-shrink I.D., 6" length, Red   | 2   |
|                        | 1/4" pre-shrink I.D., 6" length, Black  | 5   |
|                        | 1/4" pre-shrink I.D., 6" length, Clear  | 2   |
|                        | 1/4" pre-shrink I.D., 6" length, Red    | 2   |
|                        | 3/8" pre-shrink I.D., 6" length, Black  | 5   |
|                        | 3/8" pre-shrink I.D., 6" length, Clear  | 2   |
|                        | 3/8" pre-shrink I.D., 6" length, Red    | 2   |
|                        | 1/2" pre-shrink I.D., 6" length, Black  | 3   |
|                        | 1/2" pre-shrink I.D., 6" length, Clear  | 2   |
|                        | 1/2" pre-shrink I.D., 6" length, Red    | 2   |
|                        | 3/4" pre-shrink I.D., 6" length, Black  | 1   |
|                        | 3/4" pre-shrink I.D., 6" length, Clear  | 1   |
|                        | 3/4" pre-shrink I.D., 6" length, Red    | 1   |

**18 items and 48 pieces**

### 10065 Flexible Adhesive-Lined Shrink Tubing Kit

| Flexible Shrink Tubing | Description                             | Qty |
|------------------------|-----------------------------------------|-----|
|                        | 1/8" pre-shrink I.D., 6" length, Black  | 10  |
|                        | 1/8" pre-shrink I.D., 6" length, Clear  | 10  |
|                        | 3/16" pre-shrink I.D., 6" length, Black | 8   |
|                        | 3/16" pre-shrink I.D., 6" length, Clear | 8   |
|                        | 1/4" pre-shrink I.D., 6" length, Black  | 6   |
|                        | 1/4" pre-shrink I.D., 6" length, Clear  | 6   |
|                        | 3/8" pre-shrink I.D., 6" length, Black  | 4   |
|                        | 3/8" pre-shrink I.D., 6" length, Clear  | 4   |
|                        | 1/2" pre-shrink I.D., 6" length, Black  | 3   |
|                        | 1/2" pre-shrink I.D., 6" length, Clear  | 3   |
|                        | 3/4" pre-shrink I.D., 6" length, Black  | 2   |
|                        | 3/4" pre-shrink I.D., 6" length, Clear  | 2   |

**12 items and 66 pieces**

MIL-DTL-23053/4 Class 3  
UL E157227  
Recovery temp. 250°F/121°C,  
Dielectric strength 700V/Mil.,  
Continuous oper. temp. -67°F to 230°F/-55°C to 110°C

## Thin wall flexible heat-shrink tubing with no adhesive

- Polyolefin, 2 to 1 shrink ratio
- Highly flexible for conforming to irregular shapes
- Self-extinguishing UL224 (except clear)



10061



10062

### 10061 Thin Wall Flexible Shrink Tubing Minipak

| Flexible Shrink Tubing | Description                             | Qty |
|------------------------|-----------------------------------------|-----|
|                        | 3/16" pre-shrink I.D., 6" length, Black | 5   |
|                        | 3/16" pre-shrink I.D., 6" length, Red   | 5   |
|                        | 1/4" pre-shrink I.D., 6" length, Black  | 5   |
|                        | 1/4" pre-shrink I.D., 6" length, Blue   | 5   |
|                        | 3/8" pre-shrink I.D., 6" length, Black  | 5   |
|                        | 3/8" pre-shrink I.D., 6" length, Yellow | 5   |
|                        | 1/2" pre-shrink I.D., 6" length, Black  | 4   |
|                        | 3/4" pre-shrink I.D., 6" length, Black  | 3   |
|                        | 1" pre-shrink I.D., 6" length, Black    | 2   |

**9 items and 39 pieces**

### 10062 Thin Wall Flexible Shrink Tubing Kit

| Flexible Shrink Tubing | Description                             | Qty |
|------------------------|-----------------------------------------|-----|
|                        | 3/16" pre-shrink I.D., 6" length, Black | 20  |
|                        | 3/16" pre-shrink I.D., 6" length, Red   | 15  |
|                        | 1/4" pre-shrink I.D., 6" length, Black  | 20  |
|                        | 1/4" pre-shrink I.D., 6" length, Blue   | 10  |
|                        | 3/8" pre-shrink I.D., 6" length, Black  | 10  |
|                        | 3/8" pre-shrink I.D., 6" length, Yellow | 10  |
|                        | 1/2" pre-shrink I.D., 6" length, Black  | 10  |
|                        | 3/4" pre-shrink I.D., 6" length, Black  | 5   |
|                        | 1" pre-shrink I.D., 6" length, Black    | 3   |

**9 items and 103 pieces**

MIL-DTL-23053/5 Class 1 (colors) Class 2 (clear),  
UL E35506 (except clear), CSA LR31929 (except clear),  
Recovery temperature: 250°F/121°C, Dielectric strength: 900 Volts/Mil.,  
Continuous operating temperature: -67°F to 275°F/-55°C to 135°C



# Electrical Connector Kit Refills

Multiseal™, Solderseal™ & Proseal™ heat-seal electrical connectors

| Part Number                               | Description                  | Std.Pack |
|-------------------------------------------|------------------------------|----------|
| <b>Multiseal Ring Terminals</b>           |                              |          |
| 11516                                     | 18-20 AWG, Red, #6 Stud      | 10       |
| 11573                                     | 18-20 AWG, Red, #6 Stud      | 50       |
| 11525                                     | 18-20 AWG, Red, #10 Stud     | 10       |
| 11576                                     | 18-20 AWG, Red, #10 Stud     | 50       |
| 11518                                     | 14-16 AWG, Blue, #10 Stud    | 10       |
| 11568                                     | 14-16 AWG, Blue, #10 Stud    | 50       |
| 11519                                     | 14-16 AWG, Blue, 1/4" Stud   | 10       |
| 11574                                     | 14-16 AWG, Blue, 1/4" Stud   | 50       |
| 11520                                     | 14-16 AWG, Blue, 3/8" Stud   | 10       |
| 11581                                     | 14-16 AWG, Blue, 3/8" Stud   | 50       |
| 11521                                     | 10-12 AWG, Yellow, #10 Stud  | 10       |
| 11569                                     | 10-12 AWG, Yellow, #10 Stud  | 50       |
| 11523                                     | 10-12 AWG, Yellow, 1/4" Stud | 10       |
| 11582                                     | 10-12 AWG, Yellow, 1/4" Stud | 50       |
| 11524                                     | 10-12 AWG, Yellow, 3/8" Stud | 10       |
| 11570                                     | 10-12 AWG, Yellow, 3/8" Stud | 50       |
| 11522                                     | 10-12 AWG, Yellow, 1/2" Stud | 10       |
| 11575                                     | 10-12 AWG, Yellow, 1/2" Stud | 50       |
| <b>Multiseal Spade Terminals</b>          |                              |          |
| 11517                                     | 18-20 AWG, Red, #10 Stud     | 10       |
| 11580                                     | 18-20 AWG, Red, #10 Stud     | 50       |
| 11526                                     | 14-16 AWG, Blue, #10 Stud    | 10       |
| 11583                                     | 14-16 AWG, Blue, #10 Stud    | 50       |
| 11527                                     | 10-12 AWG, Yellow, #10 Stud  | 10       |
| 11571                                     | 10-12 AWG, Yellow, #10 Stud  | 50       |
| <b>Multiseal Butt Connectors</b>          |                              |          |
| 11512                                     | 22-24 AWG, Clear Butt        | 10       |
| 11566                                     | 22-24 AWG, Clear Butt        | 50       |
| 11513                                     | 18-20 AWG, Red Butt          | 10       |
| 11572                                     | 18-20 AWG, Red Butt          | 50       |
| 11514                                     | 14-16 AWG, Blue Butt         | 10       |
| 11579                                     | 14-16 AWG, Blue Butt         | 50       |
| 11515                                     | 10-12 AWG, Yellow Butt       | 10       |
| 11567                                     | 10-12 AWG, Yellow Butt       | 50       |
| <b>Multiseal Female Slip-On Terminals</b> |                              |          |
| 11528                                     | 18-20 AWG, Red               | 10       |
| 11577                                     | 18-20 AWG, Red               | 50       |
| 11530                                     | 14-16 AWG, Blue              | 10       |
| 11584                                     | 14-16 AWG, Blue              | 50       |
| <b>Multiseal Male Slip-On Terminals</b>   |                              |          |
| 11529                                     | 18-20 AWG, Red               | 10       |
| 11578                                     | 18-20 AWG, Red               | 50       |
| 11531                                     | 14-16 AWG, Blue              | 10       |
| 11585                                     | 14-16 AWG, Blue              | 50       |
| <b>Solderseal Ring Terminals</b>          |                              |          |
| 10772                                     | 18-20 AWG, Red, # 6 Stud     | 10       |
| 10811                                     | 18-20 AWG, Red, # 6 Stud     | 50       |
| 10773                                     | 18-20 AWG, Red, # 8 Stud     | 10       |
| 10812                                     | 18-20 AWG, Red, # 8 Stud     | 50       |
| 10774                                     | 18-20 AWG, Red, # 10 Stud    | 10       |
| 10813                                     | 18-20 AWG, Red, # 10 Stud    | 50       |
| 10775                                     | 18-20 AWG, Red, 1/4" Stud    | 10       |
| 10814                                     | 18-20 AWG, Red, 1/4" Stud    | 50       |
| 10779                                     | 14-16 AWG, Blue, # 8 Stud    | 10       |
| 10818                                     | 14-16 AWG, Blue, # 8 Stud    | 50       |
| 10780                                     | 14-16 AWG, Blue, # 10 Stud   | 10       |
| 10819                                     | 14-16 AWG, Blue, # 10 Stud   | 50       |
| 10781                                     | 14-16 AWG, Blue, 1/4" Stud   | 10       |
| 10820                                     | 14-16 AWG, Blue, 1/4" Stud   | 50       |
| 10783                                     | 14-16 AWG, Blue, 3/8" Stud   | 10       |
| 10822                                     | 14-16 AWG, Blue, 3/8" Stud   | 50       |
| 10784                                     | 10-12 AWG, Yellow, # 10 Stud | 10       |
| 10823                                     | 10-12 AWG, Yellow, # 10 Stud | 50       |
| 10785                                     | 10-12 AWG, Yellow, 1/4" Stud | 10       |
| 10824                                     | 10-12 AWG, Yellow, 1/4" Stud | 50       |
| 10787                                     | 10-12 AWG, Yellow, 3/8" Stud | 10       |
| 10826                                     | 10-12 AWG, Yellow, 3/8" Stud | 50       |
| 10788                                     | 10-12 AWG, Yellow, 1/2" Stud | 10       |
| 10827                                     | 10-12 AWG, Yellow, 1/2" Stud | 50       |
| <b>Solderseal Spade Terminals</b>         |                              |          |
| 10792                                     | 18-20 AWG, Red, # 10 Stud    | 10       |
| 10831                                     | 18-20 AWG, Red, # 10 Stud    | 50       |
| 10793                                     | 14-16 AWG, Blue, # 10 Stud   | 10       |
| 10832                                     | 14-16 AWG, Blue, # 10 Stud   | 50       |
| 10794                                     | 10-12 AWG, Yellow, # 10 Stud | 10       |
| 10833                                     | 10-12 AWG, Yellow, # 10 Stud | 50       |

|                                                   |                                |    |
|---------------------------------------------------|--------------------------------|----|
| <b>Solderseal Butt Connectors</b>                 |                                |    |
| 10795                                             | 22-24 AWG, Clear               | 10 |
| 10834                                             | 22-24 AWG, Clear               | 50 |
| 10796                                             | 18-20 AWG, Red                 | 10 |
| 10835                                             | 18-20 AWG, Red                 | 50 |
| 10797                                             | 14-16 AWG, Blue                | 10 |
| 10836                                             | 14-16 AWG, Blue                | 50 |
| 10798                                             | 10-12 AWG, Yellow              | 10 |
| 10837                                             | 10-12 AWG, Yellow              | 50 |
| <b>Part Number Description Std.Pack</b>           |                                |    |
| <b>Solderseal Slip-On Connectors</b>              |                                |    |
| 10799                                             | 18-20 AWG, Red, .250 Female    | 10 |
| 10838                                             | 18-20 AWG, Red, .250 Female    | 50 |
| 10801                                             | 18-20 AWG, Red, .250 Male      | 10 |
| 10840                                             | 18-20 AWG, Red, .250 Male      | 50 |
| 10802                                             | 14-16 AWG, Blue, .250 Female   | 10 |
| 10841                                             | 14-16 AWG, Blue, .250 Female   | 50 |
| 10804                                             | 14-16 AWG, Blue, .250 Male     | 10 |
| 10843                                             | 14-16 AWG, Blue, .250 Male     | 50 |
| 10805                                             | 10-12 AWG, Yellow, .250 Female | 10 |
| 10844                                             | 10-12 AWG, Yellow, .250 Female | 50 |
| 10807                                             | 10-12 AWG, Yellow, .250 Male   | 10 |
| 10846                                             | 10-12 AWG, Yellow, .250 Male   | 50 |
| <b>Proseal Ring Terminals</b>                     |                                |    |
| 10906                                             | 18-20 AWG, Red, # 6 Stud       | 10 |
| 10658                                             | 18-20 AWG, Red, # 6 Stud       | 50 |
| 10908                                             | 18-20 AWG, Red, # 10 Stud      | 10 |
| 10659                                             | 18-20 AWG, Red, # 10 Stud      | 50 |
| 10910                                             | 14-16 AWG, Blue, # 8 Stud      | 10 |
| 10648                                             | 14-16 AWG, Blue, # 8 Stud      | 50 |
| 10912                                             | 14-16 AWG, Blue, # 10 Stud     | 10 |
| 10649                                             | 14-16 AWG, Blue, # 10 Stud     | 50 |
| 10914                                             | 14-16 AWG, Blue, 1/4" Stud     | 10 |
| 10650                                             | 14-16 AWG, Blue, 1/4" Stud     | 50 |
| 10916                                             | 14-16 AWG, Blue, 3/8" Stud     | 10 |
| 10652                                             | 14-16 AWG, Blue, 3/8" Stud     | 50 |
| 10918                                             | 10-12 AWG, Yellow, # 8 Stud    | 10 |
| 10653                                             | 10-12 AWG, Yellow, # 8 Stud    | 50 |
| 10920                                             | 10-12 AWG, Yellow, # 10 Stud   | 10 |
| 10654                                             | 10-12 AWG, Yellow, # 10 Stud   | 50 |
| 10922                                             | 10-12 AWG, Yellow, 1/4" Stud   | 10 |
| 10655                                             | 10-12 AWG, Yellow, 1/4" Stud   | 50 |
| 10924                                             | 10-12 AWG, Yellow, 3/8" Stud   | 10 |
| 10657                                             | 10-12 AWG, Yellow, 3/8" Stud   | 50 |
| <b>Proseal Spade Terminals</b>                    |                                |    |
| 10926                                             | 18-20 AWG, Red, # 10 Stud      | 10 |
| 10665                                             | 18-20 AWG, Red, # 10 Stud      | 50 |
| 10928                                             | 14-16 AWG, Blue, # 10 Stud     | 10 |
| 10663                                             | 14-16 AWG, Blue, # 10 Stud     | 50 |
| 10930                                             | 10-12 AWG, Yellow, # 10 Stud   | 10 |
| 10664                                             | 10-12 AWG, Yellow, # 10 Stud   | 50 |
| <b>Proseal Butt Connectors</b>                    |                                |    |
| 10932                                             | 18-20 AWG, Red                 | 10 |
| 10666                                             | 18-20 AWG, Red                 | 50 |
| 10934                                             | 14-16 AWG, Blue                | 10 |
| 10667                                             | 14-16 AWG, Blue                | 50 |
| 10936                                             | 10-12 AWG, Yellow              | 10 |
| 10668                                             | 10-12 AWG, Yellow              | 50 |
| <b>Proseal Fully Insulated Slip On Connectors</b> |                                |    |
| 10940                                             | 18-20 AWG, Red, .250 Female    | 10 |
| 10669                                             | 18-20 AWG, Red, .250 Female    | 50 |
| 10938                                             | 18-20 AWG, Red, .250 Male      | 10 |
| 10672                                             | 18-20 AWG, Red, .250 Male      | 50 |
| 10944                                             | 14-16 AWG, Blue, .250 Female   | 10 |
| 10671                                             | 14-16 AWG, Blue, .250 Female   | 50 |
| 10942                                             | 14-16 AWG, Blue, .250 Male     | 10 |
| 10673                                             | 14-16 AWG, Blue, .250 Male     | 50 |

Multiseal Patent Numbers:  
Butt Connectors - US 6,838,621 B2, US 6,677,529 B1  
Terminals - US 6,666,732, B1

Solderseal Patent Numbers:  
Butt Connectors - US 4,883,925  
Ring and spades - US 5,137,478

# Heat-Shrink Tubing Kit Refills

Thin and dual wall heat-shrink tubing



Master Heat® Guns or Butane-powered portable heat tools, when used with these flexible polyolefin connectors and shrink tubing, create wireharness repairs that meet OEM Standards.

| Thin Wall Shrink Tubing 6" Long (NO ADHESIVE)   |                             |    |
|-------------------------------------------------|-----------------------------|----|
| 11601                                           | Shrink Tubing, 3/16", Black | 10 |
| 11602                                           | Shrink Tubing, 3/16", Red   | 10 |
| 11603                                           | Shrink Tubing, 1/4", Black  | 10 |
| 11604                                           | Shrink Tubing, 1/4", Blue   | 10 |
| 11605                                           | Shrink Tubing, 3/8", Black  | 10 |
| 11606                                           | Shrink Tubing, 3/8", Yellow | 10 |
| 11607                                           | Shrink Tubing, 1/2", Black  | 10 |
| 11608                                           | Shrink Tubing, 3/4", Black  | 10 |
| 11609                                           | Shrink Tubing, 1", Black    | 10 |
| Dual Wall Shrink Tubing 6" Long (WITH ADHESIVE) |                             |    |
| 11620                                           | Shrink Tubing, 1/8", Black  | 8  |
| 11621                                           | Shrink Tubing, 1/8", Clear  | 8  |
| 11622                                           | Shrink Tubing, 1/8", Red    | 8  |
| 11623                                           | Shrink Tubing, 3/16", Black | 8  |
| 11624                                           | Shrink Tubing, 3/16", Clear | 8  |
| 11625                                           | Shrink Tubing, 3/16", Red   | 8  |
| 11626                                           | Shrink Tubing, 1/4", Black  | 8  |
| 11627                                           | Shrink Tubing, 1/4", Clear  | 8  |
| 11628                                           | Shrink Tubing, 1/4", Red    | 8  |
| 11629                                           | Shrink Tubing, 3/8", Black  | 8  |
| 11630                                           | Shrink Tubing, 3/8", Clear  | 8  |
| 11631                                           | Shrink Tubing, 3/8", Red    | 8  |
| 11632                                           | Shrink Tubing, 1/2", Black  | 8  |
| 11633                                           | Shrink Tubing, 1/2", Clear  | 8  |
| 11634                                           | Shrink Tubing, 1/2", Red    | 8  |
| 11635                                           | Shrink Tubing, 3/4", Black  | 8  |
| 11636                                           | Shrink Tubing, 3/4", Clear  | 8  |
| 11637                                           | Shrink Tubing, 3/4", Red    | 8  |
| 11638                                           | Shrink Tubing, 1", Black    | 8  |
| 11639                                           | Shrink Tubing, 1", Clear    | 8  |
| 11640                                           | Shrink Tubing, 1", Red      | 8  |

## Crimping Tools

Hand tools for heat-seal electrical connectors

### Cutter, Stripper, Crimper

- Two precision-ground wire cutters: up-front anvil-type and scissors-type located behind pivot point
- Cuts,strips and crimps stranded wire in 22 to 10 AWG sizes and solid wire in 18 to 8 AWG sizes
- Cuts 6-32, 8-32, 10-32, 10-24 and 4-40 bolts and screws
- Scissors action wire stripper is precision-ground for accuracy and clean, neat stripping.
- Cushioned handle for user comfort, made of heat-treated tool steel for long life, reliability and accuracy

| MODEL NO. | DESCRIPTION               |
|-----------|---------------------------|
| 35083     | Cutter, Stripper, Crimper |



35083

### Ratcheting Crimper

- Crimps 22-18, 16-14 and 12-10 AWG size connectors
- Rounded crimp die area for insulated terminals
- Industry standard color-coded crimp numbers for easy size identification
- Full-cycle ratcheting handle ensures a complete crimp
- Made from heat-treated steel for long life and reliability
- Cushioned handle for user comfort

| MODEL NO. | DESCRIPTION                        |
|-----------|------------------------------------|
| 35084     | Crimp Tool, Ratcheting, Full Cycle |



35084

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

# Master Heat™ Tools Factory Warranty

Every Master Heat Tool comes with a one year limited warranty

## One Year Warranty

Master Heat Tools are carefully tested and inspected before being shipped from the factory. We warrant our products to be free from defects in materials and workmanship, under normal use and service, for one year from the date of purchase. In the event of a defect in materials or workmanship we will either repair or replace, at our option, without charge any part which in our judgement shows evidence of such defect.

Warranty does not apply to wearable items such as attachments, brushes, heating elements, solder tips, heat tips, burners or ejectors, which require periodic replacement, nor does it apply if the heat tool has been misused, abused, tampered with or altered.

At the end of the warranty period, Master Appliance shall be under no further obligation, expressed or implied. Master Appliance assumes no responsibility for, and this warranty shall not cover, any incidental or consequential damages from any defect in products or their use.

This warranty gives you specific rights. You may also have other rights which may vary from State to State. Warranty information is included within the Instruction Manual for each product or may be obtained by contacting Master's Customer Service Department at 800-558-9413, 262-633-7791 or [www.masterappliance.com](http://www.masterappliance.com).

**Master heat tools are sold worldwide through a network of Authorized Stocking Distributors.** Trained Sales and Customer Service Representatives, located at our headquarters and throughout the world, insure fast personal service.

Contact us for your nearest stocking distributor or sales representative.

**Visit our website for up-to-date information on products, accessories, parts, warranty and repair service.**

# Master Heat™ Tool Applications

## Professional quality heat tools for Industry

### Master Heat™ Tools

Heat has many industrial applications. The proper use of the right heat technology and the right product are necessary to achieve optimum results in each application.

Master is continually developing new products and techniques to meet the demands of new applications. Master heat guns are designed and constructed to provide our customers with dependable, cost-effective ways to apply heat properly for specific jobs.

With over fifty years of experience in the industry, the Master Appliance name assures its customers of an uncommon expertise in heat technology, quality products and unsurpassed service.

Our original heat gun met the heating needs of the maintenance, repair, operation and production applications of its time. Today's Master heat tools are designed with expanded capabilities which make it easy to work with the growing range of new materials and processes being developed by industry.

Master heat tools are used for drying, heating, welding, shrinking, soldering and de-soldering as well as a variety of other applications. Wherever heat is the need, Master has the answer.

Because each application is unique, the Master heat tool line offers options such as varying temperatures, air flow, a choice of nozzle configurations, attachments and voltage/plug combinations to meet your needs.

The introduction of new plastics, adhesives and other materials is a continuous process. The range of options and attachments offered by Master heat tools enables you to use the newest materials and techniques while relying on the traditional Master quality and durability.

Master is always here to help. When you're considering a new application, material or process, call Master Appliance for professional, efficient and courteous assistance.

### Applications/Processes

Master heat tools are being used for hundreds of applications and processes throughout industry including:

- Activate adhesives and potting compounds
- Bend and form plastics and plastic laminates
- Cure and set adhesives
- Defrost freezers and frozen coils
- Dry body filler
- Dry conformal coatings on circuit boards
- Dry parts
- Expand metals
- General heating and drying applications
- Desolder backs of printed circuit boards to thru-hole components
- PVC bending
- Preheat flux
- Remove dents in fiberglass and other materials
- Remove pin stripping
- Remove/install plastic autobody panels
- Remove windshield caulking
- Shrink and terminate environmental splices
- Shrink and terminate heat-shrinkable insulated solder preforms
- Shrink heat-shrinkable anti-static film
- Shrink heat-shrinkable molded parts
- Shrink heavy gauge shrink packaging
- Shrink heavy wall and adhesive-lined tubings
- Smooth vinyl tops
- Soldering and desoldering
- Spot dry paint
- Stretch vinyls
- Strip paint
- Vinyl repair

New applications and processes which require heat are discovered everyday. Users should independently evaluate the suitability of the product for their application.

As with all electrical and butane-powered tools, for your safety, read the instruction manual before using.

Product specifications are subject to change without notice.

# MASTER<sup>®</sup>

## A P P L I A N C E

Designers and Manufacturers of Heat Tools for Industry

### Worldwide Corporate Headquarters

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