

MASTER[®] APPLIANCE

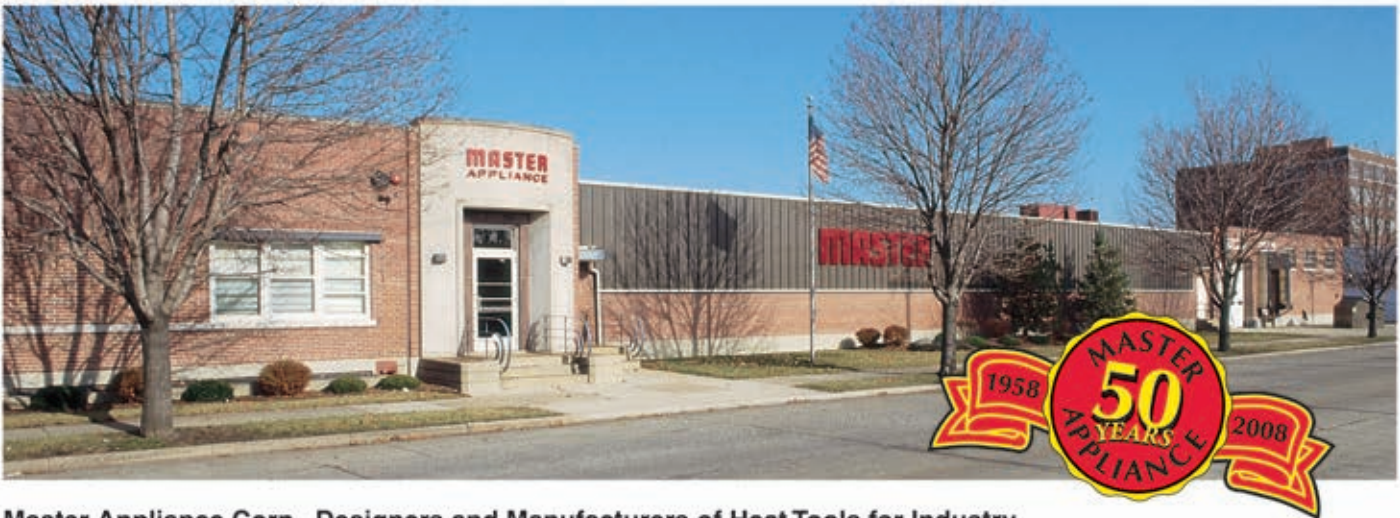
HEAT TOOLS FOR INDUSTRY

North America
PRODUCT CATALOG



• Master Heat Guns • Plastic Welding Kit • Continuous Duty Process Heat • Butane Powered Soldering Irons • Butane Powered Microtorches • Butane Powered Glue Gun • Ultratane[®] Butane • Heat Seal Connector Kits • Heat Shrink Tubing Kits • Crimp Tools • Heat Activated Materials

www.masterappliance.com



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.



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 the name, address and telephone number of 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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Engineering, Design, Research and Development

Master is continually developing innovative new heat tool products with enhanced capabilities, making it easier to work with new materials and processes used throughout industry. Our Heat Tool Specialists use state-of-the-art technology to develop innovative new heat tools which meet the needs of our customers for professional quality heat tools.



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.

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Master & Varitemp® Heat Guns

Professional quality, heavy-duty, 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 selection of temperatures 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
- 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



c UL US
120V Models

HG Series
Master Heat
Gun®

Momentary Contact Switch:

Unit shuts off when switch is released.
An option for Master Heat Gun models.
To order add "MC" suffix to model
number. Example: HG-501A-MC

International Voltages Available:

International voltage models with
appropriate cordsets are available upon
request. Contact our Sales Department
for model numbers and availability.



VT Series
Varitemp®
Heat Gun

c UL US
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-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	1980W		HAS-016K

MASTER VARITEMP® HEAT GUN									REPLACEMENT ELEMENT
MODEL NO.	DESCRIPTION								
VT-750C	Amb. to 1000°F/540°C		23 CFM	120V	60 Hz	14.5A	1740W		HAS-043K
VT-752C	Amb. to 750°F/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 ■ 120V Models 
- 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.



Rotating Swivel Stand



Replacement Heating
Element

Master & Varitemp® Kits & Accessories

Add versatility to your HG & VT model heat guns



c UL US
120V Models

Master Heat Gun® Kit

- Professional quality stainless steel attachments
- 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



c UL US
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/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

Master Deluxe Varitemp® Heat Gun

Variable Temperature 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 to 1000°F/540°C at 1740 watts
- Variable temperature control provides easy dial-in temperatures
- Powerful high speed universal motor
- High air flow 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
- 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°/540°C	23 CFM	120V	
	60 Hz 14.5A	1740W		
VTS-752	Amb.-750°/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, cap and spring 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 5

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 ■ 120V Models 
- Tool Net Weight: 5 lbs. ■ Shipping Weight: 8 lbs.



Ergonomic handle with spring loaded slide grip



Reflector Attachment for Heat Shrinking



Replacement Brush, Cap and Spring 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.

Proheat® Dualtemp™ & Quick-Touch™ Heat Guns & Kit

Dual temperature heat gun & Quick-Touch 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 Quick-Touch PH-1000 has Momentary Contact Switch
- Use to activate adhesives, bend plastics, dry filler material, shrink tubing and more
- Make your Proheat even more versatile. See our wide variety of professional quality attachments & accessories on page 13



PH-1000
PH-1100



Quality attachments for professional applications



PH-1100K

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

MODEL NO.	DESCRIPTION	Air Temperature	Air Velocity	Air Volume	
PH-1000	Proheat Quick-Touch Heat Gun	1000°F	4000 FPM	16 CFM	120V 60 Hz 11A 1300W
PH-1100	Proheat Dualtemp Heat Gun	500° or 1000°F	4000 FPM	16 CFM	120V 60 Hz 11A 1300W
PH-1100K	Proheat Dualtemp Heat Gun Kit	PH-1100 Heat Gun with storage case and 2 attachments (35016 & 35017)			

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: 3 lbs.
- Shipping Weight Kit: 7 lbs.

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

Proheat® Varitemp® Heat Gun & Kit

Dial-in variable temperature heat gun

- Compact, lightweight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- Variable temperature from 130° - 1000°F (50° - 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
- Use to heat temperature sensitive materials including specialty connectors, solder preforms, shrink tubing
- Make your Proheat even more versatile. See our wide variety of professional quality attachments & accessories on page 13

PH-1200



Easy access variable temperature control



Quality attachments for professional applications

Bench-Top Heat Shrink System

PH-1200-1



PH-1200K

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

MODEL NO.	DESCRIPTION	Air Temperature	Air Velocity	Air Volume
PH-1200	Proheat Varitemp Heat Gun	130° - 1000°F/50° - 540°C	4000 FPM	16 CFM
PH-1200K	Proheat Varitemp 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	Proheat Varitemp Heat Shrink System	PH-1200 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: 3 lbs.
- Shipping Weight Kit: 7 lbs.

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

Proheat® Variair® Heat Gun & Kit

Dial-in variable airflow & temperature heat gun

- Compact, lightweight, easy-to-use
- Balanced ergonomic design prevents operator fatigue
- Variable temperature from 130° - 1000°F (54° - 540°C)
- Variable air flow from 4 - 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
- Use to heat temperature sensitive materials including specialty connectors, solder preforms, shrink tubing and more
- Make your Proheat even more versatile. See our wide variety of professional quality attachments & accessories on page 13



PH-1300



Dial-in variable temperature and air flow controls



Quality attachments for professional applications



PH-1300K

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

MODEL NO.	DESCRIPTION	Air Temperature	Air Velocity	Air Volume	
PH-1300	Proheat Variair Heat Gun	130° - 1000°F/50° - 540°C	737 - 4000 FPM	4 - 16 CFM	120V 60 Hz 11A 1300W
PH-1300K	Proheat Variair Heat Gun Kit	PH-1300 Heat Gun with storage case and all 5 attachments (Part No. 35309) see page 13 for details			

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: 3 lbs.
- Shipping Weight Kit: 7 lbs.

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

Proheat® LCD Dial-in Heat Gun & Kit

Dial-in variable temperature & airflow with LCD display & lockability

- Compact, lightweight, easy-to-use
- LCD with digital display of temperature and air flow settings
- Dial-in temperatures in 10° increments from 130° - 1000°F (50° - 540°C) displayed in degrees Fahrenheit or Celsius
- Adjustable air flow from 4 to 16 CFM (113 - 453 l/min.)
- Proloc™ Magnetic key provided with every unit locks controls to prevent changing of temperature and airflow
- 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
- Power-interrupt Reset feature prevents unattended heat gun from resuming heat after a power failure
- 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
- Make your Proheat even more versatile. See our wide variety of professional quality attachments & accessories on page 13

PH-1400



PH-1400K

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



Dial-in variable temperature & air flow controls



Quality attachments for professional applications

MODEL NO.	DESCRIPTION	Air Temperature	Air Velocity	Air Volume	
PH-1400	Proheat LCD Dial-in Heat Gun	130° - 1000°F/50° - 540°C	737 - 4000 FPM	4 - 16 CFM	120V 60 Hz 11A 1300W
PH-1400K	Proheat LCD Dial-in Heat Gun Kit	PH-1400 Heat Gun with storage case and all 5 attachments (Part No. 35309) see page 13 for details			

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: 3 lbs.
- Shipping Weight Kit: 7 lbs.

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

Proheat® LCD Plastic Welding Kit

A self-contained plastic welding system

- The MASTER PROHEAT Plastic Welding Kit makes fabricating and repairing thermoplastics fast and simple. Each kit is a self-contained, general purpose plastic welding system with everything needed for hot air welding a wide variety of thermoplastic materials: rigid and flexible plastics, auto bumpers, tarps, liners, covers, tents, inflatables and more. The kit includes practice welding rod and instruction manual.
- The heart of the system is the MASTER PROHEAT LCD Model PH-1400 Dial-in Electric Heat Gun. Dial-in control lets you set both temperature and airflow. Once the proper temperature and airflow for a specific welding application is determined, it can be "locked-in" and saved for use again and again with the exclusive, innovative magnetic key lock-in feature. An electronic control system prevents over-heating when the heat gun is used with special welding attachments.



PH-1400WK

Welding Applications



Welding Flooring Material



Pendulum Welding



Speed Welding



Mirror Welding

Each Welding Kit Includes:



- One Compact, Light weight, Easy-to-use, Master Proheat® Model PH-1400 Heat Gun
- 5 Starter Welding Rod Assortment
- 6 qty- 1/8" Dia., 9" Long, Round PVC Welding Rod
- 6 qty- 1/8" Dia., 9" Long, Round PP Welding Rod
- 6 qty- 1/8" Dia., 9" Long, Round ABS Welding Rod
- 6 qty- 1/8" Dia., 9" Long, Round HDPE Welding Rod
- 6 qty- 1/8" Dia., 9" Long, Round LDPE Welding Rod

PH-1400

- Dial-in LCD display of temperature and air flow settings
- Dial-in temperatures in 10° increments 130°F to 1,000°F
- Dial-in air flow from 4 to 16 CFM (113 to 453 l/min)
- Control system prevents overheating when using specialty attachments
- Temperature & airflow lock-in feature
- Assembled in USA



- **35295**
Speed Welding Tip - For welding rod up to 6 mm diameter

- **35271**
Tacking Tip - For tacking parts together prior to welding so they will not move



- **35294**
3/8" Reducer - Required to attach welding tips
- **35293**
5/8" Reducer - To provide concentrated airflow
- **35017**
1-1/4" Shrink Attachment - Reflects air around shrink tubing or pipe



- Plastic Welding & Proheat Instruction Manuals Provide Informative How-to-Use Instructions



- Heavy Duty Storage & Carrying Case safely & conveniently stores kit contents

Proheat® LCD Programmable Heat Gun & Kit

Six programmable temperature & airflow settings with LCD display

- Compact, lightweight, easy-to-use
- Six programmable settings with digital display of temperature and air flow
- Programmable heat and air flow removes the guess work
- Program temperature in 10° increments from 130° to 1000°F (50° - 540°C) in your choice of degrees Fahrenheit or Celsius
- Adjustable air flow from 4 - 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 feature prevents unattended heat gun from resuming heat after a power failure
- 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
- Make your Proheat even more versatile. See our wide variety of professional quality attachments & accessories on page 13

PH-1500



Programmable temperature and air flow controls with 6 memory functions



Quality attachments for professional applications



PH-1500K

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	Proheat LCD Programmable Heat Gun	130° - 1000°F/50° - 540°C	737 - 4000 FPM	4 - 16 CFM 120V 60 Hz 11A 1300W
PH-1500K	Proheat LCD Programmable Heat Gun Kit	PH-1500 Heat Gun with storage case and all 5 attachments (Part No. 35309) see page 13 for details		

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: 3 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® Heat Gun Attachments & Accessories

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

REDUCER ATTACHMENTS



35294 *
3/8" (9 mm) Reducer
Concentrates air flow.
Also used with weld tips



35293 *
5/8" (14 mm) Reducer
Provides concentrated
air flow



35270
3/4" (20 mm) Reduction
Nozzle
Concentrated air flow



35260
2" (50mm) Spreader Nozzle
Spreads air evenly over
wide area



35016
3" (75 mm) Spreader
Spreads air evenly over
wide areas

REFLECTOR ATTACHMENTS



35272
3/8" (9 mm) Reflector,
Shrink Attachment
For shrinking small diameter tubing
Use with PN35294 3/8" Reducer



35264
3/8" (9 mm) Reflector, Shrink
Attachment
For shrinking small
diameter tubing



35292 *
5/8" (14 mm) Special Connector
Use to terminate shrink,
solder & crimp connectors



35261
3" (75mm) Large Reflector
For shrinking large
diameter tubing



35017
1 1/4" Shrink Attachment
Reflects air around
surface's such as
tubing or pipe

DEFLECTOR ATTACHMENTS



35262
2" (50mm) Window
Nozzle Deflector
Deflects heat away
from windows



35263
3" (75mm) Window
Nozzle Deflector
Deflects heat away
from windows



35295
Plastic Welding Rod
Nozzle w/ 7mm intake
For use with welding rod,
use with 3/8" reducer



35271
Tacking Tip
For tacking parts together prior
to welding so they will not move,
use with 3/8" reducer



35296
3/4" (20 mm) Lap
Welding Nozzle
For lap welding plastic materials,
use with 3/8" reducer

WELDING ATTACHMENTS



35266
1 1/2" 40mm Angle Slit Nozzle
Lap welds
roofing materials



35267
3" (75mm) Teflon Coated
Butt Welding Heat Disc
For butt welding
PVC pipes



35268
1 1/2" (40mm) Lap
Welding Slit Nozzle
For lap welding
PVC Sheeting

ATTACHMENT KIT



35309
Attachment Kit
Kit of 5 most popular
attachments

ACCESSORIES



35216
Bench Stand
To position guns for
various applications



35291
Seam Roller with
ball bearings
For lap welding, edging tape
and roofing applications



35351
Storage Case
Transport & store in a
rugged plastic case

* Not for use with
PH-1100 & PH-2200



35297
ABS Welding Rod
Acrylonitrile Butadiene Styne
(Pkg. of 16)
Round, 1/8" Dia. x 9" Long, Natural,
for welding ABS plastics



35298
PP Welding Rod
Polypropylene
(Pkg. of 16)
Round, 1/8" Dia. x 9" Long, Natural,
for welding PP plastics



35299
PVC Welding Rod
Polyvinyl Chloride
(Pkg. of 16)
Round, 1/8" Dia. x 9" Long, Grey,
for welding PVC plastics



35300
LDPE Welding Rod
Low Density Polyethylene
(Pkg. of 16)
Round, 1/8" Dia. x 9" Long, Natural,
for welding LDPE plastics



35301
HDPE Welding Rod
High Density Polyethylene
(Pkg. of 16)
Round, 1/8" Dia. x 9" Long, Black,
for welding HDPE plastics

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° or 1000°F 260° or 540°C 7 or 9 CFM 120V 60 Hz 10A 1200W
EC-100K	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
35225	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, 1-15/16" 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

Professional quality, continuous-duty, process heat blower



Replacement Heating Element

★ NEMA 5-20P Plug

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.

- 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

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

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

MODEL NO.	DESCRIPTION
10008	650°F/343°C 120V 60Hz 4.5A 475W
10009	650°F/343°C 220V 50Hz 2.0A 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
20033	Blue 500°F/260°C 220V 400W
20034	Silver 650°F/343°C 220V 450W
20035	Black 800°F/427°C 220V 500W
20160	Blue 500°F/260°C 240V 400W
20161	Silver 650°F/343°C 240V 450W
20162	Black 800°F/427°C 240V 500W

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



Optional Accessories

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

Specifications

- Air Volume: 3.8 CFM ■ Air Velocity: 700 FPM ■ Motor: Shaded Pole ■ Nozzle Opening: .99" I.D., 1.03 O.D. ■ Cordset: 6 ft., 3-wire grounded ■ Dimensions: 8.8" L x 3.3" W x 7" H
- 120V Models ■ c UL US ■ Net Weight: 1.7 lbs. ■ Shipping Weight: 3 lbs.

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)
- 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

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



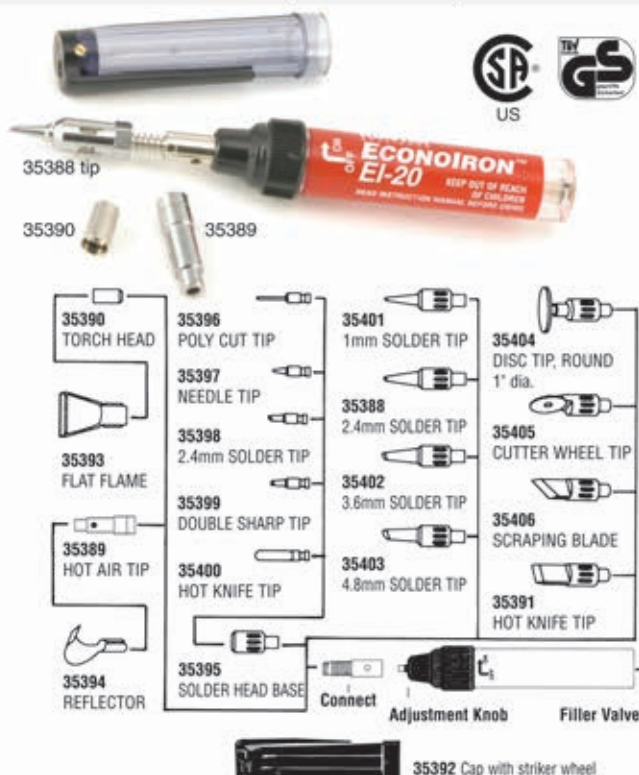
Specifications

- Air Volume: 3.8 CFM ■ Air Velocity: 700 FPM ■ Motor: Shaded Pole
- Nozzle Opening: .99" I.D., 1.03 O.D. ■ Cordset: 6 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. ■ c UL US ■ 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



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

Refill with Master Ultratane Butane for best performance. (page 29)

- 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	2.4mm soldering tip (std.)	35398	2.4mm 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	1mm soldering tip
35392	Cap with striker wheel (std.)	35402	3.6mm soldering tip
35393	Flat flame tip	35403	4.8mm soldering tip
35394	Heat shrink attachment	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° - 780°F (200° - 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. ■ Shipping Weight: 1 lb. ■ Shipped Empty

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



See above for more EI-20 accessories

- 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° - 780°F (200° - 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. ■ Torch Kit Weight: 13.3 oz. ■ Shipping Weight tool: 1 lb. ■ Shipping Weight Kit: 1 lb. ■ Shipped Empty

Refill with Master Ultratane Butane for best performance. (page 29)

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.

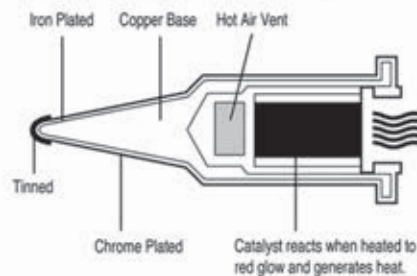
Ultratorch heat tools, with Ultratip Technology, are perfect for use with today's lead-free solders. In fact, Ultratip soldering tips have more than double the iron and chrome plating thickness of our competitors' brass based tips, providing higher thermal conductivity and much longer tip life.

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 29)
- 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-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 dia. chisel tip (std.)
60P-1.2D	1.2mm chisel preheat soldering tip	60-01-03	2mm dia. spade tip
60P-1.6D	1.6mm chisel preheat soldering tip	60-01-04	3mm dia. 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	.5"/12.7mm dia. 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: .4 fl. Oz. (12cc)
- Dimensions: 7.3" L (185mm) w/o cap
- Net Weight: 2.6 oz.
- Shipping Weight: 1 lb.
- Shipped Empty



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
ULTRATIP SOLDERING TIPS	
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
HOT AIR TIPS AND SHRINK ATTACHMENT	
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"/12.7mm dia. .75"/19mm wide heat shrink attachment (std. UT-40SiH, UT-40SiK) (requires 91-01-52)
HOT KNIFE TIP	
91-01-53	Standard with UT-40SiK
PROTECTIVE CAP & CARRYING STRAP	
91-02	Protective cap (std. all models)
70-52U	Carrying strap

Specifications

- See UT-40SiK for tool specifications

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 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 (208mm) ■ Tool Net Weight: 2.6 oz. ■ Shipping Weight Tool: 1 lb. ■ Shipping Weight Kit: 2 lbs. ■ Shipped Empty

See above for more UT-40SiK accessories.
Refill with Master Ultratane Butane
for best performance. (page 29)

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

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	1mm dia. tapered needle tip
71-01-02	2.4mm dia. chisel tip (standard)
71-01-03	2mm dia. spade tip
71-01-04	3mm 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	.5"/12.7mm dia., .75"/19mm wide heat shrink attachment
70-35	Ejector spanner wrench
70-52U	Carrying strap

Specifications

- Approx. Soldering Tip Temp.: 392° - 842°F (200° - 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 (165mm)
- Net Weight: 2.2 oz
- Shipping Weight: 1 lb.
- Shipped Empty

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



71-01-02 tip

71-01-52



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 29)

Ultratorch® UT-100SiEA

Self-igniting butane-powered flameless heat tool with fan assisted air flow

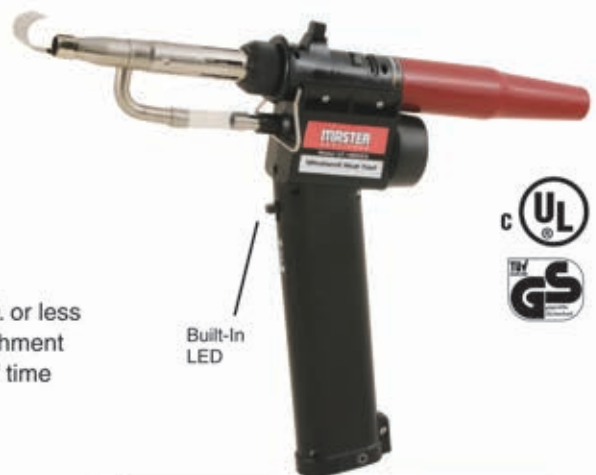
- Eliminates scorching and burning damage to shrink tubing during installation
- Variable temperature 302° - 572°F (150° - 300°C) with fan
- Enhanced Air Flow volume is 4 times greater with fan
- Variable temperature 482° - 932°F (250° - 500°C) without fan
- Butane-powered and completely portable/cordless, 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° - 572°F (250° - 500°C)
- Approx. Hot Air Temp. without fan: 482° - 932°F (150° - 300°C)
- Approx. Operating Time: 100 min.
- Fuel Tank Capacity: 1 fl. oz. (28 cc)
- Dimensions: 10.25" L (242mm) 8.25" H (242mm)
- Hot Air Tip Opening: 8mm dia.
- Net Weight: 11.25 oz.
- Shipping Weight: 1 lb.
- Shipped Empty

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



Built-In LED



Ultratorch® UT-100 & UT-100-TC

Butane-powered soldering iron, flameless heat tool and torch



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

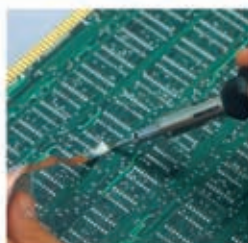
70-07TU

70-01-52

70-01-55

UT-100

Ultratorch



Solder



Flameless Heat



Torch

- 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 29)
- 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 21)



MODEL NO.	DESCRIPTION
UT-100-TC	Includes Ultratorch, three Ultratip soldering tips: 70-01-02, 70-01-05, 70-01-11, hot air tip: 70-01-52, shrink attachment: 70-01-55, hot knife: 70-01-16, torch ejector 70-07TU, 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, torch ejector 70-07TU, open end wrench, ejector, sponge and steel case

See page 21 for more tips & accessories.

Specifications

- Approx. Soldering Tip Temp.: 392° - 932°F (200° - 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 (242mm)
- Tool Net Weight: 3.7 oz.
- UT-100 Shipping Weight: 1 lb.
- UT-100-TC Shipping Weight: 3 lbs.
- Shipped Empty

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

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

Ultratip® soldering tips 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 tips interchangeable between all UT-100 & UT-100Si models

PART NO.	DESCRIPTION
ULTRATIP SOLDERING TIPS	
70-01-01	1mm dia. tapered needle soldering tip
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 (std., UT-100-TC, UT-100Si-TC)
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
HOT KNIFE TIP	
70-01-16	Hot knife tip (std. UT-100-TC, UT-100Si-TC, UT-100SiHK)
HOT AIR TIPS	
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
ACCESSORIES	
70-01-54	.75"/19mm dia., .825"/22.2mm wide heat shrink attachment
70-01-55	.5"/12.7mm dia., .75"/19mm wide 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)
ADAPTER	
70-01-14	8.4 tip adapter (4mm dia. x .7 pitchmm)

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



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

Ultratorch® UT-100Si, UT-100SiK & UT-100Si-TC

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



UT-100Si-TC

Ultratorch Professional Kit:

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



70-01-02 tip

80-40

70-35

70-01-52

70-01-55

Hot Knife Tip

UT-100Si-HK

Ultratorch

NEW!

70-01-02
soldering tip

UT-100Si

Ultratorch

70-01-55

70-01-52

80-40

70-35

80-02



Refill with Master Ultratane Butane
for best performance. (page 29)

- Dual function, self-igniting soldering iron and flameless heat tool
- 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
- Self-ignition with push button for fast, easy starting
- 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
- Sturdy metal tank with fuel viewing window holds enough fuel for 2 hours of operation
- Contains everything needed to heat shrink tubing and specialty connectors, remove surface mount components, solder and desolder, repair vinyl, spot dry and cut materials
- Optional accessories available and interchangeable between UT-100 & UT-100Si (See page 21)

MODEL NO.	DESCRIPTION
UT-100Si-TC	Includes Ultratorch, three Ultratip soldering tips: 70-01-02, 70-01-05, 70-01-11, hot air tip: 70-01-52, shrink attachment: 70-01-55, hot knife: 70-01-16, open end wrench, ejector, sponge, cap, solder, wire cutter and needle nose pliers packed in a rugged plastic carrying case
UT-100SiK	Includes Ultratorch, Ultratip soldering tip: 70-01-02, hot air tip: 70-01-52, shrink attachment: 70-01-55, open end wrench, ejector, sponge and steel case
UT-100Si	Includes Ultratorch, Ultratip soldering tip: 70-01-02, hot air tip: 70-01-52, shrink attachment: open end wrench, ejector and cap
UT-100Si-HK	Includes Ultratorch, hot knife: 70-01-16, open end wrench, ejector and cap

See page 21 for more accessories.

Specifications

- Approx. Soldering Tip Temp.: 482° - 932°F (250° - 500°C) n 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 (260mm) ■ 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: 3 lbs. ■ Shipped Empty

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

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 29)
- 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-200Si	Self-igniting, butane-powered soldering iron/heat tool, with soldering tip, hot air tip, shrink attachment and protective cap

See page 24 for more accessories.

Specifications

- Approx. Soldering Tip Temp.: 482° - 986°F (250° - 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 (300mm) ■ Net Weight: 9 oz.
- Shipping Weight: 1 lb. ■ Shipped Empty

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

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 and open end 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 29)
- 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



Solder



Desolder



Torch
(UT-200 only)



Flameless Heat

Ultratorch® UT-300Si

Butane-powered pistol grip soldering iron and flameless heat tool



3 Hour Run Time

- 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 (186mm H x 172mm W)
- Net Weight: 9.9 oz. ■ Shipping Weight: 2 lbs. ■ Shipped Empty

Refill with Master Ultratane Butane (page 29)

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

Soldering Tips



Hot Air Tips



Accessories



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

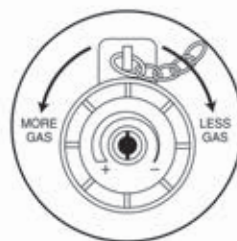
- Oxygen-free, copper based Ultratip® soldering tips have thick iron and chrome plating for long life and high thermal conductivity
- Ultratips are manufactured using a patented process which produces a uniform iron and chrome plating thickness
- Ultratip® soldering tips feature leading-edge combustion 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
ULTRATIP SOLDERING TIPS	
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
HOT AIR TIPS	
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
ACCESSORIES	
72-01-54	1"/25.4mm dia., .1"/25.4mm wide heat shrink attachment (std. UT-300Si)
72-01-55	1.25"/32mm dia., 1.25"/32mm heat shrink attachment (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)
ADAPTER	
72-01-14	Adapter (5mm dia. x 8mm pitch) tip

Microtorch MT-5

Pocket-sized, self-igniting butane-powered microtorch

- Compact pocket size, 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 29)
- 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	Microtorch, pocket-sized

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 MT-11 & MT-11K

Palm-sized microtorch

- 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) (page 29)
- 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	Microtorch, palm-sized, shipped without fuel
MT-11K	Microtorch with 15/16 oz. can of butane (10448)

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 MT-30

Low profile, table-top microtorch with stable base



CE



- 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
- Large capacity fuel tank for 60-minute continuous run time on full charge
- Adjustable broad or pinpoint flame with temperatures up to 2500°F/1300°C
- Refill with Master Ultratane Butane for best performance (page 29)
- Use for laboratory applications, to heat materials, shrink tubing, terminate specialty connectors, work with silver wire, add patina to copper jewelry, as a pinpoint torch and more

MODEL NO.	DESCRIPTION
MT-30	Microtorch, low profile table-top

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 MT-70 & MT-70P

Self-igniting butane powered microtorch, soldering iron, heat tool



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

- Gas adjustment wheel provides adjustable, long blue torch flame with temperatures up to 2500°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 29)
- 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

MODEL NO.	DESCRIPTION
MT-70	Triggertorch, mini, table-top
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.
- MT-70P Shipping Weight: 2 lbs. ■ Shipped Empty

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

Hand-held or table-top butane-powered microtorch

- Built-in self-igniting system with safety lock
- "Hands-free" slide lock for continuous use and instant off operation
- Durable self-contained, refillable plastic fuel tank
- Wide, stable base is perfect for hands-free use
- Temperatures 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 29)
- 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 ships via ground transportation with no Hazmat charges



MT-51B
Included butane canister provides three fuel refills

Butane 10448



MT-51



MODEL NO.	DESCRIPTION
MT-51	Microtorch, table-top
MT-51B	Microtorch, table-top with ¹⁵ / ₁₆ 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.



MT-51H

Includes Hot Air Tip & Heat Reflector for heat shrink applications

Hot Air Tip 35387

Heat Shrink Attachment 35394



Heat Shrinking

Triggertorch™ MT-76 & MT-76K

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



MT-76K, 4 tools in 1

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

- Gas adjustment wheel provides adjustable, long blue torch flame with temperatures up to 2500°F/1300°C
- Self-igniting piezo electric ignition is easy to start and eliminates the need for lighter or matches
- 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
- 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 lead free 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
- Durable self-contained, refillable plastic fuel tank with capacity for 2 hour run time
- Refill with Master Ultratane Butane for best performance (page 29)
- Use to heat parts, ignite materials, melt plastic, shrink tubing, solder & desolder, terminate specialty connectors and more



Solder



Flameless Hot Air



2 Hour Run Time



Soldering 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 kit 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, lead free 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: 8 oz. ■ Shipping Weight Tool: 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 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 or matches
- Large capacity, built-in, durable, metal fuel tank for 30-minute continuous run time on 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
- Removable base for table-top or hand-held use
- 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

- 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 three convenient sizes: 5 1/8 oz. (145 gram), 3 3/4 oz. (106 gram), and 15/16 oz. (26 gram) canisters
- Model 10448 and 11799 meet Limited Quantity Class Markings and can ship via ground transportation without hazardous material charges
- Model 51773 has proper D.O.T. markings and ships via ground transportation with hazardous material charges

MODEL NO.	DESCRIPTION
51773	5 1/8 oz. (145 gram) canister with universal tip adapter
11799	3 3/4 oz. (106 gram) canister with universal tip adapter
10448	15/16 oz. (26 gram) canister with universal tip adapter

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



51773
5 1/8 oz.



11799
3 3/4 oz.



10448
15/16 oz.

PortaPro® Glue Gun

Cordless, butane-powered hotmelt glue gun



GG-100 PortaPro Glue Gun

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

- 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 29)
- 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 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
- 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: 2 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.



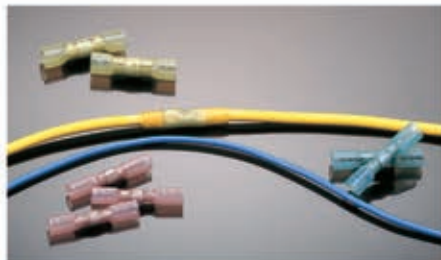
35411 Spreader Extension Tip
7.6mm(L) x 6.6mm(W)
0.50mm I.D. slot

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

Sealed Electrical Systems

Environmentally sealed connections create permanent repairs

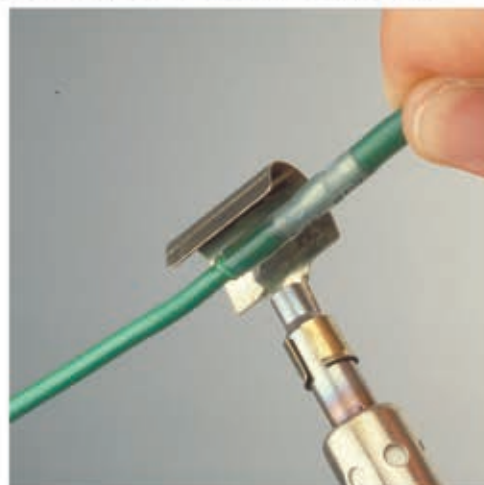
- Heavy Duty Trucking
- Marine & RV
- Plant Maintenance Departments
- OEM & Automotive Aftermarket
- Heavy Duty Equipment
- Oil Fields & Mining
- Municipalities & Military Bases



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, contaminants 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 contaminants
Resist wire pull out & current leakage

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

Proseal™

Crimp and heat-seal connectors

Solderseal™

Solder & heat-seal connectors

Multiseal™

Crimp, solder & heat-seal connectors

Proseal™ Connector Assortment 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 - Proseal Butt Splice Connector Minipack

Butt Connectors	Description AWG	Kit Qty	Refill Pack	
			10 pcs	50 pcs
	20-18 Butt Connector, Red	20	10932	10666
	16-14 Butt Connector, Blue	20	10934	10667
	12-10 Butt Connector, Yellow	5	10936	10668

3 items & 45 pieces

10600 Assortment Proseal Connector Kit

	Description AWG	Kit Qty	Refill Pack	
			10 pcs	50 pcs
Ring Terminals	20-18 #6 Stud, Red	5	10906	10658
	20-18 #10 Stud, Red	5	10908	10659
	16-14 #8 Stud, Blue	5	10910	10648
	16-14 #10 Stud, Blue	5	10912	10649
	16-14 1/4" Stud, Blue	5	10914	10650
	16-14 3/8" Stud, Blue	5	10916	10652
	12-10 #8 Stud, Yellow	5	10918	10653
	12-10 #10 Stud, Yellow	5	10920	10654
	12-10 1/4" Stud, Yellow	5	10922	10655
Spade Terminals	20-18 #10 Stud, Red	5	10926	10665
	16-14 #10 Stud, Blue	5	10928	10663
	12-10 #10 Stud, Yellow	5	10930	10664
Butt Connectors	20-18 Butt Connector, Red	10	10932	10666
	16-14 Butt Connector, Blue	10	10934	10667
	12-10 Butt Connector, Yellow	10	10936	10668
Insulated Couplers	20-18 Female, .250 Tab, Red	5	10940	10669
	20-18 Male, .250 Tab, Red	5	10938	10672
	16-14 Female, .250 Tab, Blue	5	10944	10671
	16-14 Male, .250 Tab, Blue	5	10942	10673

20 items and 115 pieces

10723 - Proseal Connector Kit with Tool Slot

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

	Description AWG	Kit Qty	Refill Pack	
			10 pcs	50 pcs
Ring Terminals	20-18 #10 Stud, Red	5	10908	10859
	16-14 #8 Stud, Blue	5	10910	10648
	16-14 #10 Stud, Blue	5	10912	10649
	16-14 1/4" Stud, Blue	5	10914	10650
	16-14 3/8" Stud, Blue	5	10916	10652
	12-10 #10 Stud, Yellow	5	10920	10654
	12-10 3/8" Stud, Yellow	5	10924	10657
Butt Connectors	20-18 Butt Connector, Red	10	10932	10666
	16-14 Butt Connector, Blue	10	10934	10667
	12-10 Butt Connector, Yellow	10	10936	10668
Insulated Couplers	16-14 Female, .250 Tab, Blue	5	10944	10671
	16-14 Male, .250 Tab, Blue	5	10942	10673

12 items and 75 pieces



10054



10600



10723



Crimp barrel inside



10719



Crimp

Mechanical reliability holds wires in place

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
Water absorption:	<0.1%
Corrosion resistance:	Non-corrosive
Fungus Resistance:	Non-nutrient
Water absorption:	<0.1%

Solderseal™ Connector Assortment 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 Minipack

Butt Connectors	Description AWG	Kit Qty	Refill Pack	
			10 pcs	50 pcs
	24-22 Butt Connector, Clear	10	10795	10834
	20-18 Butt Connector, Red	15	10796	10835
	16-14 Butt Connector, Blue	15	10797	10836
	12-10 Butt Connector, Yellow	15	10798	10837

4 items & 55 pieces

10724 - Solder seal Connector Kit

	Description AWG	Kit Qty	Refill Pack	
			10 pcs	50 pcs
Ring Terminals	20-18 #6 Stud, Red	5	10772	10811
	20-18 #8 Stud, Red	5	10773	10812
	20-18 #10 Stud, Red	5	10774	10813
	20-18 1/4" Stud, Red	5	10775	10814
	16-14 #8 Stud, Blue	5	10779	10818
	16-14 #10 Stud, Blue	5	10780	10819
	16-14 1/4" Stud, Blue	5	10781	10820
	16-14 3/8" Stud, Blue	5	10783	10822
	12-10 #10 Stud, Yellow	5	10784	10823
	12-10 1/4" Stud, Yellow	5	10785	10824
Spade Terminals	20-18 #10 Stud, Red	5	10792	10831
	16-14 #10 Stud, Blue	5	10793	10832
	12-10 #10 Stud, Yellow	5	10794	10833
Butt Connectors	24-22 Butt Connector, Clear	5	10795	10834
	20-18 Butt Connector, Red	10	10796	10835
	16-14 Butt Connector, Blue	10	10797	10836
	12-10 Butt Connector, Yellow	5	10798	10837
Insulated Couplers	20-18 Female .250 Tab, Red	5	10799	10838
	20-18 Male .250 Tab, Red	5	10801	10840
	16-14 Female .250 Tab, Blue	5	10802	10841
	16-14 Male .250 Tab, Blue	5	10804	10843
	12-10 Female .250 Tab, Yellow	5	10805	10844
	12-10 Male .250 Tab, Yellow	5	10807	10846

25 items and 135 pieces

10729 - Solderseal Connector Kit with Tool Slot

10725 - Solderseal Connector Kit with UT-100Si

	Description AWG	Kit Qty	Refill Pack	
			10 pcs	50 pcs
Ring Terminals	20-18 #10 Stud, Red	5	10774	10813
	16-14 #10 Stud, Blue	5	10780	10819
	16-14 1/4" Stud, Blue	5	10781	10820
	16-14 3/8" Stud, Blue	5	10783	10822
	12-10 #10 Stud, Yellow	5	10784	10823
	12-10 3/8" Stud, Yellow	5	10787	10826
Butt Connectors	24-22 Butt Connector, Yellow	10	10795	10834
	20-18 Butt Connector, Red	10	10796	10835
	16-14 Butt Connector, Blue	10	10797	10836
	12-10 Butt Connector, Yellow	10	10798	10837
Insulated Couplers	16-14 Female .250 Tab, Blue	5	10802	10841
	16-14 Male .250 Tab, Blue	5	10804	10843

12 items and 80 pieces



10056



10724

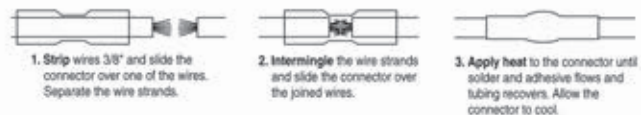


10729



10725

Solder preform inside



Solder

Ultimate tensile strength • Superior conductivity

Seal

Durable insulation • Watertight connection



Cut away of heated solder preform

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

Multiseal™ Connector Assortment 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 Minipack

Butt Connectors	Description AWG	Kit Qty	Refill Pack	
			10 pcs	50 pcs
	20-18 Butt Connector, Red	20	11513	11572
	16-14 Butt Connector, Blue	20	11514	11579
	12-10 Butt Connector, Yellow	10	11515	11567

3 items & 50 pieces

10067 Multiseal Connector Kit

	Description AWG	Kit Qty	Refill Pack	
			10 pcs	50 pcs
Ring Terminals	20-18 #6 Stud, Red	5	11516	11573
	20-18 #10 Stud, Red	5	11525	11576
	16-14 #10 Stud, Blue	5	11518	11568
	16-14 1/4" Stud, Blue	5	11519	11574
	16-14 3/8" Stud, Blue	5	11520	11581
	12-10 #10" Stud, Yellow	5	11521	11569
	12-10 1/4" Stud, Yellow	5	11523	11582
	12-10 3/8" Stud, Yellow	5	11524	11570
Spade Terminals	20-18 #10 Stud, Red	5	11517	11580
	16-14 #10 Stud, Blue	5	11526	11583
	12-10 #10 Stud, Yellow	5	11527	11571
Butt Connectors	24-22 Butt Connector, Clear	5	11512	11566
	20-18 Butt Connector, Red	10	11513	11572
	16-14 Butt Connector, Blue	15	11514	11579
	12-10 Butt Connector, Yellow	10	11515	11567
Insulated Couplers	20-18 Female, .250 Tab, Red	5	11528	11577
	20-18 Male, .250 Tab, Red	5	11529	11578
	16-14 Female, .250 Tab, Blue	5	11530	11584
	16-14 Male, .250 Tab, Blue	5	11531	11585

20 items and 120 pieces

10066 - Multiseal Connector Kit with Tool Slot

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

	Description AWG	Kit Qty	Refill Pack	
			10 pcs	50 pcs
Ring Terminals	18-20 #10 Stud, Red	5	11525	11576
	14-16 #10 Stud, Blue	5	11518	11568
	14-16 1/4" Stud, Blue	5	11519	11574
	14-16 3/8" Stud, Blue	5	11520	11581
	10-12 #10 Stud, Yellow	5	11521	11569
	10-12 1/4" Stud, Yellow	5	11523	11582
Butt Connectors	22-23 Butt Connector, Clear	10	11512	11566
	14-16 Butt Connector, Red	10	11513	11572
	10-12 Butt Connector, Blue	10	11514	11579
	10-12 Butt Connector, Yellow	10	11515	11567
Insulated Couplers	18-20 Female, .250 Tab, Red	5	11528	11577
	18-20 Male, .250 Tab, Red	5	11529	11578
	14-16 Female, .250 Tab, Blue	5	11530	11584
	14-16 Male, .250 Tab, Blue	5	11531	11585

14 items and 90 pieces

10058



10067



10066



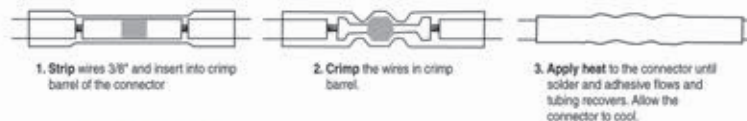
10068



Crimp barrel inside



Solder preform inside



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%

Heat-Shrink Tubing Assortment 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 contaminants



10063



10065



10064

10063 Flexible Adhesive-Lined Shrink Tubing Minipack

Flexible Shrink Tubing	Description	Kit Qty	Refill 8 pcs
	1/8" pre-shrink I.D., 6" length, Black	5	11620
	1/4" pre-shrink I.D., 6" length, Black	5	11626
	3/8" pre-shrink I.D., 6" length, Black	5	11629
	1/2" pre-shrink I.D., 6" length, Black	4	11632
	3/4" pre-shrink I.D., 6" length, Black	3	11635
	1" pre-shrink I.D., 6" length, Black	2	11638

6 items and 24 pieces

10064 Flexible Adhesive-Lined Shrink Tubing Kit

Flexible Shrink Tubing	Description	Kit Qty	Refill 8 pcs
	1/8" pre-shrink I.D., 6" length, Black	5	11620
	1/8" pre-shrink I.D., 6" length, Clear	3	11621
	1/8" pre-shrink I.D., 6" length, Red	3	11622
	3/16" pre-shrink I.D., 6" length, Black	5	11623
	3/16" pre-shrink I.D., 6" length, Clear	2	11624
	3/16" pre-shrink I.D., 6" length, Red	2	11625
	1/4" pre-shrink I.D., 6" length, Black	5	11626
	1/4" pre-shrink I.D., 6" length, Clear	2	11627
	1/4" pre-shrink I.D., 6" length, Red	2	11628
	3/8" pre-shrink I.D., 6" length, Black	5	11629
	3/8" pre-shrink I.D., 6" length, Clear	2	11630
	3/8" pre-shrink I.D., 6" length, Red	2	11631
	1/2" pre-shrink I.D., 6" length, Black	3	11632
	1/2" pre-shrink I.D., 6" length, Clear	2	11633
	1/2" pre-shrink I.D., 6" length, Red	2	11634
	3/4" pre-shrink I.D., 6" length, Black	1	11635
	3/4" pre-shrink I.D., 6" length, Clear	1	11636
	3/4" pre-shrink I.D., 6" length, Red	1	11637



18 items and 48 pieces

10065 Flexible Adhesive-Lined Shrink Tubing Kit

Flexible Shrink Tubing	Description	Kit Qty	Refill 8 pcs
	1/8" pre-shrink I.D., 6" length, Black	10	11620
	1/8" pre-shrink I.D., 6" length, Clear	10	11621
	3/16" pre-shrink I.D., 6" length, Black	8	11623
	3/16" pre-shrink I.D., 6" length, Clear	8	11624
	1/4" pre-shrink I.D., 6" length, Black	6	11626
	1/4" pre-shrink I.D., 6" length, Clear	6	11627
	3/8" pre-shrink I.D., 6" length, Black	4	11629
	3/8" pre-shrink I.D., 6" length, Clear	4	11630
	1/2" pre-shrink I.D., 6" length, Black	3	11632
	1/2" pre-shrink I.D., 6" length, Clear	3	11633
	3/4" pre-shrink I.D., 6" length, Black	2	11635
	3/4" pre-shrink I.D., 6" length, Clear	2	11636

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 Minipack

Flexible Shrink Tubing	Description	Kit Qty	Refill 10 pcs
	3/16" pre-shrink I.D., 6" length, Black	5	11601
	3/16" pre-shrink I.D., 6" length, Red	5	11602
	1/4" pre-shrink I.D., 6" length, Black	5	11603
	1/4" pre-shrink I.D., 6" length, Blue	5	11604
	3/8" pre-shrink I.D., 6" length, Black	5	11605
	3/8" pre-shrink I.D., 6" length, Yellow	5	11606
	1/2" pre-shrink I.D., 6" length, Black	4	11607
	3/4" pre-shrink I.D., 6" length, Black	3	11608
	1" pre-shrink I.D., 6" length, Black	2	11609

9 items and 39 pieces

10062 Thin Wall Flexible Shrink Tubing Kit

Flexible Shrink Tubing	Description	Kit Qty	Refill 10 pcs
	3/16" pre-shrink I.D., 6" length, Black	20	11601
	3/16" pre-shrink I.D., 6" length, Red	15	11602
	1/4" pre-shrink I.D., 6" length, Black	20	11603
	1/4" pre-shrink I.D., 6" length, Blue	10	11604
	3/8" pre-shrink I.D., 6" length, Black	10	11605
	3/8" pre-shrink I.D., 6" length, Yellow	10	11606
	1/2" pre-shrink I.D., 6" length, Black	10	11607
	3/4" pre-shrink I.D., 6" length, Black	5	11608
	1" pre-shrink I.D., 6" length, Black	3	11609

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



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.

Part Number	Description	Std.Pack
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



35083

MODEL NO.	DESCRIPTION
35083	Cutter, Stripper, Crimper

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



35084

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

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, soldering tips, hot air 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.

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.

Heat Technology

FACTS ABOUT HEAT

Applied heat technology is the basis of all Master Appliance products. Definitions of some of the basic principles of heat follow:

Heat is the form of kinetic energy which causes a rise in temperature in a body as it is absorbed or a reduction in temperature as it is lost to the environment.

Temperature differential is the driving force of heat energy. The greater the temperature differential between two objects, the greater the flow of heat energy from the higher-temperature object to the cooler object.

BTU's (British Thermal Units) or calories are the units used to measure heat energy. One BTU is equivalent to 252 calories.

Thermal conductivity is the property of a material related to its ability to transfer heat through itself. The higher the thermal conductivity of a material, the greater the heat transfer rate. In general, metals have higher thermal conductivities than insulators. Copper and aluminum have higher thermal conductivities than steel, while steel has a higher thermal conductivity than wood or plastics.

The heat transfer rate is the quantity of heat energy flowing per unit of time through an object. It can be measured in BTU's per minute or by calories per second flowing through a specified area of the object.

COMMON MODES OF HEAT TRANSFER

- **Convection** – employing a heated fluid such as air to convey heat from the source to the object being heated. Master Heat guns are an example of applied convection.
- **Conduction** – heat transfer within an object. Ultratorches, in the soldering mode, are an example of applied conduction.
- **Radiation** – heat transfer employing electromagnetic waves similar to light or radio wave. This method does not require the presence of solids, liquids, or gases to transmit heat energy. The sun is the best example of radiant heat.

Convection Heat/Hot Air

Most Master heat tools use the convection principle to provide hot air for many different applications and processes.

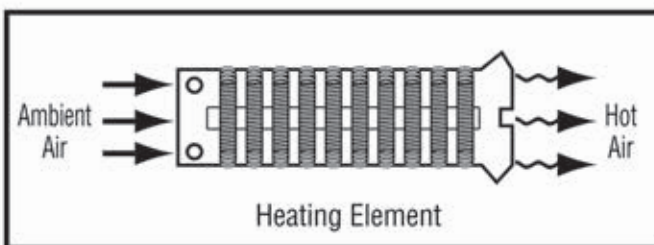
Hot air is particularly well suited for use in a wide variety of applications and processes throughout industry.

The appropriate Master heat tool is selected depending on the airflow and temperature characteristics needed to do the job. Temperature is controlled by selecting a proper model or by using one of our variable temperature units. Air flow is determined by the unit selected, its outlet configuration and by the use of specially designed attachments if required.

How Master Heat Tools Work

Air is forced through (or over) an electric heating element. In the process, heat energy is transferred from the heating element to the air.

Most Master heat tools use a self-contained motor-driven fan to supply the air which is then passed over an electric heating element.



Temperature Conversion Formulas
 $^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$ $^{\circ}\text{F} = 9/5 (^{\circ}\text{C} + 32)$

FAHRENHEIT TO CENTIGRADE CONVERSION TABLE															
F	C	F	C	F	C	F	C	F	C	F	C	F	C	F	C
-58	-50	167	75	392	200	617	325	842	450	1067	575	1292	700	1517	825
-49	-45	176	80	401	205	626	330	851	455	1076	580	1301	705	1526	830
-40	-40	185	85	410	210	635	335	860	460	1085	585	1310	710	1535	835
-31	-35	194	90	419	215	644	340	869	465	1094	590	1319	715	1544	840
-22	-30	203	95	428	220	653	345	878	470	1103	595	1328	720	1553	845
-13	-25	212	100	437	225	662	350	887	475	1112	600	1337	725	1562	850
-4	-20	221	105	446	230	671	355	896	480	1121	605	1346	730	1571	855
5	-15	230	110	455	235	680	360	905	485	1130	610	1355	735	1580	860
14	-10	239	115	464	240	689	365	914	490	1139	615	1364	740	1589	865
23	-5	248	120	473	245	698	370	923	495	1148	620	1373	745	1598	870
32	0	257	125	482	250	707	375	932	500	1157	625	1382	750	1607	875
41	5	266	130	491	255	716	380	941	505	1165	630	1391	755	1616	880
50	10	275	135	500	260	725	385	950	510	1175	635	1400	760	1625	885
59	15	284	140	509	265	734	390	959	515	1184	640	1409	765	1634	890
68	20	293	145	518	270	743	395	968	520	1193	645	1418	770	1643	895
77	25	302	150	527	275	752	400	977	525	1202	650	1427	775	1652	900
86	30	311	155	536	280	761	405	986	530	1211	655	1436	780	1661	905
95	35	320	160	545	285	770	410	995	535	1220	660	1445	785	1670	910
104	40	329	165	554	290	779	415	1004	540	1229	665	1454	790	1679	915
113	45	338	170	563	295	788	420	1013	545	1238	670	1463	795	1688	920
122	50	347	175	572	300	797	425	1022	550	1247	675	1472	800	1697	925
131	55	356	180	581	305	806	430	1031	555	1256	680	1481	805	1706	930
140	60	365	185	590	310	815	435	1040	560	1265	685	1490	810	1715	935
149	65	374	190	599	315	824	440	1049	565	1274	690	1499	815	1724	940
158	70	383	195	608	320	833	445	1058	570	1283	695	1508	820	1733	945

TABLE OF VALUES FOR INTERPOLATION AND ABOVE					
1 C = 1.8 F	4 C = 7.2 F	7 C = 12.6 F	1 F = 0.55 C	4 F = 2.22 C	7 F = 3.88 C
2 C = 3.6 F	5 C = 9.0 F	8 C = 14.4 F	2 F = 1.11 C	5 F = 2.77 C	8 F = 4.44 C
3 C = 5.4 F	6 C = 10.8 F	9 C = 16.2 F	3 F = 1.66 C	6 F = 3.33 C	9 F = 5.00 C

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.

As a leader 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 and 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
- Solder and desolder
- 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[®] APPLIANCE

Designers and Manufacturers of Heat Tools for Industry

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