

## Model: 10577

### HIGH CAPACITY RESISTANCE BRAZING SYSTEM



American Beauty offers the most advanced and complete line of resistance soldering systems available anywhere in the world. Here are just a few of the advantages that you will find with resistance soldering systems:

- **Smash Operational Bottlenecks** - Concentrated heat reduces solder time many times over.
  - **Improve Solder Joint Quality** - Poor solder joints are often the result of insufficient heat throughout the joint, creating weak spots.
  - **Eliminate Thermal Damage** - Traditional soldering methods introduce too much heat into surrounding areas damaging critical components or desoldering of previously soldered joints.
  - **Reduce Liability** - Light-weight handpieces cool within seconds greatly reducing likelihood of repetitive strain injury and virtually eliminating the burn risk for the user.
  - **Solder in Tight Spots** - Versatile systems allow easy access to restricted areas.
  - **Cut down on Energy Consumption** - Instant heat means you're not paying to heat a soldering station all day long.
  - **Save on Maintenance and Consumables** - Electrodes last twice as long as soldering tips and don't require constant rewetting.
- Stop trying to perform your difficult soldering operation the same old way with the same old tools. Try an American Beauty Resistance Soldering System today.

#### ACCESSORIES

The following products can be used as Accessories for Model 10577 featured on this page:

Model	Product Name
10536	.5" Probe Style Handpiece
10537	Lead for Return Current w. Heavy-Duty C Clamp
10564	Resistance Brazing Electrodes
10566	Carbon Block Electrodes for Resistance Soldering
10588	.5" Dual Probe Style Handpiece
105HCPTM	High Capacity Precision Timer Module

#### FEATURES AND BENEFITS

**3,000 Watt (10.1 VAC) of Power** with 3 settings is the highest output unit we offer and is rated to sweat-solder thin wall copper tubing up to approximately 3" dia. and braze similar materials up to approximately 5/8" dia.

**Heavy-Duty Plier Style Handpiece** offers a good compromise between handpiece weight and longevity. The ability to change the electrode angle increases the overall versatility.

**Carbon block electrodes** can be easily notched/shaped, allowing the user to customize the handpiece to their specific application.

**Footswitch** permits hands-free activation of power, vastly improving control of your applications and virtually eliminating the sparking that is common with other brands of resistance based systems.

#### REPLACEMENT PARTS

The following products can be used as replacements for Model 10577 featured on this page:

Model	Product Name
10519HW	High-Wattage Footswitch
10565	Concave Carbon Block Electrodes for Resistance Soldering
10587	Heavy-Duty Plier Style Handpiece
105D1	3,000 Watt High Capacity Resistance Soldering Power Unit

## TECHNICAL SPECIFICATIONS

Connection Type	Ring Terminals
Wattage	3000 watts
Opening between Electrodes	3 in / 7.62 cm
Electrode Size/Diameter	.50 in / 1.27 cm
Available in a 220-240 VAC?	Yes, available upon request
Product Length	12.75 in / 32.39 cm
Product Width	12.50 in / 31.75 cm
Product Height	14.00 in / 35.56 cm
Package Weight	70.50 lbs / 31.98 kg
Country of Origin	US
Harmonization Code:	8515.11.0000
Cage Code	02105
RoHS Compliant	Yes
BS EN IEC 60335-1:2023+A11:2023	Yes
BS EN IEC 61558-2-6 2001, UL 5085-3 2022	Yes
BS EN 60335-2-45:2002+A11:2023	Yes
WEEE Compliant	Yes
CE Certified	Yes
Warranty Policy	Details
User Manual	User Manual

## SIMILAR PRODUCTS

The following products are related (similar model but different specifications, etc.) to Model 10577 featured on this page:

Model	Product Name
10505	Ultra-High Capacity Plier-Style Resistance Soldering System
10557	Resistance Brazing System
105U9	Probe-Style Resistance Brazing System

## APPLICATIONS

Users of this product have stated that they use it for several jobs which include but are not limited to:

1. Soldering thin wall copper pipe from 1/4" up to 3" Diameter
2. Soldering terminations for battery cable assembly
3. Brazing thin wall copper tubing up to 3/8"
4. Soldering power cable assemblies
5. Brazing repairs for Refrigeration Sealed System
6. Soldering connect rings around propellor
7. Brazing applications for **aircraft** repairs.
8. Cutting high-tension guide cables
9. Brazing DC Motor winding connections

## END-OF-LIFE INSTRUCTIONS

In an effort to reduce waste and comply with WEEE directive, please do not dispose of product. All American Beauty Tools are serviceable and can be repaired and/or replaced. Please contact manufacturer to make arrangements.