



American Hakko Products, Inc.

PRODUCT BULLETIN

Bulletin No: PB459

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Description/Title:


New HAKKO FX-805 Ultra Heavy-Duty Soldering Station and T37 Series Soldering Tips

Part No:

FX805-03, T37-BC3045, T37-BC4060, T37-BC5075, T37-BC6090, T37-BC70105, T37-BCR4, T37-D24, T37-D32, T37-D5, T37-D6, T37-D10, T37-DR3, T37-DR1632, FX8004-81, FX8005-81, B5316, B5317



Specification:

| | |
|------------------------------|---|
| Model | FX-805 |
| Part No. | FX805-03 |
| Input Voltage | 120 VAC 50/60 Hz |
| Power Consumption | 460W |
| Temperature Range | 50°C – 500°C (120°F – 940°F) |
| Temperature Stability | ±5°C (±9°F) at idle |
| ESD Safe | Yes |
| Safety Approval |  |

Contents

| Part No. | Description |
|------------------|--|
| -- | FX-805 UHD Soldering Station |
| FX8004-81 | FX-8004 Soldering Handpiece |
| FH220-82 | FH-220 Holder Includes: • A1561 Tip Cleaner • A5038 Cleaning Sponge |
| AF5000 | Intake Air Filter |
| B2419 | Power Cord |
| B5129 | USB Cable,1m |
| -- | Instruction Manual |
| -- | CD-ROM w/HAKKO Control Software |

Specifications (continued):

Station

| | |
|------------------------------------|---|
| Output Voltage | 30 V |
| Outer Dimension (W x H x D) | 143 x 107 x 218 mm (5.6 x 4.2 x 8.6 in.) |
| Weight (w/o Cord) | 3.9 kg (8.6 lb.) |

Handpiece

| | |
|--|--------------------------|
| Model | FX-8004 |
| Part No. | FX8004-81 |
| Power Consumption | 390W (30V) |
| Tip-to-Ground Resistance | < 2 ohms |
| Tip-to-Ground Potential | < 2 mV |
| Heater | HAKKO Composite Ceramic™ |
| Tips¹ | T37 Series |
| Cord Length | 1.2 m (3.9 ft.) |
| Total Length (w/o Cord)² | 244 mm (9.6 in.) |
| Weight (w/o Cord)² | 54 g (1.9 oz.) |

¹Tips not included

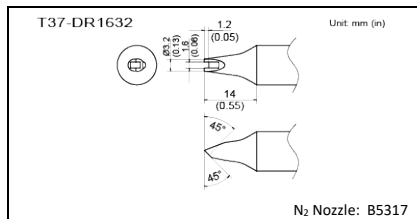
²As measured with T37-D24 Tip installed

T37 Series Tips

| | | |
|--|---|--|
| <p>T37-BC3045 Unit: mm (in)</p> <p>N₂ Nozzle: B5317</p> | <p>T37-BC4060 Unit: mm (in)</p> <p>N₂ Nozzle: B5316</p> | <p>T37-BC5075 Unit: mm (in)</p> <p>N₂ Nozzle: B5316</p> |
| <p>T37-BC6090 Unit: mm (in)</p> <p>N₂ Nozzle: B5316</p> | <p>T37-BC70105 Unit: mm (in)</p> <p>N₂ Nozzle: B5316</p> | <p>T37-BCR4 Unit: mm (in)</p> <p>N₂ Nozzle: B5316</p> |
| <p>T37-D24 Unit: mm (in)</p> <p>N₂ Nozzle: B5317</p> | <p>T37-D32 Unit: mm (in)</p> <p>N₂ Nozzle: B5316</p> | <p>T37-D5 Unit: mm (in)</p> <p>N₂ Nozzle: B5316</p> |
| <p>T37-D6 Unit: mm (in)</p> <p>N₂ Nozzle: B5316</p> | <p>T37-D10 Unit: mm (in)</p> <p>N₂ Nozzle: B5316</p> | <p>T37-DR3 Unit: mm (in)</p> <p>N₂ Nozzle: B5317</p> |

Specifications (continued):

T37 Series Tips (Continued)



Comments:

The HAKKO FX-805 Ultra Heavy-Duty (UHD) Soldering Station is specially designed for the difficult soldering of extremely large mass components such as high current inductor coils, heat sinks, large transformers, shields, and other connections where there is a significant amount of thermal inertia that must be overcome.

The station uses new T37 Series Tips that feature 390W HAKKO Composite Ceramic™ heating elements that have a top controlled temperature of 500°C (940°F) and high mass shapes. This combination allows for soldering some of the most challenging solder joints at only 400°C (750°F) even without preheating! Like other HAKKO soldering stations, the quality and construction of HAKKO brand tips lend the renowned reputation for long tip life to this new series of massive soldering iron tips. The station is also backward compatible with existing T33 Series and T33 Slim Series tips.

It also includes the same features as the previous model including normal and power operating modes, up to 6 user programmable preset temperatures, automatic shut-off for safety if the unit is left on by accident, and process control lockout with password protection to ensure that only the appropriate soldering iron temperatures are being used and avoids inadvertent changes to the system. The FX-805 comes with the standard FX-8004 Soldering Handpiece. An optional FX-8005 Nitrogen Compatible Soldering Handpiece is also available and requires the use of nozzles that are specific to the tip shape being used.

New to the HAKKO FX-805 are:

- New large and easy to read backlit LCD display
- New wireless sleep mode which eliminates the connecting cable between the station and iron holder
- New robust iron holder that includes a feature to safely change a tip without having to use a heat resistant pad and touch the tip and easier access to the replace the brass wire tip cleaner
- New IR communication port that supports automatic offset with the FG-100B Tip Thermometer and FG-101B System Tester
- New USB port and HAKKO Control Software that provides computer setup and control of the soldering station and data acquisition, including calibration data.