



REWORK SYSTEMS

SOLDERING & REWORK SYSTEMS

ST 65, ST 75 & ST 115 POWER SUPPLIES

ST 65

The ST 65 is a single channel, dial control power supply that is compatible with all IntelliHeat handpieces and comes as a system with the new SX-90 Sodr-X-Tractor or as a Power Source only. Featuring a powerful multistage venturi that is powered by your compressed air source, the ST 65 is ideal for application where continuous vacuum or pressure is required. An N₂ source can be connected to create an inert gas reflow environment when using an N₂ capable soldering iron. The heavy-duty, durable metal housing ensures years of service and the sloped face of the front panel is a standard feature for ease of use. An optional mounting bracket (P/N 1321-0609-P1) is available to mount the system under a work-bench or shelf, preserving precious bench top space. N₂ capable soldering iron.

Features

- IntelliHeat Control Technology
- Dial control
- °C/°F Temperature Scales
- Temperature lockout
- Patented Snap-Vac Technology
- ESD grounding jack
- ESD Safe metal housing
- Stackable
- Can be mounted under workbench or shelf with optional bracket 1321-0609-P1



The ST 75 and ST 115 are ideal for users having to deal with wide ranges of applications. With these systems, you can solder, desolder, remove components with a variety of tweezers and thermo-piks, as well as make use of the high performance, foot pedal activated, air pencil. The systems come standard with PACE's patented SNAPVAC desoldering technology to ensure quick, clean removal of solder from any through-hole joint. The Hi-Flo pump is so powerful that you won't lose vacuum in continuous use applications when removing residual/excess solder from surface mount leads. The new, high resolution pressure control valve delivers the widest range of adjustable airflow available on the market today. So if you're using the new TJ-85 to reflow a PLCC or an 0201 resistor, you always have the precise level of control that you need to get the job done right!

ST 75

A single channel, dial control power supply, the ST 75 is compatible with all IntelliHeat handpieces and comes as a system with the new SX-90 or as a Power Source only. The ST 75 improves quality, reduces costs and eliminates the maintenance and calibration hassles associated with other systems. The heavy-duty, durable metal housing ensures years of service and the sloped face of the front panel is a standard feature for ease of use.

Features

- IntelliHeat Control Technology
- Dial control
- °C/°F Temperature Scales
- Temperature lockout
- Hi-Flo Pump
- Patented Snap-Vac Technology
- ESD grounding jack
- ESD Safe metal housing
- Stackable



ST 115

A single channel, dial control power supply, the ST 115 is compatible with all IntelliHeat handpieces and comes as a system with the new SX-90 or as a Power Source only. The programmable features of the ST 115 cannot be found anywhere on similarly priced systems! The ST 115 improves quality, reduces costs and eliminates the maintenance and calibration hassles associated with other systems. The heavy-duty, durable metal housing ensures years of service and the sloped face of the front panel is a standard feature for ease of use.

Features

- IntelliHeat Control Technology
- Digital Display & Keypad
- °C/°F display options
- Password lockout
- Temperature Setback
- Auto-Off
- User defined operating temperature range
- Hi-Flo Pump
- Patented Snap-Vac Technology
- ESD grounding jack
- ESD Safe metal housing
- Stackable





PACE REWORK AND REPAIR

ST SYSTEM SPECIFICATIONS

| SPECIFICATIONS | ST 25 | ST 30 | ST 50 | ST 70 | ST 100 |
|--------------------------------|--|--|-------------|--|---------------------------------|
| System with TD-100 115v | N/A | 8007-0499 | 8007-0500 | 8007-0504 | 8007-0525 |
| System with PS-90 115v | 8007-0528 | N/A | N/A | N/A | N/A |
| Power Source Only 115v | 8007-0529 | 8007-0497 | 8007-0501 | 8007-0505 | 8007-0524 |
| System with TD-100 230v | N/A | 8007-0512 | 8007-0514 | 8007-0518 | 8007-0527 |
| System with PS-90 230v | 8007-0510 | N/A | N/A | N/A | N/A |
| Power Source Only 230v | 8007-0511 | 8007-0513 | 8007-0515 | 8007-0519 | 8007-0526 |
| Power Requirements | 97-127 VAC, 50/60 Hz, 90 Watts max. 197-253 VAC, 50/60 Hz, 90 Watts max. | | | | |
| Dimensions | 104mm H x 130mm W x 152mm D (4.1" H x 5.1" W x 6.0" D) | | | 135mm H x 165mm W x 260mm D (5.3" H x 6.5" W x 9.25" D) | |
| Weight | 2.3 Kg (5 lbs.) | | | 5 Kg (11 lbs.) | |
| Control | Dial | Dial | LED Display | Power Module | LED Display & Keypad |
| Control Technology | SensaTemp | | IntelliHeat | | |
| Tip to Ground Resistance | 2 ohms or less | | | | |
| Temperature Accuracy | Meets or exceeds ANSI-I-STD | | | N/A | Meets or exceeds ANSI-I-STD 001 |
| Absolute Temperature Stability | ± 1.1 °C (± 2 °F) at idle tip temp. | | | | |
| Temperature Range | 176 °C to 482 °C (350 ° to 900 °F) | Tip Heater Cartridge Technology Handpieces = 205° to 454°C (400° to 850°F) SensaTemp Technology Handpieces = 176° (Dial) or 37°C (Digital Display) to 482°C (350° (Dial) or 100° (Digital Display) to 900°F) | | | |
| System Can be Calibrated | Yes | | | | |

| SPECIFICATIONS | ST 65 | ST 75 | ST 115 |
|--------------------------------|--|---|-------------|
| System 115v | 8007-0502 | 8007-0506 | 8007-0508 |
| Power Source Only 115v | 8007-0503 | 8007-0507 | 8007-0509 |
| System 230v | 8007-0516 | 8007-0520 | 8007-0522 |
| Power Source Only 230v | 8007-0517 | 8007-0521 | 8007-0523 |
| Power Requirements | 97-127 VAC, 50/60 Hz, 90 Watts max. 197-253 VAC, 50/60 Hz, 90 Watts max. | 97-127 VAC, 50/60 Hz, 120 Watts max. 197-253 VAC, 50/60 Hz, 120 Watts max. | |
| Dimensions | 104mm H x 130mm W x 152mm D (4.1" H x 5.1" W x 6.0" D) | 88mm H x 171mm W x 254mm D (3.5" H x 6.75" W x 10" D) | |
| Weight | 2.3 Kg (5 lbs.) | 4 Kg (9 lbs.) | |
| Control | Dial | Dial | LED Display |
| Control Technology | IntelliHeat | | |
| Tip to Ground Resistance | 2 ohms or less | | |
| Temperature Accuracy | Meets or exceeds ANSI-I-STD | | |
| Absolute Temperature Stability | ± 1.1 °C (± 2 °F) at idle tip temp. | | |
| Temperature Range | Tip Heater Cartridge Technology Handpieces = 205° to 454°C (400° to 850°F) SensaTemp Technology Handpieces = 176° (Dial) or 37°C (Digital Display) to 482°C (350° (Dial) or 100° (Digital Display) to 900°F) | Tip Heater Cartridge Compatible Handpieces = 232° to 454°C (450° to 850°F) nominal SensaTemp Compatible Handpieces = 176° to 482°C (350° to 900°F) nominal | |
| System Can be Calibrated | Yes | | |
| Vacuum/Pressure Source Type | Compressed Air Powered Venturi | Self Contained Pump | |
| Vacuum Rise Time | 150 ms Average | | |
| Vacuum (Nominal) | 20 in Hg max | | |
| Flow Control Valve | Coarse Adjustment | High Precision Needle Valve | |
| Pressure (Nominal) | 18 p.s.i. max | | |
| Air Flow (Nominal) | 8 slpm max | | |

INTELLIHEAT COMPATIBLE HANDPIECES

VERSATILITY, PERFORMANCE AND VALUE

SENSATEMP HANDPIECES

PS-90 UNIVERSAL SOLDERING IRON



The Universal Soldering Iron (**PS-90**) is ideal for most soldering applications and SMT rework operations where high thermal capacity and flexibility are required. The PS-90 features a rugged plug in heater with gold contacts. There are 15 single point soldering tips and over 10 surface mount removal tips available for the PS-90.

See Pages 23-24 for tip selection

SX-90 SODR-X-TRACTOR®



The best performing, in-line, vacuum desoldering tool (**SX-90 Sodr-X-Tractor®**) is ideal for Thru-Hole desoldering when fitted with SX-90 Desoldering tips and for SMT land clean-up when fitted with SX-90 Flo-D-Sodr® tips. SX-90 Desoldering tips are the longest lasting, best performing soldering tips on the market! The SX-90 features a unique solder collection system that can utilize disposable Flux/Solder traps or a reusable glass collection chamber. An operator replaceable plug-in heater cartridge that can be changed in seconds is standard. There is a wide range of standard and precision SX-90 Desoldering tips for when access is tight!

See Page 25 for tip selection.

TT-65 THERMOTWEEZ®



The most versatile and only patented SMT removal tool (**TT-65 ThermoTweez®**) provides safe, one-handed, rapid reflow and component removal of PLCCs and other 4 or 2 sided SMT components. Unlike other methods, its high thermal capacity and targeted heat delivery remove even the largest SMDs in just seconds without damaging the PCB or risking of adjacent component reflow; even on heavy assemblies. The patented vertically oriented handpiece and a wide variety of quick-change, slim-line tips easily reach into the tightest spaces for fast, safe component removal. The TT-65 also features a patented "stroke" adjustment to reduce hand fatigue for repetitive operations. **See Page 26** for tip selection.

TJ-85 THERMOJET®



When the precise application of hot air is required, our slim line air pencil (**TJ-85 ThermoJet®**) is ideal for delivering heat for the installation and removal of chip components, SOTs, and SOICs. Multiple quick-change nozzle sizes are available. The handpiece's slim line, pencil grip design maximizes operator comfort and control. The TJ-85's airflow is actuated with a foot pedal. Ideal for the precise application of hot air for large SMDs down to 0201s.

See Page 26 for nozzle selection.





HANDPIECE & POWER SOURCE CHARTS

Part Number includes handpiece and standard cubby

| HANDPIECE | DESCRIPTION | PART NUMBERS |
|-----------------------------------|--|--------------|
| TD-100 Thermo-Drive Iron | The most responsive soldering iron available. Uses tip-heater cartridges. | 6993-0263-P1 |
| TD-100 N | A nitrogen compatible version of the TD-100. Requires 6993-0271-P1. | 6993-0272-P1 |
| TD-100 with Instant SetBack Cubby | A kit containing the TD-100 and Instant SetBack Cubby | 6993-0281-P1 |
| MT-100 MiniTweez | Tip-heater cartridge based tweezer for 2 sided SMD removal. | 6993-0264-P1 |
| TP-100 ThermoPik | QFP removal tool with integrated component vacuum pick to lift reflowed component. | 6993-0280-P1 |
| PS-90 Universal Soldering Iron | Our famous High Capacity Soldering Iron for the most demanding applications. | 6993-0267-P1 |
| PS-90 N | A nitrogen compatible version of the PS-90. | 6993-0274-P1 |
| SX-90 Sodr-X-Tractor | The latest innovation in desoldering. Features disposable or reuseable solder traps. | 6993-0266-P1 |
| TT-65 ThermoTweez | High capacity tweezer for large or small SMDs. | 6993-0268-P1 |
| TJ-85 ThermoJet | A foot-pedal activated precision air pencil for the installation or removal of SMDs. | 6993-0270-P1 |
| SX-90 Heat Sleeve | Maintains comfortable temperature in heavy use applications. | 6993-0229-P1 |
| Instant Setback Cubby for TD-100* | Reduces tip temperature when iron is not in use. | 6019-0071-P1 |
| Nitrogen Regulator Accessory | Controls the flow of nitrogen to tip. | 6993-0271-P1 |
| N ₂ Manifold Kit | Connect up to 10 N ₂ irons to a single N ₂ source. | 6993-0277-P1 |

*Does not include Handpiece

CHOOSE THE RIGHT INTELLIHEAT HANDPIECE FOR YOUR APPLICATION

| | Tip Heater Cartridge Technology Handpieces | | | SensaTemp Technology Handpieces | | | |
|---|--|--------------|--------------|---------------------------------|--------------|--------------|--------------|
| | TD-100 | MT-100 | TP-100 | PS-90 | SX-90 | TT-65 | TJ-85 |
| Handpiece Kits (includes handpiece and tool stand) | 6993-0263-P1 6993-0281-P1 | 6993-0264-P1 | 6993-0280-P1 | 6993-0267-P1 | 6993-0266-P1 | 6993-0268-P1 | 6993-0270-P1 |
| Handpiece Only Part Number | 6010-0147-P1 | 6010-0148-P1 | 6010-0158-P1 | 6010-0150-P1 | 6010-0149-P1 | 6010-0151-P1 | 6010-0153-P1 |
| High Cycle Soldering | ✓ | | | ✓ | | | |
| Standard Soldering | ✓ | | | ✓ | | | |
| High Mass Soldering | | | | ✓ | | | |
| Micro Soldering | ✓ | | | | | | |
| Chip Installation | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| Solder Wicking | ✓ | | | ✓ | | | ✓ |
| Thru-Hole Desoldering | | | | | ✓ | | |
| SMT Land Preparation | ✓ | | | ✓ | ✓ | | ✓ |
| Solder Removal from Lands | | | | | ✓ | | |
| Large SMD Removal | | | ✓ | | | ✓ | |
| Standard SMD Removal | ✓ | ✓ | ✓ | ✓ | | ✓ | |
| Micro SMD Removal | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| Large Component Installations* | ✓ | | | ✓ | | | ✓ |
| Standard Component Installations* | ✓ | | | ✓ | | | ✓ |
| Micro Component Installations* | ✓ | | | ✓ | | | ✓ |

*with Solder Paste

INTELLIHEAT POWER SOURCE & HANDPIECE COMPATABILITY

| TIP-HEATER CARTRIDGE HANDPIECES | Power Source Options - ST and MBT Systems | | | | | | | | |
|---------------------------------|---|-------|-------|-------|-------|--------|--------|---------|---------|
| | ST 30 | ST 50 | ST 65 | ST 70 | ST 75 | ST 100 | ST 115 | MBT 301 | MBT 350 |
| • TD-100 | ★ | ★ | ✓ | ★ | ✓ | ★ | ✓ | ★ | ★ |
| • MT-100 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ★ |
| • TP-100 | | | ✓ | | ✓ | | ✓ | ✓ | ✓ |
| SENSATEMP HANDPIECES | ST 30 | ST 50 | ST 65 | ST 70 | ST 75 | ST 100 | ST 115 | MBT 301 | MBT 350 |
| • PS-90 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| • SX-90 | | | ★ | | ★ | | ★ | ★ | ★ |
| • TT-65 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| • TJ-85 | | | | | ✓ | | ✓ | ✓ | ✓ |

✓ = Optional Handpiece ★ = Standard handpiece packaged with System