

Partial User References (not complete list) of our Hot Air Stations

SNo.	Customer's Name & City	Qty	SNo.	Customer's Name & City	Qty
1	A. B. Industries, Baroda	1	51	Danlaw Technologies India Limited, Goa	1
2	Accelor Microsystems, Chandigarh	1	52	Deciblepro Private Limited, New Delhi	1
3	Accord Software & Systems (P) Limited, Bangalore	2	53	Dell International Services India Pvt. Ltd, Kanchipuram	2
4	ADI EMT Private Limited, Bangalore	1	54	Denso India Pvt. Ltd., Haridwar	6
5	Adlex System Manufacturing, Solan	1	55	Distronix, Kolkata	1
6	AIL Dixon Technologies Pvt. Ltd., Chittoor	1	56	DivineTechno Engineers, Vadodara	7
7	Allengers Global Healthcare Pvt. Ltd.	1	57	Doordarshan Kendra, Trivandrum	1
8	Allengers Medical Systems Limited, Derabassi	3	58	Draeger India Private Limited, Palghat	1
9	Alpha Design Technologies Pvt. Ltd, Hyderabad	1	59	Dynalog India Limited, Mumbai	1
10	Amphenol Interconnect India Pvt. Ltd., Bangalore	6	60	Ecofrost Technologies Private Limited, Pune	1
11	Amtech Electronics (India) Ltd., Gandhinagar	1	61	EFD Induction Private Limited, Bangalore	1
12	Analyser Instrument Co. Pvt. Ltd, Kota	1	62	Efronics Systems Private Limited, Vijayawada	1
13	Anand Electronics, Chandigarh	1	63	Electro Circuit Systems, Hyderabad	1
14	Anuvega Technologies Private Limited, Hyderabad	2	64	Enphase Solar Energy Pvt. Ltd., Bengaluru	1
15	Apex Electronics, Secunderabad	1	65	Epavo Electricals Pvt. Ltd., Silvasa	2
16	Applied Technosystem, Haryana	1	66	EPCOS India Private Limited, Bawal	2
17	Astra Microwave Products Ltd., Ravirayala	8	67	Erhardt + Leimer (India) Pvt. Ltd., Ahmedabad	1
18	Autopro Technologies, Bangalore	1	68	ESS ESS Enterprises, Fazilka	1
19	Balaji Sales, Indore	1	69	Essen Electronics Systems Pvt. Ltd., Visakhapatnam	1
20	Baldev Textile Mills Pvt. Ltd., Kohlapur	1	70	Ever Electronics Pvt. Ltd., Pune	3
21	Basil Energetics Private Limited, Chennai	1	71	Evonith Value Steel Ltd, Wardha	1
22	BEL Optronic Devices Limited, Pune	2	72	Excelpoint Systems (India) Private Limited, Bangalore	1
23	Bharat Dynamics Limited, Hyderabad	1	73	Flextronics Tech (I) Pvt. Ltd., Kanchipuram	97
24	Bharat Electronics Limited, Bangalore	1	74	Frog Cellsat Limited, Uttar Pradesh	1
25	Bharat Electronics Limited, Ghaziabad	20	75	Galaxmial Predera Communication Pvt. Ltd, Jaipur	1
26	Bharat FIH Limited, Kanchipuram	5	76	Gelco Electronics Pvt. Ltd, Gandhinagar	1
27	BIO ERA Health Care, Zirakpur	2	77	Genus Power Infrastructures Limited, Haridwar	2
28	Birla Institute of Technology and Science (BITS), Pilani	1	78	Genus Power Infrastructures Limited, Guwahati	1
29	Bits N Bytes Soft Private Limited, Gurgaon	1	79	Genus Power Infrastructurers Limited, Jaipur	3
30	Blue Chip Electronics, Secunderabad	5	80	Gigabyte Networks Pvt. Ltd, Ludhiana	1
31	BPL Medical Technologies Limited, Kerala	1	81	Gilbarco Veeder Root India Pvt. Ltd., Coimbatore	14
32	BPL Medical Technologies Pvt. Ltd, Kolkata	1	82	Global Technologies, Bangalore	1
33	BrahMos Aerospace Pvt. Ltd., Nagpur	1	83	Goodwill Technology Services, Hyderabad	1
34	CEM Solutions Private Limited, Bengaluru	1	84	GRP Solutions, Bengaluru	2
35	Centre for Development of Advanced Computing, Kerala	1	85	GSV MicroTech Pvt. Ltd, Chennai	1
36	Centum Electronics Limited, Bangalore	11	86	GVM Rail Private Limited, MOHALI	1
37	CET Power Solutions India Pvt. Ltd., Chennai	1	87	HCL Technologies Limited, Chennai	4
38	Chandramaa Trading Company, Bhubaneswar	3	88	Hella India Automotive Private Limited, Pune	2
39	Chloride Power Systems & Solutions Limited, Kolkata	1	89	Himanshu Lohani, Noida	1
40	Commandant, Srinagar	2	90	Hindustan Aeronautics Limited, Korwa	30
41	Component Masters, Mumbai	1	91	Hindustan Aeronautics Limited, Hyderabad	13
42	Continental Automotive Components (I) Pvt. Ltd., Bg	2	92	HI-Rel Tech Private Limited, Hosur	3
43	Control Print Limited, Nalagarh	1	93	Honeywell Technology Solutions Lab Pvt. Ltd., Bangalore	1
44	CoreEL Technologies (I) Pvt. Ltd, Bangalore	1	94	IC Pro Solutions Private Limited, Bangalore	1
45	Corporate Telesystems Pvt. Ltd., New Delhi	1	95	ICON Power Solutions (P) Limited, Gurgoan	2
46	Cosmic EMS Solutions, Hosur	1	96	IND Micro Devices, Kolkata	1
47	Cyient DLM Private Limited, Hyderabad	1	97	Indian Institute of Technology, Roorkee	1
48	Cyient DLM Private Limited, Bangalore	1	98	Innovate Software Solutions Pvt. Ltd, Bangalore	5
49	Cyient DLM Private Limited, Mysuru	8	99	Innovative Solution, Chennai	1
50	Cypress Semiconductor Technology Limited, Bangalore	2	100	Integrated Electronics Technology Pvt. Ltd., Thane	1

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101	IPC Solutions, Gurgaon	2	151	Samvardhana Motherson International Ltd, Noida	1
102	ISGEC Hitachi Zosen Limited, Bharuch	1	152	Sangam (India) Limited, Bhilwara	1
103	J. P. Electronic Devices (India) Pvt. Ltd, Mumbai	1	153	Sasmos HET Technologies Limited, Bangalore	1
104	Jabil Circuit India Pvt. Ltd, Pune	9	154	Satvik Enterprises, Amritsar	1
105	Kaynes Technology India Private Limited, Mysore	2	155	Saund Enterprises, Jalandhar	1
106	Keltron Communication Complex, Trivandrum	1	156	Saurer Textile Solutions Private Limited, Mohali	1
107	Khurana Commercial Corporation, Delhi	1	157	Saurer Textile Solutions Private Limited, Ahmedabad	4
108	KOYO SMS (India) Pvt. Ltd., Chennai	5	158	Saurer Textile Solutions Private Limited, Coimbatore	6
109	L&T Technology Services Limited, Chennai	3	159	Schneider Electric India Private Limited, Bangalore	1
110	L&T Technology Services Limited, Mysore	1	160	Schneider Electric IT Business India Pvt. Ltd., Bangalore	2
111	Livingston India Pvt. Ltd., Gurgaon	1	161	SDI Business Services India Pvt. Ltd., Bangalore	1
112	Lovely Electronics, Sahnawal	1	162	Sealed Energy Systems, Ambala Cantt	2
113	Luminous Power Technologies Pvt. Ltd., Baddi	1	163	Sehaj Synergy Technologies Pvt. Ltd., Jaipur	1
114	M/S Technomac, New Delhi	1	164	Selec Controls Pvt. Ltd, Mumbai	3
115	Marquardt India Pvt. Ltd., Pune	1	165	Semi-Conductor Laboratory, Mohali	2
116	Melange Systems Private Ltd., Bangalore	1	166	Serente Electronics Private Limited, Bangalore	2
117	Motherson Sumi Systems Ltd., Noida	1	167	SFO Technologies Private Limited, Kerla	3
118	Mr. Deepak Taireja, Maharashtra	1	168	SGD Pharma India Limited, Mahabubnagar	1
119	Mrs. Naresh Saini	1	169	Shiv Nadar University, Uttar Pradesh	1
120	Multi Sphere Power Solution Pvt. Ltd., Gurgaon	1	170	Shree Enterprises, Vasai	1
121	Multitech Engineers, Mumbai	2	171	Shree Ram Enterprises, Vadodara	4
122	Naren Electronics and Services, Coimbatore	1	172	Shreesai Enterprises, Palghar	5
123	Nastroj India Pvt. Ltd., Ghaziabad	2	173	Shri Balaji Ji Enterprises	1
124	National Atmospheric Research Lab., Gadanki	1	174	Skyline Semiconductor Services	1
125	National Institute of Technology, Rourkela	2	175	SmarterHomes Technologies Pvt. Ltd., Bengaluru	1
126	Navitasys India Private Limited, Gurugram	1	176	Srilas Telecom Pvt. Ltd., Rohtak	1
127	N-Square Services, Baroda	1	177	Su Solartech Systems (P) Limited, Chandigarh	1
128	OHMASCON Private Limited, Telangana	1	178	Sungrow Developers India Private Limited, Bangalore	1
129	P2 Power Solutions Pvt. Ltd., Noida	2	179	Sunlight Automation Private Limited, Bangalore	1
130	Panasonic India Private Ltd., Haryana	1	180	Syrma SGS Technology Limited, Chennai	10
131	Perfect Team Engineers Pvt. Ltd., Navi Mumbai	1	181	Syrma Technology Private Limited, Bawal	4
132	Phoenix Contact India Pvt. Ltd., Palwal	1	182	System Controls Technology	3
133	PK Global Autoelectro Private Limited, Noida	3	183	Tata Advanced Systems Limited, Bangalore	2
134	Prama Hikvision India Pvt. Ltd, Mumbai	19	184	TE Connectivity India Pvt. Ltd., Karnataka	1
135	Probus Smart Things Pvt. Ltd, New Delhi	1	185	Terra Motors India Pvt. Ltd, Kolkata	1
136	Progressive Meters Private Limited, Jaipur	1	186	Tescom, Bangalore	5
137	Punjab Trading Company	2	187	Titan Company Limited, Bangalore	1
138	Qualcomm India Private Limited, Bangalore	1	188	Triphase Technologies (P) Limited, Mohali	1
139	Qualcomm India Private Limited, Hyderabad	8	189	TVS Motor Company Limited	1
140	Quantum Power System, Bangalore	1	190	Uniphos Envirotronic Pvt. Ltd., Gujarat	2
141	Radmax Communication Private Limited, New Delhi	1	191	V5 Semi Conductors, Bengaluru	1
142	Rajshree Electro-Systems, Panvel	23	192	Vandewiele Savio India Pvt. Ltd, Coimbatore	2
143	RALCO Synergy Pvt. Ltd, Bangalore	1	193	Vikram Sarabhai Space Centre, Thiruvananthapuram	5
144	Rapidradio Solutions Pvt. Ltd., Ahmedabad	1	194	Vortex Engg. Private Limited, Chennai	1
145	Rieter India Private Limited, Coimbatore	6	195	Voxelgrids Innovations Private Limited, Bangalore	1
146	Right Solutions, Chennai	1	196	Walnut Medical Pvt. Ltd., Mohali	2
147	RMS Services, Bangalore	1	197	Wingtech Mobile Communications (I) Pvt. Ltd., Chennai	16
148	ROSSELL Techsys, bangalore	1	198	XIOTA India Private Limited, Bangalore	1
149	Rudra Microwave Products, Hyderabad	1	199	Zeneker India Private Limited, Noida	1
150	RV Industries, Goraya	1	200	Zobebe India Private Limited, Daman	12

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To desolder high mass thick leads of connectors and electrolytic Capacitors

for easy and no damage desoldering, please always select Desoldering Nozzle with higher ID than the dia of the leads



Specifications

- Input Supply : 230 VAC, 50Hz
- Heating Power : 150 Watt
- Temperature Range : 300°C ~ 480°C
- Vacuum Pressure : 650mm Hg
- Tip to Ground Potential : <2mV
- Tip to Ground Resistance : <2 Ohm

Scope of Supply

- IDS150 Power/Control Unit
- IDP150 Desoldering Gun
- Desoldering Bit
- Heavy Duty Support Rack
- Cleaning Sponge
- Operating Manual

Salient Features

- Power/Control unit has following in-built features:
 - Password protection
 - In-built temperature calibration
 - Sleep Timer & Standby Timer
 - Error message indication
- Reliable heating element does not require frequent changing
- Low running cost due to low priced long life Desoldering Nozzles

Features

CH1, CH2 & CH3:

These channels are used to store 3 different frequently used temperatures. Stored temperatures can be recalled just by pressing respective CH button.

Password Protection:

Password is provided for supervisory control. Once the password is applied then no one can change the set parameters without entering the password.

Sleep Time Setting

Sleep mode prolongs the life of Heating Element and Desoldering Nozzles. It can be programmed from 01 ~ 20 minutes. 00 indicates no sleep. The system enters in sleep mode if it is not used for set time after putting on the stand. In sleep mode display shows "---"

Standby Time Setting

Standby time can be programmed from 01 ~ 40 minutes. 00 indicated no standby. Standby timer starts once the unit enters the sleep mode. When the system is in standby mode display will shows "OFF"

Temperature Calibration

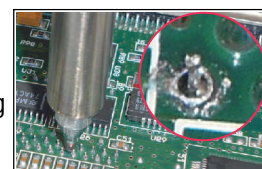
This system has in-built calibration feature to meet ISO requirements. This is recommended every time when the heating element or nozzle is replaced.

How to use Desoldering Gun

Melting solder After the set temperature is stable, use the Desoldering Nozzle to melt the solder.

Solder removal

Observe that all the solder of the pin has been melted by rotating the nozzle against the pin. If the pin moves freely, it means all the solder is melted. Now press the red switch on the handle to suck the molten solder.




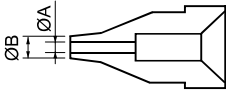

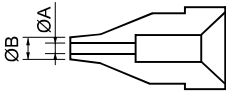

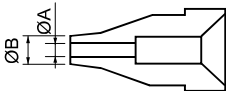
Note: Do not rotate the pins vigorously and with pressure. It can damage the PCB pads. If the pin does not move easily, then apply fresh solder on the tip of nozzle and then melt the solder of the pin to suck the molten solder.

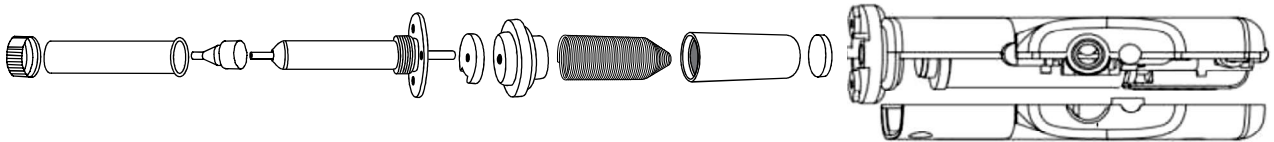
on-site services can be provided at extra charges if pre-paid by customer in advance









Warranty is 12 months from the date of invoice. It excludes all consumable parts as Sensor etc. and any mechanically damaged parts.

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Assured availability of all Spare Parts and Desoldering Nozzles, normally ex-stock

Description	Actual Photo	Dimensional Diagram	Inner Dia (mm)	Outer Dia (mm)	Part Number
Nozzle for regular desoldering			1.3	3.0	A1006
Nozzle for heavy connector desoldering			1.6	3.0	A1007
Nozzle for heavy Terminal desoldering			1.8	5.0	A1009



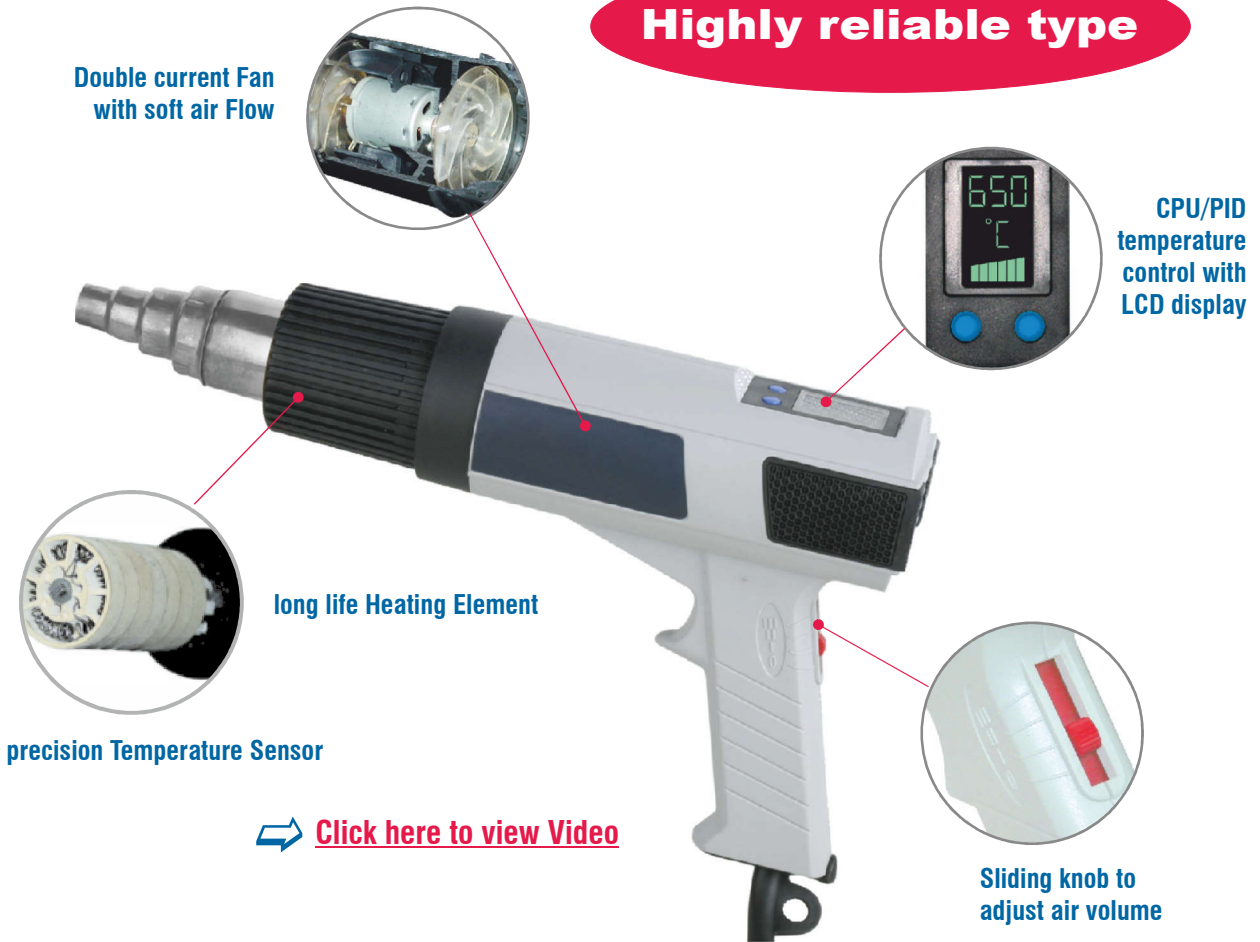
Description	Actual Picture	Remarks
IDP150 Desoldering Gun		Whenever required
Barrel & Nut Assembly		Whenever required
Heating Element		Replace if display shows H-E or S-E
Filter Pipe Assembly		Whenever required
Spring Filter		Whenever required
Filter Pipe		Whenever required
Ceramic Filter		Whenever required
Packing		Whenever required

Warranty is 12 months from the date of invoice. It excludes all consumable parts as Sensor etc. and any mechanically damaged parts.

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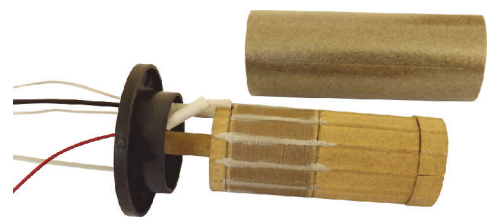
Highly reliable type



[Click here to view Video](#)

Features:

- Digital LCD display of temperature
- Cool air prolongs life of heating element
- Closed loop of sensor, temperature controlled by micro-computer zero voltage triggering, accurate and stable and not affected by air volume
- High power with rapid heating



Spare Heating Element is readily available

Specifications:

Power consumption	: 2100 Watt
Temperature Control	: 50°C to 650°C
Input Supply	: 230VAC, 50Hz
Air Volume	: 180 litre/minute at Step I, cold air 200 litre/minute at Step II, hot air 400 litre/minute at Step III, hot air
Noise	: <70dB
Weight	: 1.25 kg (approx.)

Scope of supply:

- Heat Gun
- Shrinking Nozzle

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One Station suffices 0402 miniature Chips to large size (42.5x42.5 mm) SMD ICs

lower cost version yet very powerful

[Click here to view Video](#)



Scope of Supply

- HAS6DW Main Control Unit
- Hot Air Pencil
- Support Rack
- Pick-up Tool
- 3 Round Hot Air Nozzle of dia 4.4mm, 6.4mm & 8.4mm

Features

- Capable to desolder large SMD ICs due to its high heat power and high air flow volume
- Push Buttons for precise temperature adjustment and airflow adjustment
- Closed loop Sensor precise temperature control, not affected by airflow
- Has a powerful maintenance-free *Brushless* Motor
- In-built feature to store 3 'favourite' Temperature & Air Flow settings in Channels "CH1, CH2 & CH3".
- In-built password protection and key-lock functions
- Auto-sleep feature allows system to go into stand-by mode to prolong the life of heater.
- Auto cooling also prolongs the life of heater and protect the handle from heating
- Variety of Hot Air Nozzles available for different sizes of SMD ICs

Specifications

- Power : 1000 Watt
- Input Supply : 230VAC, 50Hz
- Temperature Range : 100°C ~500°C
- Airflow Range : 1 ~ 120 litre/min
- Dimension (approx.) : 188x245x135mm
- Weight (approx.) : 3.65 Kg

Hot Air Nozzles for HAS6DW & HRS61D Hot Air Stations

Description	Actual Photo	Dimensional Diagram	Size Dia (mm)	Part Number
Round Hot Air Nozzle for miniature SMD Chips			4.4mm	NK1130
Round Hot Air Nozzle for SMD Chips			6.4mm	NK2064
Round Hot Air Nozzle for SMD Chips			8.4mm	NK2084

Warranty is 12 months from the date of invoice. It excludes consumable parts as Heating Element, Sensor, Nozzles and any mechanically damaged parts.

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1300 Watt High Power Hot Air Rework Station Model HRS61D

One Station suffices 0402 miniature Chips to large size (42.5x42.5 mm) SMD ICs

suitable for large size SMD ICs due to high heating power



Features

- Capable to desolder large SMD ICs due to its high heat power and high air flow volume
- Push Buttons for precise temperature adjustment and airflow adjustment
- Closed loop Sensor precise temperature control, not affected by airflow
- Has a powerful maintenance-free *Brushless* Motor
- In-built feature to store 3 'favourite' Temperature & Air Flow settings in Channels "CH1, CH2 & CH3".
- In-built password protection and key-lock functions
- Auto-sleep feature allows system to go into stand-by mode to prolong the life of heater.
- Auto cooling also prolongs the life of heater and protect the handle from heating
- Variety of Hot Air Nozzles available for different sizes of SMD ICs

Scope of Supply

- HRS61D Main Control Unit
- Hot Air Pencil (1300 Watt)
 - Support Rack
 - Pick-up Tool
- 3 Round Hot Air Nozzle of dia 4.4mm, 6.4mm & 8.4mm

Specifications

- Power : 1300 Watt
- Input Supply : 230VAC, 50Hz
- Temperature Range : 100°C ~500°C
- Airflow Range : 1 ~ 200 litre/min
- Dimension (approx.) : 188x245x135mm
- Weight (approx.) : 3.65 Kg

[Click here to view Video](#)

Hot Air Nozzles supplied with HRS61D Hot Air SMD Station as standard in scope of supply

Description	Actual Photo	Dimensional Diagram	Size Dia (mm)	Part Number
Round Hot Air Nozzle for miniature SMD Chips			4.4mm	NK1130
Round Hot Air Nozzle for SMD Chips			6.4mm	NK2064
Round Hot Air Nozzle for SMD Chips			8.4mm	NK2084

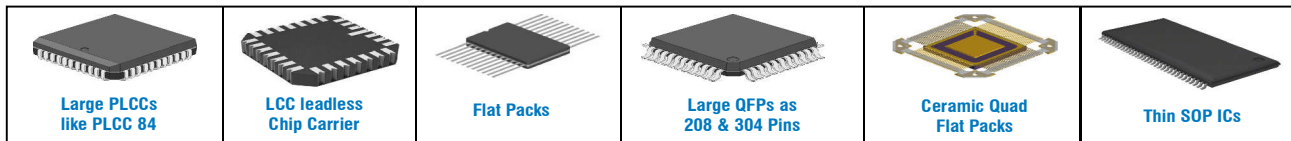
Warranty is 12 months from the date of invoice. It excludes consumable parts as Heating Element, Sensor, Soldering Tip, Cleaning Sponge and any mechanically damaged parts.

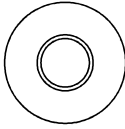
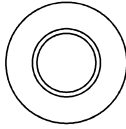
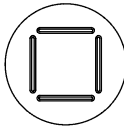
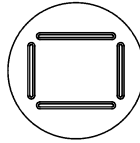
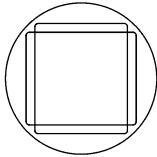
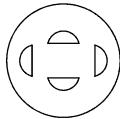
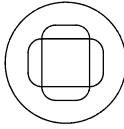
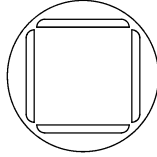
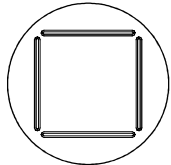
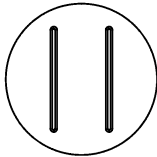
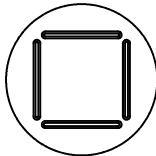
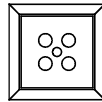
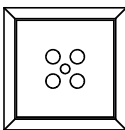
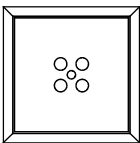
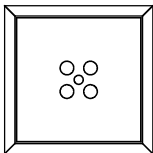
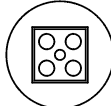
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Other size Hot Air Nozzles are also available as per customer's requirement, please tell size of SMD IC.

Hot Air Nozzles with in-built Vacuum Pick-up to suit specific SMD ICs are available
Please select the correct type you need to meet your specific applications



<p>NK2064 Size: 6.4mm dia Suitable for SMD Chips</p> 	<p>NK2127 Size: 12.7mm dia Suitable for SMD Chips</p> 	<p>NK3127B Size: 19x19mm Suitable for QFP size 17x17mm</p> 	<p>NK3128B Size: 15x21mm Suitable for QFP size 14x21mm</p> 
<p>NK3138B Size: 29x29mm Suitable for PLCC size 30x30mm</p> 	<p>NK3139B Size: 12.5x7.3mm Suitable for PLCC32</p> 	<p>NK3188B Size: 10x10mm Suitable for PLCC20</p> 	<p>NK3189B Size: 33.5x33.5mm Suitable for PLCC size 34x34mm</p> 
<p>NK3203B Size: 35x35mm Suitable for QFP size 35x35mm</p> 	<p>NK3259B Size: 13.5x29mm Suitable for TSOP44</p> 	<p>NK3261B Size: 21x21mm Suitable for BQPF84</p> 	<p>NK2280 Size: 24x24mm Suitable for BGA 24x24mm</p> 
<p>NK2282 Size: 31x31mm Suitable for BGA 31x31mm</p> 	<p>NK2283 Size: 38x38mm Suitable for BGA 38x38mm</p> 	<p>NK2284 Size: 41x41mm Suitable for BGA 41x41mm</p> 	<p>NK2286 Size: 15x15mm Suitable for BGA 15x15mm</p> 

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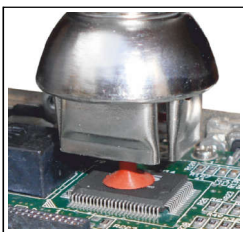
A must for every electronics lab • used by our top customers many with repeat repeat orders

- ⇒ Largest size SMD ICs as BGAs, QFPs etc., can be reworked without damaging expensive multilayer PCBs with increased higher heating power of 1300 watt of Hot Air Pencil
- ⇒ Multi Pin Connectors and Heavy Heat Sink PCBs can be desoldered effectively without any clogging and any damage to PCB with increased heating power of 150 watt of Desoldering Gun and also with new higher vacuum suction pump
- ⇒ New higher power Soldering Pencil of 110 watt ensures soldering at lower temperature for effective flux application (incase of leadfree soldering) and avoids thermal shock to expensive SMD ICs
- ⇒ New Digital Pre-heating Plate is always required for pre-heating of BGA PCBs, multilayer PCBs and heavily grounded PCBs. This only provides effective reworking of such PCBs without any damage

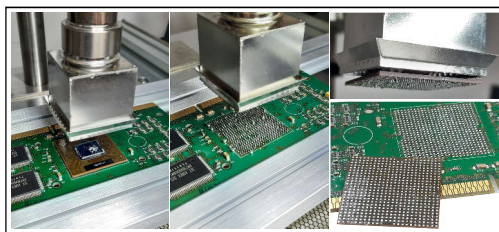


All 3 functions: Hot Air Reflow for desoldering and soldering of large SMD ICs, Desoldering of leaded components and Soldering of leadfree SMD and leaded components work independently at the same time

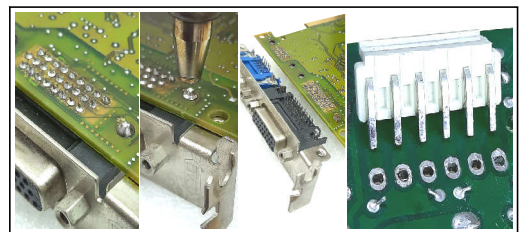
No external Compressor required, all it needs just Mains Supply only



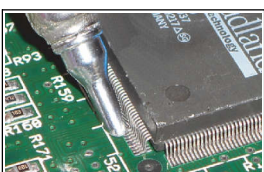
Large QFPs reworking



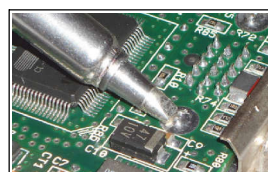
Large BGAs reworking on expensive multilayer PCBs



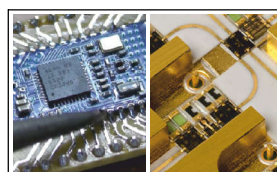
Desoldering of heavy duty connectors on multilayer PCBs



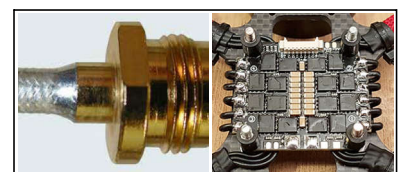
Fine pitch SMD Soldering



Thru-hole leadfree Soldering



Soldering on Ceramic substrates



High heat shink large soldering applications

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Specifications

- Power : 1600 Watt
- Temperature Range
 - Soldering/Desoldering : 200°C ~ 480°C
 - Hot Air Pencil : 100°C ~ 500°C
- Airflow Range : upto 120 litre/minute thru Maintenance-free **Brushless turbine**
- Vacuum Suction : 600mmHg
- Password Locking for supervisory control
- Sleep Timer to prolong the life of the system
- Built-in temperature calibration feature to meet ISO requirements

Scope of Supply:

- IMFS-600 Main Control & Power Unit
- AFHAPS Adjustable PCB Fixture with Hot Air Pencil Stand
- High Power (1300 Watt) Hot Air Pencil with in-built vacuum Pick-up and Hot Air Pencil Stand
- 2 Round Hot Air Nozzles of 6.4mm & 12.7mm dia.
- 110 Watt Soldering Pencil fitted with 2.4mm Chisel Soldering Tip and Support Rack with both Cleaning Sponge/Dry Cleaner
- 150 Watt Desoldering Gun fitted with Desoldering Tip and Support Rack with Cleaning Sponge
- 2 different sizes of Desoldering Nozzles
- Spare Ceramic Paper Filter, Spare Spring Filter
- Cleaning Pin Set, Software CD and Interface Cable

Adjustable PCB Fixture with fine UP/DOWN adjustment of Hot Air Pencil Stand Model AFHAPS specially designed to increase the effectiveness of 3-in-1 SMD/PTH System Model IMFS600 (highly recommended for safe reworking of large SMD ICs, optionally available at extra cost)

The PCB Fixture retains and secures the PCB under repair and allows positioning of the board in X and Y directions. It permits PCBs upto a maximum size of 350mm x 280mm both single and double sided to be accommodated in a perfectly flat condition.

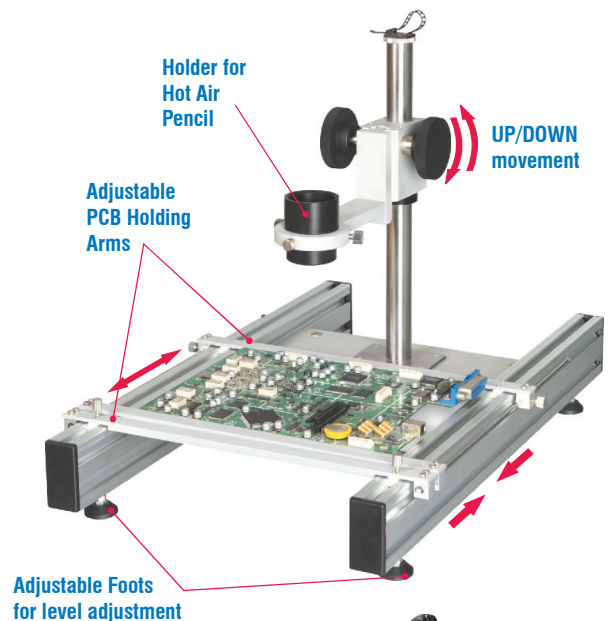
It also incorporates a pivoting stand to mount the Hot Air Pencil. This stand provides fine Up & Down movement of Hot Air Pencil for raising and lowering it onto the component under repair. It also has provision to put Pre-Heating Plate IHP400 underneath.

Features

- Maximum PCB size: 350 x 280 mm
- PCB can be positioned in X & Y directions
- Pre-Heating Plate can be positioned under the PCB
- It has 4 adjustable foot to adjust the level of PCB holder.

Specifications

- Coarse height range : 0 ~ 230mm
- Fine height adjustment : 0 ~ 60mm
- Maximum width of PCB : 280mm



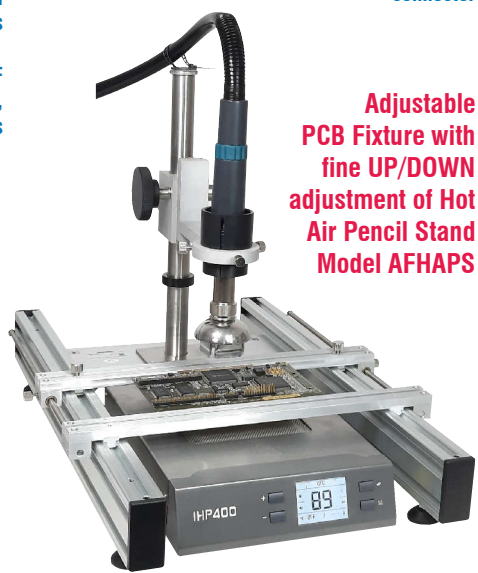
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Hi-Power 400 Watt infrared Pre-heating Plate Model IHP400, recommended for effective and safe reworking of multi-layer and high heat sink PCBs (optionally available at extra cost)

The IHP400 Pre-heating Plate enhances the effectiveness of the IMFS600 Rework Systems. It provides bottom heating to the PCB under repair, therefore minimizing the risk of thermal damage to expensive SMD ICs and warping of expensive multilayer PCBs. Additionally it also speeds up the rework/repair process.



Adjustable PCB Fixture with fine UP/DOWN adjustment of Hot Air Pencil Stand Model AFHAPS

Features:

- High quality, long life IR Ceramic Heating Elements ensure fast and even pre-heating with high efficiency
- in-built temperature measurement with thermocouple allows continuous monitoring of PCB temperature
- Set temperature is achieved accurately and remains stable due to closed loop PID control design.
- LCD display for accurate temperature and other parameter display
- Fast and convenient in-built digital temperature calibration
- Three channel temperature design for easy and fast temperature switching

Specifications:

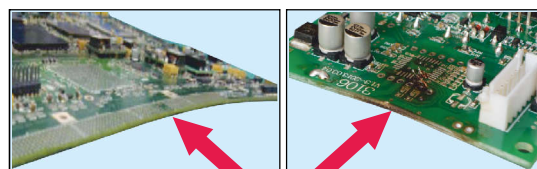
- | | | | |
|---------------------|---------------------|-------------------------|-----------------------|
| • Heating Power | : 400 Watt | • Temperature Stability | : ±1°C |
| • Heating Area | : 130 x 130mm | • Temperature Sensor | : K-type Thermocouple |
| • Heating Source | : IR Ceramic Heater | • Measurement Range | : 0 ~ 600°C |
| • Temperature Range | : 50°C ~ 500°C | • Thermometer Accuracy | : ±5°C |

Why bottom Preheating is recommended ?

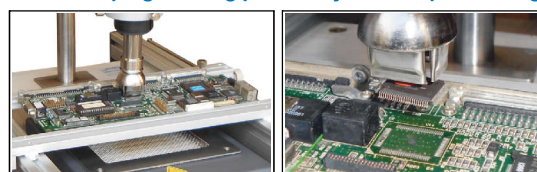
Today's electronics design has higher density of expensive devices on the multilayer PCBs which inherently require gentle pre-heating of PCBs to avoid thermal damaging of expensive SMD ICs, and also must avoid warping of PCBs.

If pre-heating is not used, it can lead to pad lifting, delamination, warping and burning of expensive PCBs & large SMD ICs during rework/repair. Beside these visible defects, the invisible defects like internal layer cracking etc. will also result if pre-heating is not used.

To avoid above failures, PCBs will normally need even pre-heating around 120°C on top side while reworking. The Pre-heater model IHP-400 serves this purpose. PCBs are heated evenly and gently from bottom side for safe reworking of SMD ICs.



PCB warping/burning possibility without pre-heating



Safe reworking of SMD ICs using bottom Preheater

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1300 Watt high heat power and very powerful upto 120 litre/minute Hot Air Pencil also has in-built Vacuum Pick-up provision for safe desoldering of large SMD ICs. Gentle lifting by Vacuum Pick-up does not damage SMD Pads of expensive PCBs.

The ergonomic and powerful Hot Air Pencil (1300 Watt) together with the extensive range of Hot Air Nozzles make this tool very versatile. Hot Air Nozzles are secured to the tool by press fitting. It has integrated in-built powerful vacuum pick-up for gentle lifting of large SMD ICs during desoldering without any damage to SMD pads of expensive PCBs. Temperature controlled Hot Air Pencil provides adjustable high volume of airflow. Different Hot Air Nozzles are available for different shapes and sizes of SMD ICs.



**Hot Air Nozzles with in-built Vacuum Pick-up to suit specific SMD ICs are available
Please select the correct type you need to meet your specific applications**

Large PLCCs like PLCC 84	LCC leadless Chip Carrier	Flat Packs	Large QFPs as 208 & 304 Pins	Ceramic Quad Flat Packs	Thin SOP ICs	BGA Package
NK2064 Size: 6.4mm dia suitable for SMD Chips	NK2127 Size: 12.7mm dia suitable for SMD Chips & SOICs	NK2284 Size: 41x41mm suitable for BGA 41x41mm	NK2286 Size: 15x15mm suitable for BGA 15x15mm	NK3127B Size: 19x19mm suitable for QFP size 17x17mm		
NK3128B Size: 15x21mm suitable for QFP size 14x21mm	NK3138B Size: 29x29mm suitable for PLCC size 30x30mm	NK3188B Size: 10x10mm suitable for PLCC20	NK3259B Size: 13.5x29mm suitable for TSOP44	NK3261B Size: 21x21mm suitable for BQPF84		

Other size Hot Air Nozzles are also available as per customer's requirement, please tell size of SMD IC.

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110 Watt high power Soldering Pencil for SMD and PTH soldering

The Soldering Pencil uses unbreakable heating element of 110 watt in coiled form encased in metal tube with sensor placed very close to the soldering tip for precise control of temperature. Push-fit design allows quick and easy change of Soldering Tips.

Specifications

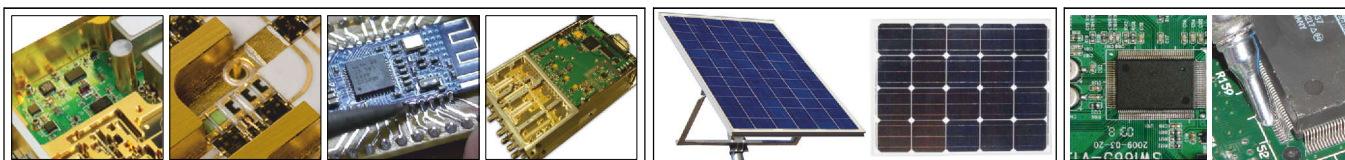
- Heating Power : 110 Watt
- Temperature Range : 200°C ~ 480°C
- Tip to ground Potential : <2mV
- Tip to ground Resistance : <2Ω



Unique SMD Soldering Tip for SMD soldering

Specially designed 200G-CM SMD Soldering Tip has concave cavity to hold the molten solder. It helps to solder one side of IC completely in a single go by dragging the soldering tip on the PCB tracks slowly without any bridging.

Multiple soldering applications with SINGLE 110 Watt Soldering Pencil suitable for highly reliable Aerospace soldering, SMD ICs, Solar Cells and High Mass soldering jobs



Aerospace high reliability soldering on Ceramic substrates Monocrystalline PV Solar Panel soldering Hi-end Leadfree Soldering

Various Soldering Tips are available to meet different types of soldering applications

Description	Actual Picture	Dimensional Diagram	Width A (mm)	Part Number
Chisel Tip for small SMD components			0.8	200G-0.8D
Chisel Tip for regular leadfree soldering			2.4	200G-2.4D
Chisel Tip for heavy leadfree soldering			3.2	200G-3.2D
Sloped Tip for solar panels			Ø3	200G-3C
Sloped Tip for solar panels			Ø5	200G-5C
Round Tip for fine soldering			Ø0.5	200G-B
SMD Tip for soldering SMD ICs			2	200G-2CM

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High Power (150 Watt) Easy-to-hold Desoldering Gun for Thru-Hole Components

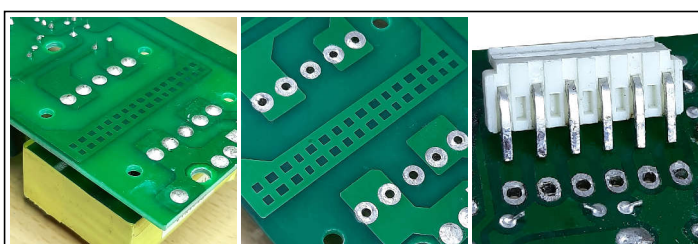
Desoldering Pencil, with internal solder reservoir, desolders thru-hole components. Finger Switch controls quick start of fast action vacuum pump.

Specifications

- Heating Power : 150 Watt
- Temperature Range : 200°C ~ 480°C
- Vacuum Pressure : 600mm Hg
- Tip to Ground Potential : <2mV
- Tip to Ground Resistance : <2 Ohm



150 Watt High Power for multilayer PCBs & heavy grounded joints

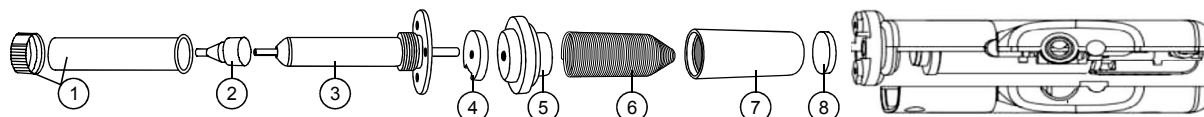


Thru-hole desoldering of heavy duty connectors on multilayer PCBs

Desoldering Nozzles for available to desolder different PTH components

Description	Actual Photo	Dimensional Diagram	Inner Dia (mm)	Outer Dia (mm)	Part Number
Desoldering Nozzle for desoldering thru-hole components with PCB hole diameter of 1.3mm			1.3	3.0	A1006
Desoldering Nozzle for desoldering thru-hole components with PCB hole diameter of 1.6mm			1.6	3.0	A1007
Desoldering Nozzle for desoldering thru-hole components with PCB hole diameter of 1.8mm			1.8	5.0	A1009

Assured availability, normally ex-stock, of Spare Parts for Desoldering Station



SN	Description	Remarks
1	Barrel & Nut Assembly	Replace if worn out
2	Desoldering Nozzle	Replace if damaged
3	Heating Element	Replace when display shows H-E/S-E
4	Packing	Replace if damaged

SN	Description	Remarks
5	Front Holder	Replace if damaged
6	Spring Filter	Replace if damaged
7	Filter Pipe	Replace if damaged
8	Ceramic Filter	Replace if damaged

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designed for bottom pre-heating of multilayer & high heat sink Printed Circuit Boards

The IHP400 Pre-heating Plate enhances the effectiveness of the IMFS600 Rework Systems. It provides bottom heating to the PCB under repair, therefore minimizing the risk of thermal damage to expensive SMD ICs and warping of expensive multilayer PCBs. Additionally it also speeds up the rework/repair process.



Features:

- High quality, long life IR Ceramic Heating Elements ensure fast and even pre-heating with high efficiency
- in-built temperature measurement with thermocouple allows continuous monitoring of PCB temperature
- Pre-set temperature is achieved accurately and remains stable due to closed loop PID control design.
- TFT LCD display for accurate temperature and other parameters
- Fast and convenient in-built digital temperature calibration
- Three channel temperature design for easy and fast temperature switching

Specifications:

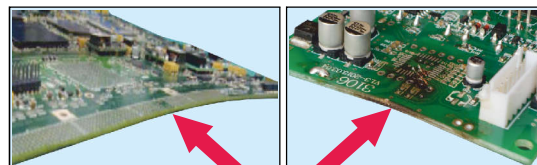
- | | | | |
|---------------------|---------------------|-------------------------|---------------------------|
| • Heating Power | : 400 Watt | • Temperature Stability | : $\pm 1^{\circ}\text{C}$ |
| • Heating Area | : 130 x 130mm | • Temperature Sensor | : K-type Thermocouple |
| • Heating Source | : IR Ceramic Heater | • Measurement Range | : 0 ~ 600°C |
| • Temperature Range | : 50°C ~ 500°C | • Thermometer Accuracy | : $\pm 5^{\circ}\text{C}$ |

Why bottom Preheating is recommended ?

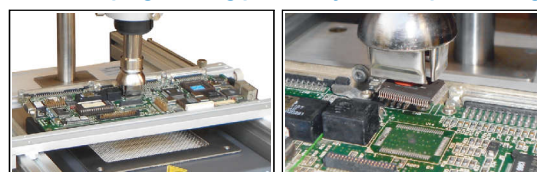
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To avoid above failures, PCBs will normally need even pre-heating around 120°C on top side while reworking. The Pre-heater model IHP-400 serves this purpose. PCBs are heated evenly and gently from bottom side for safe reworking of SMD ICs.



PCB warping/burning possibility without pre-heating



Safe reworking of SMD ICs using bottom Preheater

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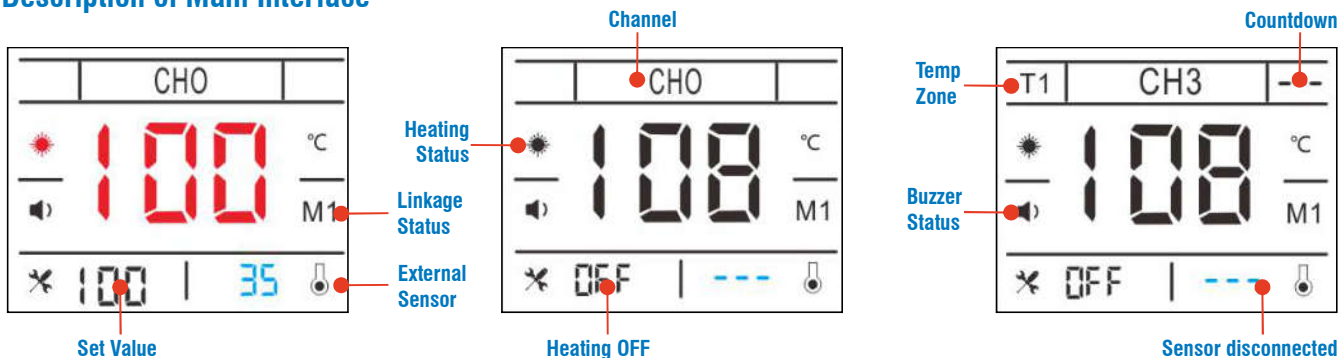
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Description of Main Interface



Symbols	Descriptions
CH0, CH1 CH2, CH3	Displays which Channel is Selected
	Continuously Red Light indicates Temperature is rising to Set Temperature When Red and Black Light Flashes alternatively indicates set temperature is achieved The blue light indicates the cooling State
	Buzzer ON
200	Display the Temperature measured by external Temperature Sensor
T1/T2	T1 is Temperature Profile 1 and T2 is Temperature Profile 2

Symbols	Descriptions
	Buzzer OFF
	Currently Set Temperature Value
	Press to turn OFF or ON temperature control
	No External Temperature Sensor is connected
	Count Down

Description of Keys

KEYS	Descriptions/Function
	1. In main interface press to switch between CH1, CH2 & CH3 2. In setting interface: Return/Cancel
	1. Press in the main interface to turn ON/OFF 2. In the setting interface: Advance/Save 3. In the main interface, long press 2 sec to enter the setting interface
+ and -	Press at same time to enter temperature calibration interface
+	1. In the main interface, press to increase the parameter value 2. In the setting interface: Page up
-	1. In the main interface, press to decrease the parameter value 2. In the setting interface: Page down



K-Type Thermocouple

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