

# JBC

[www.jbctools.com](http://www.jbctools.com)

English



## Precision Hot Air Station

Ref. TE-C

## Packing List

The following items should be included:

**JTE Control Unit** .....1 unit  
Ref. JTE-1C  
JTE-2C  
JTE-9C

**Stand** .....1 unit  
Ref. TE-SA

**Precision Heater hose set** .....1 unit  
Ref. TE-TB



**Extractor desk\*** .....1 unit  
Ref. 0008752

**Accessory set**  
Ref. 0012332



**Extractors\***  
Ref. E2184  
E2064  
E2052

**Tripod\***  
Ref. T2050  
T2250



**Protectors\***  
Ref. P2220  
P2230  
P2235  
P4000  
P4010

**Suction Tube\***  
Ref. 0932330



**Power Cord** .....1 unit  
Ref. 0009417  
(100V/120V)  
0009401  
(230V)

**Manual** .....1 unit  
Ref. 0015898

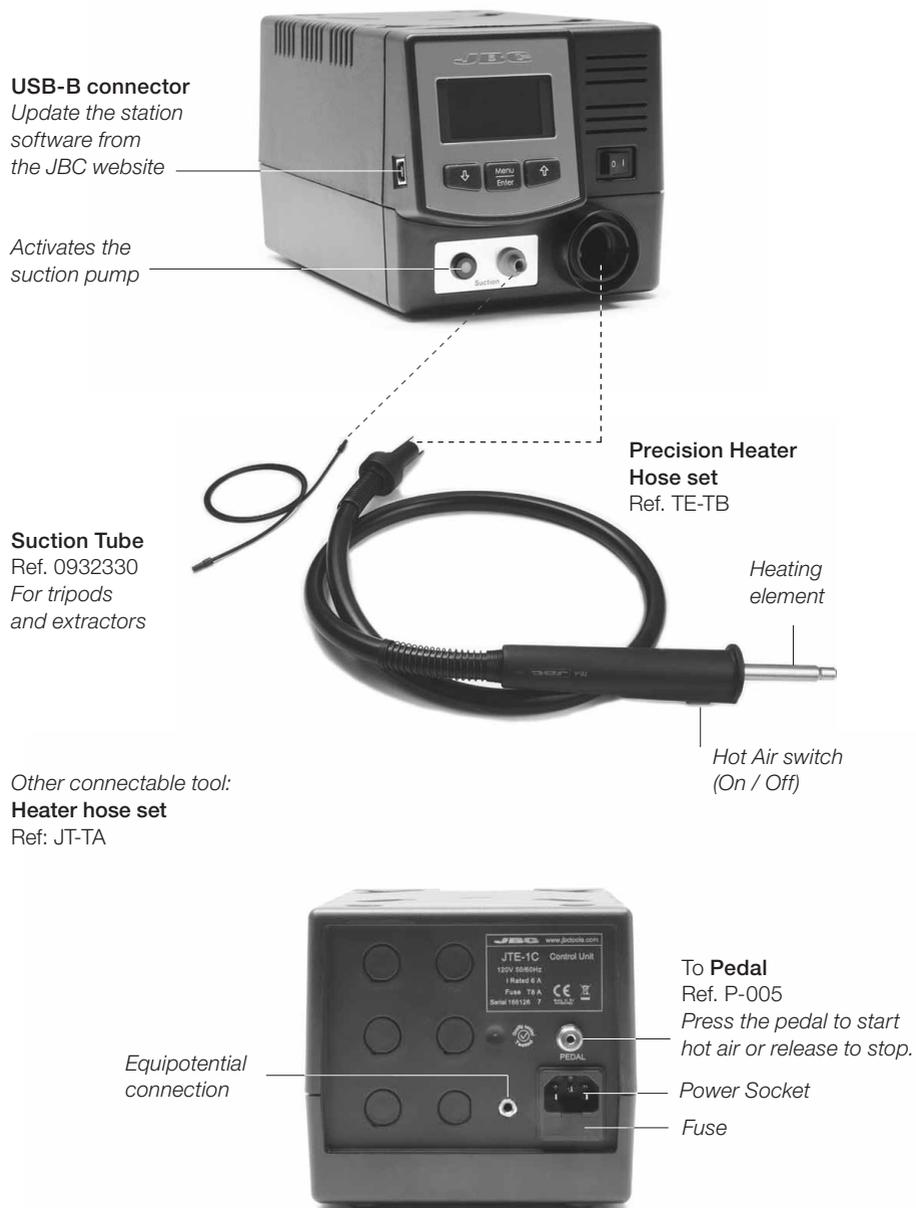
**Suction Cups\***  
Ref. 0930110  
Ø 10 - 0934050 (x3)  
Ø 4.7 - 0934070 (x1)

**Nozzles**  
Ref. TN9209 Ø 3mm  
TN9208 Ø 4mm  
TN9080 Ø 5mm

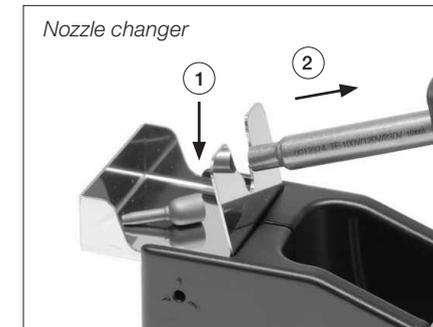


\* Not supplied with TE-QC

## Features

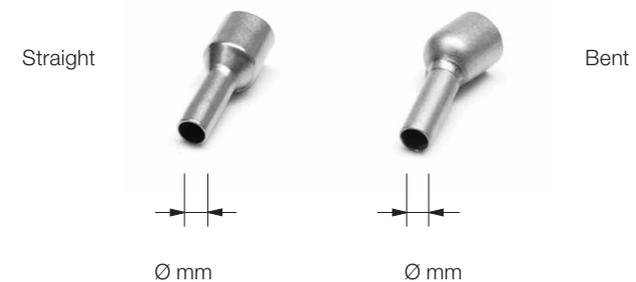


## Adjustable Stand Nozzle Changer



## Compatible Nozzles

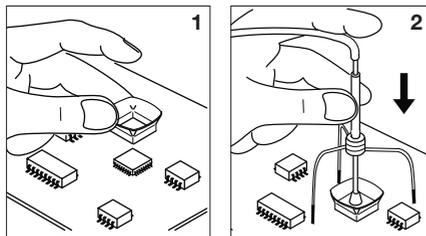
The TE-TB works with TE nozzles. Find the model that best suits your soldering needs in [www.jbctools.com](http://www.jbctools.com)



Ref.	Shape	Size
TN9209	Straight	Ø 3mm
TN9208	Straight	Ø 4mm
TN9080	Straight	Ø 5mm
TN9787	Bent	Ø 3mm
TN9785	Bent	Ø 4mm
TN9782	Bent	Ø 5mm

## Protectors & Extractors

**For small components** (fig. 1 and 2).  
We recommend using the protector + tripod

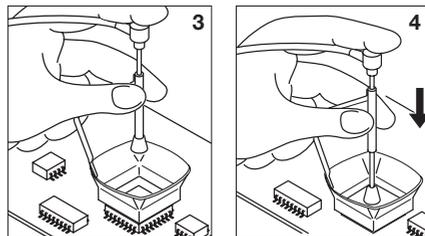


### Protectors

* Ref.	AxB (mm)	* Ref.	AxB (mm)
P3353	4,3 x 3	48 P2230	15 x 15
P3786	5,2 x 5,2	60 P4010	17 x 17
P3352	5,2 x 7,5	P4005	18 x 29
P3355	5,2 x 9,5	P4030	18,5 x 18,5
P3356	6,2 x 4,2	P1068	18,5 x 24
P3785	7,2 x 7,2	P2685	28,5 x 28,5
P3784	8,2 x 8,2	P4085	31,5 x 31,5
P4035	9 x 13	P2672	33 x 46
P4040	9,5 x 19	P4002	50 x 50
P4080	9,5 x 21	P3357	52,5 x 14
32 P2220	10 x 10		
P4045	10,5 x 21		
P4090	11 x 16		
24 P2235	12 x 17		
P1249	12 x 23		
44 P4000	12,5 x 12,5		
P3354	13,2 x 13,2		
P4025	13,5 x 21,5		

\* Reference Desk

**For large components** (fig. 3 and 4).  
We recommend using the extractors

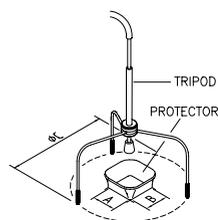


### Extractors

* Ref.	AxB (mm)	* Ref.	AxB (mm)
52 E2052	20 X 20	E2124	45 X 45
64 E2064	20 X 26		
80 E2184	24 X 24		
E2068	27 X 27		
E4020	28,5 X 28,5		
E4015	31,5 X 31,5		
E2084	33 X 33		
E2100	38 X 38		

### Tripods

* Ref.	øC (mm)
T2050	39
T2250	85



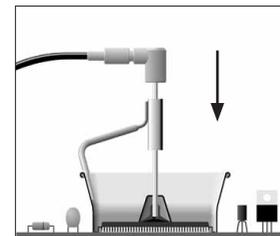
### Manual extractor

* Ref.	øD (mm)
E2190	7



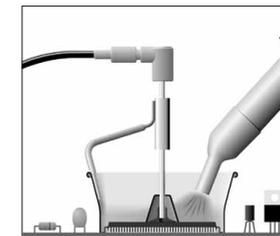
## Operation

### 1. Placing



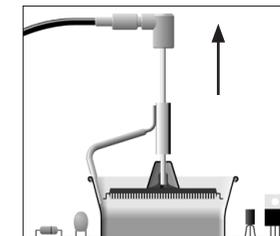
Position the extractor with the appropriate suction cup and press the suction button.

### 2. Heating



Heat the component by pressing the heater button.

### 3. Releasing



The component lifts off automatically when the solder melts.

## Process Control

### Manual Mode

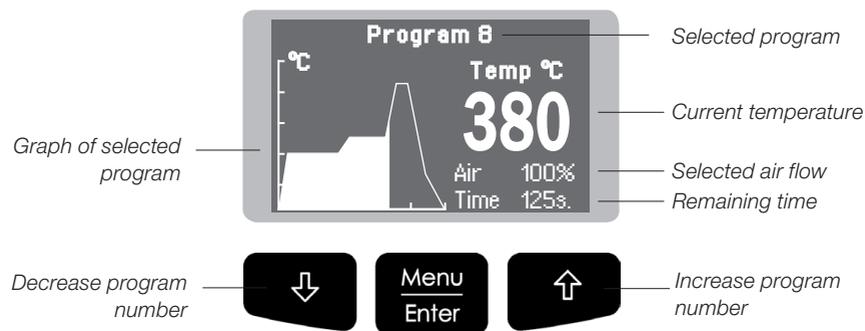
Time to stop 45 seconds  
Temp °C 400 | Air % 85  
400°C Select  
Power 70%

Current temperature — 400 — Selected temperature — 400°C Select — % Instant power supplied to heater — 70% —  
Current air flow — 85 —

↓ Menu/Enter ↑  
Access Menu (press key 2 seconds) & Confirm Selection

You can switch between operating modes (Manual Mode / Program Mode) by pressing the "increase" and "decrease" keys simultaneously for 2 seconds (Only when programs mode is ON).

## Program Mode



### Edit Program

This option allows you to edit or create a program.

First, you must select the program to edit and then modify the points that make up the program.

Each program is composed of 9 points, each point consisting of 3 parameters:

1. Time (seconds)
2. Temperature (°C / °F)
3. Flow rate (%)

You can delete the last point of the program by selecting "-----" in the time parameter.

Remember that the regulation range permitted by the station is between 150°C and 450°C, so it is not possible to create temperature ramps between room temperature ( T OFF ) and 150°C.

The station can store up to 25 temperature programs.

The first three programs are installed as an example.

### Copy Program

This option allows you to copy a program.

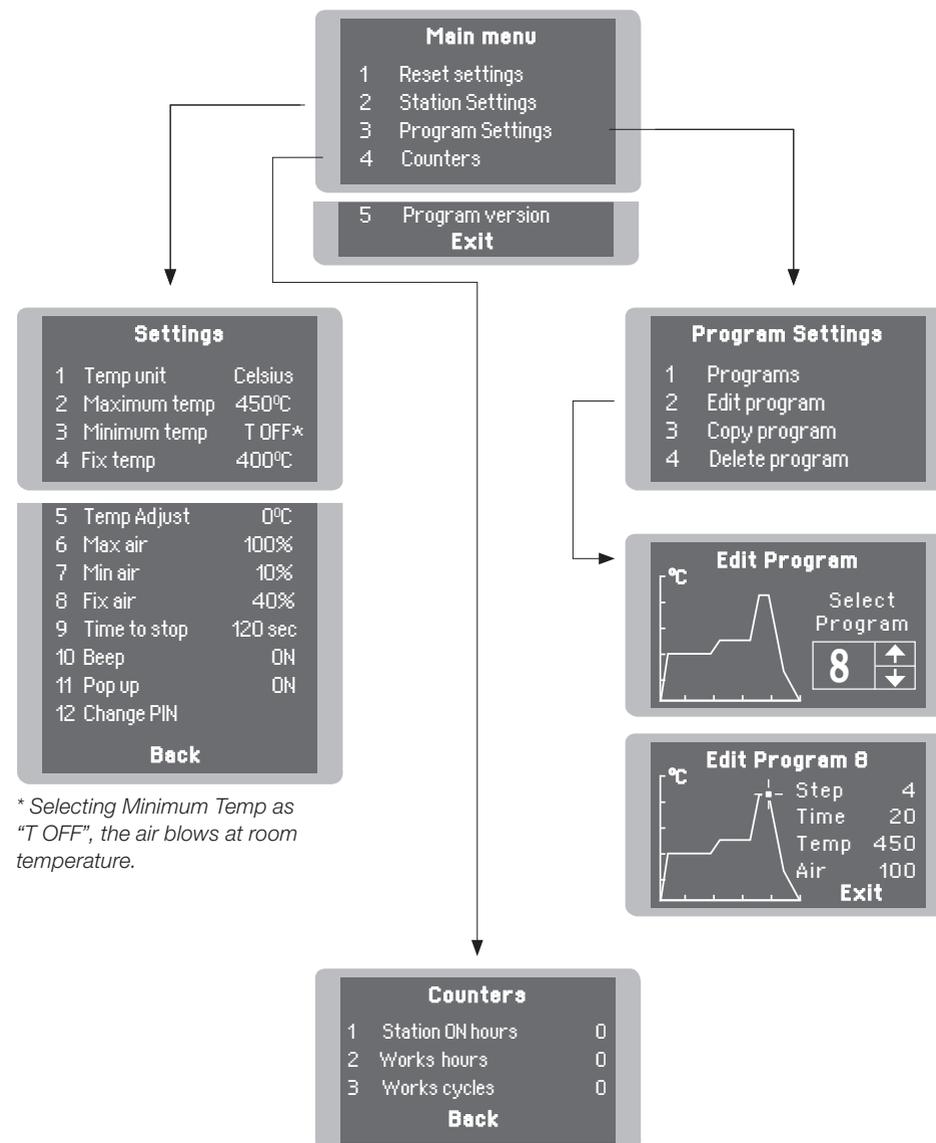
You must select the program source and its destination (where it will be copied).

### Delete Program

This option will allow you to delete a previously selected program.

## Menu Screen

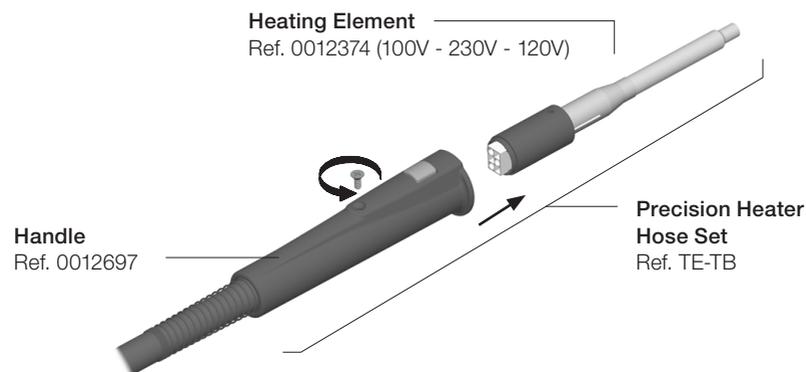
Original PIN: 0105



## Replacing the Heating Element

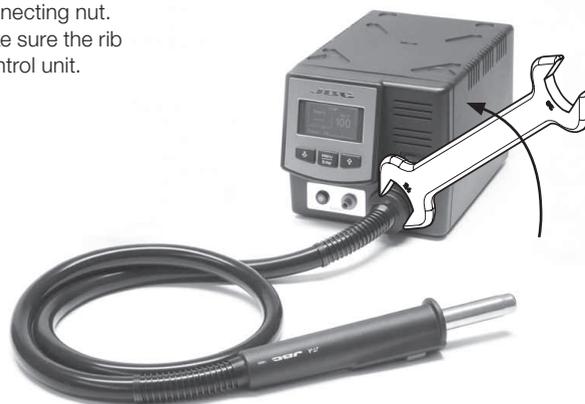
Only perform this operation when the element is cold and the unit is disconnected from the mains.

1. Loosen the screw.
2. Pull the heating element away from the handle.
3. Connect the new heating element, ensuring it is pushed all the way in.
4. Tighten the screw.



## Changing the TE-TB Precision Heater Hose Set

1. Ensure that the tool is turned off.
2. Use a spanner to unscrew the connecting nut.
3. When attaching the new tube make sure the rib lines up with the groove on the control unit.
4. Tighten with the spanner.



## Pick & Place (not supplied with TE)

This tool helps you easily place and remove SMDs of any size thanks to the suction pump.

**Pick & Place**  
Ref. T260-A



**Bent Needles Set**  
Ref. 0861660



**Straight Needles Set**  
Ref. 0901546

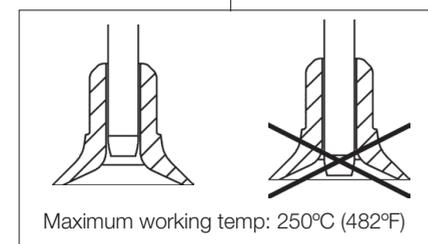


### Operation

Choose the needle and the suction cup that best fits the component and start working as follows:

Press the button to start/stop the suction

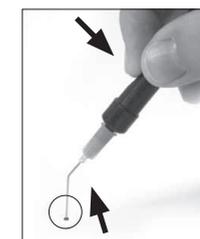
**Pick & Place**  
Ref. T260-A



Insert the needle with the appropriate suction cup for a correct suction process.

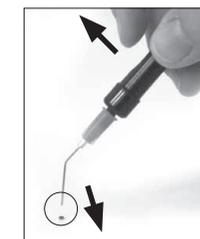
You should avoid the needle protruding from the lower part.

### 1. Suction



Once the suction is activated, cover the pen hole with your finger and lift off the component.

### 2. Release

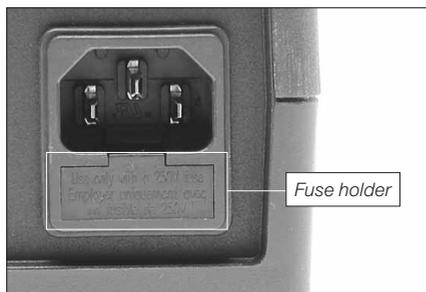


Lift your finger to release the component in the appropriate place.

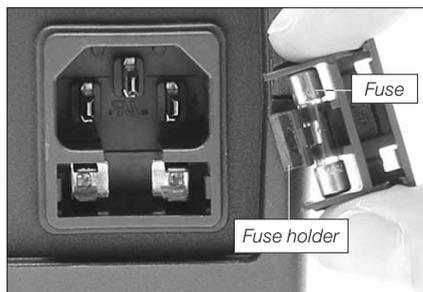
## Maintenance

Before carrying out maintenance or storage, always allow the equipment to cool.

- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Maintain heating element clean prior to storage in order to avoid its oxidation. Rusty and dirty surfaces reduce heat transfer.
- Periodically check all cables and tubes.
- Replace a blown fuse as follows:



**1.** Pull off the fuse holder and remove the fuse. If necessary use a tool to lever it off.



**2.** Press the new fuse into the fuse holder and replace it in the station.

- Replace any defective or damaged pieces. Use original JBC spare parts only.
- Repairs should only be performed by a JBC authorized technical service.

## Safety



**It is imperative to follow safety guidelines to prevent electric shock, injury, fire or explosion.**

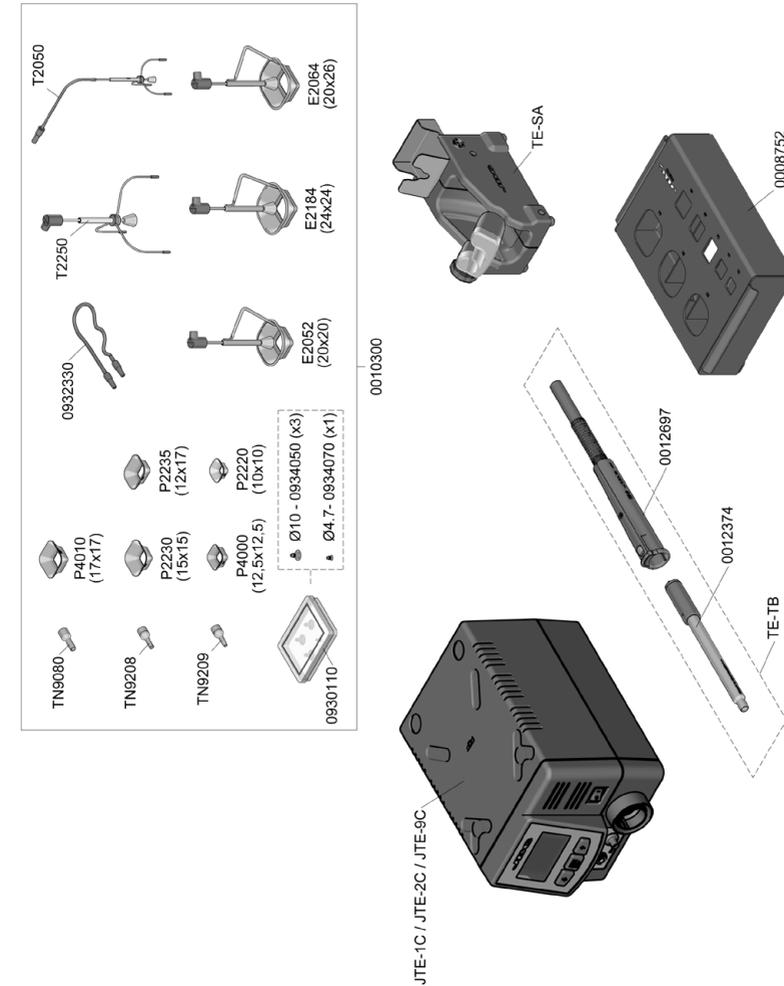
- Do not use the units for any purpose other than soldering or rework. Incorrect use may cause fire.
- The power cord must be plugged into approved bases. Be sure that it is properly grounded before use. When unplugging it, hold the plug, not the wire.
- Do not work on electrically live parts.
- The tool should be placed in the stand when not in use in order to activate the sleep mode. The soldering tip, the metal part of the tool and the stand may still be hot even when the station is turned off. Handle with care, including when adjusting the stand position.
- Do not leave the appliance unattended when it is on.
- Do not cover the ventilation grills. Heat can cause inflammable products to ignite.
- Use a "non residue" classified flux and avoid contact with skin or eyes to prevent irritation.
- Be careful with the fumes produced when soldering.
- Keep your workplace clean and tidy. Wear appropriate protective glasses and gloves when working to avoid personal harm.
- Utmost care must be taken with liquid tin waste which can cause burns.
- This appliance can be used by children over the age of eight and also persons with reduced physical, sensory or mental capabilities or lack of experience provided that they have been given adequate supervision or instruction concerning use of the appliance and understand the hazards involved. Children must not play with the appliance.
- Maintenance must not be carried out by children unless supervised.

## Specifications

- TE-1C** 120V 50/60Hz. Input fuse 8A. Rated Current 6A. Control Unit model: **JTE-1C**  
**TE-2C** 230V 50/60Hz. Input fuse 4A. Rated Current 3A. Control Unit model: **JTE-2C**  
**TE-9C** 100V 50/60Hz. Input fuse 8A. Rated Current 7A. Control Unit model: **JTE-9C**
- Weight: 5.2 kg (11.4 lb)
  - Dimensions: 148 x 184 x 140
  - Nominal Power: 300W
  - Temperature selection: Room temperature / 150°C to 450°C (300°F to 840°F)  
Cool mode: T Off. Used to blow air at room temperature
  - Ambient Operating Temperature: 10 to 40°C (50-104°F)
  - Idle Temp. Stability: +/-20 °C (+/-36 °F)
  - Air flow regulation: 3-17 SLPM
  - USB connector station-PC
  - P-005 Pedal connector

Complies with CE standards  
ESD protected housing "skin effect"

## Exploded View



**TE-1C** 100V  
**TE-2C** 230V  
**TE-9C** 100V  
 PRECISION HOT-AIR STATION

SPARE PARTS	
<b>JTE-1C / JTE-2C / JTE-9C:</b>	
-ENCLOSURES:	0011035
-TOP	0014882
-BOTTOM	0010064
-FRONT	0014982
-BACK	
<b>JTE-2C:</b>	
-CIRCUIT	0015000
-SUCTION PUMP	0008940
-HOT AIR PUMP	0014867
<b>JTE-1C / JTE-9C:</b>	
-TOP CIRCUIT	0015023
-SUCTION PUMP	0008938
-HOT AIR PUMP	0014867

JTE-1C 120V FUSE T-8A  
 JTE-2C 230V FUSE T-4A  
 JTE-9C 100V FUSE T-8A

# JBC

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## Warranty

JBC's 2 year warranty covers this equipment against all manufacturing defects, including the replacement of defective parts and labour.

Warranty does not cover product wear due to use or mis-use.

In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased.

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This product should not be thrown in the garbage.

In accordance with the European directive 2002/96/EC, electronic equipment at the end of their life must be collected and returned to an authorized recycling facility.