



# **Hot Air Station**

Ref. JTSE-A

## **Packing List**

The following items should be included:

JTSE Control Unit ......1 unit Ref. JTSE-1A (100V / 120V) JTE-2A (230V)

Stand .....1 unit Ref. JT-SD

Heater hose set .....1 unit Ref. JT-T1A (100V / 120V) JT-T2A (230V)







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

\* Not supplied with JT-Q stations

Thermocouple type K .....1 unit Ref. PH218





JT Accessory set Ref. 0012332

Extractors*	Protectors*
Ref. E2184	Ref. P2220
E2064	P2230
E2052	P2235
	P4000
	P4010

Suction Tube*
Ref. 0932330

Suction Cups*	Nozzles
Ref. 0930110	Ref. JN2015
Ø 10 - 0934050 (x3)	JN2012
Ø 4.7 - 0934070	JN2020

Power cable .....1 unit Ref. 0009417 Ref. 0017172 (100V / 120V) 0009401 (230V)





Manual .....1 unit









## Adjustable Stand

Adjust the tool holder angle to suit your work position.



#### **Operation Modes**

1. From the Tool Settings Menu, select the mode to activate the tool depending on the task.

#### Tool button



Press the start/stop button to blow hot air.

#### Autostart



The tool automatically starts blowing hot air when lifted from the stand.

#### Pedal\*



Press the Pedal to blow hot air and release to stop.

\*The P-005 Pedal is not supplied with this station.
See our website.

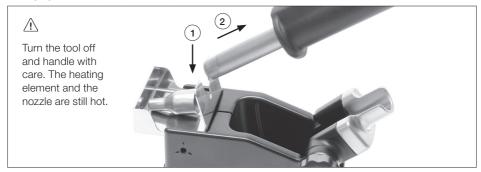
2. The tool stops blowing when pressing the start/stop button. If the stand is connected to the station and for safety it will also stop when returned to the stand.





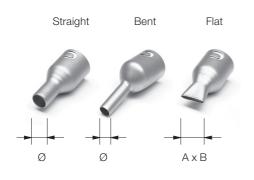
## **Quick Nozzle Changer**

Changing nozzles quickly and safely.



### **Compatible Nozzles**

The JT-TA works with JT nozzles. Find the model that best suits your soldering needs in www.jbctools.com



*	Ref.	Shape	Ø Size (mm)	Ø Size (in)
*	JN2020	Straight	Ø 8	Ø 0.31
	JN8417	Straight	Ø 10	Ø 0.4
*	JN2015	Bent	Ø 4	Ø 0.16
*	JN2012	Bent	Ø6	Ø 0.24
	JN6633	Bent	Ø8	Ø 0.31
	JN7637	Flat	10 x 2	0.4 x 0.08
	JN7638	Flat	20 x 2	0.8 x 0.08
	JN7639	Flat	30 x 2	1.18 x 0.08

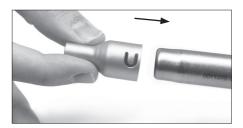
<sup>\*</sup> Included in JT Accessory set (Ref. 0012332)

In case of a loosely fitting nozzle:

**1.** Push the nozzle tab inwards with a screwdriver or flat-nosed pliers.

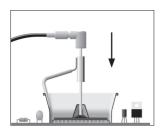


2. Insert the nozzle into the JT-TA again.



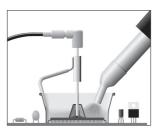
## Operation

### 1. Placing



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

### 2. Heating



Heat the component.

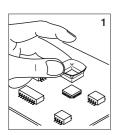
## 3. Extracting

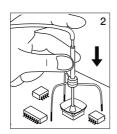


The component lifts off automatically when the solder melts.

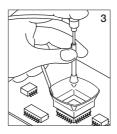
## **Protectors & Extractors**

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





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







## Using the Thermocouple type K

Connect a TC type K (PH218) to the station and use it as a protection or regulation sensor. You can define its use mode by means of the "Ext TC mode" option in the "Tool" menu.

You can choose from two work modes:

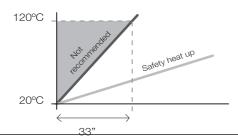
**Regulation:** the station regulates the air temperature automatically to maintain the External Thermocouple (TC) temperature.

**Protection**: the station cuts the air supply off when the External Thermocouple (TC) temperature is reached.

Fix the TC with Kapton Tape (Ref. PH217) as near as possible to the component being worked on. If Kapton tape is not ESD you must use an ionizer.



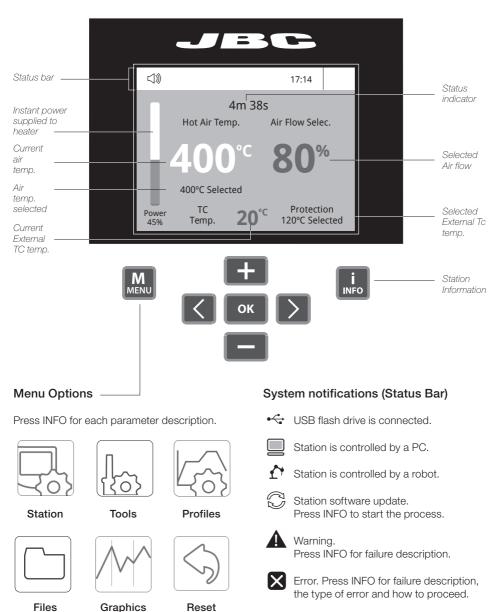
IPC\* does not recommend exceeding ramp-up rates over  $3-4^{\circ}\text{C}$  / sec. (5-7°F / sec) so as to reduce the risk of thermal stress on the PCB.



<sup>\*</sup> IPC was founded in the U.S. in 1957 as the Institute for Printed Circuits.

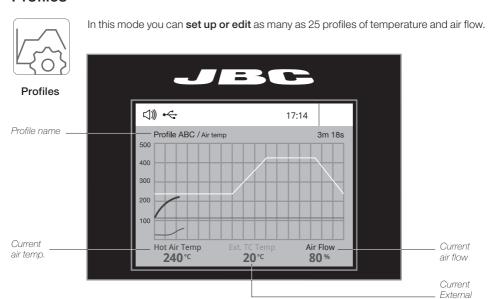
#### **Process Control**

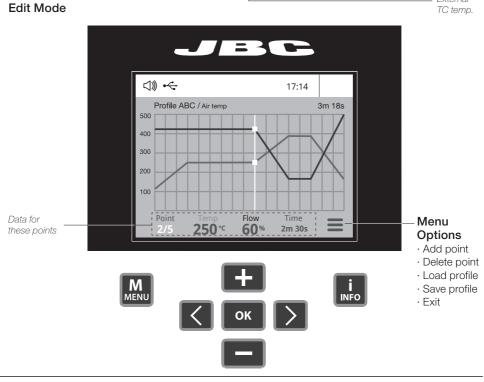
The JTSE offers an **intuitive user interface** which provides **quick access** to station parameters. **Original PIN: 0105** 





## **Profiles**

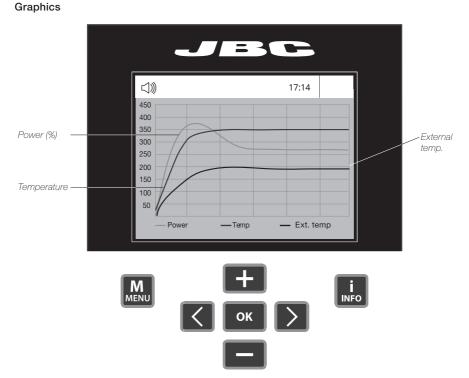




## Process analysis



By pressing **Graphics** in the main MENU, temperature and power figures in real time are displayed. This helps you decide which tip to use to obtain the best quality solder joints.



#### **Files**



# Export graphics

Insert a USB flash drive into the USB-A connector to save your soldering process in csv format.

## **Export / Import profiles**

Insert a USB flash drive into the USB-A connector to export / import profiles.





## Soldering Net (Soon available)

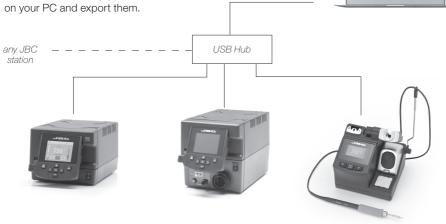
Remotely manage and monitor your stations.

- 1. Download the JBC Manager software and the user manual from www.jbctools.com/manager.html
- 2. Connect the stations via USB-B connector and the PC will automatically detect them.
- **3.** The notification will be displayed on the station.

#### **Functions:**

- Set all the station parameters from your PC.
- Organize groups of stations and set all their parameters at the same time.
- Store specific configurations for later use.
- Analyze the soldering graphics of the stations on your PC and export them.





## Update the station software

1. Download the JBC Update File from www.jbctools.com/software.html and save it on a USB flash drive. (Preferably one with no other files).



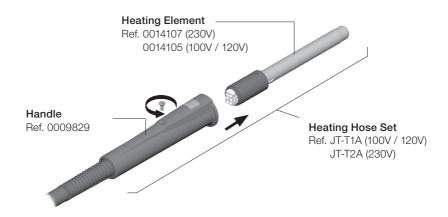
2. Insert the USB flash drive to the station. The icon  $\bigcap$  is diplayed while updating.



# 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 out of the handle.
- 3. Connect the new heating element, ensuring it is pushed all the way in.
- 4. Tighten the screw.



## Changing the JT-TA Heater Hose Set





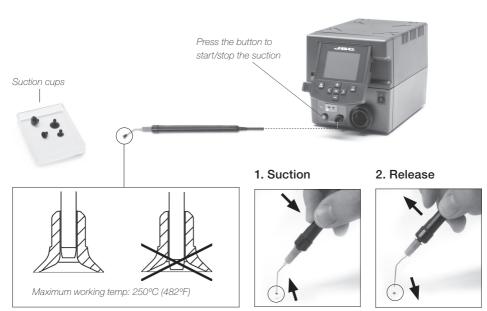
## Pick & Place (not supplied with JT)

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



#### Operation

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

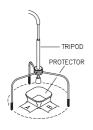


Insert the needle with the appropriate cup for a correct suction process. Make sure the needle does not protrude from the cup.

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

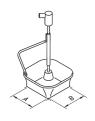
Lift your finger to release the component.

# Accessories



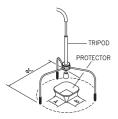
#### Protectors

*	Ref.	AxB (mm)	AxB (in)	*	Ref.	AxB (mm)	AxB (in)
	P3353	4,3 x 3	0.16 x 0.12		P1249	12 x 23	0.47 x 0.9
	P3786	5,2 x 5,2	0.20 x 0.20	44	P4000	12,5 x 12,5	0.49 x 0.49
	P3352	5,2 x 7,5	0.20 x 0.29		P3354	13,2 x 13,2	0.52 x 0.52
	P3355	5,2 x 9,5	0.20 x 0.37		P4025	13,5 x 21,5	0.53 x 0.85
	P3356	6,2 x 4,2	0.24 x 0.16	48	P2230	15 x 15	0.59 x 0.59
	P3785	7,2 x 7,2	0.28 x 0.28	60	P4010	17 x 17	0.67 x 0.67
	P3784	8,2 x 8,2	0.32 x 0.32		P4005	18 x 29	0.71 x 1.14
	P4035	9 x 13	0.35 x 0.51		P4030	18,5 x 18,5	0.73 x 0.73
	P4040	9,5 x 19	0.7 × 0.74		P1068	18,5 x 24	0.73 x 0.94
	P4080	9,5 x 21	9.5 x 0.83		P2685	28,5 x 28,5	1.12 x 1.12
32	P2220	10 x 10	0.39 x 0.39		P4085	31,5 x 31,5	1.24 x 1.24
	P4045	10,5 x 21	0.14 x 0.82		P2672	33 x 46	1.30 x 1.18
	P4090	11 x 16	0.43 x 0.63		P4002	50 x 50	1.97 x 1.97
24	P2235	12 x 17	0.47 x 0.67		P3357	52,5 x 14	2.06 x 0.55



#### Extractors

*	Ref.	AxB (mm)	AxB (in)	*	Ref.	AxB (mm)	AxB (in)
52	E2052	20 X 20	0.79 x 0.79		E4015	31,5 X 31,5	1.24 x 1.24
64	E2064	20 X 26	0.79 x 1.02		E2084	33 X 33	1.30 x 1.30
80	E2184	24 X 24	0.94 x 0.94		E2100	38 X 38	1.50 x 1.50
	E2068	27 X 27	1.06 x 1.06		E2124	45 X 45	1.77 x 1.77
	E4020	28,5 X 28,5	1.12 x 1.12				



#### Tripods

Ref.	øC (mm)	øC (in)
T2050	39	1.53
T2250	85	3.35



#### Manual extractor

Ref.	øD (mm)	øD (in)
E2190	7	0.27

\* Reference Desk



#### Maintenance

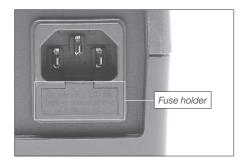
Before carrying out maintenance, always allow the equipment to cool.

- 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.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool status.
- Periodically check all cables and tubes.

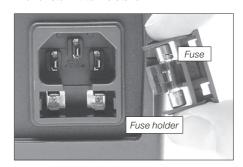


Clean periodically

- 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. Insert the new fuse into the fuse holder and return it to 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



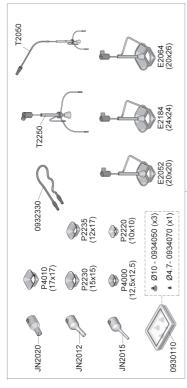
It is imperative to follow safety guidelines to prevent electric shock, injury, fire or explosion.

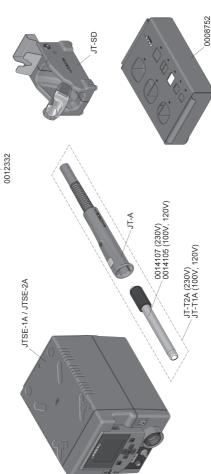
- Do not use the units for any purpose other than soldering or rework. Incorrect use may cause fire.
- The power cord must be plugged into approved bases. Make sure that it is properly grounded before use. When unplugging it, hold the plug, not the wire.
- Do not work on electrically live parts.
- The tool should be placed in the stand when not in use to turn off the hot air.

  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 inflamable products to ignite.
- Avoid the contact of flux with skin or eyes to prevent irritation
- Be careful with the fumes produced when soldering.
- Keep your workplace clean and tidy. Wear appropriate protection 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.



# **Exploded View**





JTSE-1A 100/120V JTSE-2A 230V

HOT AIR STATION

	SPARE PARTS	LS
٦	JTSE-1A / JTSE-2A	
	-ENCLOSURES: -TOP -BOTTOM -FRONT -BACK	0011035 0013486 0016862 0016812
_	JTSE-1A	
777	-CIRCUIT -SUCTION PUMP -HOT AIR PUMP	0017185 0008723 0015970
_	JTSE-2A	
777	-CIRCUIT -SUCTION PUMP -HOT AIR PUMP	0017671 0008722 0015970

JTSE-1A 100/120V FUSE T-8A JTSE-2A 230V FUSE T-4A

17

PH218

Notes



## **Specifications**

JTSE-1A 100V - 120V 50/60Hz. Input fuse: 8A. Rated current: 7A JTSE-2A 230V 50/60Hz. Input fuse: 4A. Rated current: 3A

- Weight: 4.927 kg (10.86 lb)

- Dimensions (control unit): 148 x 184 x 140 mm (5.83 x 7.24 x 5.51 in)

- Nominal power:

- Temperature selection: Room temp. / 150 - 450 °C (300 - 840 °F) Cool mode: T off. Used to blow air to room temperature

- Ambient operating temp: 10 - 40 °C (50 - 104 °F)

- Air flow regulation: 10 - 50 SLPM

- Vacuum: 30% / 228 mmHg / 9 inHg

- Connectors: USB station-PC

Robot RS232 P-005 Pedal

Complies with CE standards ESD protected housing "skin effect"



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



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.





Manual in other languages available on our website