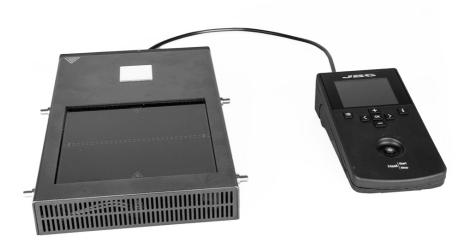


www.jbctools.com



IR Preheater Ref. PHSE-A

Packing List

The following items should be included:

RJ45 Cable 1 unit Ref. 0019914





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



Thermocouple 1 unit Ref. PH218



Kapton Tape 1 unit Ref. PH217



Manual 1 unit Ref. 0021327





Features

Heater Unit

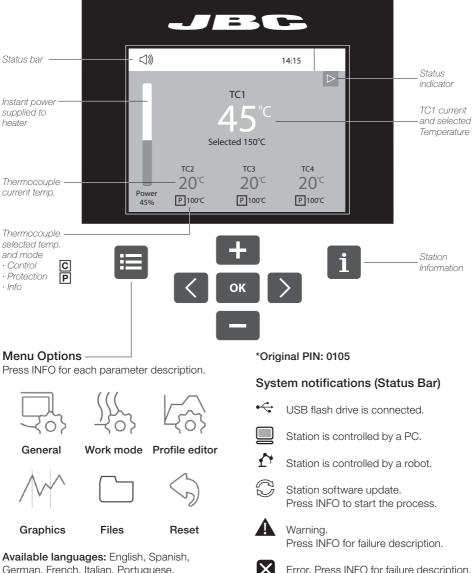


Console



Temperature mode

Select *Temp. mode* from the *Work mode* menu. In this mode the heater unit maintains the selected temperature for the TC1 thermocouple as long as the other TCs do not reach the control/protection temperature limit.

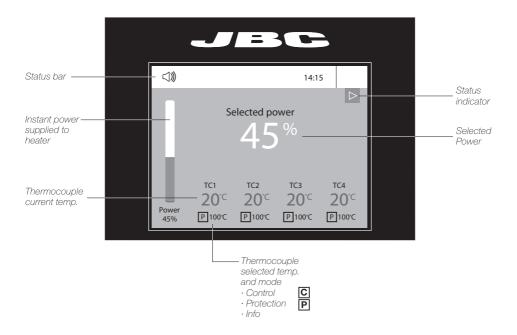


German, French, Italian, Portuguese, Japanese, Chinese, Russian and Korean.



Power mode

Select *Power mode* from the *Work mode* menu. In this mode the heater unit maintains the selected power as long as the thermocouples do not reach the control/protection temperature limit.



Thermocouples

Select *Thermocouples* from the *Work mode* menu to set them up. The thermocouples (TC) can work in three different ways depending on what is needed.

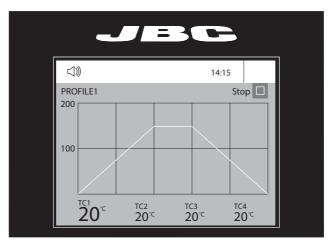
- \cdot Control: the unit mantains the selected temperature.
- · Protection: the Heater Unit stops if the TC reaches the selected temperature.
- \cdot Info: the TC temperature is shown in the work screen.

The TC1 is always working in Control mode for the Temperature mode as well as for Profiles mode.

The temperature of each TC can also be selected from the work screen.

Profiles mode

Select *Profile mode* from the *Work mode* menu. In this mode the heater unit regulates the temperature of the TC1 thermocouple according to the selected profile as long as the other TCs do not reach the control/protection temperature limit.



Teach profile

For repetitive jobs **we recommend** running profiles without the Thermocouple (TC). In order to do so, the *Teach profile* mode has to be executed before running any profile. It can be executed from the *Work mode* menu if the *Profiles* mode is selected. Once the profile has been run to the end, the system has all the process data which you can save.

Once it is saved, you can run this profile without connecting the Thermocouple (TC). The heating process will be the same as long as the same working conditions are respected.

The profiles which already have the data from the *Teach profile* are marked with this symbol



These profiles can be run either with or without the Thermocouples. It can be chosen from the *Profiles* mode work screen:



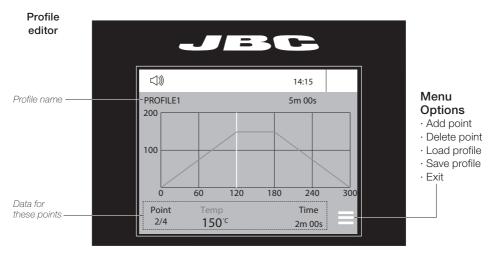


Profile editor



The *Profile editor* can be opened from the main menu or from the *Profiles* mode work screen by pressing the 'OK' button.

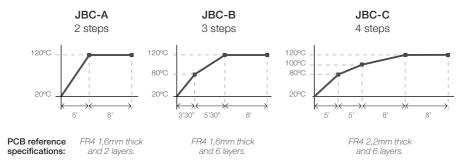
In this mode you can edit as many as 25 profiles of temperature.



JBC set profiles

There are 3 profiles predefined by JBC: A, B and C. The difference between them is the number of steps: 2, 3 or 4. The thicker your PCB is and the more layers it contains, the more steps are needed to obtain a gradual warming.

These profiles are not modifiable but can be used as a template to create your own profiles.



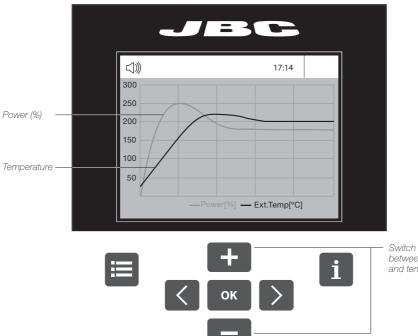
Profiles set using the low position of the PHS-SA Support (28 mm in height between the PCB and the heating area).

Process analysis



By pressing **Graphics** in the main MENU, temperature of TC1 thermocouple and power figures in real time are displayed.

Graphics



Switch Y axis between power and temperature



Files



Export graphics

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

Files

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



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).

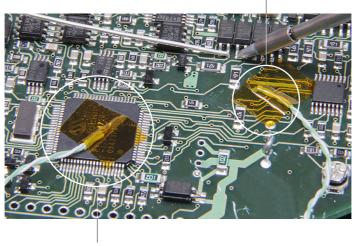


2. Insert the USB flash drive to the station. The icon $\bigcap_{n=1}^{\infty}$ is diplayed while updating.



Recommended Guidelines

1. Place the Thermocouple (TC) as near as possible to the component being worked on.

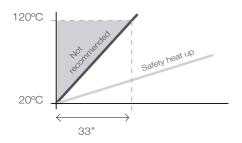


Fix the TC with Kapton Tape

Protection Thermocouple (TC)

- 2. If there are any sensitive components, use a Thermocouple as protection. You can select the protection temperature in the *Thermocouples* menu. If the selected temperature is reached, the Heater Unit will stop the process and a warning message will be shown.
- 3. IPC* does not recommend exceeding ramp-up rates over 3 4 $^{\circ}$ C / sec (5 7 $^{\circ}$ F / sec) so as to reduce the risk of thermal stress on the PCB.

* IPC was founded in the U.S. in 1957 as the Institute for Printed Circuits and is committed to becoming the most recognized international industry association for the electronics manufacturing industry.





Maintenance

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

- Check periodically that the PHSE-A is clean.
- Use a damp cloth when cleaning. Alcohol can only be used to clean the metal parts.
- Only if it is absolutely necessary and if cleaning with isopropyl alcohol (IPA) is not enough, it is recommended to use a scraper to remove dirt in the glass area.
- Replace any defective or damaged parts. 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 protect health and prevent electric shock, injury, fire or explosions.

- Do not use the units for any purpose other than PCB preheating. Incorrect use may cause fire.
- The mains cable must be plugged into approved bases. Make sure that it is properly grounded before use. When unplugging it, hold the plug, not the wire.
- The temperature of accessible surfaces may remain high after the unit is turned off. Handle with care.
- Do not leave the appliance unattended when it is on.
- Do not cover the ventilation grills. Heat can cause inflamable products to ignite.
- Heat can cause inflamable products to ignite even when out of sight.
- Be careful with the remains of liquid tin. In contact with skin, it can cause burns.
- Avoid flux coming into contact with skin or eyes to prevent irritation.
- Be careful with the smoke produced when soldering.
- Keep your workplace clean and tidy. Wear appropriate protection glasses and gloves when working to avoid personal harm.
- This appliance can be used by children over the age of eight as well as persons with reduced physical, sensory or mental capabilities or lacking 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

IR Preheater

PHSE-1A 120V. Input 120V 50/60Hz Fuse 8A PHSE-2A 230V. Input 230V 50/60Hz Fuse 4A PHSE-9A 100V. Input 100V 50/60Hz Fuse 8A - Weight: 2,8 kg (6.17 lb) - Dimensions (Heater Unit): 195 x 288 x 41,5 mm (7.68 x 11.34 x 1.63 in) - Maximum Power: 500W - Heating Area: 65 x 135 mm (2.56 x 5.31 in - 1 zone) 130 x 135 mm (5.12 x 5.31 in - 2 zones) - Temperature Range: 50 - 250 °C (120 - 482 °F) - Temperature Measurement: Thermocouple type K - JBC set temperature profiles: 3 profiles (2, 3 or 4 steps) - User Profiles: 20 (up to 6 steps for each) - Maximum work time: 600 min or indefinite

Complies with CE standards. ESD protected housing.

Exploded View





T-8A T-4A T-8A

	SPARE PARTS		
	HEATER:		
	-CIRCUIT (230' -CIRCUIT (120' -CIRCUIT (100' -LAMP (230V): -LAMP (100V, 1 -GLASS: -ENCLOSURES	V): V): I20V):	0021106 0021110 0021111 0016585 0016586 0016609
	· TOP · BOTTO		0021152 0022242
		PHSE-1A 1 PHSE-2A 2 PHSE-9A 1	20V FUSE T-8A 30V FUSE T-4A 00V FUSE T-8A
	CE-A		
A			





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. Please register your product warranty within 30 days of purchase in www.jbctools.com/productregistration.



This product should not be thrown in the garbage. In accordance with the European directive 2002/96/EC, electronic equipment at the end of its life must be collected and returned to an authorized recycling facility.



Manuals in other languages are available on our website

www.jbctools.com