USER MANUAL

INTELLIGENT HOT AIR GUN

PCE-HAG 100

ENGLISH



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com

USERNOTICE

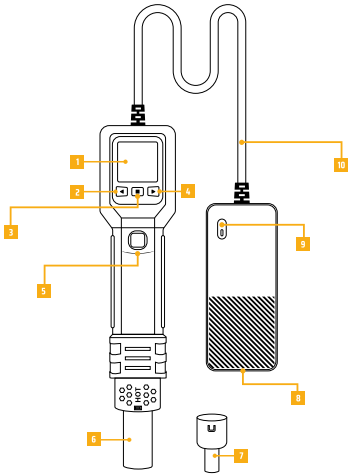
» This manual provides detailed instructions on product usage, precautions, and related information.
» Please read the manual carefully before using the product to ensure optimal performance.
» Da not use the instrument in flammable or explosive environments.
» Used batteries and discarded instruments must not be disposed of with household waste. Please follow national or local regulations for proper disposal.
» It the instrument encounters any quality issues or if you have any questions regarding its use, please contact the company.

PRODUCT INTRODUCTION

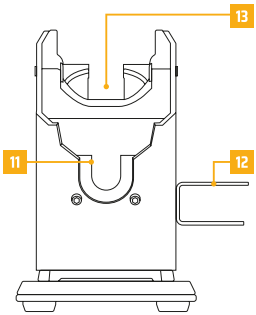
The PCE-HAG 100 is a newly launched portable smart hot air gun, designed to meet various application needs. It uses a microcontroller with PID precise temperature control technology, ensuring rapid heating with minimal thermal shock, which extends the lifespan of the heating element. The brushless !an supports adjustable wind speeds from levels 1 to 20, providing low noise, long life, and adaptability to different work environments. The handle integrales a magnetic sensor that automatically heats up when picked up and cools down into standby mode when returned, making operation simple. The controller and display screen on the handle allow for effortless one-handed adjustment of temperature and wind speed. It also supports three sets of quick temperature/wind speed presets for fast switching. The fast cooling function accelerates cooling, further extending the heating element's lifespan. Real-time monitoring by various sensors ensures the device shuts oll heating in case of any abnormalities, ensuring safety. The LCD display and LED indicator clearly show working status and temperature changes. With its ergonomic handle design for a comfortable grip and compact, portable build, it is the ideal choice for professionals and DIYenthusiasts alike.

DEVICE DESCIRPTIDN

1 - Screen
2 - Left button
3 - Middle button
4 - Right button
5 - Preset button / Indicator Light
6 - Heating tube (used with nozzles)
7 - Nozzle
8 - Power socket ([13 Connector)
9 - Power red indicator light
10 - Power cord



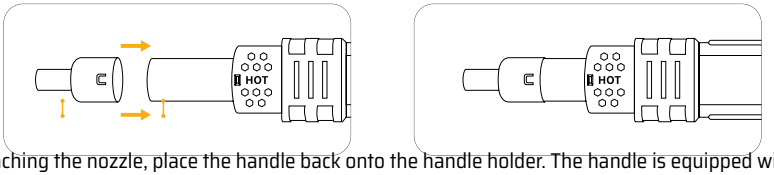
11 - Nozzle socket
12 - Nozzle placement area
13 - Hot air gun placement area



Indicatar Light Descriptian	
BLUE	Power-Off State
GREEN	Temperature < 100°(
YELLDW	100°C< Temperature < 300°C
RED	Temperature >300°C

Installation Instructians

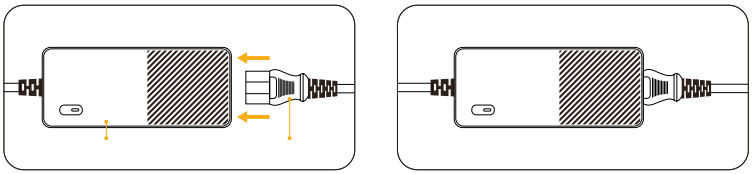
The diameter of the steel pipe at the air outlet is approximately 21.7mm, suitable for 850 series nozzles. You can select different nozzles with varying outlet diameters based an different application scenarios. When installing, make sure to place the nozzle in the correct position as shown in the diagram below:



After attaching the nozzle, place the handle back onto the handle holder. The handle is equipped with a magnetic control switch, while the sides of the holder contain strong magnets. Returning the handle to the holder will automatically initiale cooling and standby mode.

Power Supply Instrudions

First. connect the AC power cord to the power adapter. then plug the power cord into a 220V AC outlet. The power setup is shown in the diagram below:



NOTE! Input Voltage: AC 100 ... 140V (110V version) / AC 200 ... 240V (220V version). Frequency: 50Hz / 60Hz. Max Power : 550W. Use only with a grounded outlet for safety.

TECHNICAL PARAMETER

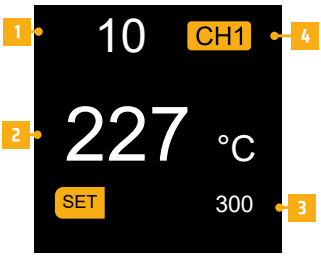
Power Supply and Power Parameters	Input Voltage: AC 100 ... 140V (110V version) / AC 200 ... 240V (220V version) Frequency: 50Hz / 60Hz, Max Power: 550W
Temperature Control Range	100°C ... 450°C (212°F ... 842°F)
Display Screen Size	1.54-inch LCD (240*240)
AirflowRate	BOL/min, Adjustable from 1-20 levels
Heating Tube Size	Length: 80mm Diameter: 21.6mm (compatible with 850 series nozzles)
Body Dimensions / Overall Weight	Handle (excluding nozzle): 260x60x40 mm Power Adapter: 118x50x30.6 mm 1391g
Cable Length	Handle Silicone Cable: 1.2m AC Power Cord: 1.2m
Operating Noise	<65dB

OPERATION INSTRUCTIONS

Power-Off State
Press and hold the middle button for approximately 3 seconds to power on. The power on/off state has a memory function. After powering on, the startup logo will be displayed. Oepending on whether the startup heating option is enabled or disabled (configurable), the device will enter different interfaces: If startup heating is disabled, you will be taken to a prompt screen, press any button to start heating and enter the main interface. If startup heating is enabled, there will be no prompt; the device will directly enter the main interiace and begin heating.

Prompt Interface
Press any button to enter the main interiace and start heating. Oouble-click the middle button to enter the menu interiace. If automatic shutdown is enabled, the device will automatically shut down alter reaching the sei time (configurable from 5 minutes to 15 minutes).

Main Interface
1 - Arflow Level (1 ... 20)
2 - Real-Time Temperature
3 - 5et Temperature (100 ... 450°C)
4 - Preset Groups (CHl ... 3)



In the main interface, the functions of each button are as follows:

Button	Single Click	Double Click	Loong press
Middle	Switch temperature / airflow speed settings	Enter menu settings interface	Cool down and shut down
Left	Step to decrease set temperature / airflow speed	/	Quickly decrease set temperature / airflow speed
Right	Step to increase set temperature / airflow speed	/	Quickly increase set temperature / airflow speed
Preset	Switch three preset levels	/	Switch airflow to cold air

Cooling Interface
When the temperature decreases to the standby temperature value (configurable from 70“[... 100“[). the device enters standby mode. Cooling speed has two options: normal cooling with the current airflow (quick cooling off) and rapid cooling with airflow at level 15 (quick cooling on). During the cooling process. if you lang press the middle button (if in the standby cooling interface. it will switch to the shutdown cooling interface and wait for shutdown; if in the shutdown cooling interface, you can return to the main interface to continue heating). If the handle is placed back in the holder during cooling, it will prompt standby mode. Picking up the handle will return to the main interface to continue heating.

Standby Interface
The standby interface is as shown in the right figure. When the handle is placed back into its holder. the system begins cooling. Once the temperature decreases to the standby temperature value (which can be sei between 70°C ans 100°C). it enters the standby interface. If the handle is picked up. the systemwill return to the main interface to continue heating operations. If automatic shutdown is sei. the system will enter the shutdown interface alter reaching the sei time. Additionally. pressing and holding the middle button will also bring up the shutdown interface. This interface also allows access to the menu interface by double-clicking the middle button.

Menu Interface
Double-click to enter the menu interface, where you can set various parameters. The main menu consists of 12 items, as shown in the right figure. The menu is divided into 2 levels (main menu and sub-menu). In the main menu interface, the functions of each button are as outlined in the table below:

Button	**Single Click**	**Long Press**
Left	Select the previous menu item	/
Right	Enter sub-menu (parameter settings)	Exil the main menu interface
Middle	Select the next menu item	/

In the sub-menu (parameter settings) interface, the functions of each button are as below:		
Left	Switch between different options / Adjust parameter values	/
Right	Save parameters and return to the main menu	Da not save parameters and return to the main menu
Middle	Switch between different options / Adjust parameter values	/

The parameters and descriptions for each sub-menu are as outlined in the table below:

Menu Items	**Definitions**	**Factory Settings**	**Adjustable Range**
Auto off	Time to wait in standby mode before automatic shutdown. Setting it to OFF disables automatic shutdown.	5 minutes	Never Shutdown, 5 minutes, 10 minutes, 15 minutes
Heat	Whether to skip the prompt screen Press any key to start heating and proceed directly to heating.	Off	Off/ On
Unit	The unit of temperature displayed an the interface.	°C	Celsius (°C) / Fahrenheit (°F)
Language	The language displayed an the interface.	Simplified Chinese	Simplified Chinese/ English
Shortcut	Set the fan speed and temperature for preset levels.	Fan speed 10, Temperature 300°C	Fan speed 1 ... 20, Temperature 100 ... 450"C
Step	The temperature adjustment step value.	25°C	5°C ... 25°C
Standby	Set the standby temperature/ shutdown temperature	80°C	70°C... 100°C
Cooling	Whether to enable rapid cooling mode. When enabled, the system will blow a higher volume of air during standby to cool down faster.	Open	Close / Open
Temp CAL	Calibrate the temperature. After selection, the hol air gun will blow air at the corresponding temperature level.	120°C, 220°C, 320°C, 420°C	/
Brightness	Set the screen brightness.	10	1 ... 10
Reset	Restare the settings to factory default.	Cancel	Cancel / Confirm
About	Brand information, version number.	VI.O	/

PRECAUTIONS

» The air outlet of the hot air gun and its surroundings may reach extremely high temperatures. Even if the system is in cooling standby or turned oll, exercise caution to avoid bums!
» After using the machine, always place the handle correctly back on the handle holder. Wait until the machine has automatically cooled down to the set standby temperature (70 ... 100°C) before turning it oll or unplugging it.
» Ensure that the steel pipe air outlet and the fan intake are unobstructed and free from blockages! Maintain proper air circulation.
» During use, maintain at least a 2mm distance between the air outlet and the object to be desoldered to ensure proper desoldering.
» For different desoldering scenarios, select the appropriate nozzle. Note that different nozzles may result in variations in the air outlet temperature.
» The brushless fan integrated into the handle may vibrate during operation; this is normal. You can reduce the fan speed to minimize vibration.
» Do not use the machine in environments with flammable or explosive gases or substances! Avoid using it in excessively humid environments as well.
» Use a 220VAC power supply with a grounding wire for the machine. If the machine is not used for an extended period, please unplug the power cord!
» Keep the machine out of reach of children!

DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose. In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law. For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations. If you have any questions, please contact PCE Instruments.

PCE INSTRUMENTS CONTACT INFORMATION

Germany
PCE Deutschland GmbH
Im Langel 26
D-59872 Meschede
Deutschland
Tel.: +49 (0) 2903 976 99 0
Fax: +49 (0) 2903 976 99 29
info@pce-instruments.com
www.pce-instruments.com/deutsch

France
PCE Instruments France EURL
2, rue Georges Kuhnmunch
67250 Soultz-sous-Forêts
France
Tel.: +33 (0) 972 35 37 17
Fax.: +33 (0) 972 35 37 18
info@pce-france.fr
www.pce-instruments.com/french

Spain
PCE Ibérica S.L.
Calle Mula, 8
02500 Tobarra (Albacete)
España
Tel. : +34 967 543 548
info@pce-iberica.es
www.pce-instruments.com/espanol

United Kingdom
PCE Instruments UK Ltd
Trafford House
Chester Rd, Old Trafford
Manchester M32 0RS
United Kingdom
Tel: +44 (0) 161 464902 0
Fax: +44 (0) 161 464902 9
info@pce-instruments.co.uk
www.pce-instruments.com/english

Italy
PCE Italia s.r.l.
Via Pesciatina 878 / B-Interno 6
55010 Loc. Gragnano
Capannori (Lucca)
Italia
Telefono: +39 0583 975 114
Fax: +39 0583 974 824
info@pce-italia.it
www.pce-instruments.com/italiano

Turkey
PCE Teknik Cihazları Ltd.Şti.
Halkalı Merkez Mah.
Pehlivan Sok. No.6/C
34303 Küçükçekmece - İstanbul
Türkiye
Tel: 0212 471 11 47
Faks: 0212 705 53 93
info@pce-cihazlari.com.tr
www.pce-instruments.com/turkish

The Netherlands
PCE Brookhuis B.V.
Twentepoort West 17
7609 RD Almelo
Nederland
Telefoon: +31 (0)53 737 01 92
info@pcebenelux.nl
www.pce-instruments.com/dutch

United States of America
PCE Americas Inc.
1201 Jupiter Park Drive, Suite 8
Jupiter / Palm Beach
33458 FL
USA
Tel: +1 (561) 320-9162
Fax: +1 (561) 320-9176
info@pce-americas.com
www.pce-instruments.com/us

Denmark
PCE Instruments Denmark ApS
Birk Centerpark 40
7400 Herning
Denmark
Tel.: +45 70 30 53 08
kontakt@pce-instruments.com
www.pce-instruments.com/dansk

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