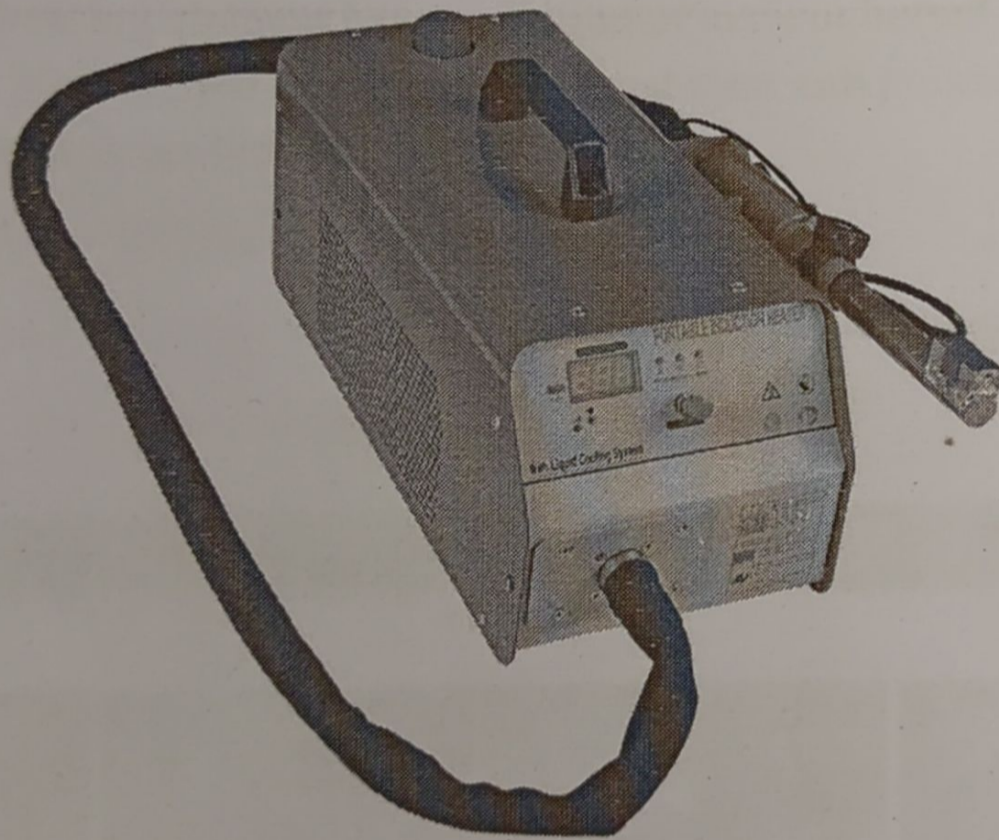


DW-3.5KW Portable Induction Heater

User Manual

CE APPROVED










Thank you for choosing our flameless heating system, before you use it, we strongly recommend you go through the following content for safe and appropriate use.

Contents

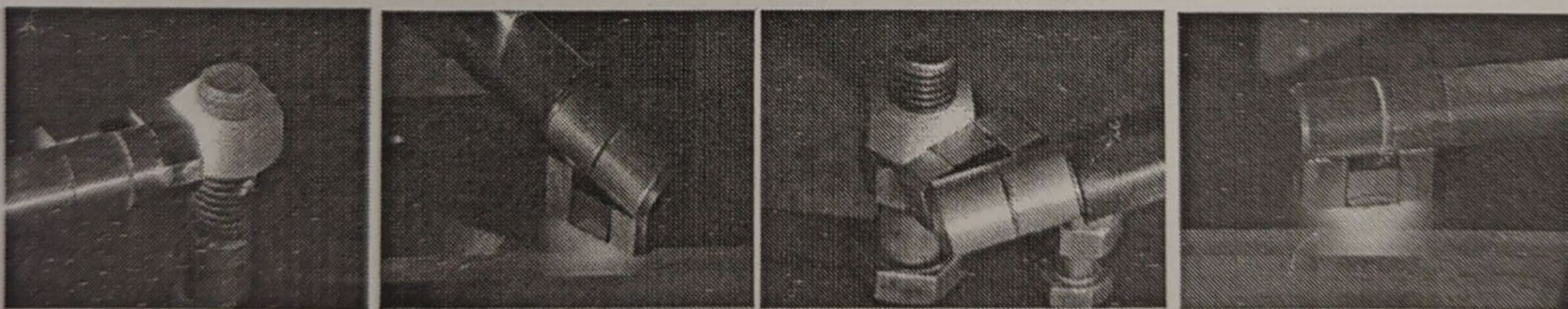
Safety Cautions.....	2
Functions.....	2
Device Description.....	3
Operation Steps	3
Use Rules.....	4
Bolt Heating Parameters.....	5
Iron Temperature and Color Reference.....	5
Trouble Shoot.....	6
Parameters.....	6



Safety Cautions

-  People who has an artificial heart pacemaker, who has similar electric medical device should avoid using or nearing this device.
-  For professional use only.
-  Avoid wearing a ring, other metal jewelries, key, watch or any metal gadget, any cloth that has metal rivets nearing the induction coil, electromagnetic induction may cause high temperature of such metal parts and may lead to skin burn or burning of cloth.
-  If the heating element has deposition of toxic or become toxic matters due to high temperature, operator must wear anti poison gas mask or equal safety protection.
-  Electric shock can cause death.
-  Clear inflammable, explosive matters near the working area before use.
-  Protection gloves should be wear during use.

Functions

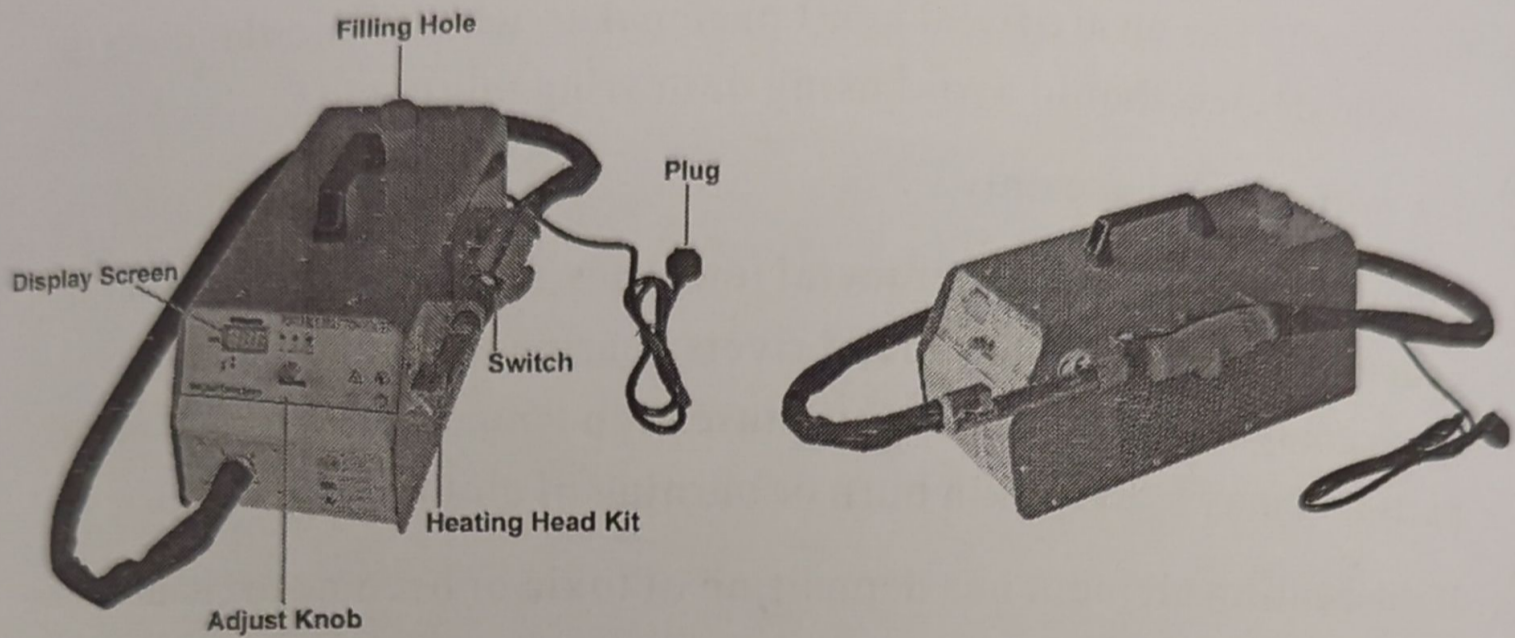


Heating rusted bolt nut, by the purpose of fast and easy remove from machines, cars etc. Using the thermal expansion theory, when the nuts of the bolt is heat, it expands which makes it easy to be removed from rusted bolt. And heating Automobile glass, for easy remove form Automobile;

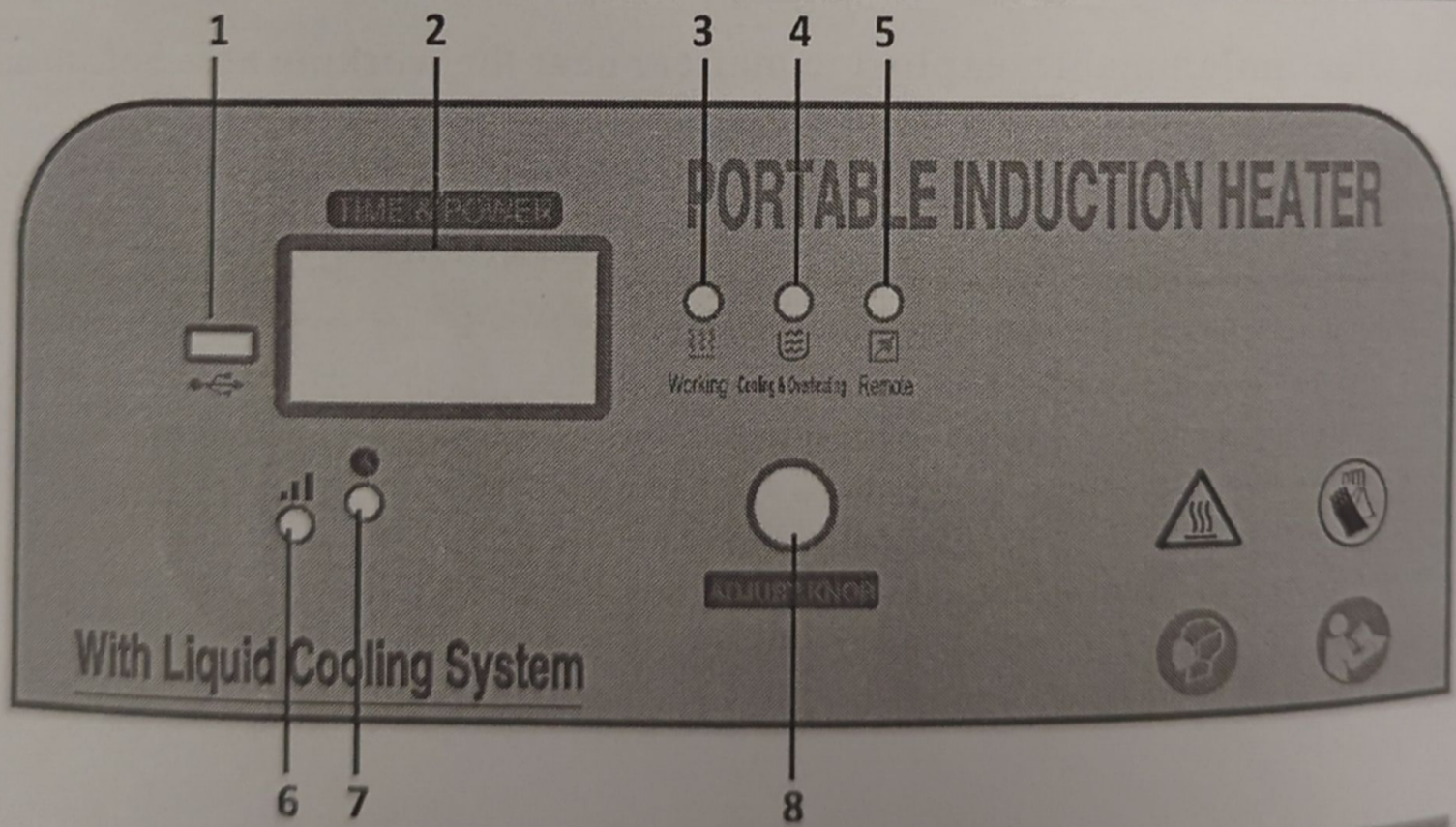
If you need to use this device to others applications, please contact local dealer for support, any inappropriate operation may cause damage to the device.



Device Description



DESCRIPTION OF DEVICE COMPONENTS



PoS.	Description	PoS	Description
1	USB connector	5	Indicator REMOTE
2	Display	6	Control indicator
3	Heating indicator	7	Indicator TIMER
4	Cooling and overheating indicator	8	Encoder







Use Rules

Heating indicator lamp





- Indicates heating status.



	Indicator lamp	Status
	Green	Heating in progress
	Yellow	Warning – limited heating output
	Red	Heating error – overloading
	Red, flashing	Heating error – wrong coil

Cooling and overheating indicator lamp



	Indicator lamp	Status
	Green	Cooling in progress
	Green, flashing	Only water circuit active, venting
	Yellow	Warning – near overheating
	Red	Cooling error – no coolant or hose squeezed

Activating The Device

- Check the coolant level and refill if necessary.
- Connect the device to a socket and turn it on using the switch at the back of the device.
- The device autodiagnostic test (self-test) is initiated automatically and the cooling circuit is vented; the letters "FIL" flash on the display during this".
- If the device detects lack of coolant, it displays the error message E12:
In that case, refill the coolant in the tank.
- If everything is in order, the device switches to standby.

Standby

This is the initial device status, which allows turning the encoder to set the desired heating power or temperature, depending on the mode selected:

- Controlled power mode (CP), indicator lamp glows red ● – the user sets the desired heating power in % of maximum heating power and the device automatically adjusts the required parameters to maintain the set power.
- Controlled magnetic field mode (CF), indicator lamp glows green ● – the user sets the desired field intensity in % of maximum field intensity and the device automatically maintains the set field intensity.

The indicator lamp starts flashing during the heating and the display shows the current readings of power output in kW.

The desired heating mode can be set in the settings or switched by pressing and holding down the encoder – the display shows the corresponding mode name CP/CF and the indicator lamp changes colour.

Press the encoder to move to further device parameter settings, such as the heating timer, etc.

Note: If the power is controlled remotely, the letters "rc" are displayed for 3 sec when turning the encoder.

Indicator lamp		Status
●	Red	Heating power setting in %, mode CP
⦿	Red, flashing	Power reading in kW during the heating
●	Green	Magnetic field intensity setting in %, mode CF
⦿	Green, flashing	Power reading in kW during the heating

Heating Time

The timer makes it possible to automatically stop heating after a set amount of time, enabling accurate dosing of energy (heat) introduced to the material, e.g., for spot or repeated heating to a set temperature. Press the encoder repeatedly until the ⌚ TIMER indicator lamp glows red ●. Turn to set the desired heating time in seconds or deactivate the timer by selecting "OFF".

If the timer is set, then the indicator lamp glows green ● when the heating starts, and if the heating is stopped by the timer, the indicator lamp starts flashing green ⦿ and the display shows the letters "OFF" once the button is released. Releasing the button stops the heating immediately.

Note: If heating is started in the timer settings, the display will show the remaining heating time (remaining heating time countdown).

Note: Press the encoder to enter pre-heating/program settings (see following chapter). To exit to power settings immediately, press and hold down the encoder.

Indicator lamp		Status
●	Red	Heating time settings
⦿	Green, flashing	Latest reading
⦿	Red, flashing	Current reading during the heating

Iron Temperature and Color Reference

Temperature °C	400	500	550	600	650	700	750	800	850	900	950	1000
Color												



Trouble Shoot

Items	Solutions
<p>No response after pressing "ON" button, no indication light on, no fan working, no increasing heat of heating object.</p>	<ol style="list-style-type: none"> 1. Check if the plug is broken; 2. If plug is firmly plugged in; 3. If the switch on the socket is on; 4. Or the fuse in the plug (British type) is damaged;
<p>Indication light is on, cooling fan is on, slow heating speed;</p>	<ol style="list-style-type: none"> 1. If using large coil for small diameter bolt, difference is more than 20-30mm. 2. If the front coil is breach or off, and the turns of coil attached to each other. 3. Check to see if the water is flowing in machine.
<p>Heating duration did not last for 1 minute before shutting off.</p>	<ol style="list-style-type: none"> 1. Check if the insulation is breach and the coil has contact with bolt and lead to short circuit. 2. If the heating bolt is surrounded by metal object, which will increase the load of the device. please clean the surrounding metal or concentrate power to the bolt. 3. After device recover to normal function, heat still remain in the device, please wait longer time to cool the device.
<p>It is in Normal condttion if</p>	<ol style="list-style-type: none"> 1. After press button, it takes 2-3 seconds to start working; 2. When working, it gives off slight buzz sound

Parameters

Voltage: 110V/220V/230V AC 50/60Hz;
 Rated Power: 3500W (Note: Working power changes as the heating element size changes)

