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Geben Sie bei allen Rückfragen und Ersatzteilbestellungen bitte unbedingt die 10-stellige Sachnummer laut Typenschild des Produkts an.

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Entsorgung

Elektrowerkzeuge, Zubehör und Verpackungen sollen einer umweltgerechten Wiederverwertung zugeführt werden.



Werfen Sie Elektrowerkzeuge nicht in den Hausmüll!

Nur für EU-Länder:

Gemäß der Europäischen Richtlinie 2012/19/EU über Elektro- und Elektronik-Altgeräte und ihrer Umsetzung in nationales Recht müssen nicht mehr gebrauchsfähige Elektrowerkzeuge getrennt gesammelt und einer umweltgerechten Wiederverwertung zugeführt werden.

English

Safety instructions



Read all the safety information and instructions. Failure to observe the safety information and follow instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

- ▶ **This heat gun is not intended for use by children or persons with physical, sensory or mental limitations or a lack of experience or knowledge. This heat gun can be used by children aged 8 or older and by persons who have physical, sensory or mental limitations or a lack of experience or knowledge if a person responsible for their safety supervises them or has instructed them in the safe operation of the heat gun and they understand the associated dangers.**

Otherwise there is a risk of operating errors and injury.

- ▶ **Supervise children during use, cleaning and maintenance.** This will ensure that children do not play with the heat gun.
- ▶ **Handle the power tool with care.** The power tool produces intense heat which increases the risk of fire and explosion.
- ▶ **Take particular care when working in the vicinity of flammable materials.** The hot airflow or hot nozzle may ignite dust or gases.
- ▶ **Do not work with the power tool in potentially explosive areas.**

- ▶ **Do not aim the hot airflow at the same area for prolonged periods.** Working with plastic, paint, varnish or similar materials may produce easily flammable gases.
 - ▶ **Please be aware that heat is directed to covered flammable materials, which may ignite.**
 - ▶ **Safely place the power tool on the storage surfaces after use and let it cool completely before packing it away.** The hot nozzle can cause damage.
 - ▶ **Do not leave the switched-on power tool unattended.**
 - ▶ **Store idle power tools out of the reach of children. Do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
 - ▶ **Do not expose the power tool to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
 - ▶ **Do not misuse the cable, for example by using it to carry, hang up or unplug the power tool.** Keep the cable away from heat and oil. Damaged or entangled cords increase the risk of electric shock.
 - ▶ **Always wear safety goggles.** Safety goggles reduce the risk of injury.
 - ▶ **Pull the plug out of the socket before adjusting the tool settings, changing accessories, or storing the power tool.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
 - ▶ **Always check the power tool, cable and plug before use. Stop using the power tool if you discover any damage. Do not open the power tool yourself, and have it repaired only by a qualified specialist using only original replacement parts.** Damaged power tools, cables and plugs increase the risk of electric shock.
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Keep your work area well-ventilated. The gas and steam produced during work are often harmful to one's health.
- ▶ **Wear protective gloves and do not touch the nozzle while it is hot.** There is a risk of burns.
 - ▶ **Do not direct the airflow at persons or animals.**
 - ▶ **Do not use the power tool as a hair dryer.** The outgoing airflow is considerably hotter than that of a hair dryer.
 - ▶ **Do not allow foreign objects to enter the power tool.**
 - ▶ **The distance between the nozzle and the workpiece depends on the material you are working on (metal, plastic, etc.) and the intended working method.** Always test the amount of air and temperature first.
 - ▶ **If operating the power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
 - ▶ **Never use the power tool if the cable is damaged. Do not touch the damaged cable and pull out the mains plug if the cable is damaged while working.** Damaged cables increase the risk of an electric shock.

Products sold in GB only:

Your product is fitted with an BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).

If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorised customer service agent. The replacement plug should have the same fuse rating as the original plug.

The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.

Product Description and Specifications

Please observe the illustrations at the beginning of this operating manual.

Intended Use

The power tool is intended for bending and welding plastic, stripping coats of paint and heating shrink tubing. It is also suitable for soldering and tinning, melting adhesive bonding and thawing water pipes.

The power tool is intended to be operated by hand, under supervision.

Product Features

The numbering of the product features refers to the diagram of the power tool on the graphics page.

- (1) Nozzle
- (2) Heat shield, removable
- (3) Storage surface
- (4) On/off switch and power settings
- (5) Memory preset
- (6) Temperature
- (7) Thermal protection shutdown
- (8) Fan symbol
- (9) Airflow
- (10) Fan button
- (11) Memory button
- (12) +/- button
- (13) Display
- (14) Surface nozzle^{A)}
- (15) Glass protection nozzle^{A)}
- (16) Angle nozzle^{A)}
- (17) Reflector nozzle^{A)}
- (18) Welding wire^{A)}
- (19) Welding shoe^{A)}
- (20) Reducing nozzle^{A)}
- (21) Heat shrink plastic tube^{A)}

A) Accessories shown or described are not included with the product as standard. You can find the complete selection of accessories in our accessories range.

Technical Data

Heat gun		GHG 20-63	GHG 23-66
Article number		3 601 BA6 2..	3 601 BA6 3..
Rated power input	W	2000	2100 (2300 ^{A)})
Airflow	l/min	150/150-300/ 300-500	150-300/ 150-500
Temperature at the nozzle outlet ^{B)}	°C	50-630	50-650
Temperature measurement accuracy			
- at the nozzle outlet		±10 %	±10 %
- on the display		±5 %	±5 %
Operating temperature of display ^{C)}	°C	0 to +50	0 to +50
Max. permissible ambient temperature during operation	°C	40	40
Weight according to EPTA-Procedure 01:2014	kg	0.65	0.67
Protection class		□/II	□/II

A) Maximum possible input power

B) At an ambient temperature of approx. 20 °C

C) The display may go blank if outside the operating temperature.

The specifications apply to a rated voltage [U] of 230 V. These specifications may vary at different voltages and in country-specific models.

Noise/vibration information

Typically, the A-weighted sound pressure level of the power tool is less than **70 dB(A)**.

Vibration total values a_h (triax vector sum) and uncertainty K:
 $a_h \leq 2.5 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$.

Operation

Starting Operation

- **Pay attention to the mains voltage.** The voltage of the power source must match the voltage specified on the rating plate of the power tool.

Creation of Smoke During Initial Use

A coating protects the metal surfaces from corrosion ex-works. This protective layer evaporates during initial use.

Switching On

Slide the on/off switch **(4)** upwards.

Thermal protection shutdown: If the power tool overheats (e.g. due to a build-up of air), the heating system will automatically switch off, though the blower will continue to run. Once the power tool has cooled back down to its operating temperature, the heating system will automatically switch on again.




Switching Off

Slide the on/off switch **(4)** downwards into the **0** position.

- **After working at high temperatures for a prolonged period, let the power tool cool down before switching it off. To do this, allow it to run on the lowest temperature setting for a short while.**

Regulating airflow (GHG 20-63)

With the on/off switch **(4)**, you can set the airflow to one of several different levels:

Airflow setting	l/min	°C
	150	50
	150-300	50-630
	300-500	50-630

The specifications apply to a rated voltage [U] of 230 V. These specifications may vary at different voltages and in country-specific models.

Reduce the airflow, for instance, if the area surrounding a workpiece cannot tolerate excessive heat or if a workpiece is light enough that the airflow might move it.

Regulating temperature (GHG 20-63)

On the lowest airflow setting, the temperature is set to 50 °C. In the other two airflow settings, the temperature can be adjusted.

When switching from the lowest airflow setting to another setting, the temperature last set is called up again.

To increase the temperature, press **+** on the **(12)** button; to decrease the temperature, press **-**.

Briefly pressing the **(12)** button increases or decreases the temperature by 10 °C. Pressing and holding down the button continuously increases or decreases the temperature by 10 °C until the button is released or the maximum/minimum temperature is reached.

The set target temperature is shown in the display for three seconds. The actual temperature at the nozzle output is displayed and the unit of measure for the temperature **(6)** flashes until the target temperature is reached. The unit of measure for the temperature stops flashing once the target temperature is reached.

► **If you reduce the temperature, it takes a little while for the power tool to cool down.**

The lowest airflow setting is suitable for cooling down a heated workpiece or for drying paint. It is also suitable for cooling down the power tool before putting it down or changing the attachment nozzles.

Regulating airflow (GHG 23-66)

In switch position **1** on the on/off switch **(4)**, you can adjust the airflow in ten increments between 150 and 300 l/min. In switch position **2**, you can adjust the airflow in ten increments between 150 and 500 l/min.

Alternatively, you can use the saved airflow/temperature combinations (see "Saving airflow/temperature combinations (GHG 23-66)", page 14).

The set airflow is displayed with the ten bar segments **(9)** at the lower edge of the display.

Switch position	l/min	°C
1	150–300	50
2	150–500	50–650

To adjust the airflow, first press the fan button **(10)**. The fan symbol **(8)** in the display flashes. The airflow can now be regulated with the airflow control button **(12)**.

To increase the airflow, press **+** on the **(12)** button; to decrease the airflow, press **-**.

If you wish to adjust the temperature again using the **(12)** button, press the fan button **(10)** again. The fan symbol **(8)** in the display stops flashing.

If you move from switch position **1** to position **2**, the airflow/temperature combination last used in position **2** is set.

Reduce the airflow, for instance, if the area surrounding a workpiece cannot tolerate excessive heat or if a workpiece is light enough that the airflow might move it.

Regulating temperature (GHG 23-66)

In switch position **1** on the on/off switch **(4)**, the temperature is fixed at 50 °C. In switch position **2**, you can adjust the temperature between 50 and 650 °C.

Alternatively, you can use the saved airflow/temperature combinations (see "Saving airflow/temperature combinations (GHG 23-66)", page 14).

The set temperature is shown in the display **(13)**.

Switch position	°C	l/min
1	50	150–300
2	50–650	150–500

To increase the temperature, press **+** on the **(12)** button; to decrease the temperature, press **-**.

Briefly pressing the **(12)** button increases or decreases the temperature by 10 °C. Pressing and holding down the button continuously increases or decreases the temperature by 10 °C until the button is released or the maximum/minimum temperature is reached.

The set target temperature is shown in the display for three seconds. The actual temperature at the nozzle output is displayed and the unit of measure for the temperature **(6)** flashes until the target temperature is reached. The unit of measure for the temperature stops flashing once the target temperature is reached.

► **If you reduce the temperature, it takes a little while for the power tool to cool down.**

Switch setting **1** is suitable for cooling down a heated workpiece or for drying paint. It is also suitable for cooling down the power tool before putting it down or changing the attachment nozzles.

Saving airflow/temperature combinations (GHG 23-66)

You can save four airflow/temperature combinations or access four saved preset combinations.

To do this, the on/off switch **(4)** must be set to switch position **2**.

Factory settings			
Memory preset	°C	l/min	Application
0 ^{A)}	50	150	Cooling down a workpiece – Drying paint
1	250	350	Shaping plastic pipes
2	350	400	Welding plastic
3	450	500	Removing varnish
4	550	400	Soft soldering

A) Not shown in the display

To call up a combination, keep pressing the memory button **(11)** until the number you want appears in the display **(5)**.

To save your own combination:

- Press the memory button **(11)** to select the memory preset you want.
- Set the desired temperature and airflow. The memory preset **(5)** flashes to indicate that the saved combination has been changed.
- Press and hold down the memory button **(11)**. The memory preset **(5)** flashes for around two seconds. When it lights up continuously, the new combination has been saved.

Practical advice

► **Pull the plug out of the socket before carrying out any work on the power tool.**

Note: Do not position the nozzle **(1)** too close to the workpiece that you are using the power tool on. The resulting build-up of air can cause the power tool to overheat.

Removing the heat shield

When working in particularly tight spaces, you can remove the heat shield **(2)** by turning it.

► **Caution: Nozzle is hot!** Working without the heat shield increases the risk of burns.

Always switch the power tool off and allow it to cool before removing or attaching the heat shield **(2)**.

To make the power tool cool down quicker, you can also let it run briefly on its lowest temperature setting.

Setting down the power tool

Set the power tool down on the storage surfaces **(3)** to leave it to cool down or to keep both hands free to work with.

- ▶ **Take particular care when working in the vicinity of the power tool while it has been set aside.** The heat from the nozzle or the air flow can cause burns.

Position the power tool on an even, stable surface. Ensure that it cannot tip over. Secure the cable outside of your working area so that it cannot pull the power tool down or cause it to flip over.

Switch the power tool off when not in use for a long period and pull the mains plug out of the socket.

Example applications (see figures A–G)

Images of example applications can be found on the graphics pages.

The distance between the nozzle and the workpiece depends on the material you are working on (metal, plastic etc.) and the intended working method.

The optimum temperature for each application can be determined by a practical test.

Always test the amount of air and temperature first. Start at a greater distance and a lower power setting. Then adjust the distance and power setting according to requirements.

If you are unsure what material you are working on or what effect the hot air might have on it, first test the effect on a concealed area.

All example applications apart from "Stripping paint from window frames" can be carried out without the use of accessories. However, using the recommended accessories will simplify the work and considerably increase the quality of the result.

- ▶ **Take care when changing the nozzle. Do not touch the nozzle while it is hot. Leave the power tool to cool down before changing the nozzle, and wear protective gloves when doing so.** The heat from the nozzle can cause burns.

To make the power tool cool down quicker, you can also let it run briefly on its lowest temperature setting.

Removing varnish/loosening adhesives(see figure A)

Fit the surface nozzle **(14)** (accessory). Briefly soften the varnish with hot air and remove it with a clean spatula. Long heat exposure burns the varnish and makes removal more difficult.

Many adhesives can be softened using heat. By heating adhesives, you can break connections or remove excess adhesive.

Stripping paint from window frames (see figure B)

- ▶ **The glass protection nozzle (15) (accessory) must be used for this application.** There is a risk that the glass may break.

You can remove the paint from profiled surfaces with a suitable spatula and brush it off with a soft wire brush.

Thawing frozen water pipes (see figure C)

- ▶ **Before applying heat to the pipe, check it is in fact a water pipe.** Water pipes and gas pipes often look identical from the outside. Gas pipes must under no circumstances be heated.

Fit the angle nozzle **(16)** (accessory). Gradually heat the frozen points of the pipe, starting at the outlet and moving back towards the inlet.

Take great care when warming plastic pipes and pipe connections to avoid causing damage.

Shaping plastic pipes (see figure D)

Fit the reflector nozzle **(17)** (accessory). Fill plastic pipes with sand and seal them on both sides to prevent the pipe bending. Carefully and evenly heat the pipe by moving the tool back and forth from one side to the other.

Welding plastic (see figure E)

Fit the reducing nozzle **(20)** and the welding shoe **(19)** (both accessories). The workpiece requiring welding and the welding wire **(18)** (accessory) must be made from the same material (e.g. both PVC). The seam must be clean and free from grease.

Heat the point of the seam carefully until it becomes pliable. Note that there is not a great difference in temperature between pliable plastic and liquid plastic.

Apply the welding wire **(18)** and allow it to flow into the joint to form an even bead.

Soft Soldering (see figure F)

For spot welding, fit the reducing nozzle **(20)**; for welding pipes, fit the reflector nozzle **(17)** (both accessories).

If you are using solder without flux, apply soldering grease or paste to the solder joint. Depending on the material, heat the solder joint for approx. 50 to 120 seconds. Apply the solder. The solder must be melted by the temperature of the workpiece.

If necessary, remove the flux after the solder joint has cooled down.

Heat-shrinking (see figure G)

Fit the reflector nozzle **(17)** (accessory). Choose the diameter of the heat shrink plastic tube **(21)** (accessory) suitable for the workpiece. Evenly heat the heat shrink plastic tube until it fits closely against the workpiece.

Maintenance and Servicing

Maintenance and Cleaning

- ▶ **Pull the plug out of the socket before carrying out any work on the power tool.**
- ▶ **To ensure safe and efficient operation, always keep the power tool and the ventilation slots clean.**

In order to avoid safety hazards, if the power supply cord needs to be replaced, this must be done by **Bosch** or by an after-sales service centre that is authorised to repair **Bosch** power tools.