

**WEU**

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**1 609 929 X70** (2011.01) T / 90 **WEU**



**1 609 929 X70**

**WEU**



**PHG**

500-2 | 600-3 | 630 DCE



**BOSCH**

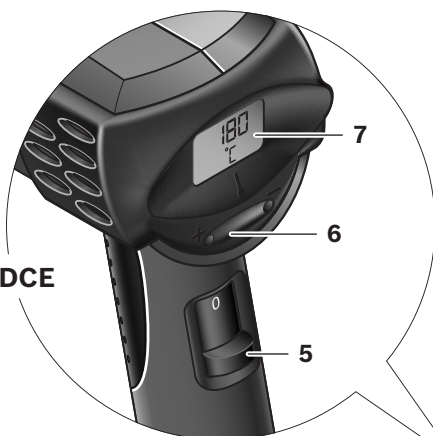
**de** Originalbetriebsanleitung  
**en** Original instructions  
**fr** Notice originale  
**es** Manual original  
**pt** Manual original  
**it** Istruzioni originali  
**nl** Oorspronkelijke gebruiksaanwijzing  
**da** Original brugsanvisning

**sv** Bruksanvisning i original  
**no** Original driftsinstruks  
**fi** Alkuperäiset ohjeet  
**el** Πρωτότυπο οδηγιών χρήσης  
**tr** Orijinal işletme talimatı  
**ar** تعليمات التشغيل الأصلية



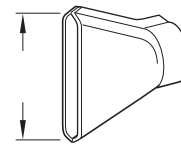
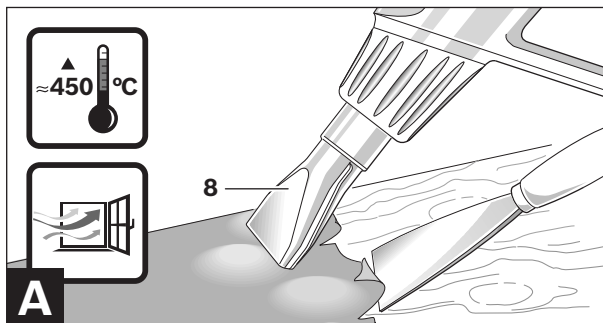


**PHG 630 DCE**

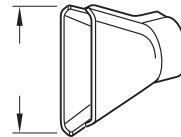
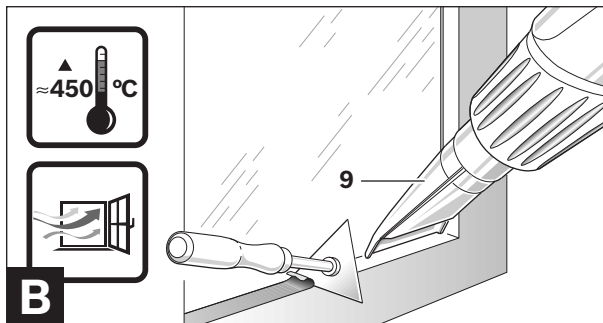


**PHG 500-2**  
**PHG 600-3**

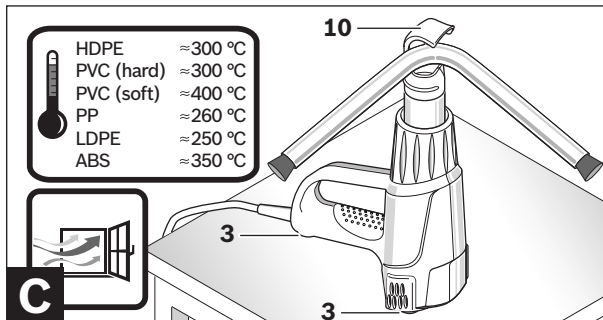
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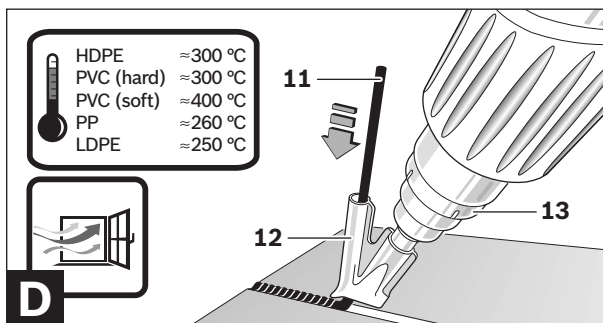
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50 mm 1 609 201 795



75 mm 1 609 390 452  
50 mm 1 609 201 796



Ø 40 mm 1 609 390 453

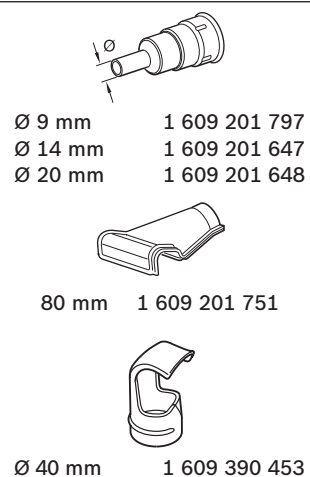
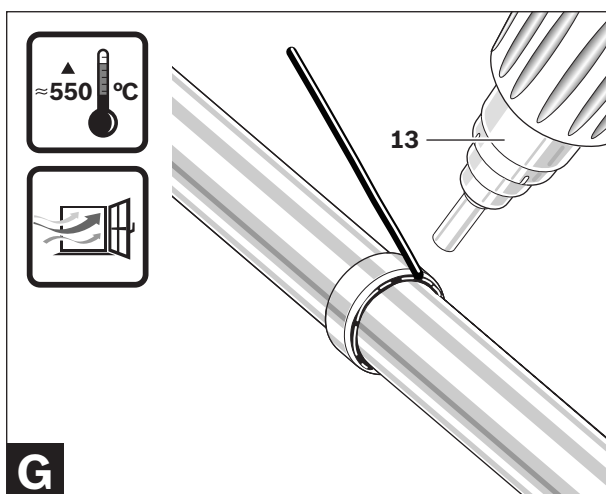
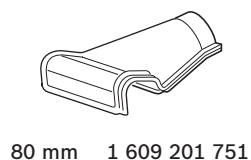
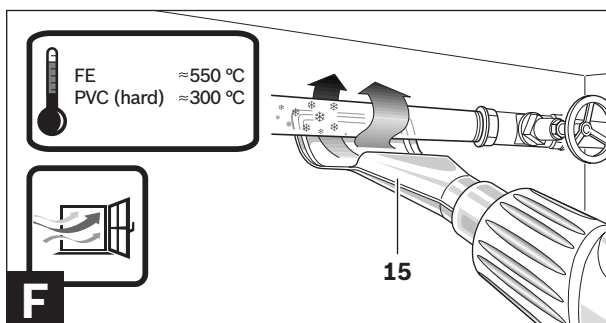
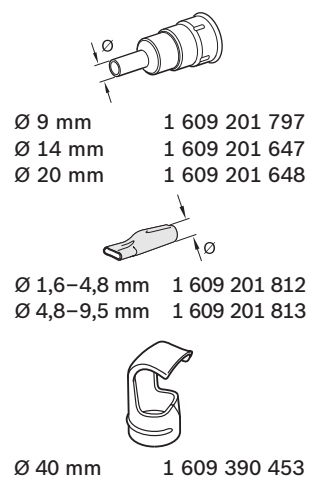
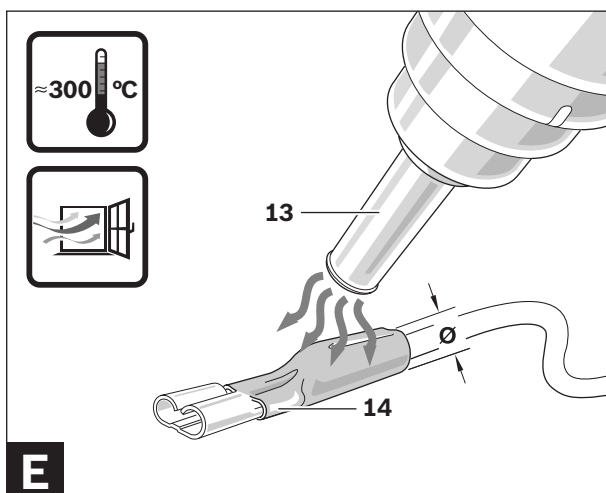


HDPE ≈ 300 °C  
PVC (hard) ≈ 300 °C  
PVC (soft) ≈ 400 °C  
PP ≈ 260 °C  
LDPE ≈ 250 °C



1 609 201 797

1 609 201 798



## Safety Notes



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

- ▶ **Supervise children.** This will ensure that children do not play with the hot air gun.
- ▶ **Children or persons that owing to their physical, sensory or mental limitations or to their lack of experience or knowledge, are not capable of securely operating the hot air gun, may only use this hot air gun under supervision or after having been instructed by a responsible person.** Otherwise, there is danger of operating errors and injuries.
- ▶ **Be careful when working with the power tool.** The power tool produces intense heat which can lead to increased danger of fire and explosion.
- ▶ **Exercise special care when working close to inflammable materials.** The hot air jet or the hot nozzle can ignite dust or gases.
- ▶ **Do not operate or work with the power tool in areas where there is danger of explosion.**
- ▶ **Never direct the hot air jet at the same position for longer periods.** Easily inflammable gases can develop e.g., when working plastic, paint, varnish or similar materials.
- ▶ **Be aware that heat can be conducted to hidden covered materials and can ignite them.**
- ▶ **After using, place the power tool down in a secure manner and allow it to cool down 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 abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- ▶ **Always wear safety goggles.** Safety goggles will reduce the risk of injuries.
- ▶ **Disconnect the plug from the socket outlet before making any adjustments, changing accessories, or placing the power tool aside.** This safety measure prevents unintentional starting of the power tool.
- ▶ **Check the power tool, cord and plug each time before use. Do not use the power tool if damage is determined. Do not open the power tool yourself and have it serviced only by a qualified repair person using only original spare parts.** Damaged power tools, cords and plugs increase the risk of electric shock.



**Provide for good ventilation of your working place.** Gas and vapour developing during working are often harmful to one's health.

- ▶ **Wear safety gloves and do not touch the hot nozzle.** Danger of burning.
- ▶ **Never direct the hot air jet against persons or animals.**
- ▶ **Do not use the power tool as a hairdryer.** The hot air being blown out is significantly hotter than that from a hairdryer.
- ▶ **When operating the power tool in damp environments is unavoidable, use a residual current device (RCD).** The use of a residual current device (RCD) reduces the risk of an electric shock.
- ▶ **Never use the machine with a damaged cable. Do not touch the damaged cable and pull the mains plug when 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

### Intended Use

The power tool is intended for the forming and welding of plastic, removal of paint and the warming of heat-shrinkable tubing. It is also suitable for soldering and tinning, loosening of adhesive joints and the defrosting of water lines.

### Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page.

- 1** Nozzle
- 2** Heat protection collar
- 3** Standing surface
- 4** On-/Off switch with air-volume regulator and temperature control (PHG 500-2/PHG 600-3)
- 5** On/Off switch with air-volume regulator (PHG 630 DCE)
- 6** Button for temperature control (PHG 630 DCE)
- 7** Display (PHG 630 DCE)
- 8** Wide jet nozzle\*
- 9** Glass protection nozzle\*
- 10** Reflector nozzle\*
- 11** Welding rod\*
- 12** Welding shoe\*
- 13** Reduction nozzle\*
- 14** Heat-shrinkable sleeve\*
- 15** Angle nozzle\*

**\*Accessories shown or described are not part of the standard delivery scope of the product. A complete overview of accessories can be found in our accessories program.**

### Noise Information

Measured sound values determined according to EN 60745.

Typically the A-weighted sound pressure level of the product is lower than 70 dB(A).

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## Technical Data

| Hot Air Gun                                |       | PHG 500-2     | PHG 600-3     | PHG 630 DCE   |
|--------------------------------------------|-------|---------------|---------------|---------------|
| Article number                             |       | 0 603 29A 0.. | 0 603 29B 0.. | 0 603 29C 7.. |
| Rated power input                          | W     | 1600          | 1800          | 2000          |
| Air flow                                   | l/min | 240/450       | 250/350/500   | 150/300/500   |
| Temperature at the nozzle outlet (approx.) | °C    | 300/500       | 50/400/600    | 50–630        |
| Temperature-measuring accuracy             |       |               |               |               |
| – at the nozzle outlet                     |       | ±10 %         | ±10 %         | ±10 %         |
| – on the display                           |       | –             | –             | ±5 %          |
| Display operating temperature*             | °C    | –             | –             | 0...+50       |
| Weight according to EPTA-Procedure 01/2003 | kg    | 0.75          | 0.8           | 0.9           |
| Protection class                           |       | □/II          | □/II          | □/II          |

\* The display can turn black when not within the operating temperature.

The values given are valid for a nominal voltage [U] of 230 V. For different voltages and models for specific countries, these values can vary.

Please observe the article number on the type plate of your machine. The trade names of the individual machines may vary.

## Operation

### Starting Operation

- **Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the nameplate of the machine. Power tools marked with 230 V can also be operated with 220 V.**

#### Switching On

**PHG 500-2:** Press the On/Off switch **4** to position **I** or **II**.

**PHG 600-3:** Press the On/Off switch **4** to position **I**, **II** or **III**.

**PHG 630 DCE:** Press the On/Off switch **5** to position **I**, **II** or **III**.

**Thermal-protection shut-off:** In case of over-heating (e.g. due to air build-up), the power tool automatically shuts off the heating system, but the blower will continue to run. When the power tool has cooled down to the operating temperature, the heating system is automatically switched on again.

#### Switching Off

**PHG 500-2/PHG 600-3:** Press the On/Off switch **4** to position **0**.

**PHG 630 DCE:** Press the On/Off switch **5** to position **0**.

**PHG 600-3/PHG 630 DCE:** After working for a longer time with high temperature, allow the power tool to cool down by running it in the cold air setting **I** before switching off.

### Setting the Air Flow and Temperature (PHG 500-2/PHG 600-3)

With the On/Off switch **4**, you can select between different air flows and temperature combinations:

| Setting    | PHG 500-2 |     | PHG 600-3 |     |
|------------|-----------|-----|-----------|-----|
|            | l/min     | °C  | l/min     | °C  |
| <b>I</b>   | 240       | 300 | 250       | 50  |
| <b>II</b>  | 450       | 500 | 350       | 400 |
| <b>III</b> | –         | –   | 500       | 600 |

**PHG 600-3:** The cold air setting **I** is suitable for cooling a warmed workpiece or for drying of paint. It is also suitable for cooling the power tool before placing it down or when changing nozzles.

### Regulating the Air flow (PHG 630 DCE)

With the On/Off switch **5**, you can regulate the air flow in three steps:

| Setting    | l/min |
|------------|-------|
| <b>I</b>   | 150   |
| <b>II</b>  | 300   |
| <b>III</b> | 500   |

As an example, reduce the air flow when the surrounding area of a workpiece is not to be heated excessively or when a light workpiece could be moved away by the air flow.

In the cold air setting **I**, the temperature is fixed at 50 °C; in the hot air settings **II** and **III**, the temperature can be continuously regulated.

### Setting the Temperature (PHG 630 DCE)

The temperature can only be regulated in the hot air settings **II** and **III**. In the cold air setting **I**, the temperature is fixed at 50 °C.

When switching from the cold air setting **I** to one of the hot air settings, the last set target temperature is indicated for approx. 3 seconds between flashing arrows on display **7**. The target temperature is the same for both hot air steps **II** and **III**, and does not change when switching between the two steps.

To increase the temperature, press on the “+” of the temperature-control button **6**, to decrease the temperature, press on the “–”.

Briefly pressing the temperature-control button **6** at the respective position increases or decreases the temperature by 10 °C. Prolonged pressing of the temperature-control button continuously increases or decreases the temperature by 10 °C, until the button is released or the maximum or minimal temperature is reached.

After a change to the temperature setting, the power tool requires a short period to warm up or cool down the air flow. During this period, the target temperature is indicated between the flashing arrows in the display **7**. When the target temperature is reached, the arrows go out and the display indicates the actual temperature.

When switching from the hot air steps **II** or **III** to the cold air setting **I**, a short time is required until the power tool has cooled to 50 °C. During the cooling period, the actual temperature at the nozzle outlet is indicated on the display **7**.

The cold air setting **I** is suitable for cooling a warmed workpiece or for drying of paint. It is also suitable for cooling the power tool before placing it down or when changing nozzles.

### Working Advice

► **Before any work on the machine itself, pull the mains plug.**

**Note:** Do not apply the nozzle **1** too close to the workpiece being worked. The hot air build-up can lead to overheating of the power tool.

### Removing the Heat Protection

The heat protection collar **2** can be removed when working at particularly hard-to-reach locations.

► **Be careful of the hot nozzle!** Increased danger of burning exists when working without the heat protection collar.

To remove or mount the heat protection collar **2**, switch the power tool off and allow it to cool down.

To speed up the cooling, the power tool can also be operated for a short period with the lowest adjustable temperature.

Turn the heat protection collar **2** in anticlockwise direction to remove and in clockwise direction to mount again.

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**Placing Down the Power Tool (see figure C)**

To cool down the power tool or have both hands free, place it down on the standing surface **3**.

- **Be especially careful when working with the placed down power tool!** There is danger of burning oneself on the hot nozzle or on the hot air jet.

**Work Examples**

The figures of the application examples can be found on the graphics pages.

The temperature settings in the work examples are reference values that can vary, depending on the material characteristics. The distance between the nozzle and the workpiece depends on the material to be worked.

The optimal temperature for the respective application can be determined by practical testing. Always start with a low temperature setting.

All application examples can be performed without accessories except for "Removing Varnish/Paint from Windows". However, the use of recommended accessories simplifies the work and significantly improves the quality of the result.

- **Be careful when changing the nozzle! Do not touch the hot nozzle. Allow the power tool to cool down and wear protective gloves while changing the nozzle.** Danger of burning oneself on the hot nozzle.

**Removing Varnish/Softening Adhesives (see figure A)**

Mount the wide jet nozzle **8** (accessory). Briefly soften the varnish applying hot air and remove it using a sharp, clean scraper or putty knife. Applying heat too long will burn the varnish, making it more difficult to remove.

Many adhesives (e.g. of stickers) become soft when heated. Heated adhesives allow for bonds to be separated or excessive adhesive to be removed.

**Removing Varnish/Paint from Windows (see figure B)**

- **Use of the glass protection nozzle 9 (accessory) is essential.** Danger of glass breaking.

On profiled surfaces, varnish can be removed using an appropriately fitting spatula and brushed off with a soft wire brush.

**Shaping Plastic Tubing (see figure C)**

Mount the reflector nozzle **10** (accessory). To avoid kinking of the tubing, fill the tubing with sand and plug both ends. Heat the tubing evenly by applying the heat from side to side.

**Welding Plastics (see figure D)**

Mount the reduction nozzle **13** and the welding shoe **12** (both accessories). The workpieces to be welded and the welding rod **11** (accessory) must be of the same material (e.g. both of PVC). The seam must be clean and grease-free.

Carefully heat up the seam location until it becomes doughy. Please note that the temperature difference between the doughy and liquid state of plastic is low.

Feed in the welding rod **11** and allow it to run into the gap so that a uniform bead is produced.

**Shrinking (see figure E)**

Mount the reduction nozzle **13** (accessory). Select the diameter of the heat-shrinkable sleeve **14** (accessory) according to the workpiece (e.g. a cable lug). Heat the heat-shrinkable sleeve evenly.

**Defrosting Water Pipes (see figure F)**

- **Before heating pipes, check to make sure that it is actually a water pipe.** Water lines often do not differ in appearance from gas lines. Gas lines are not to be heated under any circumstances.

Place on the angle nozzle **15** (accessory). Heat the frozen zone always from the outside to the middle.

Heat up plastic pipes as well as connections between pipe pieces especially careful to prevent damage.

**Soft Soldering (see figure G)**

For point soldering, place on the reduction nozzle **13**, for the soldering of pipes/tubing, place on the reflector nozzle **10** (both accessories).

If solder without flux is used, apply soldering grease or paste to the location to be soldered. Warm the location to be soldered for 50–120 seconds depending on the material. Apply the solder. The solder must melt from the workpiece temperature. After the soldered location has cooled, remove the flux.

**Maintenance and Service****Maintenance and Cleaning**

- ▶ **Before any work on the machine itself, pull the mains plug.**
- ▶ **For safe and proper working, always keep the machine and ventilation slots clean.**

If the machine should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an after-sales service centre for Bosch power tools.

In all correspondence and spare parts order, please always include the 10-digit article number given on the type plate of the machine.

**After-sales Service and Customer Assistance**

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:

**[www.bosch-pt.com](http://www.bosch-pt.com)**

Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

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**Disposal**

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

Do not dispose of power tools into household waste!

**Only for EC countries:**

According to the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

**Subject to change without notice.**