"Patio heaters"
Assembly and operating manual

Please read before use!

Failure to observe these instructions can affect or damage the device and other objects and lead to personal injury.

We therefore recommend that you read the relevant chapter of these instructions prior to assembly and before each use. Follow the steps in the order they are specified and please observe the safety warnings.

These instructions form part of the product. They should therefore always be stored with the product and passed on to each subsequent user.
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### Specifications

#### Approvals

| Intertek | Test number Ce - 0359, Pin/No. 359CL1108 |

#### Barbecue

<table>
<thead>
<tr>
<th>Appliance category</th>
<th>I3B/P according to DIN EN 498</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total weight</td>
<td>approx. 14.5 kg</td>
</tr>
<tr>
<td>Dimensions (L x H x W)</td>
<td>approx. 760 x 2150 x 760 mm</td>
</tr>
</tbody>
</table>

#### Gas system

<table>
<thead>
<tr>
<th>Heat output</th>
<th>9.9 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate (mass flow rate)</td>
<td>720 g/h</td>
</tr>
<tr>
<td>Gas type</td>
<td>Liquid gas (propane/butane)</td>
</tr>
<tr>
<td>Gas cylinder</td>
<td>Standard gas cylinder with a fill weight of 3, 5 or 11 kg</td>
</tr>
<tr>
<td>Gas pressure</td>
<td>37 mbar</td>
</tr>
<tr>
<td>Gas hose</td>
<td>Ce-approved hose (max 1.5 m)</td>
</tr>
<tr>
<td>Ignition</td>
<td>Piezo ignition</td>
</tr>
<tr>
<td>Flame regulation</td>
<td>infinitely adjustable 0 - max.</td>
</tr>
<tr>
<td>Nozzle diameter</td>
<td>1.40 mm</td>
</tr>
</tbody>
</table>
## Delivery specifications

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Qty.</th>
<th>Designation</th>
<th>Pos.</th>
<th>Qty.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>1</td>
<td>Caster</td>
<td>a</td>
<td>6</td>
<td>M6x12</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Base</td>
<td>b</td>
<td>6</td>
<td>M6x30</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>Cylinder chamber support</td>
<td>c</td>
<td>12</td>
<td>M6</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Tripod</td>
<td>d</td>
<td>3</td>
<td>Threaded rod</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Cylinder chamber</td>
<td>e</td>
<td>4</td>
<td>3/16</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Burner unit</td>
<td>f</td>
<td>2</td>
<td>M8x16</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>Connecting ring for reflector</td>
<td>g</td>
<td>2</td>
<td>M8</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>Reflector, 3-piece</td>
<td>h</td>
<td>9</td>
<td>M6x8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>i</td>
<td>6</td>
<td>Ø20x6.5x1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>j</td>
<td>3</td>
<td>Wing nut</td>
</tr>
</tbody>
</table>
## Controls

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Designation</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Piezo igniter</td>
<td>Ignite gas on burner (press).</td>
</tr>
<tr>
<td>B</td>
<td>Flame regulator</td>
<td>Fill burner with gas to ignite (keep depressed and turn to &quot;large flame&quot; setting).&lt;br&gt;After ignition adjust the heat input for the left burner (turn).</td>
</tr>
<tr>
<td>G1</td>
<td>Pressure reducer</td>
<td>Reduce gas pressure.</td>
</tr>
<tr>
<td>G2</td>
<td>control button with safety catch</td>
<td>Cut-off safety device with 2 settings:&lt;br&gt;9 o'clock setting: gas off / shut off gas cylinder&lt;br&gt;12 o'clock setting: Gas is on.</td>
</tr>
<tr>
<td>G3</td>
<td>gas cylinder with bottle valve</td>
<td>Fuel container</td>
</tr>
<tr>
<td>G4</td>
<td>Gas hose with hose clip</td>
<td>Directs gas to burner.</td>
</tr>
</tbody>
</table>
Utilisation

Proper use

This heater is a gas-powered heater for use outdoors or in well-ventilated areas. It is designed to be used exclusively for heating purposes outdoors or in well-ventilated areas and in accordance with all of the details in this instruction manual.

Only for private use!

Improper use

Any other use or application extending beyond the intended purpose is not permitted. This applies to the following types of misuse in particular:

- Do not operate the heater with any fuel other than liquid gas (propane/butane).

Warranty and disclaimer

The heater has been manufactured according to the general engineering rules - valid at the time manufacturing was started - and the requirements of the C E- sign. It is recognised and approved by the German Technical and Scientific Association for Gas and Water (Deutsche Verein des Gas- und Wasserfaches - DVGW) (test number C E-0359). The heater left the factory in perfect condition regarding its function and safety.

The patio heater is subject to our warranty for a term of two years from the date of purchase. The warranty covers defective workmanship and parts; it is restricted to the replacement of these parts. Costs for shipping, assembly, replacement of worn parts and others are not covered by this warranty.

The warranty shall expire and any responsibility shall pass over to the executor:

- if the heater is not used properly.
- if the heater is used despite visible damage or incomplete assembly.
- if technical alterations are made to the heater
- if accessories are used that are not expressly authorised for this heater (if in doubt please ask our customer service department).
- if original spare parts from LANDMANN GmbH & Co. Handels-KG are not used.
Safety instructions

Definition of terms used
The following pictograms and signal words are used in these instructions to point out hazards and important information.

Safety instructions

<table>
<thead>
<tr>
<th>Pictogram and signal word</th>
<th>Note on ...</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Danger" /></td>
<td>... a possible danger that can result in severe personal injury or damage to property if the stated measures are not observed.</td>
</tr>
<tr>
<td><img src="image" alt="Caution" /></td>
<td>... a possible danger that can result in damage to property if the specified measures are not observed.</td>
</tr>
</tbody>
</table>

Operating notes

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Note on ...</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Info" /></td>
<td>... a useful function or tip.</td>
</tr>
</tbody>
</table>
Danger "Hot surfaces and parts"

During operation some parts of the heater can become very hot, particularly those that are close to the burner.

Possible consequences:

- Severe burns if parts near the burner are touched.
- Fire or smouldering fire if flammable materials or substances are located in close proximity to the heater.

Safety measures before use:

- When setting up the barbecue, make sure that
  - the heater cannot tip over during strong wind.
  - there are not, and will not be, any flammable materials or substances in close proximity to the heater. Minimum distance to flammable materials or substances: 2 m above and 1 m to the side. Distance to less flammable materials or substances, e.g. walls: min. 0.25 m.
  - the heater is operated outdoors or in a well-ventilated area.
  - in well-ventilated areas at least 25% of the enclosure surface must be open.
  - the enclosure surface is the sum of all wall surfaces.
  - the heater is positioned firmly on a sufficiently large surface area. It must not be moved during operation.

Safety measures during operation:

- Never leave the heater unattended. Take particular care to ensure that children and pets are kept at a safe distance from the heater.
Danger „Gas is highly flammable“
Liquid gas is highly flammable and explosive.

Possible consequences:
- Serious personal injury or damage to property if escaping gas ignites in an environment in which it is not controlled.

Safety measures:
- Only use the barbecue outdoors and ensure that the area is well-ventilated.
- Protect the gas cylinder and the gas hose from direct sunlight and other sources of heat (max. 50°C). Take particular care to ensure that the gas hose does not touch any part of the hot barbecue.
- **Do not place the gas cylinder on the lower shelf, as it is too near the burner.**
- Do not lean over the barbecue when igniting the gas flame.
- Close the valve on the gas cylinder immediately after each use (turn the valve clockwise).
- Never leave the barbecue unattended. If the flame extinguishes, relight it immediately or cut off the supply from the gas cylinder.
- When connecting the gas cylinder make sure that there are no sources of ignition within a 5 m radius.
- Take special care not to light any naked flames, do not smoke or switch on electric appliances (devices, lights, door bells), etc. (spark-over possible).
- Before each use, make sure that all gas connections are sealed and intact.
- If necessary, replace the hose in order to comply with the corresponding national requirements.

The barbecue must not be used if the connections for the gas supply are porous or faulty. This also applies, for example, to hoses or fittings blocked by insects, as this can produce a dangerous flashback.
Danger "Gas displaces oxygen"

Liquid gas is heavier than oxygen. Therefore it settles on the ground and displaces the oxygen at that level.

Possible consequences:

- Suffocation resulting from a lack of oxygen if the concentration of gas is allowed to rise sufficiently.

Safety measures:

- Only use the barbecue outdoors in a well ventilated area and above ground (i.e. not in areas that are below ground level).
- Close the valve on the gas cylinder after each use.
- Never leave the barbecue unattended. If the flame extinguishes, relight it immediately or cut off the supply from the gas cylinder.
- Before each use, make sure that all gas connections are sealed and intact.
- If necessary, replace the hose in order to comply with the corresponding national requirements.

The barbecue must not be used if the connections for the gas supply are porous or faulty. If the barbecue is not being used for a prolonged period, cut off the supply from the gas cylinder and store properly:

- Fit the gas cylinder valve with a cap nut and safety cap.
- Do not store the gas cylinder in rooms below ground level, in or near stairways, hallways or passages and thoroughfares between buildings.
- Always store gas cylinders upright, even if they are empty!
Assembly

Before starting

Here are a few tips to help you assemble your barbecue quickly and successfully:

- Check that no parts are missing by placing all of the individual parts on an empty surface (we reserve the right to make minor technical alterations, such as the content of the small parts bag).
- If, despite careful factory checks, a component should be missing, please contact our customer service department (see last page). We will immediately attend to your request.
- Sort out the small parts, as some of the screws and bolts, for example, are very similar and can be easily confused.
- For assembly you will need a medium size screwdriver and a suitable spanner (flat spanner or box spanner).
- You will need a flat spanner (AF17) to connect the gas cylinder.
- Only use tools that are intact and suitable for the job at hand. Worn or unsuitable tools will not allow you to tighten the bolts sufficiently, but will damage them to the extent that they can no longer be turned.
- Always fit all connecting elements (screws, bolts, nuts, etc.) as shown in the following illustrations. If you misplace a connecting element, replace it with an appropriate part. Only by doing this can you ensure that the construction is strong and safe.
- Be sure to follow the instructions in the specified order!
- Read the text for each step before carrying it out, as useful information is sometimes only provided at the end of the section.
- Even if you are not experienced at DIY, assembly does not generally take longer than one hour.

Assembly procedure

1. Attach the castors (1a) using M8x16 screws (f) and M8 nuts (g) to the base (1).
2. Assemble the cylinder chamger supports (2) using M6x12 (a) bolts (1).

3. Screw the stand (3) using M6x30 (b) screws and M6 nuts (c) to the cylinder chamber supports (2).

4. Slide the cylinder chamber (4) from the top over the stand (3).
5. Pass the gas hose from the burner (5) from the top through the stand (3).
   Turn the three threaded rods (d) into the upper side of the burner (5).
   Fix the burner (5) using the four 3/16 screws (e) to the stand (3).

6. Screw the three reflector parts (7) to the outer end using M6x8 screws (h) and M6 nuts (c).
   Place the connector ring (6) into the middle opening on the reflector (7). Screw the connector ring (6) using M6x8 screws (h) and M6 nuts (c).
7. Place a washer (i) on each of the threaded rods (d), then place the pre-mounted reflector (6+7) on the threaded rods (d) and attach them using the washers (i) and the wing nuts (j).

8. In order to connect a gas cylinder, slide the cylinder chamber (4) up. Now connect the gas cylinder and place it between the cylinder chamber supports (2). Then lower the cylinder chamber (4) over the gas cylinder to the base (1).
Connecting and disconnecting the gas cylinder

Parts and tools needed

- 17 mm spanner (open-ended spanner WAF 17)
- Gas cylinder
  Standard camping gas cylinder with 5 or 11 kg liquid gas (e.g. grey camping propane gas cylinder). These are available at DIY shops or from liquid gas suppliers.
- Leak detector
- You can locate any leaks in the gas system using a leak detector. This can be purchased at DIY shops or liquid gas suppliers. Please follow the operating instructions of the leak detector.

The following parts are included in delivery. They comply with the standards applicable in the country to which they have been supplied by LANDMANN.

Pressure regulator

Preset and Ε-approved pressure regulator, max. 1.5 kg/h, operating pressure 50 mbar, suitable for the gas cylinder used.

Gas hose

Ε-approved hose of sufficient length, allowing installation without any kinks.

Connecting the Gas Cylinder

Danger "Ignition of escaping gas"
Liquid gas is highly flammable and explosive.

Possible consequences:

- Serious personal injury or damage to property if escaping gas ignites in an environment in which it is not controlled.

Safety precautions:

- When connecting the gas cylinder ensure that there are no sources of ignition within a 5 m radius.
- Take special care not to light any naked flames, do not smoke or switch on electric appliances (devices, lights, door bells), etc. (sparkover possible).
- If necessary, replace the hose in order to comply with the corresponding national requirements.

1. Select a suitable place to set up the cooker. Make sure that ...
   - no flammable materials or substances are in close proximity to the cooker. Minimum distance to flammable materials or substances: 2m above and 1m to the side; distance to flame resistant materials or substances - min 0.25 m.
   - the heater has positioned firmly on a flat, sufficiently large surface area. It must not be moved during operation.
2. Position the gas cylinder next to the heater.
   – Never lay the gas cylinder on its side or place it on the base shelf.
   – The gas hose must not be bent or under tension.
3. Check that the gas cylinder (G3) and the pressure reducer (G1) are in good working order.
4. Turn the control button (G2) to the 9 o’clock setting and fit the pressure reducer (G1) onto the gas cylinder valve.

5. Turn the control button (G2) to the 9 o’clock setting. Check to ensure that the pressure reducer (G1) is securely on the gas cylinder (G3).

6. Check the connection between the pressure reducer (G1) and the gas hose (G4) and the gas hose (G4) to the setting device (19) to ensure they are secure.

7. Open the cylinder valve by pulling the red safety catch on the control button (G2) forwards a little and by turning the control button to the 12 o’clock setting. Use a standard leak detector to ensure that all connections are tight.

   Please observe the instructions for the leak detection agent!
   – Never check for leaks using a naked flame. Listening for leaks is not a reliable method of detection either.
   – If the connection is not sealed immediately close the bottle valve (turn control button (G2) to 9 o’clock setting) and tighten the connection or replace the leaking part. Repeat the leak test.

8. If you do not wish to use the heater immediately, close the cylinder valve: turn control button (G2) to the 9 o’clock setting.

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### Shut off Gas Cylinder

1. Close the cylinder valve: turn control button (G2) to a 9 o’clock position).

2. Pull the red safety lever on the control button (G2) forwards a little, turn the control button (G2) to a 9 o’clock setting and pull the pressure reducer (G1) from the gas cylinder valve.

3. Store the pressure reducer (G1) with the gas hose (G4) underneath the heater. Make sure that the gas hose is not kinked or twisted in any way.

4. Storing the gas cylinder correctly:
   – Fit the gas cylinder valve with a cap nut and safety cap.
   – Do not store the gas cylinder in rooms below ground level, or in or near stairways, hallways or passages and thoroughfares between buildings.
   – Always store gas cylinders upright, even if they are empty!
Operation

Starting up the heater

1. Check to ensure that ....
   - the heater cannot tip over during strong wind.
   - there are not, and will not be, any flammable materials or substances in close proximity to the heater. The minimum distance to materials or substances is 2m above and 1m to the side. The distance to highly flammable materials or substances, e.g. house walls is min. 0.25 m.
   - the heater is operated outdoors or in a well-ventilated area.
   - in well-ventilated areas at least 25% of the enclosure surface must be open.
   - the enclosure surface is the sum of all wall surfaces.
   - the heater is positioned firmly on a sufficiently large surface area. It must not be moved during operation.

2. Check to ensure that ....
   - the heater is fully assembled and has no visible defects.

   Caution: Leave a suitable distance between yourself and the burner during steps 7 and 8.

   6. Press the flame regulator (B) to the setting with the small flame symbol and simultaneously actuate the Piezo igniter (A) repeatedly.

   7. After the flame has ignited keep the flame regulator (B) depressed for approximately 10 seconds in order to activate the gas igniter.

   8. If the flame goes out, turn the flame regulator (B) with the small flame symbol to "•" (off), wait for 3 minutes and then repeat step 6.

   9. When the heater has warmed up sufficiently, turn the flame regulator (B) slowly to the desired setting (size of flame). Turning the regulator quickly can result in the flame going out.
**Switching off the heater**

1. Close the cylinder valve on the gas cylinder (turn G1 clockwise).
2. Turn the flame regulator (B) with the small flame symbol to "•" (off).
3. Wait until all of the parts have cooled down and then clean any soiled components.
4. If the heater is not going to be used for a prolonged period:
   - Disconnect the gas cylinder (see chapter "Disconnecting the gas cylinder").
   - Store the heater in a dry place.

**Cleaning**

**Heater**

To ensure that your heater serves you well for many years to come, it should be cleaned after each use with washing-up liquid, a brush and a cloth - ensure that all parts have cooled down first.

**Gas system**

All other parts through which gas is supplied may only be cleaned by an expert.

Never dismantle the adjusting element!

**Maintenance**

The heater is maintenance free. Nevertheless, you should check it at regular intervals. The intervals will depend on how often the heater is used and the environment to which it is exposed.

**Heater**

- Check to ensure that all parts of the heater are present and assembled (conduct a visual check).
- Check to ensure that all connections are present and securely fastened. Tighten if necessary.

**Gas system**

The gas system needs to be checked every time a gas cylinder is connected (see chapter “Connecting and disconnecting the gas cylinder”).

If necessary, replace the hose in order to comply with the corresponding national requirements.
# Environmental information and disposal measures

To dispose of the heater, disassemble it. Recycle the metal and plastic components.

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## Troubleshooting

If there is a fault despite due care, this chapter may help you to resolve the malfunction.

<table>
<thead>
<tr>
<th>Malfunction</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is a smell of gas</td>
<td>Leak in the gas system</td>
<td>1. Close the cylinder valve immediately (turn G1 clockwise)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Prevent any flames or sparks (do not switch on electric devices)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Tighten all connections of the gas system</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Check all components of the gas system for external damage; replace defective parts with original spare parts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Check for leaks using a leak detector</td>
</tr>
<tr>
<td>Burner does not light</td>
<td>Gas cylinder is empty</td>
<td>Replace the gas cylinder</td>
</tr>
<tr>
<td></td>
<td>Cylinder valve is closed</td>
<td>Turn the cylinder valve (G1) anti-clockwise</td>
</tr>
<tr>
<td></td>
<td>Distance between the spark plug and gas outlets on the burner (2) is incorrect</td>
<td>Visual inspection; correct if necessary</td>
</tr>
<tr>
<td>The temperature of the heater is too low</td>
<td>Pre-heating time too short</td>
<td>Set flame regulator to max.</td>
</tr>
<tr>
<td></td>
<td>Gas outlets on the burner are blocked</td>
<td>Remove blockage from burner</td>
</tr>
<tr>
<td>Popping or bubbling noise</td>
<td>Flashback caused by blockages in the burner.</td>
<td>1. Close the cylinder valve immediately (turn G1 clockwise)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Wait for three minutes and start up the heater again.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. If the problem recurs, remove burner and clean</td>
</tr>
</tbody>
</table>
Declaration of conformity

Der Unterzeichnende erklärt im Namen der Firma die Übereinstimmung des Produktes.

The undersigned declares in the name of the company that the product is in compliance with the following guidelines and standards.

La soussigné déclare au nom de l’entreprise la conformité du produit avec les directives et normes suivantes.

De ondertekenaar verklaart in naam van de firma dat het product overeenstemt met de volgende richtlijnen en normen.

El abajo firmante declara, en el nombre de la empresa, la conformidad del producto con las directrices y normas siguientes.

О signatário declara em nome da firma a conformidade do produto com as seguintes directivas e normas.

Undertecknad förklarar i firmans namn att produkten överensstämmer med följande direktiv och standarder.

Allekirjoittanut ilmoittaa liikkeen nimissä, että tuote vastaa seuraavia direktiivejä ja standardeja.

Undertegnede erklærer på vegne av firmaet at produktet samsvarer med følgende direktiver og normer.

Лодисавший подписывает от имени фирмы что настоящее изделие соответствует требованиям следующих нормативных документов.

Ovim izjavljujemo da u daljnjem tekstu opisani proizvod na osnovu njegovog koncipiranja i načina gradnje, kao i od Landmann-Peiga u prodaju puštena izvedba odgovara poznatim, osnovnim sigurnosnim i zdravstvenim zantjevima EG smjernica.

☐ 98/37/EG  ☑ 90/396/EWG  ☑ 89/686/EWG  ☑ 73/23/EWG  ☑ 87/404/EWG  ☑ R&TTED 1999/5/EG  ☐ 89/336/EWG  ☑ 2000/14/EG: LWM.....dB(A); LWA.....dB(A)  ☐ 90/396/EWG  ☑ 90/396/EWG

DIN EN 498 (Oktober 2009)

Osterholz-Scharmbeck, den 18.10.2010

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