

ASSEMBLY MANUAL

# Gas heater and trolley

THIS IS HOW YOUR BATH STARTS UP



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## Technical data:

Product type: Gas-powered water heater

Product model: JSD36-A

Type of gas: LPG (20Y)

Suitable water pressure: 0.25-10bar

Nominal heat input: 36kw

# IMPORTANT

1. Read the instructions carefully before installation and use begins.
2. Svenska Badtunnor AB is not responsible for the product not working or being damaged if instructions are not followed during installation and use.
3. Do not leave children or animals unattended when using the gas heater.
4. Do not leave the gas heater unattended for long periods.
5. Ensure that connections have seals and that LPG cannot leak from the heater before use.
6. Protect the gas heater from rain, snow and wind.
7. At freezing temperatures, the heater must be disconnected and stored in a warm space to avoid frost damage.
8. Make sure the heater is well ventilated. During operation, the gas will produce carbon monoxide which is harmful if inhaled.
9. Unless otherwise approved in writing by Svenska Badtunnor AB, repair of the product by others than Svenska Badtunnor AB is not permitted and the warranty ceases to apply. In such an event, Svenska Badtunnor AB is held free of all liability in the event of an accident.
10. The pump must never run dry as this can cause damage to the rotor shaft.
11. The heater must only be used outdoors or in a room separated from inhabited rooms that meets the ventilation requirements.
12. Do not keep flammable and dangerous objects near the gas heater. Keep distance from walls and ceilings.
13. It is hot water coming out of the gas heater, it is your responsibility to check the temperature of the water before you or anyone else bathe.

## The package contains

- 2 brass couplings  $\varnothing$ 13mm
- 1 brass coupling  $\varnothing$ 10mm
- 2 hose clamps  $\varnothing$ 20mm
- Hose (length 105mm)
- 1 aluminum nipple
- 1 LPG trailer with pump, pre-filter and transformer installed
- 2 pcs m5x16mm hex screw
- 4 rubber seals

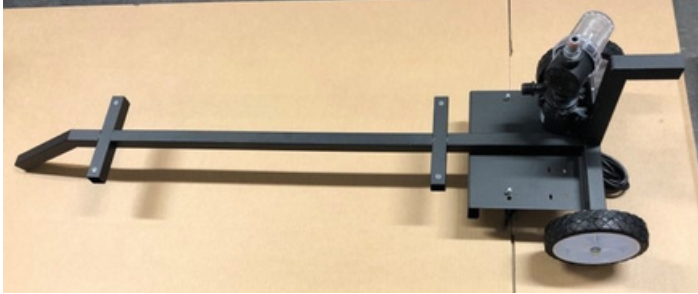
## Assembly instructions for the gastrailer

1. Remove the gas trailer and the carton from the package
2. Check that all parts are included in the box



3. Remove the gas heater from its packaging.

4. Place the cart on a table with the pump pointing upwards (use mats to avoid scratching the cart).



5. Place the gas heater on the trolley and screw it to the upper bracket with the two supplied M5x16mm screws.



6. Mount a 13mm brass coupling on the pump. Note! it is important that the rubber seal is mounted on the connection as shown.



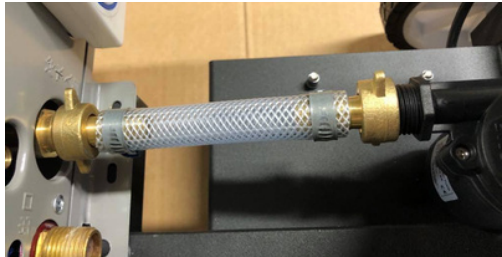
7. Mount the second 13mm coupling with rubber seal on the gas heater where it is marked "Water intake"



8. Thread the hose clamps onto the hose.



9. Mount the hose between pump and "Water intake" and then tighten the hose clamps.



10. Mount the aluminum connection on the "Outlet" output of the gas heater. Be sure to make sure the o-ring is seated in the connector before fitting. Note: pull by hand only.



11. Mount the 10mm brass connection in the "Gas inlet" on the gas heater.

Note! It is important that the rubber seal is fitted.



## Install batteries

1. Open the white battery cover by turning the knob counterclockwise. The hatch is located on the underside of the heater.



2. Fit two size "D" batteries (mind the polarity) and close the door by turning clockwise. Batteries not included. Winter time can the battery needs to be replaced more often, a tip is to have extra batteries at home.





## Connect water and gas

1. The gas trailer is now fully assembled and ready to be connected to LPG and water. Use a 30mbar 2kg/h reducing valve with hose made for liquid gas (propane) maximum 1.2m long, and put it on the connection marked "Gas inlet". Secure it with hose clamps at both ends.



2. Connect the hose from the lower connection in your bath to the pump.

3. Connect the hose from the upper connection in your bath to the connection marked "Outlet" on the gas heater.

4. Fill your bath with water. The water level must be above the top connection before starting the heater. The water coming from the heater can be up to 70c° in the hottest position. Be careful if you bathe while the heater is on.

5. Connect the pump's power cable. The pump then immediately starts circulating the water. Let the pump run for about 30 seconds before starting the heater. This is to get all the air out of the system

6. Turn on the gas on the gas tube and then start the heater with the button on the underside. There should now be a quick clicking sound from the heater before the gas is ignited.

7. When the heating starts, the display lights up and shows the temperature of the water coming out of the heater. And heat rises from the chimney.



8. For maximum effect, "Gas regulator" should be set to max, "Water regulator" set to mine, and the upper knob set to "Winter". Always check the temperature of the water before you or someone else swims.



## Filter cleaning

Be sure to keep the filter mounted on the pump (under the heater) clean. If the water flow through the heater is blocked, it will not start (the display only works when the heater has the correct flow and is switched on). Clean the filter after each bath.



1. Turn off the gas on the gas tube and disconnect the hoses from your bath so that the heater is drained of water.
2. Carefully unscrew the sight glass.
3. Remove the filter insert and clean it thoroughly.
4. Put the filter insert back. Make sure that the silicone seal in the sight glass is in its groove.
5. Screw the sight glass back on

## READ ALL INSTRUCTIONS BEFORE USING THE HEATER

### General and important information

- Protect the stove from rain and wind, also from water that may run over the edge.
- As gas, propane gasol (LPG) is used with a 30 mbar pressure reducer and 2 kg/h gas flow.
- Check that there are no gas leaks before putting the stove into use.
- At freezing temperatures, the stove must be stored in a warm and dry space to avoid frost damage.
- Be sure to drain the connecting hoses that are mounted on the hot tub, this is extra careful if there is a risk of freezing. When the bath is empty, lift up both hoses so that all the water runs out of them. Alternatively, you can remove the fittings and blow out the hoses from water.
- Check before use that no water has frozen in the hoses.
- Clean the filter after every bath. Always shower before bathing!

### Installation and placement

The gas heater is only for outdoor use. Installation indoors or in closed spaces can be associated with danger to life. When the heater is in use, the gas will produce carbon monoxide which is harmful if inhaled. It is therefore important to carefully follow the instructions regarding installation and use.

- Do not install the gas heater in a location with strong wind (unless protected from the wind) otherwise the flame may go out or cause incomplete combustion.
- The gas heater must be placed so that it has a free space around it with at least 3 dm to the nearest wall.
- The heater must be placed upright and absolutely must not lie down.
- Ensure that a reliable gas line is installed and check that there are no gas leaks.
- The pump must absolutely not be run without water, it will go south immediately when running dry. Make sure there is good flow through the pump and there is no air in it. It works as it should if you feel hot water coming out of the hot tub, feel with caution as the water can be very hot!

Check the connections of the gas line regularly to ensure that there is no gas leakage. If it leaks, replace it immediately. In the event of a gas leak, never start a fire or touch any electrical contacts. Do not connect or disconnect electrical connectors. Otherwise, a flame or spark could ignite the gas, which could cause a fire or explosion. Stop using the heater and contact a service department or the gas supplier.

If the gas line is cracked, stop using it and replace it. If the flame is uneven or burns with a yellow flame, it may be due to a fault in the pressure reducer. Discontinue use of the pressure reducer and replace the part or have it repaired. In the case of continued use of a broken gas line, this can damage the heater and in the worst case cause an accident.

- It is absolutely forbidden to leave the heater running unattended.
- The heater must be turned off after use.
- Never put towels or clothes on the stove.
- Gas leakage from the gas pipe can cause a fire.
- It is forbidden to have flammable or explosive objects near the heater.
- Do not look at the flame when lighting.
- The water heated by the gas heater can become very hot and must be handled with care to avoid burns.
- Always check that all parts of the heater are in place and that no connections are broken before using the heater.
- Keep the gas heater clean from dust by regularly wiping it, do not use chemicals. If it is not to be used for a long time, make sure it is stored in a dust-free environment.
- In case of abnormal combustion (yellow flame or dark smoke, etc.), unexpected smell, noise or emergency (eg fire), keep calm and turn off the heater and gas valve afterwards and contact the gas supplier.

## Troubleshooting

### The flame goes out when "Gas" is set to "Min":

- Gas pressure low – Check the gas tube
- Low water pressure – Check water pressure
- Blockage in the heater – Contact service

### No hot water despite setting to "Max":

- Fault on the pressure reducer – Open the gas valve, or replace the pressure reducer
- Low gas pressure – Change the gas tube
- Incorrect water temp adjustment – Adjust
- Blockage in the heater – Contact service

### Open water valve but no flame

- Fault on the pressure reducer – Open the gas valve, or replace the pressure reducer
- Low gas pressure – Change the gas tube
- Air in the gas line – Open and close the water valve until combustion starts
- Low cold water pressure – Check the water pressure
- Batteries discharged – Replace
- Blockage in the heater, failure of the flame guard, water control unit or ignition switch – Contact service

### The fire flame goes out during use

- Gas valve closed – Open
- Low gas pressure – Change the gas tube
- Fault on the pressure reducer – Replace the pressure reducer
- Low cold water pressure – Check water pressure
- Lack of fresh air – Improve ventilation
- Batteries discharged – Replace batteries