

Security advices:

This infrared-gas heater considers a progressive status on the sector of liquid gas burning technology and corresponds to the safety requirements of the instructions for gas installations. A safe handling with liquid gas and liquid gas devices however respectively requires the compliance of the operator with applicable regulations. In particular consideration of the TRF 2012 and the DIN 3372 part 4, we refer to the following regulation:

* The heater may exclusively be operated outdoors  or in well ventilated rooms only  !



Heaters must not be used in enclosed rooms or confined spaces, below ground level, in living quarters or offices, kindergartens / nurseries or similar habitable rooms, in passages or in rooms or parts thereof where explosive or highly flammable materials are stored or used or may form respectively.

- * The heater is only to be used outdoors or in well ventilated rooms! The room has to be well ventilated and must have at least 20m³ volume per 1kW nominal heat loading of the heater.
- * While in operation, the heater should be placed on a level, stable and non-combustible surface.
- * A minimum clearance of the ceramic plates to combustible materials in jet direction of 2m must not be fallen short of.
- * The safe distance of all other screen body faces to combustible materials has to be at least 1m.
- * When using the heater, the ceramic plates are being heated because of the liquid gas burning – heat rays in the infrared-range are being emitted. It is essential, that the heat exchange to the ambient atmosphere can take place unhindered. To avoid a heat accumulation, the heater screen must not be covered (e.g. by sheet metal and the like).
- * The heater may only be run by an interposed regulator, that can depressurise the higher vapour pressure in the bottle (primary pressure) to a lower constant usage pressure (output pressure) of 50 mbar.
- * The connection of a liquid gas device is only allowed when using regulators and hoses that have been checked on their safety – checked products are provided with an CE or DVGW-label.
- * Check the hose line for leaks or brittleness before use. Attach and run the flexible hose line such that it will not come in contact with any hot components. The hose line should be replaced immediately if there are any signs of aging or damage. The hose line should be replaced after 6 years at the latest.
- * The installation of bottles is not allowed in rooms beneath the ground, in staircases, halls, alleys etc.
- * Liquid gas reservoirs may not be warmed over 40°C – therefore they are to be protected against direct solar radiation and other heat rays or heat sources.
- * The withdrawal of gas may only be effected from standing bottles to avoid the withdrawal out of the liquid phase. Therefore the using of fuel gas bottles for the gas supply of the heater is prohibited.
- * The liquid gas device and the rest of the gas technical system has to be controlled in periodical intervals and after mountings at the connection parts with regard to the gas proofness with foaming agents (leak search spray).
- * When connecting a new gas bottle pay attention to possible damages at the bottle seal – it is not allowed to use additional seals.
- * For the gas supply of the device, commercial 5kg or 11kg gas bottles have to be used. Concerning bottles with a full weight up to 14kg consumption, installations up to a total connection value of 1,5kg/h may be added.
- * Check the unit for good working order and reliability during operation at regular intervals.
- * It is not allowed to make any structural changes to the unit. This may be dangerous.
- * The bottle valve has to be closed after the usage of the heater and when annoyances, smell of gas or other appears.
- * Only authorised qualified personnel is allowed to carry out repair and attendance works.
- * The guaranty expires when repairs are made by persons who are not authorised or if devices are provided with accessory parts that are not adapted to our product.
- * Attention! The device gets hot during usage!
- * Keep children away from the heater! They do not yet know the danger that can accrue when using gas devices.
- * This unit should not be installed or used by people in need of assistance or who are not fit for this physically or mentally respectively.

HPV

Instruction for installation and operating instruction

Infrared-Heater 4200 Z

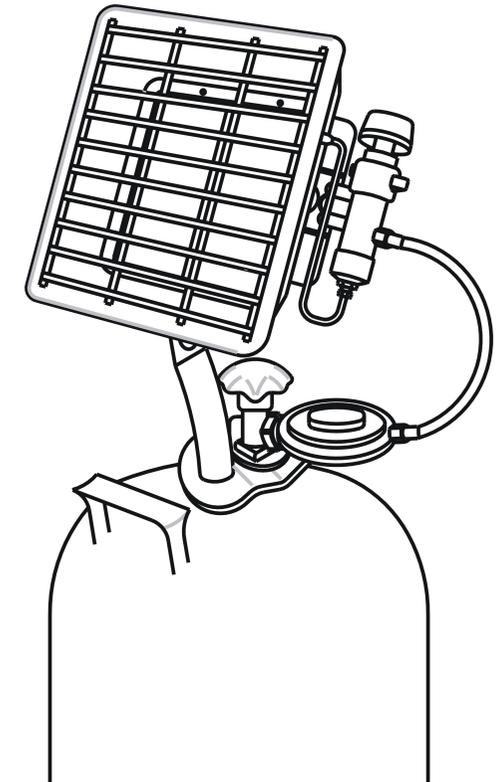
(with ignition-safety)

Infrared-Heater 4200 ZP

(with piezo fuse and ignition-safety)

Infrared-Heater 4200 SMS

(with piezo fuse and oxygen deficiency safety)



CE 0085

Technical data

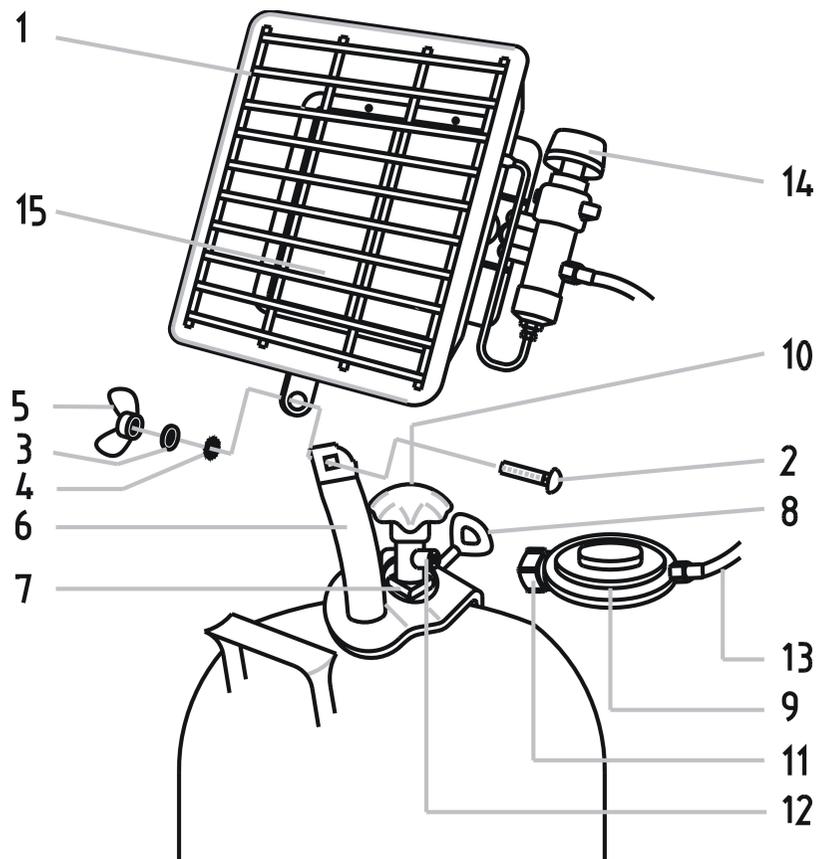
Heat output:	4,2 kW
Gas consumption:	330 g/h
Pressure:	50 mbar
Gas:	I _{3B/P}
Country of destination:	DE

Please read the instruction for installation and operation before using the heater for your own safety!
A conventional use of the heater, according to the hints of this operating instruction, is a requirement to avoid malfunctions.

Please pass on the instructions for installation and use if you pass this unit on to somebody else.

Setting up

1. Assemble the heater (1) with the enclosed screw (2), washer (3), lock washer (4) and wing nut (5) to the bottle holder (6). The incline of the heater screen is adjustable according to the constructive design – the displacement is about 60°.
2. Attach the bottle holder (6) to the bottleneck (7) and assemble it that way, that the edge of the clearance and the binding screw engage in the flute of the bottleneck (7).
3. Before tightening the binding screw (8), pay attention of the right positioning of the heater. There has to be made a correlation regarding the direction of the gas connection between the heater and the bottle by turning the bottle holder (6).



Connection to 5kg or 11kg gas bottles

Connect the pressure regulator (9) (max. connection value 1,5kg/h, operating pressure 50 mbar) directly with the bottle valve (10) of a commercial gas bottle. For this, connect the union nut (11) of the pressure regulator with the bottle valve thread (12) by a left-hand rotation.

Bottle valves of the mentioned size have a joint ring for the direct connection to the regulator – the regulator can be screwed on tightly without any tools.

Connect the hose line (13) with the exit of the pressure regulator (Hose line SW17, left-handed thread).

Checking the gas proofness

All joints that have been made to connect the heater to the gas bottle have to be checked regarding to their gas proofness before the first use.

The checking is being effected with leak search spray or a foaming agent when the adjusting device is closed (safety valve is not pushed) and the bottle valve is open.

If there is no blister at the checked points, the connection is dense.

The checking of the gas proofness has to be made regularly as well as after the removing and reconstituting of connections, e.g. on the occasion of replacing gas bottles or gas technical accessories (e.g. hose, regulator).

Placing the heater 4200 Z into operation

Open the bottle valve (10) by a left-hand rotation completely. Push the regulation button (14) at the heater (1) and spark off the heater (1) through the fence (15) with a match of usual length.

The ignition with an open flame has generally to take place before the ceramic plates! It is inadmissible to ignite the heater at the nozzle (at the positioning valve)!

Push the button for about 15 seconds for the thermocouple to reach the required temperature. The heater should now burn without suppressed safety valve. Otherwise the ignition act has to be repeated once more.

After 3 successive ignition tries, wait for approx. 5 minutes such that the striking point will be adequately vented. To reduce the output of the heater the regulation button has to be turned to the left as far as it will go (small fire).

Placing the heater 4200 ZP and 4200 SMS into operation

Open the bottle valve (10) by a left-hand rotation completely. Push the regulation button (14) at the heater (1) and push the feeler of the piezo-ignition simultaneously several times.

After igniting the heater (1) push the regulation button (14) for about 15 seconds for the thermocouple to reach the required temperature. Now the heater should burn without suppressed safety valve. Otherwise the ignition act has to be repeated once more. After 3 successive ignition tries, wait for approx. 5 minutes such that the striking point will be adequately vented.

To reduce the output of the heater the regulation button has to be turned to the left as far as it will go (small fire).

Placing the heater out of operation

By closing the bottle valve (10) (right-hand rotation) the heater is being placed out of operation!

We reserve ourselves technical changes and changes concerning the colour.