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WARNING

Before working on the appliance, be sure to disconnect it from the mains and close the gas supply tap: danger of electric shock

Wear suitable gloves for any operation: danger of cutting.

Information about some problems with the burner flame

It may happen that the flames emitted by the burners of the gas hob have an irregular appearance and are no longer characterized by that homogeneous blue tone around the edge of the crown (or cap). Here are the different reasons that can cause this problem.

• THE NOZZLE IS CLOGGED



The main cause of the problem can be a clogged nozzle. The role of the nozzle, also called injector, is to inject gas to the burner. In the upper part, this component is characterized by a hole with a very precise diameter to allow the delivery of the right amount of gas. If the hole is partially blocked (for example by liquid), a different quantity of gas will be supplied which will affect the quality of the flame, which will therefore be produced incorrectly.

To remedy the problem and obtain effective flames, it will be sufficient to unclog the nozzle by rubbing it with a brush. If this is not enough, a very thin needle can be inserted into the hole, being careful not to enlarge the diameter of the nozzle hole.



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- THE NOZZLE IS NOT SUITABLE



Just as a partially clogged nozzle can cause poorly effective flames, the same thing can happen if the type of nozzle is not suitable for the hob. We have already seen how, when the hole is blocked and its diameter therefore undergoes a reduction, the quantity of gas injected into the burner becomes insufficient. A similar problem occurs if the nozzle hole, not due to an obstruction but because it is configured in this way, has an unsuitable diameter for the required use. In this case, it will be necessary to replace the injector with a component that is suitable for your burner, appliance and type of gas.

- THE BURNER CROWN HOLES ARE CLOGGED





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ISO 9001
BUREAU VERITAS
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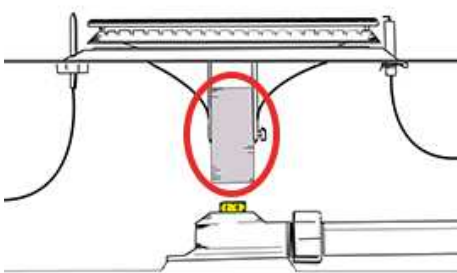
It often happens that the flames of a gas hob have an abnormal appearance because the holes in the crown are blocked by dirt, grease or liquids escaping from the pans during cooking. Even water penetrated inside the holes while cleaning the stove could cause problems. If the holes are blocked with non-liquid material, it will be necessary to unclog them by cleaning the cap or crown and finishing everything with a thin-tipped object (such as a toothpick). If the holes have simply filled with water during cleaning, or with liquid leaking from a pan, dry the crown or cap to restore normal flame conditions.

- THE BURNER, CAP OR CROWN ARE DEFORMED



If the burner or one of its components (such as the cap or crown) are deformed, poor quality flames may be produced. If any of the components appear deformed, it will need to be replaced.

- THE AIR INLET IS WRONGLY ADJUSTED





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When a hob is equipped with burners with air regulator, if the primary air is incorrectly adjusted it can cause the formation of unstable or too weak flames. Proper adjustment must allow the delivery of the right amount of air for an optimal air / gas mixture. The result must therefore be a stable, silent flame, which does not produce smoke and which has a central cone of a bright blue color. If the flame is unstable, short, noisy or goes out, it means that the mixture is too full of air. Contrariwise, if the flame is long, flickering, reddish in color and produces smoke, it means that the mixture produced by the burner has an insufficient amount of air.

Depending on the situation, we recommend modifying the regulator to allow more or less air to enter the burner.

- THE PRESSURE REGULATOR WORKS BAD



If the cause of the problem is not one of those previously listed, only one remains the probable: the malfunction of the pressure regulator. This component acts directly on the outlet of the gas cylinder, reducing the pressure of the gas to a normal operating pressure. It also allows to maintain a constant gas pressure, regardless of the set gas flow. If the hob produces irregular-looking flames and this does not seem to be caused by the reasons already listed, we recommend to let check the operation of the pressure regulator and, if needed, to let replace it.