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Ambach 4251188758412

Ambach Venturi for GHE-120, GHE-80, GHG-80, GHG-120, GH-90 Burner Cover (125mm Diameter)

Brand: Ambach | Model: 4251188758412

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Ambach Venturi. This component is designed to ensure optimal gas flow and combustion efficiency in compatible cooking appliances. Please read these instructions carefully before installation and use to ensure safe and correct operation.

2. PRODUCT DESCRIPTION

The Ambach Venturi is a precision-engineered component crucial for the proper functioning of gas burners in professional kitchen equipment. It is specifically designed to mix gas and air in the correct proportions before combustion, ensuring an efficient and stable flame.



Image 1: Ambach Venturi component. This image shows the metallic Venturi tube, which is a key part of the gas burner assembly.

Key features and applications:

- **Application:** Primarily used in gas cookers, electric ovens, and gas ovens.
- **Burner Type:** Compatible with Type E burners.
- **Burner Cover Compatibility:** Designed for burner covers with a 125 mm diameter.
- **Function:** Optimizes gas-air mixture for efficient combustion.

3. COMPATIBILITY

This Ambach Venturi is compatible with the following Ambach appliance models:

- GHE-120
- GHE-80
- GHG-80
- GHG-120
- GH-90

Ensure your appliance model matches one of the listed models and that your burner cover has a 125 mm diameter before attempting installation.

4. SETUP AND INSTALLATION

Safety First: Before beginning any installation or replacement, ensure the appliance is completely disconnected from its power source (electricity and gas supply). Gas installations should only be performed by qualified personnel.

1. **Disconnect Power:** Turn off the main gas supply valve to the appliance and unplug it from the electrical outlet.
2. **Access Burner Area:** Depending on your appliance model, you may need to remove grates, burner caps, and possibly the cooktop or oven panels to access the burner assembly. Refer to your appliance's specific service manual for detailed access instructions.
3. **Locate Existing Venturi:** Identify the Venturi tube connected to the burner. It is typically located between the gas valve and the burner head.
4. **Remove Old Venturi:** Carefully disconnect any fasteners or clamps holding the old Venturi in place. Be mindful of gas lines and electrical connections.
5. **Install New Venturi:** Position the new Ambach Venturi (Model 4251188758412) in the same orientation as the old one. Secure it with the appropriate fasteners or clamps. Ensure a tight and secure fit to prevent gas leaks.
6. **Reassemble Appliance:** Reinstall any removed panels, burner caps, and grates.
7. **Reconnect Power and Test:** Turn on the main gas supply valve. Before plugging in the appliance, perform a leak test on all gas connections using a suitable leak detection solution (e.g., soapy water). If no leaks are detected, plug in the appliance and test the burner operation. Observe the flame for proper color (blue) and stability.

If you are unsure about any step, consult a certified technician.

5. OPERATING PRINCIPLES

The Venturi tube operates on the Venturi effect principle, where a constriction in a pipe causes the fluid velocity to increase and its pressure to decrease. In a gas burner, this low-pressure area draws in ambient air, mixing it with the gas before the mixture reaches the burner head for combustion. A properly functioning Venturi ensures the correct gas-to-air ratio, leading to a clean, efficient, and stable flame.

Once installed, the Venturi works automatically as part of the burner system. No user interaction is required for its operation.

6. MAINTENANCE

The Ambach Venturi is designed for durability and typically requires minimal maintenance. However, periodic inspection is recommended to ensure optimal performance.

- **Annual Inspection:** During routine appliance maintenance, inspect the Venturi for any signs of blockage, corrosion, or damage.
- **Cleaning:** If soot or debris accumulates within the Venturi tube, carefully remove it using a soft brush or compressed air. Ensure no foreign objects are left inside.
- **Gas Leaks:** Regularly check gas connections around the Venturi for any signs of leaks, especially after any maintenance work. Use a non-corrosive leak detection spray.

Always ensure the appliance is disconnected from gas and electrical supplies before performing any maintenance.

7. TROUBLESHOOTING

If you experience issues with your gas burner after installing or while using the Ambach Venturi, consider the following:

Problem	Possible Cause	Solution
Weak or Yellow Flame	Insufficient air mixture, Venturi blockage, or incorrect gas pressure.	Check Venturi for obstructions and clean if necessary. Ensure proper air intake to the burner area. Verify gas pressure (requires a qualified technician).
Flame Lifts Off Burner	Too much air in the mixture or excessive gas pressure.	Ensure Venturi is correctly seated and not allowing excess air. Verify gas pressure (requires a qualified technician).
Gas Odor	Gas leak at connections.	Immediately turn off gas supply. Ventilate the area. Perform a leak test on all gas connections. If odor persists, contact a qualified gas technician immediately.

For complex issues or if troubleshooting steps do not resolve the problem, contact a qualified service technician.

8. SPECIFICATIONS

Feature	Detail
Brand	Ambach
Model Number	4251188758412
Compatible Models	GHE-120, GHE-80, GHG-80, GHG-120, GH-90
Burner Cover Diameter	125 mm
Energy Type	Gas
Power Source	Not applicable (passive mechanical component)
Special Feature	Optimized for professional kitchen equipment

9. SUPPORT

For technical assistance, spare parts, or further inquiries regarding your Ambach Venturi or compatible appliances, please contact Ambach customer support or an authorized service partner. When contacting support, please provide the model number (4251188758412) and the model of your appliance for quicker service. Information regarding spare parts availability is currently not provided. Please contact the manufacturer directly for details.