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## SIME Sime VERA HE 30

# Sime VERA HE 30 Methane/LPG Condensing Boiler 30 kW User Manual

Model: Sime VERA HE 30

## 1. INTRODUCTION

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Thank you for choosing the Sime VERA HE 30 Methane/LPG Condensing Boiler. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your appliance. Please read this manual thoroughly before attempting any installation, operation, or maintenance procedures.

### 1.1 Safety Information

- Installation, first start-up, and maintenance must be carried out by qualified and authorized personnel in accordance with local regulations and standards.
- Do not attempt to repair or modify the appliance yourself. Contact qualified service personnel.
- Ensure adequate ventilation in the installation area.
- Keep flammable materials away from the boiler.
- In case of gas odor, immediately shut off the gas supply, open windows, and contact emergency services.

## 2. PRODUCT OVERVIEW

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The Sime VERA HE 30 is a high-efficiency condensing boiler designed for both heating and domestic hot water production. It is capable of operating on either Methane (natural gas) or LPG (liquefied petroleum gas), offering flexibility and energy savings through its advanced condensing technology.



Figure 1: Front view of the Sime VERA HE 30 Condensing Boiler, showing its compact design and control panel.

## 2.1 Key Features

- High efficiency condensing technology.
- Dual fuel compatibility (Methane/LPG).
- Integrated domestic hot water production.
- Compact design for indoor installation.
- Advanced safety features.

## 3. SETUP AND INSTALLATION

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The Sime VERA HE 30 boiler is designed for indoor installation. Due to the complexity of gas and water connections, as well as electrical wiring, installation must be performed by a certified professional.

### 3.1 Site Requirements

- The installation site must comply with all local building and gas regulations.
- Ensure sufficient space for maintenance and servicing around the boiler.
- The boiler requires a stable, level surface for mounting.
- Adequate ventilation must be provided to prevent the accumulation of unburnt gases.

### 3.2 Connections

- **Gas Supply:** Connect to the appropriate Methane or LPG supply line. Ensure all connections are leak-free.
- **Water Connections:** Connect the heating circuit flow and return, as well as the domestic cold water inlet and hot water outlet.
- **Condensate Drain:** Connect the condensate drain to an appropriate waste system, ensuring proper

slope for drainage.

- **Electrical Supply:** The boiler operates on an electrical cord power source. Ensure the electrical supply matches the boiler's requirements (refer to specifications) and is properly grounded.
- **Flue System:** Install the flue system according to manufacturer instructions and local regulations for condensing boilers.

## 4. OPERATING INSTRUCTIONS

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Once installed and commissioned by a qualified technician, the Sime VERA HE 30 boiler is designed for user-friendly operation.

### 4.1 Powering On/Off

- **To Power On:** Ensure the gas supply is open and the electrical supply is connected. Press the main power button on the control panel. The boiler will perform a self-check.
- **To Power Off:** Press the main power button. For extended periods of inactivity, it is recommended to also close the gas supply valve.

### 4.2 Temperature Adjustment

- **Heating Temperature:** Use the dedicated controls on the boiler's panel to adjust the heating circuit temperature. The adjustable range is typically between 20°C and 80°C.
- **Domestic Hot Water (DHW) Temperature:** Adjust the DHW temperature using the specific controls. The adjustable range is typically between 10°C and 60°C.

### 4.3 System Pressure

Regularly check the system pressure on the boiler's gauge. The recommended operating pressure is usually between 1.0 and 1.5 bar when the system is cold. If the pressure drops significantly, consult the installation professional or the troubleshooting section.

## 5. MAINTENANCE

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Regular maintenance is crucial for the longevity, efficiency, and safe operation of your Sime VERA HE 30 boiler. All maintenance procedures, especially those involving internal components, must be carried out by a qualified service technician.

### 5.1 Annual Service

It is highly recommended to have your boiler serviced annually by a qualified professional. An annual service typically includes:

- Checking and cleaning the heat exchanger.
- Inspecting and cleaning the burner.
- Checking gas and water connections for leaks.
- Verifying the operation of safety devices.
- Checking the expansion vessel pressure.
- Analyzing flue gas emissions.

## 5.2 User Checks

- **Visual Inspection:** Periodically check the boiler for any visible signs of damage, leaks, or unusual noises.
- **Pressure Check:** Monitor the system pressure gauge regularly.
- **Ventilation:** Ensure that air vents are not blocked.

## 6. TROUBLESHOOTING

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This section provides guidance for common issues. For complex problems or if you are unsure, always contact a qualified service technician.

### 6.1 No Heating or Hot Water

- **Check Power:** Ensure the boiler is powered on and the electrical supply is active.
- **Check Gas Supply:** Verify that the main gas valve is open.
- **Check System Pressure:** Ensure the system pressure is within the recommended range (1.0-1.5 bar).
- **Thermostat Settings:** Confirm that your room thermostat or boiler controls are set to a heating demand.

### 6.2 Boiler Displaying an Error Code

Refer to the boiler's display for any error codes. Consult your installation professional or the full technical manual for a list of error codes and their meanings. Do not attempt to reset the boiler multiple times without understanding the cause of the error.

### 6.3 Unusual Noises or Leaks

If you notice any unusual noises (e.g., banging, gurgling) or detect any water or gas leaks, immediately shut down the boiler, turn off the gas supply, and contact a qualified service technician.

## 7. SPECIFICATIONS

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The following table details the technical specifications for the Sime VERA HE 30 Condensing Boiler.

Parameter	Value
Model	Methane / LPG Boiler
Nominal Heating Output (80-60°C)	23.7 kW
Nominal Heating Output (50-30°C)	25.7 kW
Minimum Heating Output (80-60°C)	4.5 kW
Minimum Heating Output (50-30°C)	5.1 kW
Nominal Thermal Output (Heating)	24 kW
Nominal Thermal Output (Sanitary/DHW)	30 kW

Parameter	Value
Minimum Thermal Output	4.8 kW
Usable Efficiency at Rated Power (80-60°C)	98.7%
Usable Efficiency at Minimum Power (80-60°C)	94.3%
Usable Efficiency at Rated Power (50-30°C)	107.1%
Usable Efficiency at Minimum Power (50-30°C)	105.5%
Heating Energy Efficiency Class	A
Sanitary Energy Efficiency Class	A
Load Profile (Sanitary)	XL
Sound Power Level (Heating)	54 dB(A)
Maximum Power Consumption	73 W
IP Electrical Protection Rating	IP X5
Heating Adjustment Range	20-80 °C
Water Content (Boiler)	5.1 L
Maximum Working Pressure	3 bar
Maximum Operating Temperature	85 °C
Heating Expansion Vessel Capacity	9 L
Sanitary Adjustment Range	10-60 °C
Specific Sanitary Flow Rate	13.5 L/min
Continuous Sanitary Flow Rate (at 25°C rise)	16.7 L/min
Minimum Sanitary Flow Rate	2 L/min
Sanitary Pressure (Max/Min)	7 / 0.5 bar
NOx Emission Class	6
Material	Stainless steel or copper
Power Source Type	Electrical cord
Installation Style	Indoor Installation

## 8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your installer/supplier. SIME products are typically covered by a manufacturer's warranty against defects in materials and workmanship.

## **8.1 Technical Support**

If you require technical assistance, have questions about your boiler's operation, or need to schedule service, please contact your authorized SIME installer or the supplier from whom you purchased the appliance.

Ensure you have your boiler's model number (Sime VERA HE 30) and serial number ready when contacting support.

For general inquiries, you may also visit the official SIME website for further resources and contact information.