



E.C.A. PHOENIX



Superior Safety Systems

Technical Design Properties

- Low NOx hermetic water heater
- 19 kW heating capacity
- Complies with current ErP regulations with low emissions
- Modulating fan
- Domestic water capacity of 11 liters / minute
- Electronic ignition system
- Electronic flow sensor
- Use with natural gas
- 5 different superior safety system
- LCD control panel with instant water temperature monitoring
- TSE and CE Certificated
- Dimensions of the device: 640 x 360 x 240 mm

1. Flue Gas Safety (Bad combustion prevention)
2. Flame Loss Safety (Flame availability check with ionisation electrode)
3. Overheating Water Temperature Safety (85 °C)
4. NTC Overheating Safety (71 °C)
5. Low Voltage Safety (170 VAC)
6. Fan Rpm Control via Hall Effect Sensor Signals.
7. Prevention of Dry Combustion Thanks to the Flow Sensor. (Combustion is not allowed below 2,5lt/min water flowrate)
8. Frost Protection (5°C Electrical supply to the boiler must be maintained in order to frost protection to work)
9. Overload Working Safety (system off, factory setting is 6 hours continuous operation)



How to Adjust...

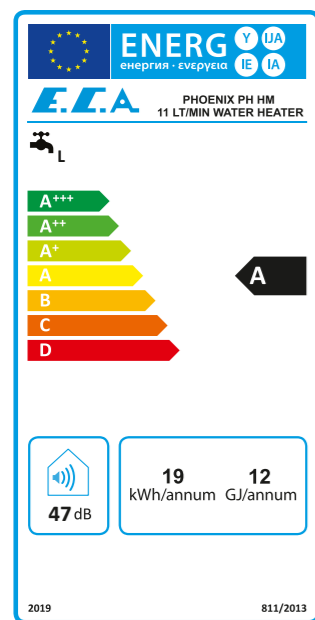









ON/OFF & Temperature Setting Knob Functions

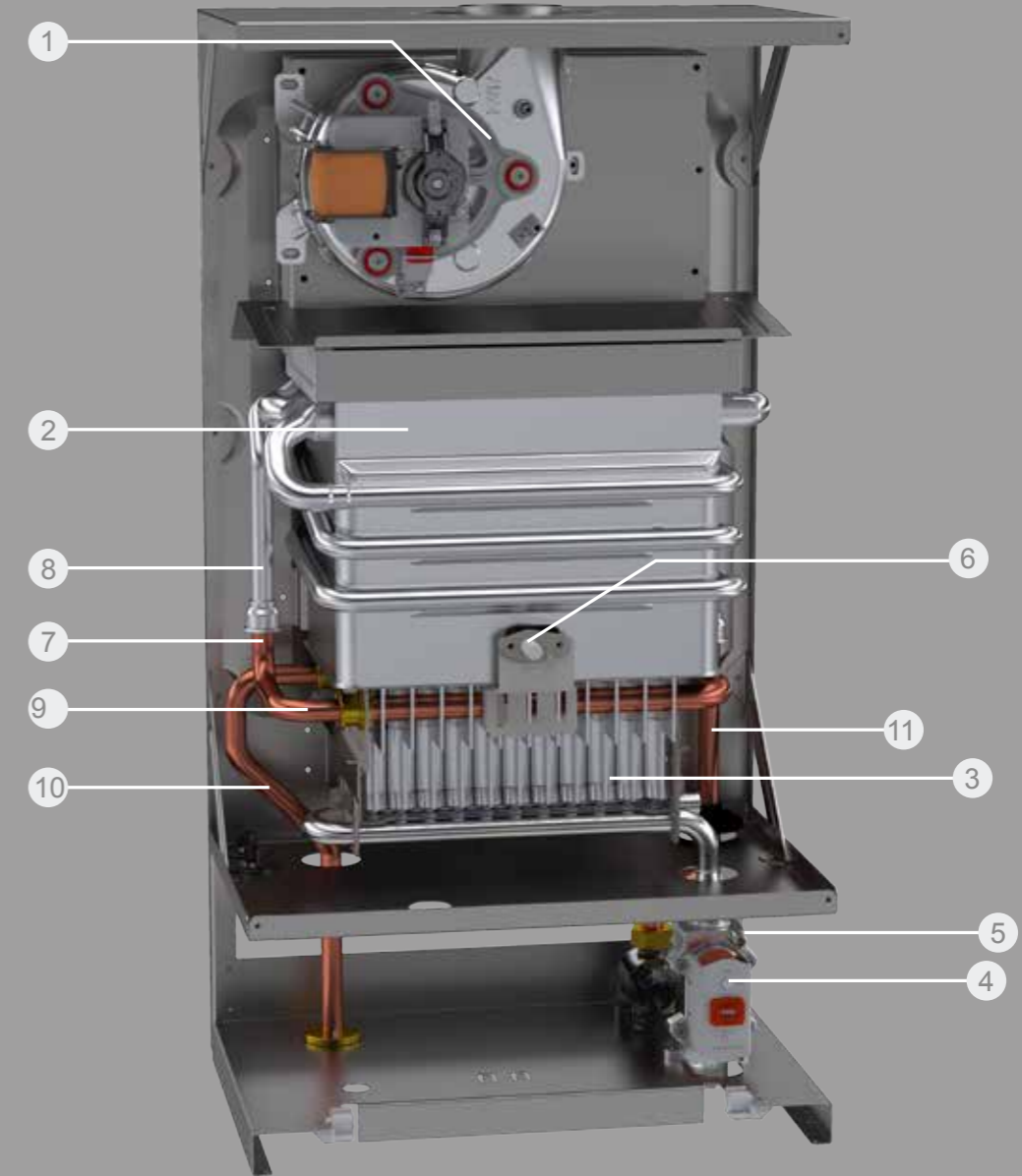
- The appliance is turned ON/OFF using the knob by pushing it.
- Set the water temperature between 35 °C and 60 °C by rotating.
- Reset the appliance if the error cause a lock out condition by pushing 3 seconds under fault condition.
- Auto or Manuel calibration adjustment. (for authorized technical person)
- Entering parameters menu and parameter adjustment. (for authorized technical person)

LCD Display

Water heater functions, water temperature (set and actual values), fault/error conditions can be seen on LCD



-  Fan symbol: Shown in case choosing the flue length value.
-  Failure symbol: Shown in case error conditions.
-  Flame symbol: Indicates flame availability. If thermal load is below %50 then only one segment is shown. 
-  Solar panel symbol: Indicates solar connections.
-  Tap symbol: Indicates water flow.
-  C symbol: Indicates actual temperature measurement.



1. Fan With Hall Effect Sensor
2. Heat Exchanger
3. Water Cooled Low NOx Burner
4. Electric Gas Valve
5. Flow Sensor
6. Ignition and Ionisation Electrode
7. Overheating Safety Switch
8. NTC Sensor
9. Burner Inlet Pipe
10. Water Outlet Pipe
11. Water Inlet Pipe

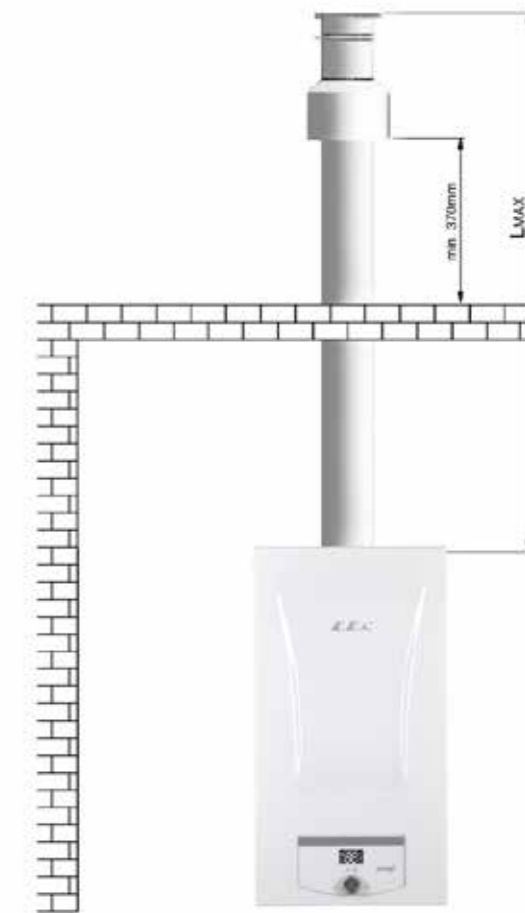
Technical Specifications

| PRODUCT TYPE | UNIT | HERMETIC WATER HEATER |
|---|-------------------|-----------------------------------|
| Gas Category | | I _{2H} , I _{2E} |
| Type of gas | | Natural gas |
| Performances | | |
| Minimum Heating Power (P _{min}) | kW | 7,37 |
| Maximum Heating Power (P _{max}) | kW | 18,94 |
| Minimum Heat Input (Q _n) | kW | 8,5 |
| Maximum Heat Input (Q _n) | kW | 22 |
| Gas Consumption* | | |
| Natural Gas (Max. Load) | m ³ /h | 2,28 |
| Natural Gas (Min. Load) | m ³ /h | 0,9 |
| Gas Supply Pressure | | |
| Natural Gas | mbar | 20 |
| Domestic Hot Water | | |
| Min. Flow Rate For Activating | l/min | 2,5 |
| Max. Flow Rate | l/min | 11 (Δt=25) |
| Min. Operating Pressure | bar | 0,2 |
| Max. Operating Pressure | bar | 10 |
| Set Temperature Range | °C | 35-60 |
| General | | |
| Electrical Supply | VAC-Hz | 230V AC-50Hz |
| Electrical Power Consumption | Watt | 30 |
| NOx Class | | 6 |
| Dimensions (HxWxD) | mm | 640X360X240 |
| Weight (Net) | kg | 16 |

*Gas consumption based on, Natural gas: Hu=9,59 kWh/m³

Chimney Applications

Horizontal & Vertical Applications



Horizontal Hermetic Flue Application L max. distance with single elbow: 4 m, 60/100

Vertical Hermetic Flue Application L max. distance without elbow: 5 m, 60/100

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