



E.C.A.  
PHOENIX  
Low NO<sub>x</sub> Hermetic Water Heater



PHOENIX

# 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



# 9

# SUPERIOR SAFETY SYSTEMS

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)



## Technical Specifications

	PHOENIX HERMETİK ŞOFBEN	Unit
Gas Category	I <sub>2H</sub> , I <sub>2E</sub>	
Type of gas	Natural gas - LPG	
<b>Performances</b>		
Min. ısıt. Gücü (Pmin)	7,37	kW
Maks ısıt. Gücü (Pmaks)	18,94	kW
Min. Isıl Yük (Qmin)	8,5	kW
Isıl Yük (Qmax)	22	kW
<b>Gas Consumption*</b>		
Natural Gas (Max. Load)	2,28	m <sup>3</sup> /h
Natural Gas (Min. Load)	0,9	m <sup>3</sup> /h
<b>Gas Supply Pressure</b>		
Natural Gas	20	mbar
<b>Domestic Hot Water</b>		
Min. Flow Rate For Activating	2,5	l/min
Max. Flow Rate	11 (Δt=25)	l/min
Min. Operating Pressure	0,2	bar
Max. Operating Pressure	10	bar
Set Temperature Range	35-60	°C
<b>General</b>		
Electrical Supply	230V AC-50Hz	VAC-Hz
Electrical Power Consumption	30	Watt
NOx Class	6	
Dimensions (HxWxD)	654X352X268	mm
Weight (Net)	16	kg

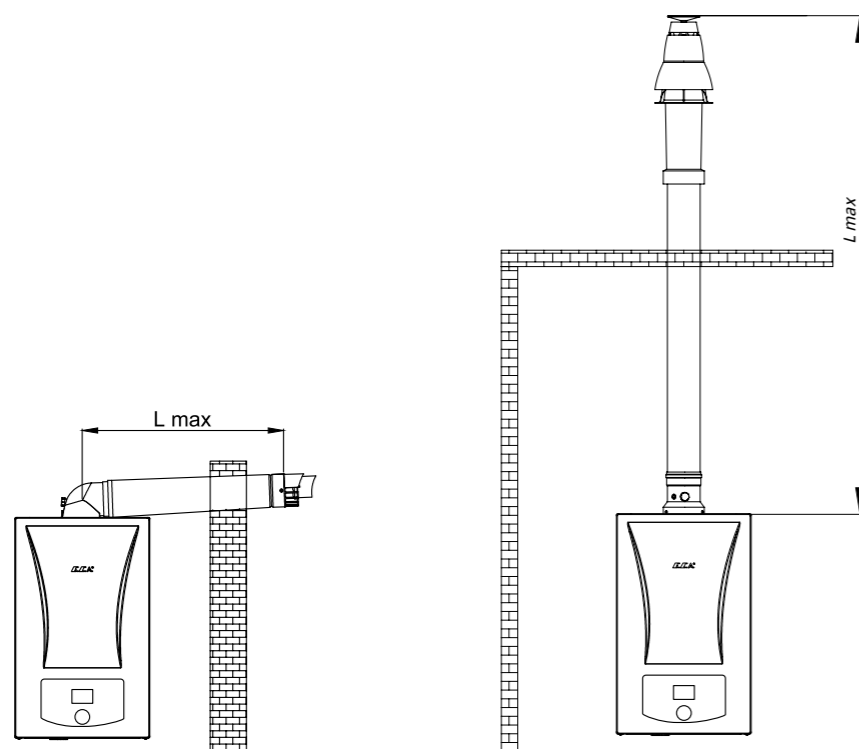
\*Gas consumption based on, Natural gas: Hu=9,59 kWh/m<sup>3</sup>

# 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



# Perfection is Hidden in Details

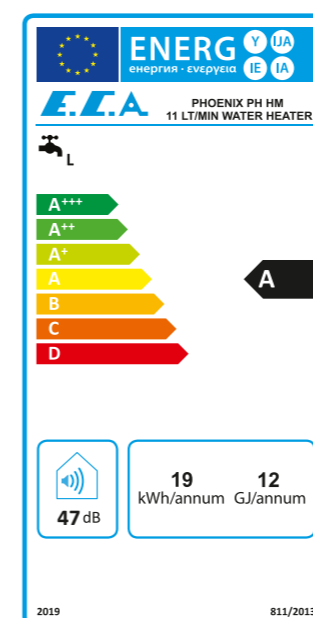


### ON/OFF & Temperature Setting Knob Functions

- 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 Manual 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.



- CONDENSING COMBI BOILERS • SMART ROOM THERMOSTATS
- PELLET STOVE/BOILER CENTRAL SYSTEM BOILERS • RADIATORS
- WATER HEATERS • DHW TANKS PUMPS
- DOMESTIC / COMMERCIAL AIR CONDITIONERS

**HEAD OFFICE**  
Eleks Dış Ticaret A.Ş.

Kemeralti Caddesi, Ummehan,  
No: 17/4 34425 Karakoy  
Beyoğlu/İSTANBUL-TURKEY

✉ **E-mail:** [eleks@eleks.com.tr](mailto:eleks@eleks.com.tr)  
☎ **Phone:** +90 (212) 708 48 50  
☎ **Fax:** +90 (212) 292 80 36  
🌐 [www.eleks.com.tr](http://www.eleks.com.tr)

**FACTORY**

Mustafa Kemal Bulvarı Organize  
Sanayi Bölgesi 3.Kısım No: 13  
45030 MANİSA-TURKEY

☎ **Phone:** +90 (236) 213 00 21  
☎ **Fax:** +90 (236) 213 08 59