



E.C.A.
GELIOS PLUS
Combi Boilers



TOGETHER FOR YEARS

Safety, Quality & Comfort All Together

Technical Design Properties

- Capacity: 11-13-16-20-24-28 kW Hermetic mono thermal combi boiler
- Ø60/100 concentric chimney up to 4 m usage (horizontal and vertical application)
- Optional Ø80/80 twin chimney up to 8 m total length usage (horizontal and vertical application)
- Chimney kit types: C12_(xx), C32_(xx), C42_(xx), C52_(xx) (Hermetic)
- 90,6% efficiency
- NOx class : 3
- Expansion tank capacity : 6 lt
- Radiator water operation temperature range: 30-80 °C
- Utilization water operation temperature range: 35-64 °C
- Weight (without packaging) : 32 kg
- Usage with natural gas (92/42/EEC directive compliant)
- On/Off thermostat and smart thermostat control possibility
- Low CO emission
- 3 way standard pump
- Protection Class: IPx4D
- Dimensions 720 x 400 x 330 mm (HxWxD)
- Compact design
- Multi-functional LCD Display
- Ergonomic design and easy usage
- Simple elegant appearance



CAPACITY	11 kW, 13 kW, 16 kW, 20 kW, 24 kW, 28 kW
MODELS	Combi Boiler (HM)
FLUE TYPE	C Types
GAS TYPE	Natural Gas

17

SUPERIOR
SAFETY
SYSTEMS



Meet the High Level of Heat Comfort with Conventional Combi Boilers



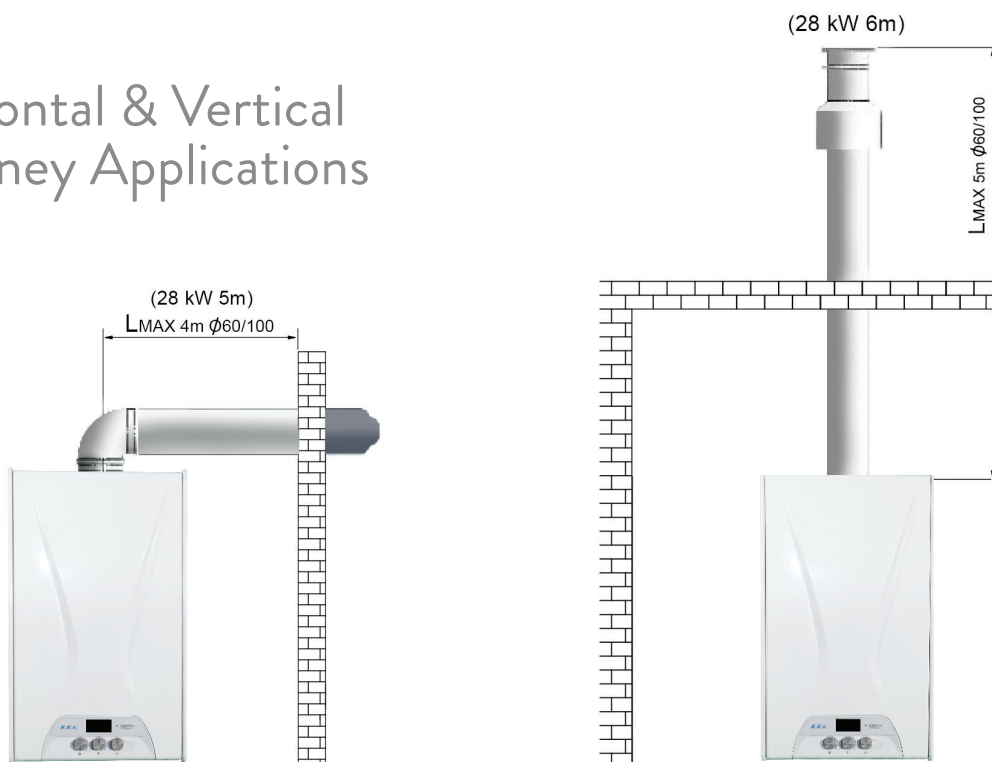
1. High Water Pressure (3 bars) safety unit protects both the central heating system and the combi boiler against overpressure
2. Low Water Pressure (0,8 bar) safety unit switches the combi boiler off when the water pressure is low
3. Hot Water Accumulation safety unit prevents thermal accumulation thanks to the by-pass and pump over-run systems
4. Expansion Tank (6 l) compensates expansion of the hot water circulating within the central heating system (8 l for 28 Kw)
5. EMC Filter removes electromagnetic interferences and ensures safety for the ignition process
6. Flame Loss Protection
7. Pump Blockage unit protects the pump against blockage risk after it remains idle for a long time
8. 3-Way Blockage Protection unit for monothermic models
9. 2-Stage Frost Safety Unit automatically operates depending on the water temperature values measured by the temperature sensors for central heating water and domestic water (only when the combi boiler is on stand-by mode)
10. Automatic Air Purger for the pump, Manual Air Purger for the expansion tank
11. Differential air pressure switch for flue gas exhaust safety
12. Overheating Protection Unit (71°C) for DHW.
13. Overheating Safety Unit (90°C) for CH.
14. Limit Thermostat to limit the temperature of the water outgoing from the exchanger at 105°C and to switch the combi boiler off
15. Low Voltage Safety Unit (160 VAC)
16. High Voltage Safety Unit (260 VAC)
17. Drain tap which enables discharging radiator circuit water in the combi boiler.



Technical Specifications

Product type	GELIOS PLUS 11/13/16/20/24 HM					GELIOS PLUS 28 HM	Unit
Category	I _{2H}						
Type	C _{12(x)} , C _{32(x)} , *C _{42(x)} , *C _{52(x)}						
Gas Type	G20 (Natural Gas)						
Efficiency	90,6					90,7	%
Power							
P Min. Heating Power (Thermal Power)	8,2					9,5	kW
P Max. Heating Power (Thermal Power)	11,3	13	16	20	23,3	28	kW
Q Thermal Load (Min)	9,2					10,5	kW
Q Thermal Load (Max)	12,8	14,8	17,9	22,3	25,6	30,5	kW
Gas Consumption							
Natural gas (at full power)	1,38	1,58	1,93	2,41	2,76	3,22	m ³ /h
Natural gas (at min power)	0,96					1,11	m ³ /h
Central Heating							
Minimum Water Pressure	0,8						bar
Maximum Water Pressure	3						bar
Maximum Water Temperature	90						°C
Temperature Setting Range	30-80						°C
Domestic Hot Water							
Min. Flow Rate	3						l/min
Max. Flow Rate	10 (Δt=33,4°C)			12 (Δt=33,4°C)			l/min
Water Pressure	0,3						bar
Max. Water Pressure	10						bar
Hot Water Range	35-64						°C
General							
Electric Supply	230 V AC-50Hz						VAC- Hz
Electric Consumption	119						watt
Protection Class	IPx4D						
Expansion Tank	6			8			Liter
Dimension (HxWxD)	720x400x330						mm
Weight (without packaging)	32			33			kg
Nox Class	3						
Pipe Connectipons							
CH	3/4						Inch
DHW	1/2						Inch
Gas	3/4						Inch

Horizontal & Vertical Chimney Applications



Optional Control Accessories



E.C.A. Smart Combi-Air Conditioner Room Thermostat

7006907804



E.C.A. Smart Combi Boiler Room Thermostat

7006907531



On/Off Room Thermostat

7006901312



Digital On/Off Room Thermostat

7006902502



E.C.A. On/Off Cordless Room Thermostat

7006907522

Cord Room Thermostat

7006907519



E.C.A. Cordless Programmable Digital Room Thermostat

7006901313

Cordless

7006902501



E.C.A. Cordless Programmable Digital Room Thermostat

7006902046



HEAD OFFICE

Eleks Dış Ticaret A.Ş.

Kemeralti Caddesi, Ummehan,
No: 17/4 34425 Karakoy
Beyoglu/ISTANBUL-TURKEY
✉ **E-mail:** eleks@eleks.com.tr
☎ **Phone:** +90 (212) 708 48 50
☎ **Fax:** +90 (212) 292 80 36
🌐 www.eleks.com.tr www.eca.com.tr

EUROPE

E.C.A. Germany

Hohenzollernring 103, 50672
Cologne Germany
✉ **E-mail:** info@eca-germany.de
☎ **Phone:** +49 (0) 221/ 320 918 96
☎ **Fax:** +49 (0) 221/ 320 918 90
🌐 www.eca-serel.de

Eleks U.K.

70-77, Cowcross Street,
London United Kingdom
EC1M 6EL (Alan Baxter)
✉ **E-mail:** info@eca-serel.co.uk
☎ **Phone:** +44 (0)203 757 54 99