E.C.A.
GELIOS
PLUS

E.C.A®

TOGETHER FOR YEARS

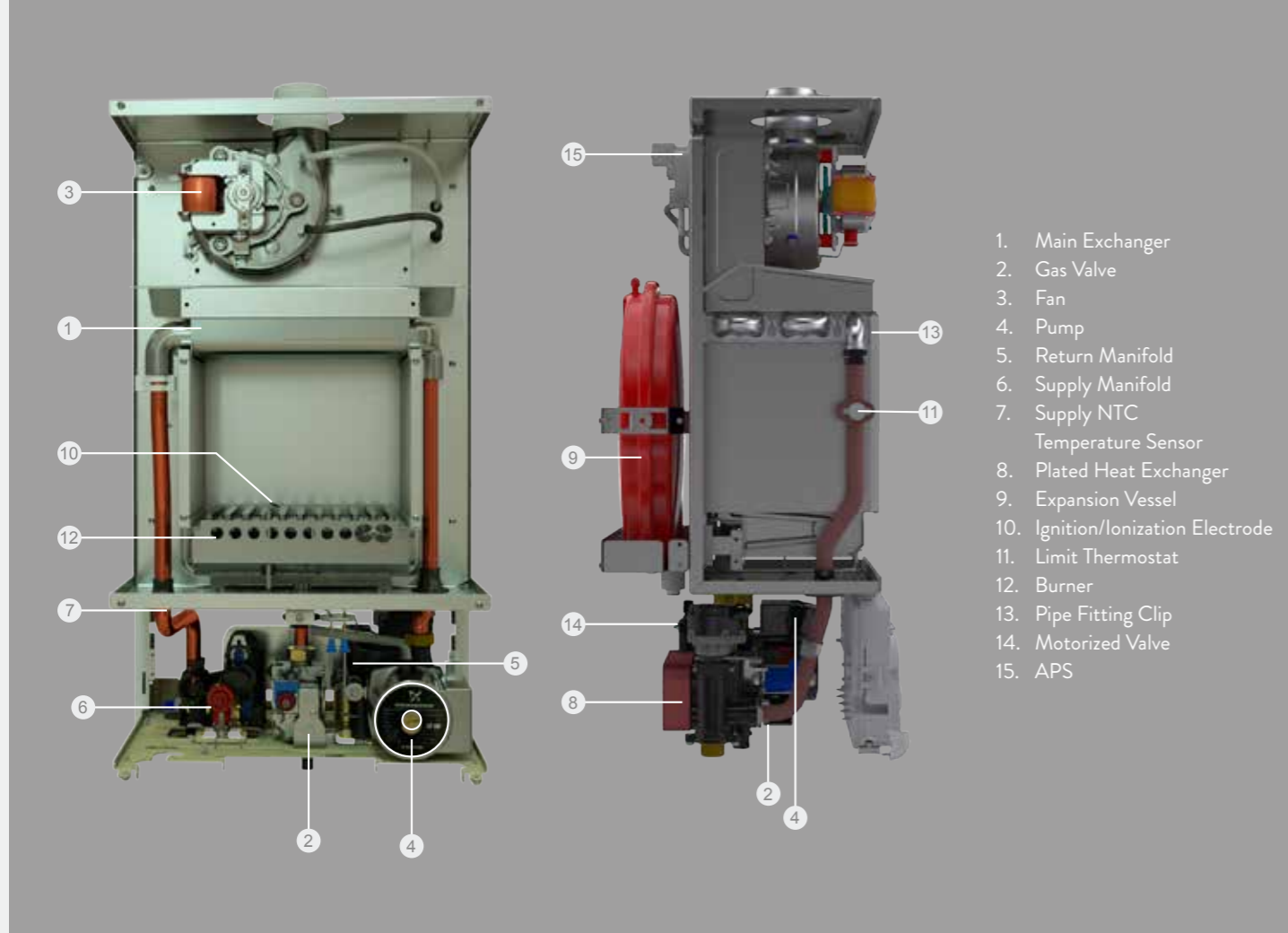# Superior Safety Systems

Technical Design Properties

1. High Water Pressure (3 bar) 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 28-33 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. Over Heating Protection Unit for DHW (71 °C)
13. Over Heating Safety Unit for CH (95 °C)
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.

- 11-13-16-20-24-28-33 kW capacities hermetic combi boiler (monothermic)
- Usage ability with Natural Gas and LPG
- 90,6% efficiency
- Low CO emission
- 3 way standard pump
- LCD screen which shows the adjustment buttons and functions on remote control panel which has an ergonomic design.
- Minimal dimensions to fit in (720x400x330 mm)
- Design which provides easy service and maintenance
- Chimney kit types: C12(X), C32(X), C42(X), C52(X)(Hermetic)
- On/Off thermostat and smart thermostat control possibility

CAPACITY	11-13-16-20-24-28-33 kW
MODELS	Combi Boiler (HM)
FLUE TYPE	C Types
GAS TYPE	Natural Gas/ LPG

How to Adjust...

1. **Position Selection Button:** It enables opening/closing of your device, selection of summer/winter position, and resetting of the device.

2. **Central Heating Water Temperature Adjusting Button:** While the position selection button is in winter position, you can select a comfort temperature as you like in between 30° C - 80° C by turning the central heating water temperature adjusting button in between min. and max.

3. **Domestic Hot Water Temperature Adjusting Button:** While the position selection button is in summer or winter position, you can select a running water temperature in between 35°C - 64°C by turning the domestic hot water temperature adjusting button in between min. and max.

1. Main Exchanger
2. Gas Valve
3. Fan
4. Pump
5. Return Manifold
6. Supply Manifold
7. Supply NTC Temperature Sensor
8. Plated Heat Exchanger
9. Expansion Vessel
10. Ignition/Ionization Electrode
11. Limit Thermostat
12. Burner
13. Pipe Fitting Clip
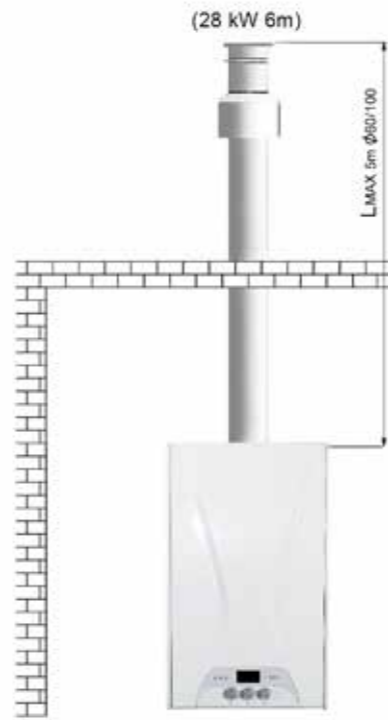14. Motorized Valve
15. APS

Technical Specifications

PRODUCT TYPE	UNIT	GELIOS PLUS 11 HM	GELIOS PLUS 13 HM	GELIOS PLUS 16 HM	GELIOS PLUS 20 HM	GELIOS PLUS 24 HM	GELIOS PLUS 28 HM	GELIOS PLUS 33 HM
Gas Category	-	$II_{2H3B/P}$						
Flue Types	-	C12(x), C32(x), *C42(x), *C52(x)						
Gas Input Pressure (Natural Gas G20)	mbar	20						
Gas Input Pressure (LPG G30-G31)	mbar	30-37						
Capacity-Efficiency								
Minimum Heating Power (Pmin)	kW	8,2					9,5	11,3
Maximum Heating Power (Pmax)	kW	11,3	13	16	20	23,3	28	32,5
Minimum Heat Input (Qn)	kW	9,2					10,5	12,5
Maximum Heat Input (Qn)	kW	12,8	14,8	17,9	22,3	25,6	30,5	35,3
Efficiency	%	90,6					90,7	90,3
Gas Consumption								
Natural Gas (@Min-Max Capactiy)	m³/h	1,38-0,96	1,58-0,96	1,93-0,96	2,41-0,96	2,76-0,96	3,22-1,11	3,67-1,3
LPG	kg/h	1,07-0,75	1,23-0,75	1,50-0,75	1,88-0,75	2,15--0,75	2,51-0,88	2,87-1,01
NOX Class	-	2					3	
Central Heating								
Minimum Water Pressure	bar	0,8						
Maximum Water Pressure	bar	3						
Maximum Water Temperature	°C	90						
Operation Range	°C	30-80						
Domestic Hot Water								
Minimum Flow Rate	l/min	3						
Maximum Flow Rate	l/min	10 (Δt=33,4°C)					12 (Δt=33,4°C)	14 (Δt=33,4°C)
Minimum water pressure	bar	0,3						
Maximum water pressure	bar	10						
Operation Range	°C	35-64						
General								
Electrical Supply	V AC-Hz	230 V AC-50Hz						
Electrical Consumption	Watt	119					156	165
Protection Class	-	IPx4D						
Expansion Vessel Capacity	l	6					8	
Weight (Net)	kg	32					33	34
Dimesions (HxWxD)	mm	720x400x330						
Pipe Connections								
CH	Inch	3/4						
DHW	Inch	1/2						
Gas	Inch	3/4						

Chimney Applications

Horizontal & Vertical Applications

(28 kW 5m)
L MAX 4m Ø60/100

(28 kW 6m)
L MAX 4m Ø60/100

Horizontal Hermetic Flue Application
L max. distance with single elbow: 4 m, Ø60/100
L max. distance with single elbow: 6 m, Ø80/125

Vertical Hermetic Flue Application
L max. distance without elbow: 5 m, Ø60/100
L max. distance without elbow: 8 m, Ø80/125

Optional Smart Combi Boiler Kit

Smart Combi Boilers or combi-air conditioner room thermostats give you an ability for remote control where you can manage to set your home temperature via your handy phone and to make saving as well as getting a high level of comfort.

Optional Control Accessories

E.C.A. Smart Combi Room Thermostat

- Compatible for All Combi Boilers
- Mobile Application and Website
- Wireless Connection
- On/Off Model
- Programable
- Sensitity: 0,1°C
- Room Control Temperature: 0°C-40°C

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- Mobile Application and Website
- Wireless Connection
- On/Off Model
- Programable
- Sensitity: 0,1°C
- Room Control Temperature: 0°C-40°C

E.C.A. Poly 100 W Room Thermostat

- Compatible for All Combi Boilers
- LCD Display
- Wireless Connection
- On/Off Model
- Sensitity: 0,1°C
- Room Control Temperature: 5°C-30°C

E.C.A. Wireless Room Thermostat

- Compatible for All Combi Boilers
- LCD Display
- Wireless Connection
- On/Off Model
- Sensitity: 0,2°C
- Room Control Temperature: 5°C-35°C

E.C.A. Programmable Digital Room Thermostat

- Compatible for All Combi Boilers
- LCD Display
- Cable Connection
- On/Off Model
- Daily, 4 different time frames
- Sensitity: 0,5°C
- Room Control Temperature: 5°C-35°C

E.C.A. Digital Room Thermostat

- Compatible for All Combi Boilers
- LCD Display
- Cable Connection
- On/Off Model
- Sensitity: 0,5°C
- Room Control Temperature: 5°C-35°C

E.C.A. Room Thermostat

- Compatible for All Combi Boilers
- LCD Display
- Cable Connection
- On/Off Model
- Sensitity: 0,2°C
- Room Control Temperature: 5°C-35°C

HEAD OFFICE

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