

E.C.A. CONFEO PREMIX



Superior Safety Systems

Technical Design Properties

- 14-20-24-28-30-35 kW capacities
- Usage ability with Natural Gas and LPG
- 107,5% efficiency
- ErP A energy efficiency class
- ErP regulation compatible
- Eco and Comfort modes for the Central Heating
- 1/4 Modulation rate
- Low NOx and CO emissions
- With the help of a 3 cycled automatic purger equipped circulation pump, less energy consumption and compatibility with every space.
- High combustion efficiency with stainless steel burner and low waste gas emission
- Protection of the fitting and combi boiler by the help of the automatic by-pass system
- Protection against freezing
- “Pump over-run” feature that prevents thermal piling up within the fitting

CAPACITY	14-20-24-28-30-35 kW
MODELS	Combi Boiler (HM) CH Only (HCH) System Boiler (HST)
FLUE TYPE	C and B Types
GAS TYPE	Natural Gas/ LPG

- Plated exchanger in order to get hot water at a high comfort level
- Feed forward feature of potable water and ability to get water at constant temperature via the turbine system
- Boost feature in domestic water (possibility to get more comfortable hot water by exceeding 15% device capacity)
- Minimal dimensions to fit in (678 mm x 410 mm x 288 mm)
- Full touch glass screen
- Special design with glass front panel
- Design that facilitates servicing and maintenance
- Predictive Maintenance Features (In cases where there is a risk of error, giving warning before error occurs)
- Error message voice alert system
- Silent operation (<47 dB)
- 2 functions in 1 electrode (ignition - ionization)
- Compact Full Hermetic Structure
- Single body for 60/100 mm and 80/125 chimneys.
- Child lock
- TSE and CE certificates
- Ability to connect room thermostat, external weather temperature sensor and timer
- Control availability with iOS and Android applications via the smart room thermostat (Optional)
- Pressured System Solar Energy Support (Optional)

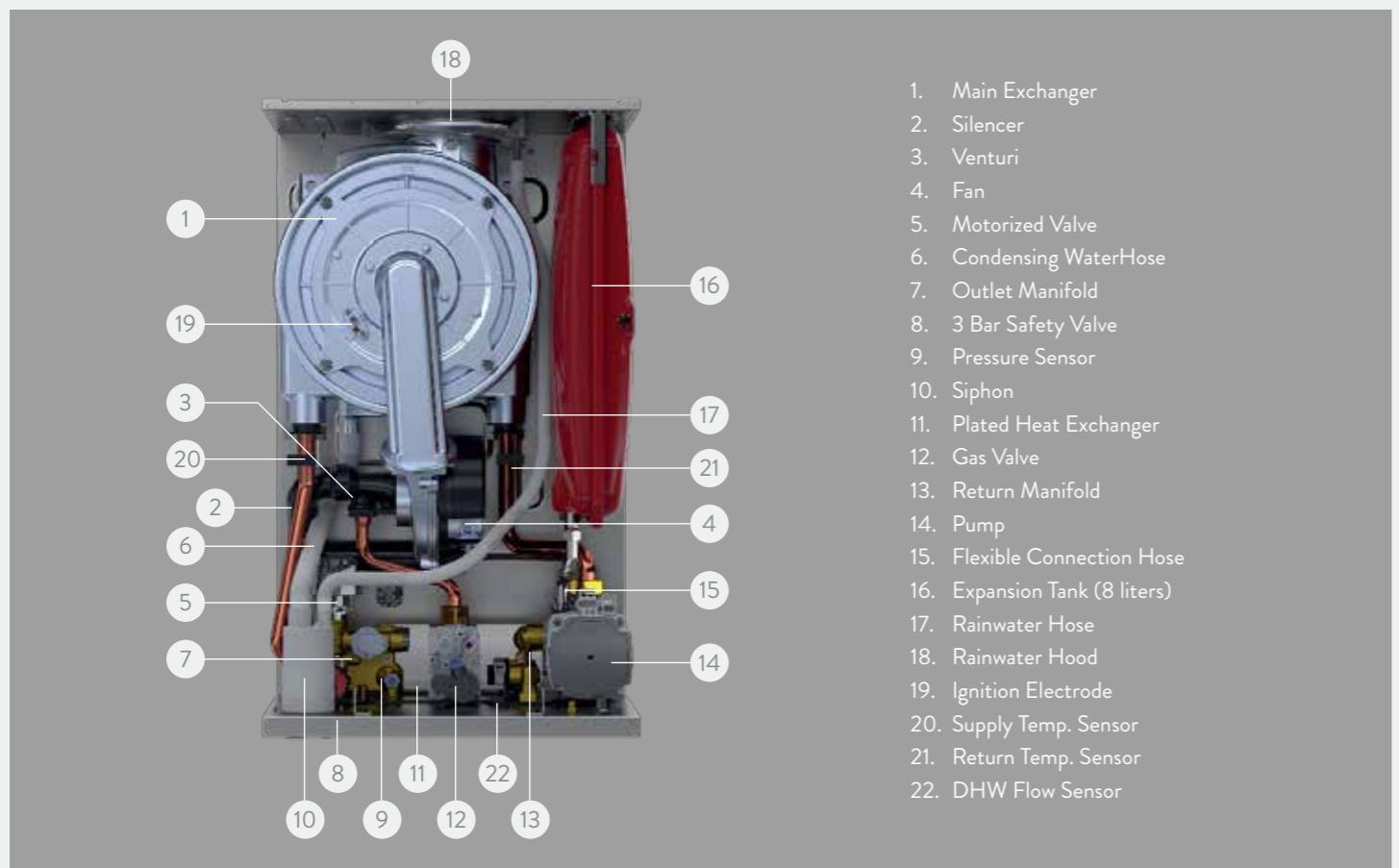
1. High Water Pressure (3 bar) safety unit protects both the central heating system and the combi boiler against overpressure
2. Low Water Pressure (0,4 bar) safety unit switches the combi boiler off when the water pressure is low
3. Expansion Tank (8 l) compensates expansion of the hot water circulating within the central heating system
4. Flame Loss Protection
5. Pump Blockage unit protects the pump against blockage risk after it remains idle for a long time
6. 3-Way Blockage Protection unit for monothermic models
7. Automatic Air Purger for the pump, Manual Air Purger for the expansion tank
8. Over Heating Protection Unit for DHW (71 °C)
9. Over Heating Protection Unit for Flue Gas (95 °C)
10. Over Heating Safety Unit for CH (95 °C)
11. Low Voltage Safety Unit (170 VAC)
12. Internal By-Pass System
13. Anti-Freeze Protection
14. Hall Effect Flow Sensor Detection
15. Ingress of Water Protection from Air Inlet Side of Chimney
16. Annual Maintenance Reminding System



How to Adjust...



- Reset Button** When a lockout error condition occurs (EXX), the error must first be corrected so that the error code can be removed from the LCD screen. After pressing the "Reset" key once, the device can switch back to normal operation state. The first time the device starts, it will start working in Comfort mode. Once the Reset button is pressed when operating in Comfort mode, the device will switch to Eco mode. Then when Reset button is pressed again, the unit will switch to Comfort mode.
- Domestic Hot Water Increase Temperature Button** The temperature of the domestic water can be increased up to 65 °C thanks to the domestic water temperature increase button.
- Button: Central Heating Water Increase Temperature Button** The temperature of the heating water can be increased up to 80 °C thanks to the heating water temperature increase button.
- Button: Domestic Hot Water Decrease Temperature Button** The temperature of the domestic water can be decreased down to 30 °C thanks to the domestic water temperature decrease button.
- Button: Central Heating Water Decrease Temperature Button** The temperature of the heating water can be decreased down to 30 °C thanks to the heating water temperature decrease button.
- Button: Position Selection Button (On/Off and Summer/Winter Switch Button)** Main functions; The position can be changed by pressing the position selection button once to change between the winter mode and the summer mode. If the button is pressed for 5 seconds, the device will switch into "standby" position. It will suffice to press the button once to get the device in operation position.
- Button: Child Lock Button** It is active when the Child Lock Button is kept pressed for 5 seconds and no touch button on the screen performs its function. Just press and hold for 5 seconds to remove it from the child lock.
- Button: Central Heating Slider Temperature Button** The temperature of the heating water can be adjusted between 30°C – 80 °C thanks to the central heating slider temperature button.
- Button: Domestic Hot Water Slider Temperature Button** The temperature of the domestic water can be adjusted between 30°C – 65 °C thanks to the domestic hot water slider temperature button.



Technical Specifications

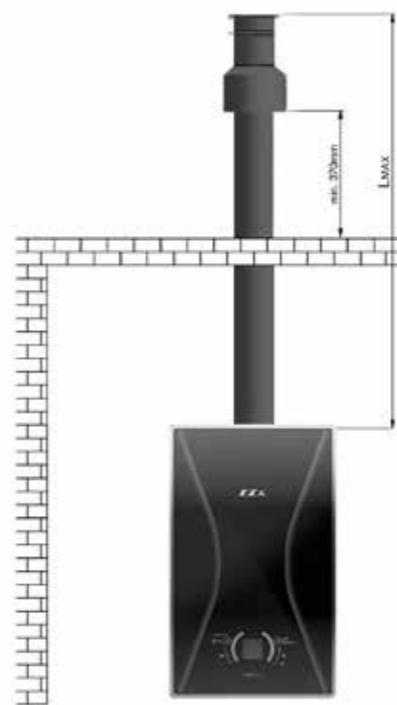
PRODUCT TYPE	UNIT	Confeo Premix 14 HM-HCH-HST	Confeo Premix 20 HM-HCH-HST	Confeo Premix 24 HM-HCH-HST	Confeo Premix 28 HM-HCH-HST	Confeo Premix 30 HM-HCH-HST	Confeo Premix 35 HM-HCH-HST
Gas Category	-		I2H, I3P, I2Esi, I2E(S), I2L3P, I2H3P, I2ELL3P, I2Esi3P				
Flue Types	-		C13(x), C33(x), C43(x), C53(x), C63(x), C83(x), B23, B33				
Gas Input Pressure (Natural Gas G20)	mbar		20				
Gas Input Pressure (Natural Gas G25)	mbar		20/25				
Gas Input Pressure (LPG G31)	mbar		37/50				
Capacity/Efficiency							
Minimum Heating Power (Min. 60°C)	kW	5,6	5,6	5,6	6,4	6,9	8
Maximum Heating Power (80/60°C)	kW	14,1	20,2	24,5	28	30	35
Minimum Heating Power (Min. 30°C)	kW	6,7	6,7	6,7	7,7	8,3	9,6
Maximum Heating Power (50/30°C)	kW	15	22,2	26	29,6	31,7	37
Minimum Heat Input (Qn)	kW	6,2	6,2	6,2	7,2	7,7	9
Maximum Heat Input (Qn)	kW	14,5	20,7	25,2	28,7	30,8	35,9
DHW Maximum Heat Input (Qn)	kW	25,2	25,2	27,2	31,5	33,5	35,9
Efficiency (Max. 80/60°C) (Gross Calorific Value)	%	97,50%	97,50%	97,50%	97,50%	97,50%	97,50%
Efficiency (30°C Return) (Gross Calorific Value)	%	107,50%	107,50%	107,50%	107,50%	107,50%	107,50%
ERP Informations							
Seasonal Space Heating Energy Efficiency Class	-	A	A	A	A	A	A
Water Heating Energy Efficiency Class/Load Profile	-	A/XL	A/XL	A/XL	A/XL	A/XL	A/XL
Rated Heat Output (Prated)	kW	14,1	20,2	24,5	28	30	35
Seasonal Space Heating Energy Efficiency	%	92	92,11	92,21	92,71	92,03	92,85
Water Heating Energy Efficiency	%	90,7	90,7	83,6	83,9	82,8	82,8
Sound Power Level	db(A)	44	46	47	49	50	52
Efficiency at Rated Heat Output At High Temperature Regime (η_4)	%	87,9	87,9	87,9	87,9	87,9	87,9
Efficiency at 30% of rated Output At Low Temperature Regime (η_1)	%	97,2	97,2	97,2	97,7	97,5	97,6
At Full Load elmax	kW	0,025	0,035	0,04	0,04	0,056	0,066
At Part Load elmin	kW	0,012	0,012	0,012	0,012	0,013	0,013
In standby Mode	kW	0,004	0,004	0,005	0,004	0,004	0,004
Standby Heat Loss	kW	0,065	0,065	0,065	0,065	0,065	0,065
Emissions of NOX Level	mg/kWh	33,35	38,06	32,27	21,29	37,4	25,05
Daily Electricity Consumption (Qselect)	kWh	0,2	0,2	0,21	0,22	0,24	0,212
Daily Fuel Consumption (Qfuel)	kWh	23,072	23,072	23,767	22,8	23,021	21,505
Gas Consumption							
Natural Gas (Min-Max Capacity)	m³/h	0,65-1,53	0,65-2,2	0,65-2,65	0,75-3,02	0,81-3,25	0,94-3,79
LPG (Min-Max Capacity) (Propane)	kg/h	0,51-1,2	0,51-1,7	0,51-1,98	0,59-2,26	0,63-2,46	0,74-2,87
NOX Class	-	6	6	6	6	6	6
Central Heating							
Minimum Water Pressure	bar	0,4	0,4	0,4	0,4	0,4	0,4
Maximum Water Pressure	bar	3	3	3	3	3	3
Operation Range (@Radiator heating)	°C	30-80	30-80	30-80	30-80	30-80	30-80
Operation Range (@Underfloor heating)	°C	30-45	30-45	30-45	30-45	30-45	30-45
Maximum Limit Temperature	°C	> 90	> 90	> 90	> 90	> 90	> 90
Domestic Hot Water (only valid for HM)							
Minimum Flow for Operating	l/min	2,5 (±%10)	2,5 (±%10)	2,5 (±%10)	2,5 (±%10)	2,5 (±%10)	2,5 (±%10)
Minimum Flow for Closing	l/min	2,0 (±%10)	2,0 (±%10)	2,0 (±%10)	2,0 (±%10)	2,0 (±%10)	2,0 (±%10)
Maximum Flow Rate	l/min	10 ±%15 (ΔT = 36,1°C)	10 ±%15 (ΔT = 36,1°C)	12 ±%15 (ΔT = 32,4°C)	12 ±%15 (ΔT = 37,6°C)	12 ±%15 (ΔT = 40,0°C)	14 ±%15 (ΔT = 36,8°C)
Minimum Water Pressure	bar	0,4	0,4	0,4	0,4	0,4	0,4
Maximum Water Pressure	bar	10	10	10	10	10	10
Operation Range	°C	30-65	30-65	30-65	30-65	30-65	30-65
Maximum Limit Temperature	°C	≥ 71	≥ 71	≥ 71	≥ 71	≥ 71	≥ 71
General							
Electrical Supply	V AC-Hz						
							230 V AC-50 Hz
Electrical Consumption (Max-Std Pump)	Watt	120	130	145	155	170	190
Electrical Consumption (Max-HE Pump)	Watt	65	80	85	110	130	165
Protection Class	-						IPX4D
Expansion Vessel Capacity	l						8
Weight (Net)	kg		31		32	32	34
Dimensions (HxWxD)	mm						678*410*288
Flue Lengths							
C13 - 60/100 Max.	m	10	10	10	10	10	10
C13 - 80/125 Max.	m	20	20	20	20	20	20
C33 - 60/100 Max.	m	10	10	10	10	10	10
C33 - 80/125 Max.	m	20	20	20	20	20	20
C43 - 60/100 Max.	m	10	10	10	10	10	10
C53 - 60/100 Max.	m	10	10	10	10	10	10
C83 - 80/80 Max.	m	28	28	28	28	28	28
C83 - 80/80 Min.	m	3	3	3	3	3	3
B23 - 80 Max.	m	28	28	28	28	28	28
B33 - 60/100 Max.	m	10	10	10	10	10	10
Emission Values							
CO ₂ Ratio (@Max-G20)	%	9,2 ± 0,2	9,2 ± 0,2	9,3 ± 0,2	9,5 ± 0,2	9,5 ± 0,2	9,5 ± 0,2
CO ₂ Ratio (@Min-G20)	%	8,7 ± 0,2	8,7 ± 0,2	8,7 ± 0,2	8,9 ± 0,2	8,9 ± 0,2	8,9 ± 0,2
CO ₂ Ratio (@Max-G31)	%	10,4 ± 0,2	10,4 ± 0,2	10,4 ± 0,2	10,6 ± 0,2	10,6 ± 0,2	10,6 ± 0,2
CO ₂ Ratio (@Min-G31)	%	9,6 ± 0,2	9,6 ± 0,2	9,6 ± 0,2	9,9 ± 0,2	9,9 ± 0,2	9,9 ± 0,2
Boiler Circuit (only valid for HST)							
Operation Range	°C	30-65	30-65	30-65	30-65	30-65	30-65

Chimney Applications

Horizontal & Vertical Application



Horizontal Hermetic Flue Application
L max. distance with single elbow: 10 m, Ø60/100
L max. distance with single elbow: 20 m, Ø80/125



Vertical Hermetic Flue Application
L max. distance without elbow: 10 m, Ø60/100
L max. distance without elbow: 20 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
- Sensitivity: 0,1°C
- Room Control Temperature: 0°C-40°C

E.C.A. Smart Combi Room Thermostat



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

E.C.A. Circle 100 W Room Thermostat



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

E.C.A. Poly 100 W Room Thermostat



- Compatible for All Combi Boilers
- LCD Display
- Wireless Connection
- On/Off Model
- Sensitivity: 0,1°C
- Room Control Temperature: 5°C-30°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
- Sensitivity: 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
- Sensitivity: 0,5°C
- Room Control Temperature: 5°C-35°C

E.C.A. Wireless Room Thermostat



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

HEAD OFFICE

Eleks Dış Ticaret A.Ş.

Esentepe Mahallesi,
Kasap Sokak, No:15/i,
34394 Sisli/Istanbul/Turkey

✉ eleks@eleks.com.tr

📞 +90 (212) 708 48 50

📠 +90 (212) 292 80 36

🌐 www.eleks.com.tr www.eca.com.tr

EUROPE

E.C.A. Germany GmbH

Lindenstraße 14
50674 Köln Germany
✉ info@eca-germany.de
📞 +49 (0) 221 / 924 28 165
📠 +49 (0) 221 / 924 28 169
🌐 www.eca-serel.de

Eleks U.K.

Alan Baxter & Associates Workspaces,
Cowcross Court 70 77, Cowcross Street,
London EC1M 6EL
✉ info@eca-serel.co.uk
📞 +44 (0)203 757 54 99

