



E.C.A.
CALORA PREMIX
Combi Boilers



TOGETHER FOR YEARS

Technical Design Properties

15 SUPERIOR SAFETY SYSTEMS



Environment-Friendly System with Low Emission Values

1. High Water Pressure (3 bars) safety unit protects both the central heating system and the combi boiler against overpressure
2. Low Water Pressure (0,4 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 Safety unit For CH (95 °C)
10. Low Voltage Safety Unit (170 VAC)
11. Over Heating Protection For Flue Gas (95 °C)
12. Internal By-Pass System
13. Anti-Freeze Protection
14. Hall Effect Flow Sensor Detection
15. Annual Maintenance Reminding System

- ErP Efficiency Class A for CH and DHW (XL load profile)
- 678 x 410 x 288 mm
- Eco and Comfort mode alternatives for Central Heating
- Silent Operation (49 db)
- Efficiency up to 107,5%
- 1/4 Modulation ratio
- Compatible with room controllers (room thermostat, outdoor temperature sensor and timer)
- Smart room thermostat compatibility via iOS or android (Optional)
- CE and TSE approved

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





Technical Specifications

Product Type	CALORA PREMIX 24 HM-HCH-HST		Unit
Gas Category	I _{2H} , I _{2HP} , I _{2E} , I _{2ECS} , I _{2L} , I _{2LP} , I _{2LBP} , I _{2H} , I _{2HP} , I _{2E} , I _{2ECS} , I _{2L} , I _{2LP} , I _{2LBP}		
Flue Types	C13(X), C33(X), C43(X), C53(X), C63(X), C83(X), B23, B33		
Gas Input Pressure (G20)	20		mbar
Gas Input Pressure (LPG G31)	37/50		mbar
Gas Input Pressure (LPG G30)	30		mbar
Capacity-Efficiency			Unit
Min. Heating power - (@60°C min)	5,6		kW
Max. Heating power - (@80/60°C) (P4)	24,5		kW
Min. Heating power - (@30°C min)	6,7		kW
Max. Heating power- (@50/30°C)	26		kW
Min. Heat input (Q _n)	6,2		kW
Max. Heat input (Q _n)	25,2		kW
Efficiency (@80°/60° C Max)	97,50%		%
Efficiency (30°C Return)	107,50%		%
ErP Informations			Unit
Seasonal Space Heating Energy Efficiency Class	A		
Water Heating Energy Efficiency Class/ Load Profile	A/XL		
Rated Heat Output (Prated)	24,5		kW
Seasonal Space Heating Energy Efficiency	92,2		%
Water Heating Energy Efficiency	83,6		%
Sound Power Level	49		db(A)
Efficiency at Rated Heat Output At High Temperature Regime (η _h)	87,9		%
Efficiency at 30% of rated Output At Low Temperature Regime (η _l)	97,2		%
At Full Load elmax	0,04		kW
At Part Load elmin	0,012		kW
In standby Mode	0,005		kW
Standby Heat Loss	0,065		kW
Emissions of Nox Level	53		mg/kWh
Daily Electricity Consumption (Q _{elect})	0,2		kWh
Daily Fuel Consumption (Q _{fuel})	22,8		kWh
Gas Consumption			Unit
Natural Gas (@Min-Max Capacity)	0,65-2,65		m ³ /h
LPG (@Min-Max Capacity)-Propane	0,51-1,98		kg/h
NO _x Class	6		
Central Heating			Unit
Min. Water Pressure	0,4		bar
Max. Water Pressure	3		bar
Operation Range (@Radiator heating)	30-80		°C
Operation Range (@Underfloor heating)	30-45		°C
Max. Limit temperature	> 90		°C
Domestic Hot Water (only valid for HM)			Unit
Min. Domestic flow for operating	2 (±%10)		L/dk
Min. Domestic flow for closing	1,5 (±%10)		L/dk
Max. Domestic hot water flow rate	10 ±%15 (ΔT = 34,7°C)		L/dk
Min. Water Pressure	0,4		bar
Max. Water Pressure	10		bar
Operation Range	30-65		°C
Max. Limit temperature	≥ 71		°C
General			Unit
Electrical Supply	230 VAC-50 Hz		V AC-Hz
Electrical consumption (Max-Std Pump)	145		Watt
Electrical consumption (Max-HE Pump)	85		Watt
Protection Class	IPX4D		
Expansion Vessel	8		lt
Weight (Net)	28,5		kg
Dimensions (HxWxD)	678*410*288		mm
Flue Lengths			Unit
C13 - 60/100 Max.	10		m
C13 - 80/125 Max.	20		m
C33 - 60/100 Max.	10		m
C33 - 80/125 Max.	20		m
C43 - 60/100 Max.	10		m
C53 - 60/100 Max.	10		m
C83 - 80/80 Max.	28		m
C83 - 80/80 Min.	3		m
B23 - 80 Max.	28		m
B33- 60/100 Max.	10		m
Emission Values			Unit
CO ₂ ratio @max-(G20)	9,3 ± 0,2		%
CO ₂ ratio @min-(G20)	8,7 ± 0,2		%
CO ₂ ratio @max-(G31)	10,4 ± 0,2		%
CO ₂ ratio @min-(G31)	9,6 ± 0,2		%
Boiler Circuit (only valid for HST)			Unit
Operation Range	30-65		°C

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

Optional Control Accessories



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



E.C.A. Programmable Room Thermostat

7006902518

Chimney Applications

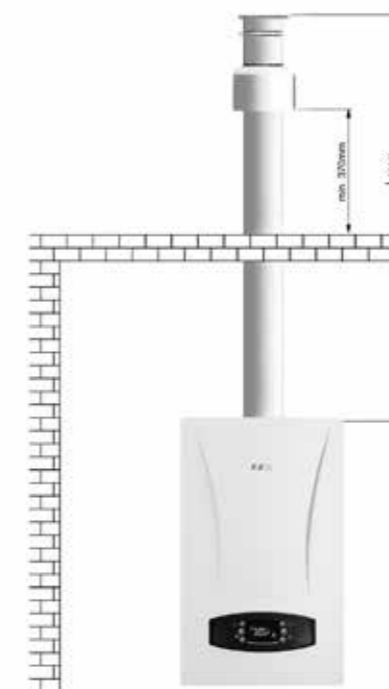
Horizontal & Vertical Applications



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



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