



## FL D LN

**Instant combi double exchanger wall-hung boilers  
open flue natural draught - LOW NOx**

- Primary heat exchanger entirely compact shape
- Instantaneous production of domestic hot water with a dedicated DHW plate exchanger
- Bypass as per standard
- Boiler with a open chamber and natural draught, with low NOx emissions atmospheric burner, AISI 304 stainless steel
- High efficiency and low consumption circulator (ErP - Class A) with anti-seize function by being switched on for a few seconds every 24 hours of inactivity
- Can be combined with the modulating remote control
- Outer casing painted white by anaphoresis epoxy powders
- Simple and complete control panel, user interface with display and setting keys
- Compact size and reduced weight
- Modulating heat input during both heating and production of DHW, managed by a microprocessor circuit board
- ECO/COMFORT system for fast production of DHW
- Adjustable post-circulation after the heating phase
- Solar system set up: set up for the production of domestic hot water combined with solar panel systems

### Regulation and control panel

1. Key to increase/decrease parameters and domestic hot water temp. setting
2. Key to increase/decrease the central heating temp. setting.
3. Display.
4. Reset.
5. Summer/Winter mode selection, "Sliding Temp." Menu key.
6. Economy/Comfort mode selection, Device on/off key.
7. Hydrometer.



Boiler code	Boiler model
0DCC4ZWD	<b>FL D LN C 24</b>
0DCC6ZWD	<b>FL D LN C 30</b>
014037X0	<b>Conversion kit to LPG mod. C 24</b>
014038X0	<b>Conversion kit to LPG mod. C 30</b>

### Accessories on demand

Code	Description
012040W0	kit for connection of fittings complete with gas valve with cone, DHW tap, 2 system taps, pipes, nipple, gaskets
012049W0	kit for connection of 5 pipe fittings NB: the kit does not include taps and connection nipples
013002X0	Thermostatic mixer kit 1/2" connections
013018X0	Outdoor probe kit

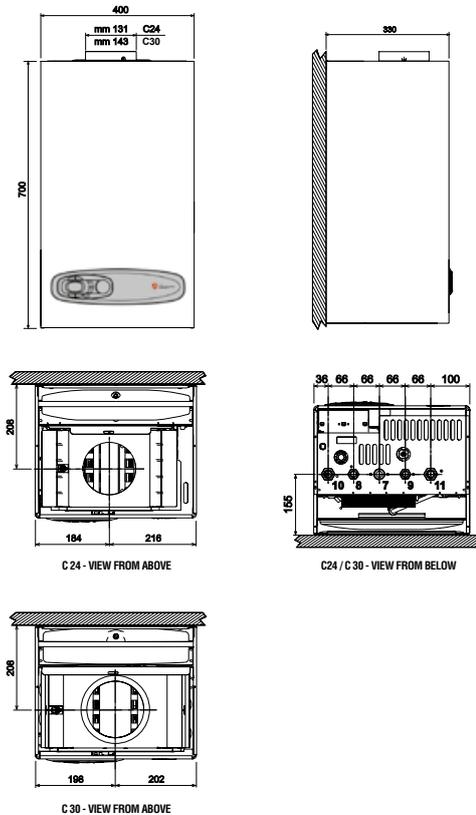
### REPLACEMENT OF BOILERS INSTALLED IN COLLECTIVE CHIMNEYS

In the EU the **new** (redesigned) **FL D LN 24/30 "ErP Compliant"** can **ONLY** be installed as replacement for open flues boilers evacuating through collective chimneys, **provided that such installation is also permitted by local laws.** In that sense the **new** FL D LN 24/30 is deemed to be compliant with ErP, which explicitly allows only for that exception.

## Technical data

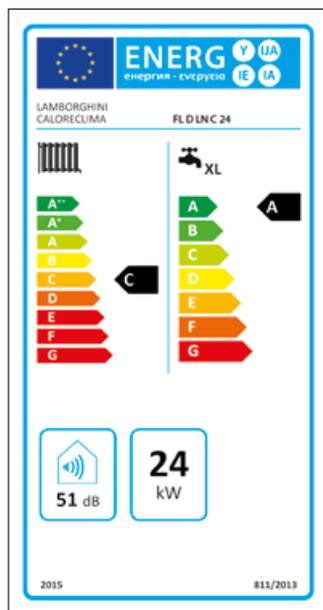
FL D LN			C 24	C 30
ERP Class		(Class G - A <sup>+</sup> )		
		(Class G - A)		
Heating rated heat output (P <sub>n</sub> )	Min / Max	kW	7.0 / 23.5	9.7 / 30.0
Heat input	Min / Max	kW	8.3 / 25.8	11.5 / 33.3
Effective DHW heat output		kW	23.5	30.0
Efficiency (P <sub>n</sub> )		%	91.0	91.0
Maximum DHW production	Δt 30°C	l/min	11.2	14.3
	Δt 25°C	l/min	13.4	17.2
Empty weight		kg	27	30
No. of pieces/pallets		no.	10	10

## Dimensions (in mm)

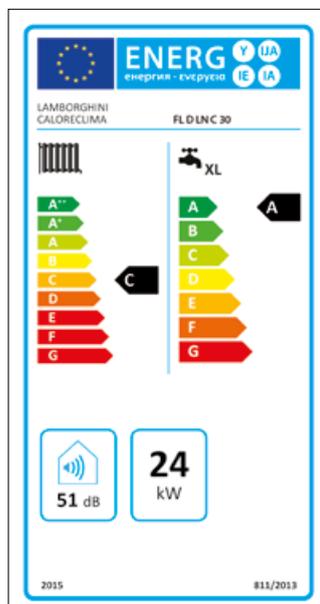


## Energy Label

### FL D LN C 24



### FL D LN C 30



7	Gas inlet	Ø 3/4"
8	Hot water outlet	Ø 1/2"
9	Cold water inlet	Ø 1/2"
10	Heating system flow	Ø 3/4"
11	Heating system return	Ø 3/4"

## Specification notes

Thermal generator compliant with directives ErP (2009/125/EC) for ecodesign and Labelling (2010/30/EC) (Heating energy efficiency Class C, DHW energy efficiency profile XL Class A). For even outdoor installations in place partially protected as low as -5°C, wall hung, for instantaneous domestic hot water production for domestic hot water use (priority) and for heating, open combustion chamber and natural draught flue gas ejection, suitable for operation with gaseous fuel. NOx emissions class: 6. Outer casing painted white by anaphoresis epoxy powders. Combustion chamber in aluminised sheet metal with anti-corrosion treatment, internal insulation with ecological fibre. Heat exchanger for domestic hot water production in copper plates. High-efficiency circulator, 8 l expansion vessel (mod. C 24) and 10 l (mod. C 30), in stainless steel AISI 304. Ionisation flame control. Modulating heat input from 7.0 kW to 23.5 kW both in DHW production and in heating. Adjustable heating maximum heat output. DHW effective output 23.5 kW with production at ΔT 25°C of 13.4 l/min. Hydraulic unit including bypass to prevent water hammers on circulator in case of simultaneous closing of the zones. Set up for the production of domestic hot water combined with solar panel systems. Hydraulic connections on demand. ECONOMY/COMFORT system to maintain the temperature of the heat exchanger and quick production of domestic hot water. Electronic antifrost protection with burner ignition when the water in the boiler reaches 5°C. Equipped with control panel backlit graphical display, also fitted with boiler parameter setting and indication of failures through alphanumeric code. LCD with self-diagnosis functions and real-time detection of operating temperatures. Circulator anti-seize safety system with power supply pulse every 24 hours of inactivity. High efficiency circulator. Adjustable post-circulation after the heating phase. Heating operating pressure: 3 bar (max) - 0.8 bar (min). Safety valve on return of heating circuit, calibrated at 3 bar. Double sensitive element delivery sensor with regulation and safety function. Temperature sensor and flow switch (calibrated at 0.8 bar) to manage domestic hot water production. Domestic hot water operating pressure: P<sub>min</sub>= 0.25 bar P<sub>max</sub>= 9 bar. Adjustable hydraulic bypass. Electrical protection rating IPX5D. Possibility of connecting a remote control to acquire room temperature and automatic compensation curve correction. Sliding temperature operating mode through outdoor temperature probe (optional).