

## Luna Duo-tec



- Digital control panel with back-lighted LCD display
- Wide modulation ratio up to 1÷7: better efficiency thanks to reduced switch-on/switch-off of the boiler
- Gas Adaptive Control (GAC) system: combustion automatic control to maintain constantly the highest level of efficiency
- Modulating circulating pump
- Complete soundproofing of the generator
- Frontal access for advanced diagnostics
- Integration with solar system option



Diagnostics on the control panel there is easy access for the diagnostics. With a USB connection it is possible to check single boilers or multiple boilers functions.



Modulation ratio the modulation system is able to adapt the heat output to the energy demanded by the building.

### Hydraulic system

- 3 way electric diverter valve (also heating only models)
- Stainless steel premixing burner
- Stainless steel water/flue heat exchanger
- Stainless steel enhanced DHW exchanger to ensure condensation also in DHW mode
- Modulating fan with electronic speed adjusting system
- Automatic by-pass
- Modulating low energy pump of the heating circuit with built-in air vent
- System to prevent pump and diverter valve sticking operating every 24 hours
- Central relief valve set at 3 bar

### Thermoregulation system

- Built-in climatic regulation (outdoor sensor available as optional)
- Control of multi-zones system option

### Control system

- Overheat limit thermostat of the water/flue exchanger
- Hydraulic pressure switch to prevent boiler operating in event of low water
- Safety NTC sensor against flues overheat
- Electronic temperatures control by NTC sensors
- Full anti-frost device
- Electronic thermometer
- Digital heating circuit pressure gauge

Product code	Combi				Heating only <sup>▲</sup>			
	24 GA	28 GA	33 GA	40 GA	1.12 GA	1.24 GA	1.28 GA	
7101931	7101932	7101933	7102871	7102852	7102853	7105684		
Maximum DHW heat input	kW	24,7	28,9	34	41,2	-	-	-
Maximum heating heat input	kW	20,6	24,7	28,9	33	12,4	24,7	28,9
Maximum DHW heat output	kW	24	28	33	40	-	-	-
Maximum heating heat output 80/60°C	kW	20	24	28	32	12	24	28
Maximum heating heat output 50/30°C	kW	21,8	26,1	30,6	34,9	13,1	26,1	30,5
Minimum heating heat output 80/60°C	kW	3,4	3,8	4,7	5,7	2	3,4	4
Minimum heating heat output 50/30°C	kW	3,7	4,1	5,1	6,3	2,2	3,7	4,3
Energetic efficiency (92/42/CEE)		★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
Average efficiency (DIN 4702-T8)	%	109,8	109,8	109,8	109,8	109,8	109,8	109,8
Nominal efficiency 80/60°C	%	97,7	97,7	97,7	97,7	97,8	97,6	97,6
Nominal efficiency 50/30°C	%	105,8	105,8	105,8	105,8	105,8	105,7	105,7
Efficiency 30%	%	107,6	107,6	107,7	107,7	107,8	107,6	107,6
NOx class (EN 483)		5	5	5	5	5	5	5
Minimum working temperature	°C	-5	-5	-5	-5	-5	-5	-5
Expansion vessel capacity/pre-charge	l/bar	8/0,8	8/0,8	10/0,8	10/0,8	8/0,8	8/0,8	8/0,8
Heating temperature range.	°C	25/80	25/80	25/80	25/80	25/80	25/80	25/80
DHW temperature range	°C	35/60	35/60	35/60	35/60	35/60	35/60	35/60
DHW production ΔT 25°C <sup>(1)</sup>	l/min	138	161	189	229	-	-	-
Minimum capacity DHW flow rate	l/min	2	2	2	2	-	-	-
Minimum pressure DHW circuit	bar	0,15	0,15	0,15	0,15	-	-	-
Maximum pressure heating circuit	bar	3	3	3	3	3	3	3
Maximum pressure DHW circuit	bar	8	8	8	8	-	-	-
Coaxial flue system Ø 60/100 max length	m	10	10	10	10	10	10	10
Dual flue system Ø 80 max length	m	80	80	80	80	80	80	80
Maximum flue mass flow rate	kg/s	0,012	0,014	0,016	0,019	0,006	0,012	0,014
Minimum flue mass flow rate	kg/s	0,002	0,002	0,002	0,003	0,001	0,002	0,002
Maximum flue temperature	°C	80	80	80	80	75	80	80
Dimensions (h x w x d)	mm	760 x 450 x 345						
Net weight	kg	38,5	38,5	39,5	41	34,5	34,5	36
Gas type		Natural Gas/LPG						
Power consumption	W	102	114	133	142	108	102	114
Grade of protection		IPX5D	IPX5D	IPX5D	IPX5D	IPX5D	IPX5D	IPX5D

<sup>(1)</sup> without flow restrictor.

<sup>▲</sup> Heating only models are connectable to Combi 80 L+ and UB-UB INOX 80/120 lt cylinder. See page 36-37 for sanitary performance.