

## Luna Duo-tec



- Digital control panel with back-lighted LCD display
- Wide modulation ratio up to 7:1 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 AISI 316L premixing burner
- Stainless steel AISI 316L 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

		Combi				Heating only <sup>s</sup>		
		24	28	33	40	1.12	1.24	1.28
Product code		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
<b>Energetic efficiency (92/42/CEE)</b>								
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 T 25°C <sup>1)</sup>	l/min	13,8	16,1	18,9	22,9	-	-	-
<b>Minimum capacity DHW flow rate</b>								
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
<b>Dimensions (h x w x d)</b>								
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
<b>Gas type</b>								
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

(1) without flow restrictor.

<sup>s</sup> Heating only models are connectable to UB-UB INOX 80/120 lt cylinder. See page 31 for sanitary performance.