

# 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 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

Product code	Combi				Heating only		
	24	28	33	40	1.12	1.24	1.28
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
Maximum DHW heat output	kW	24	28	33	40	-	-
Maximum heating heat output 80/60°C	kW	20	24	28	32	12	24
Maximum heating heat output 50/30°C	kW	21,8	26,1	30,6	34,9	13,1	26,1
Minimum heating heat output 80/60°C	kW	3,4	3,8	4,7	5,7	2	3,4
Minimum heating heat output 50/30°C	kW	3,7	4,1	5,1	6,3	2,2	3,7
Energetic efficiency (92/42/EE)		HHHH	HHHH	HHHH	HHHH	HHHH	HHHH
Average efficiency (DIN 4702-T8)	%	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
Nominal efficiency 50/30°C	%	105,8	105,8	105,8	105,8	105,8	105,7
Efficiency 30%	%	107,6	107,6	107,7	107,7	107,8	107,6
NOx class (EN 483)		5	5	5	5	5	5
Minimum working temperature	°C	-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
Heating temperature range.	°C	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
DHW production T 25°C <sup>(1)</sup>	l/min	13,8	16,1	18,9	22,9	-	-
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
Maximum pressure DHW circuit	bar	8	8	8	8	-	-
Coaxial flue system Ø 60/100 max length	m	10	10	10	10	10	10
Dual flue system Ø 80 max length	m	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
Minimum flue mass flow rate	kg/s	0,002	0,002	0,002	0,003	0,001	0,002
Maximum flue temperature	°C	80	80	80	80	75	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
Gas type		Natural Gas/LPG					
Power consumption	W	102	114	133	142	108	102
Grade of protection		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.



Technical pages 40-55 64-68 70-72 73-74 76-77

## Luna Platinum



- Removable control panel for wall-hung installation with wide text display, regulation knob, menu selection buttons and back-lighting; supplied with the boiler
- Wide modulation ratio up to 1:10: 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
- Integrated control of a solar system\*
- Complete soundproofing of the generator
- Full modulating circulating pump
- Frontal access for advanced diagnostics



Control panel  
innovative removable control panel distinguished by a clear back-lighting and easiness of use, thanks to the navigation knob and two push-buttons dedicated to the set of the comfort and complete programming of the boiler.



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  
Full 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  
Heating circuit relief valve set at 3 bar

### Thermoregulation system

Built-in climatic regulation (outdoor sensor available as optional)  
Control of multi-zones system option  
Cascade installation option  
Room sensor, heating circuit and sanitary timers included in the control panel

### 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	33	1.12	1.18	1.24	1.32
7102695	7102703	7102665	7108435	7106583	7108436	
Maximum DHW heat input kW	24,7	34	-	-	-	-
Maximum heating heat input kW	20,6	28,9	12,4	17,4	24,7	33
Maximum DHW heat output kW	24	33	-	-	-	-
Maximum heating heat output 80/60°C kW	20	28	12	16,9	24	32
Maximum heating heat output 50/30°C kW	21,8	30,6	13,1	18,4	26,1	34,9
Minimum heating heat output 80/60°C kW	2,4	3,3	2	2,4	2,4	3,2
Minimum heating heat output 50/30°C kW	2,7	3,6	2,2	2,7	2,7	3,5
Energetic efficiency (92/42/CEE)	HHHH	HHHH	HHHH	HHHH	HHHH	HHHH
Average efficiency (DIN 4702-T8)	%	109,8	109,8	109,8	109,8	109,8
Nominal efficiency 80/60°C	%	97,7	97,7	97,8	97,7	97,6
Nominal efficiency 50/30°C	%	105,8	105,8	105,8	105,8	105,7
Efficiency 30%	%	107,6	107,7	107,8	107,7	107,6
NOx class (EN 483)	5	5	5	5	5	5
Minimum working temperature °C	-5	-5	-5	-5	-5	-5
Expansion vessel capacity/pre-charge l/bar	8/0,8	10/0,8	8/0,8	8/0,8	8/0,8	10/0,8
Heating temperature range. °C	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
DHW production T 25°C l/min	13,8	18,9	-	-	-	-
Minimum capacity DHW flow rate l/min	2	2	-	-	-	-
Minimum pressure DHW circuit bar	0,15	0,15	-	-	-	-
Maximum pressure heating circuit bar	3	3	3	3	3	3
Maximum pressure DHW circuit bar	8	8	-	-	-	-
Coaxial flue system Ø 60/100 max length m	10	10	10	10	10	10
Dual flue system Ø 80 max length m	80	80	80	80	80	80
Maximum flue mass flow rate kg/s	0,012	0,016	0,006	0,008	0,012	0,016
Minimum flue mass flow rate kg/s	0,001	0,002	0,001	0,001	0,001	0,002
Maximum flue temperature °C	80	80	75	75	80	80
Dimensions (h x w x d) mm				760 x 450 x 345		
Net weight kg	36	38	34,5	34,5	34,5	37,5
Gas type				Natural Gas		
Power consumption W	120	145	108	122	120	130
Grade of protection IPX5D	IPX5D	IPX5D	IPX5D	IPX5D	IPX5D	IPX5D

(1) without flow restrictor.

\* Heating only models are connectable to UB-UB INOX 80/120 lt cylinder. See page 31 for sanitary performance.