



Luna Duo-tec E

- New modern and elegant design
- Wide modulation ratio up to 1:7 (1:6 mod. 1.12 GA) better efficiency and noiseless operation
- Gas Adaptive Control (GAC) system: combustion automatic control to maintain constantly the highest level of efficiency
- High efficiency full modulating circulating pump
- Digital control panel with back-lighted LCD display
- Remote control Baxi Mago available as optional
- Integration with solar system option
- Complete soundproofing of the generator
- Frontal access for advanced diagnostics
- Ø50 mm flue pipe mod. 24 kW, 40 m max length

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 (Combi models)
- Modulating fan with electronic speed adjusting system
- Automatic by-pass
- High efficiency full modulating 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

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

		Heating only				Combi		
		1.12	1.24	1.28	24	28	33	40
Maximum heat input (DHW)	kW	-	-	-	24,7	28,9	34	41,2
Maximum heat input (heating)	kW	12,4	24,7	28,9	20,6	24,7	28,9	33,0
Minimum heat input	kW	2,1	3,5	4,1	3,5	3,9	4,8	5,9
Rated heat output for DHW circuit	kW	-	-	-	24	28	33	40
Rated heat output <i>Prated</i>	kW	12	24	28	20	24	28	32
Useful heat output at rated heat output and high temperature regime* <i>P_u</i>	kW	12	24	28	20	24	28	32
Useful heat output at 30% of rated heat output and low temperature regime** <i>P_l</i>	kW	4	8	9,4	6,7	8	9,4	10,7
Load profile		-	-	-	XL	XL	XXL	XXL
Seasonal space heating energy efficiency class		A	A	A	A	A	A	A
Water heating energy efficiency class		-	-	-	A	A	A	A
Seasonal space heating energy efficiency <i>η_s</i>	%	93	93	93	93	93	93	93
Useful efficiency at rated heat output and high temperature regime* <i>η₄</i>	%	88,1	87,9	87,9	88	87,9	88,1	87,9
Useful efficiency at 30% of rated heat output and low temperature regime** <i>η_l</i>	%	98,2	98	98	98	98	98,1	98
Efficiency <i>P_n</i> (lower calorific value) - average temperature 70 °C	%	97,8	97,6	97,6	97,7	97,6	97,8	97,6
Efficiency 30% (lower calorific value) - return temperature 30 °C	%	109	108,8	108,8	108,8	108,8	108,9	108,8
NOx emissions	mg/kWh	21	16	16	15	17	15	24
Minimum working temperature	°C	-5	-5	-5	-5	-5	-5	-5
Expansion vessel capacity	l	8	8	10	8	8	10	10
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
Specific flow (EN 13203-1)	l/min	-	-	-	11,5	13,4	15,8	19,1
DHW production ΔT 25°C ⁽¹⁾	l/min	-	-	-	13,8	16,1	18,9	22,9
Minimum capacity DHW flow rate	l/min	-	-	-	2	2	2	2
Minimum pressure heating circuit	bar	-	-	-	0,5	0,5	0,5	0,5
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	0,006	0,012	0,014	0,012	0,014	0,016	0,019
Minimum flue mass flow rate	kg/s	0,001	0,002	0,002	0,002	0,002	0,002	0,003
Maximum flue temperature	°C	75	80	80	80	80	80	80
Dimensions (h x w x d)	mm	763 x 450 x 345						
Net weight	kg	34,5	34,5	36	38,5	38,5	39,5	41
Gas type		Natural Gas/LPG						
Rated power supply	W	72	85	99	85	99	106	120
Auxiliary electrical power consumption - Full load <i>elmax</i>	kW	0,030	0,042	0,047	0,030	0,042	0,041	0,035
Auxiliary electrical power - Partial load <i>elmin</i>	kW	0,013	0,013	0,013	0,013	0,013	0,013	0,013
Auxiliary electrical power - Stand-by <i>P_{sb}</i>	kW	0,003	0,003	0,003	0,003	0,003	0,003	0,003
Sound power level, indoor <i>L_{WA}</i>	dB	52	52	53	49	50	53	51
Grade of protection		IPX5D	IPX5D	IPX5D	IPX5D	IPX5D	IPX5D	IPX5D

* High temperature regime: 60°C return temperature at heater inlet and 80°C flow temperature at heater outlet

** Low temperature: 30°C return temperature (at heater inlet)

(1) without flow restrictor