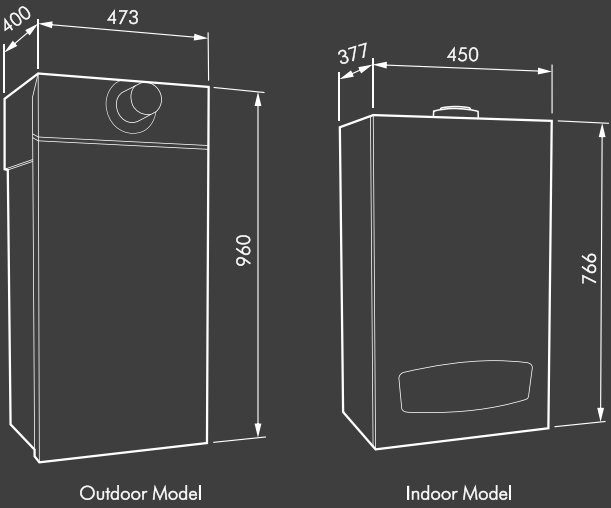
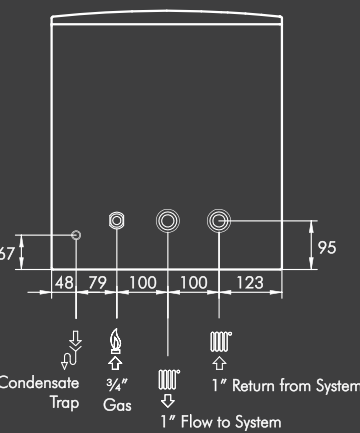
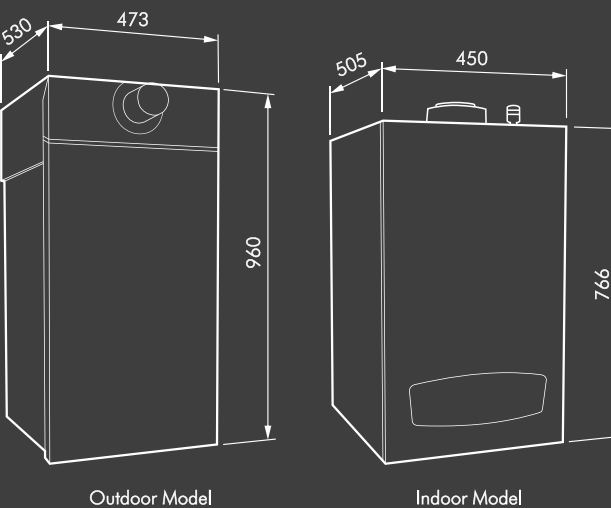


TECHNICAL DRAWINGS

LUNA DUO-TEC MP 1.50 - 1.60



LUNA DUO-TEC MP 1.70

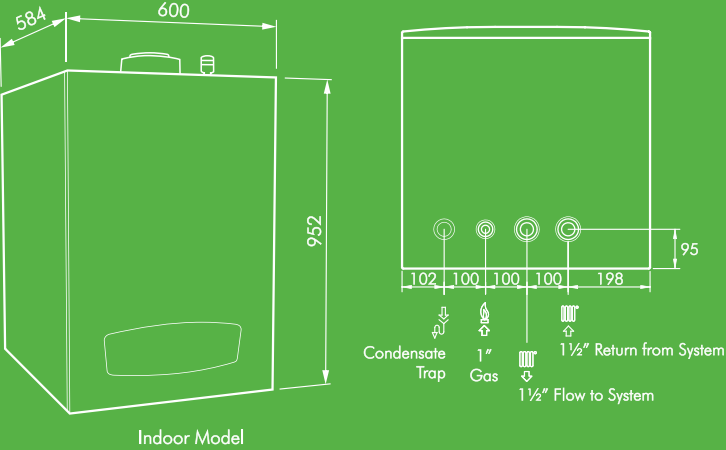


Both Duo-Tec GA and MP models are covered by the following approvals:

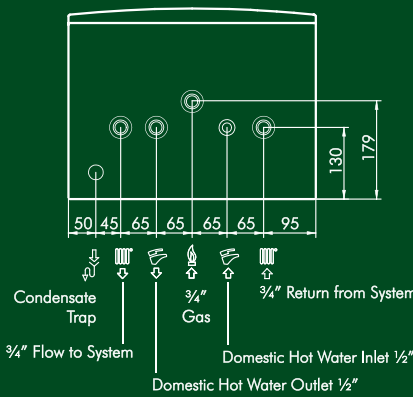
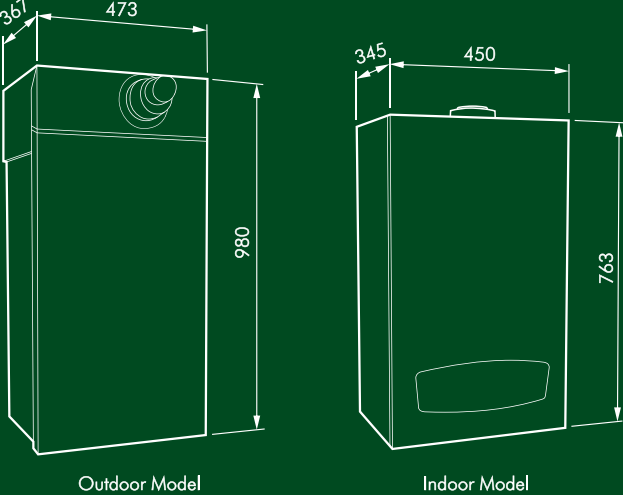


LUNA DUO-TEC GA
LUNA DUO-TEC MP

LUNA DUO-TEC MP 1.90-1.110



LUNA DUO-TEC GA - All Models



Due to our constant endeavour for improvement, we reserve the right to change product specifications without notice.

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GAS ADAPTIVE CONTROL

LUNA DUO-TEC GA (12-40kW)



- Digital control panel with push buttons and wide backlit LCD display.
- 1:7 turndown ratio enhances efficiency, reducing short cycling of the boiler.
- Automatic gas-adaptive and self-calibrating functions enhance combustion efficiency and lower gas bills.
- Two-speed modulating pump with built-in air vent generates up to 40% reduction in electrical use annually.
- Integration with solar preheated domestic hot water.
- Frost protection, as well as pump and diverter valve seize prevention.
- Complete soundproofing for quiet operation.
- Frontal access for servicing.
- The modulation system is able to adapt the heat output to the energy demanded by the building.



Excellent modulation ratio for improved energy savings.



Domestic hot water production.

HIGH OUTPUT

CONDENSING BOILERS

LUNA DUO-TEC MP (50-110kW)



- Digital control panel with push buttons and wide backlit LCD display.
- 1:9 turndown ratio enhances efficiency, reducing short cycling of the boiler.
- Stainless steel AISI 316L heat exchanger
 - Single chamber (50, 60, 70kW).
 - Double chamber (90, 110kW).
- Compact size and minimal weight.
- Reliability and long life.
- Complete range of accessories for single and cascade installations.
- Frontal access for servicing.
- The modulation system is able to adapt the heat output to the energy demanded by the building.
- Frost protection, as well as pump and diverter valve seize prevention.
- Complete soundproofing for quiet operation.



Excellent modulation ratio for improved energy savings.

HYDRAULIC SYSTEM

- 3 way electric diverter valve (also heating only models).
- Stainless steel AISI 316L premixing burner and heat exchanger (5 year warranty).
- Stainless steel enhanced DHW exchanger to ensure high efficiency in DHW mode.
- Modulating fan with electronic speed adjusting system.
- Automatic by-pass.
- Pressure relief valve set at 3 bar.
- Water tray for condensate drain from supply air duct.

THERMOREGULATION SYSTEM

- Built-in outdoor temperature compensation (outdoor sensor available as an option).
- Control of multi-zones system option.

CONTROL SYSTEM

- Overheat limit thermostat of the water/flue exchanger.
- Hydraulic pressure switch to prevent boiler operating in the event of low water.
- Safety NTC sensor to prevent flue overheating.
- Electronic temperatures controlled by NTC sensors.
- Electronic thermometer.
- Digital heating circuit pressure gauge.

		HEATING ONLY			COMBINATION HEATING & DHW			
		1.12	1.24	1.28	24	28	33	40
Gas used	-	Natural Gas and Propane Gas						
Nominal Gas Consumption - DHW	MJ/h	-	-	-	98	115	135	164
Nominal Gas Consumption - Heating	MJ/h	50	98	115	85	98	115	125
Turndown Gas Consumption	MJ/h	10	14	16	14	16	20	25
Rated heat output for DHW circuit	kW	-	-	-	24,0	28,0	33,0	40,0
Rated heat power 80/60°C	kW	12,0	25,0	28,0	20,0	25,0	28,0	32,0
Rated heat power 50/30 °C	kW	13,1	26,1	30,5	21,8	26,1	30,6	34,9
Reduced heat output 80/60 °C	kW	2,0	3,4	4,0	3,4	3,8	4,7	5,7
Reduced heat output 50/30 °C	kW	2,2	3,7	4,3	3,7	4,1	5,1	6,3
Rated efficiency 80/60 °C	%	97,8	97,6	97,6	97,7	97,7	97,7	97,6
Rated efficiency 50/30 °C	%	105,8	105,7	105,7	105,8	105,8	105,8	105,8
Efficiency 30% Ph (Seasonal Efficiency)	%	107,8	107,6	107,6	107,6	107,6	107,7	107,6
Max. pressure of water in heating circuit	bar/kPa	3/300						
Min. pressure of water in heating circuit	bar/kPa	0,5/50						
Capacity of water in expansion vessel	l	8	8	8	8	8	10	10
Minimum pressure of expansion vessel	bar	0,8						
Max. pressure of water in DHW circuit	bar	-	-	-	8,0	8,0	8,0	8,0
Min. dynamic pressure in DHW circuit	bar	-	-	-	0,15	0,15	0,15	0,15
Minimum flow of water in DHW circuit	l/min	-	-	-	2,0	2,0	2,0	2,0
Production of DHW with T = 25 °C	l/min	-	-	-	13,6	15,9	18,3	22,9
Production of DHW with T = 35 °C	l/min	-	-	-	9,8	11,5	13,5	16,4
Specific flow "D" (EN 625)	l/min	-	-	-	10,9	12,9	15,3	18,3
Temperature range in heating circuit	°C	25÷80						
Temperature range in DHW circuit	°C	35÷60						
Fumes typology	-	C13 - C33 - C43 - C53 - C63 - C83 - B23						
Coaxial flue duct diameter	mm	60/100						
Diameter of separate outlets	mm	80/80						
Coaxial flue system Ø 60/100 max. length	m	10	10	10	10	10	10	10
Dual fuel system Ø 80 max. length	m	80	80	80	80	80	80	80
Max. temperature of fumes	°C	75	80	80	80	80	80	80
Nox Class 5 (EN 297 - EN 483)	mg/kWh	23,5	17,3	18,1	16,1	19,3	30,7	26,5
Natural gas supply pressure 2H	kPa	1.13						
Propane gas supply pressure 3P	kPa	2.75						
Power supply voltage	V	230						
Power supply frequency	Hz	50						
Rated power supply	W	108	102	114	102	114	133	142
Net weight - Indoor/Outdoor	kg	34,5/40,5		36,0/42,0	38,5/44,5		39,5/45,5	41,0/47,0
Dimensions	- height	Indoor 763 / Outdoor 980						
	- width	Indoor 450 / Outdoor 473						
	- depth	Indoor 345 / Outdoor 367						
Protection-limit against humidity (EN 60529)	-	IPX5D						
Noise level at 1 metre	dB(A)	< 45						

HYDRAULIC SYSTEM

- Stainless steel AISI 316L premixing burner and heat exchanger (5 year warranty).
- Modulating fan with electronic speed adjusting system.
- Modulating pump included in the boiler.
- System to prevent pump sticking operating every 24 hours.
- Flow and return NTC sensors.
- Pressure relief valve set at 4 bar.
- Water tray for condensate drain from supply air duct.

THERMOREGULATION SYSTEM

- Built-in outdoor temperature compensation (outdoor sensor available as an option).
- Mixed zones systems (high and low temperatures) installation option.
- Cascade system installation option (up to 16 boilers).
- NTC sensor for DHW cylinder control option.
- Heating and DHW timers integrated in the control panel.

CONTROL SYSTEM

- Overheat limit thermostat of the water/flue exchanger.
- Hydraulic pressure switch to prevent boiler operating in the event of low water.
- Electronic thermometer.
- Central heating pressure gauge.
- Flow over-temperature thermostat.

		HEATING ONLY				
		1.50	1.60	1.70	1.90	1.110
Gas used	-	Natural Gas and Propane Gas				
Nominal Gas Consumption	MJ/h	185	225	265	349	415
Turndown Gas Consumption	MJ/h	20	25	29	40	50
Rated heat power 80/60°C	kW	45	55	65	85,0	102,0
Rated heat power 50/30 °C	kW	48,6	59,4	70,2	91,8	110,2
Reduced heat output 80/60 °C Natural/ Propane	kW	5,0	6,1	7,2	9,4/ 12.2	11,4
Reduced heat output 50/30 °C	kW	5,4	6,6	7,8	10,2/ 13.1	12,3
Rated efficiency 80/60 °C	%	97,4	97,2	97,2	97,3	97,2
Rated efficiency 50/30 °C	%	105,0	105,0	105,0	105,5	105,1
Efficiency 30% Pn 92/42/EEC	%	107,8	107,4	107,1	107,5	107,4
Max. water pressure in heating circuit	bar/ kPa	4/ 400				
Min. water pressure in heating circuit	bar/ kPa	0,5/ 50				
Temperature range in heating circuit	°C	25÷80				
Fumes typology	-	C13 - C33 - C43 - C53 - C63 - C83 - B23				
Coaxial flue duct diameter	mm	80/125			110/160	
Diameter of separate outlets	mm	80/80			110/110	
Max. temperature of flue	°C	92	96	76	70	
NOx Class 5 (EN 297 - EN 483)	mg/kWh	29,8	34,1	34,8	39,5	24,7
Natural gas supply pressure 2H	kPa	1.13				
Propane gas supply pressure 3P	kPa	2.75				
Power supply voltage	V	230				
Power supply frequency	Hz	50				
Rated power supply	W	190	210	210	275	320
Net weight - indoor/ outdoor	kg	40/ 47		50/57	83	93
Dimensions	- height indoor/outdoor	mm 766/960			952	
	- width indoor/outdoor	mm 450/473			600	
	- depth indoor/outdoor	mm 377/400		505/530	584	
Protection-limit against humidity (EN 60529)	-	IPX5D				
Capacity of boiler circuit (volume of water)	l	4	5	6	9	10
Noise level at 1 metre	dB(A)	< 50				