

Technical pages













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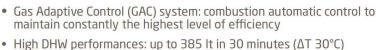
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• Wide modulation ratio up to 1:7 better efficiency and noiseless operation



- Stainless steel 40 lt cylinder
- Digital control panel with back-lighted LCD display
- · High efficiency full modulating circulating pump
- Frontal access for advanced diagnostics
- Ø50 mm flue pipe mod. 24 kW, 40 m max lenght



Hydraulic system 3 way electric diverter valve Stainless steel premixing burner Stainless steel heat exchanger Stainless steel tank 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 Central relief valve set at 3 bar Tank relief valve set at 8 bar Sanitary 2 litres expansion vessel available as optional Sanitary recirculation option

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 Overheat limit thermostat against flues overheat Electronic temperatures control by NTC sensors Anti legionella function Full anti-frost device Electronic thermometer Digital heating circuit pressure gauge

		16 GA	24 GA
Product code		7219553	7219554
Maximum heat input (DHW)	kW	16,5	24,7
Maximum heat input (heating)	kW	12,4	20,6
Minimum heat input	kW	2,3	3,5
Rated heat output for DHW circuit	kW	16	24
Rated heat output Prated	kW	12	20
Useful heat output at rated heat output and high temperature regime* P_4	kW	12	20
Useful heat output at 30% of rated heat output and low temperature regime** P_1	kW	4	6,7
Load profile		XL	XL
Seasonal space heating energy efficiency class		A	A
Water heating energy efficiency class		A	A
Seasonal space heating energy efficiency ns	%	92	93
Useful efficiency at rated heat output			
and high temperature regime* ŋ4	%	88,1	88
Useful efficiency at 30% of rated heat output and low temperature regime** $\eta 1$	%	98	98
Efficiency Pn (lower calorific value) - average temperature 70 °C	%	97,8	97,7
Efficiency 30% (lower calorific value) - return temperature 30 °C	%	108,8	108,8
NOx emissions	mg/kWh	15	15
Minimum working temperature	°C	-5	-5
Expansion vessel capacity	1	7,5	7,5
Heating temperature range	°C	25-80	25-80
DHW temperature range	°C	35-60	35-60
Tank capacity		40	40
Tank expansion vessel capacity	T	2	2
Specific flow (EN 13203-1)	I/min	11,1	14,9
DHW production ΔT 25°C (1)	I/min	9,2	13,8
DHW production at discharge ΔT 30°C ⁽¹⁾	1/30′	275	385
Minimum pressure heating circuit	bar	3	3
Minimum pressure DHW circuit	bar	8	8
Coaxial flue system Ø 60/100 max length	m	10	10
Dual flue system Ø 80 max length	m	80	80
Maximum flue mass flow rate	kg/s	0,008	0.012
Minimum flue mass flow rate	kg/s	0.001	0,002
Maximum flue temperature	°C	75	80
		0506	00455
Dimensions (h x l x p)	mm		00 x 466
Net weight	kg	62	62
Gas type	3.7	Natural gas/LPG	
Power consumption	W	76	88
Auxiliary electrical power consumption - Full load elmax	kW	0,025	0,030
Auxiliary electrical power - Partial load elmin	kW	0,013	0,013
Auxiliary electrical power - Stand-by P _{SB}	kW	0,003	0,003
Sound power level, indoor L _{WA}	dB	52	49
Grade of protection		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