



Duo-tec Compact E

- New modern and elegant design
- Wide modulation ratio up to 1:7 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
- Remote control Baxi Mago available as optional
- Digital control panel with back-lighted wide LCD display
- Compact dimensions (700x400x299 mm)
- Integration with solar system option
- Ø50 mm flue pipe mod. 24 kW, 40 m max length
- New upper cover available as optional that allows the outdoor installation (in partially protected locations) of the boiler

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 1.24	20	Combi 24	28
Maximum heat input (DHW)	kW	-	19,9	24,7	28,9
Maximum heat input (heating)	kW	24,7	19,9	20,6	24,7
Minimum heat input	kW	3,5	3,5	3,5	3,9
Rated heat output for DHW circuit	kW	-	19,4	24	28
Rated heat output <i>Prated</i>	kW	24	19	20	24
Useful heat output at rated heat output and high temperature regime* P_4	kW	24	19,4	20	24
Useful heat output at 30% of rated heat output and low temperature regime** P_1	kW	8	6,5	6,7	8
Load profile		-	XL	XL	XL
Seasonal space heating energy efficiency class		A	A	A	A
Water heating energy efficiency class		-	A	A	A
Seasonal space heating energy efficiency η_s	%	93	93	93	93
Useful efficiency at rated heat output and high temperature regime* η_4	%	87,9	88	88	87,9
Useful efficiency at 30% of rated heat output and low temperature regime** η_1	%	98	98	98	98
Efficiency P_n (lower calorific value) - average temperature 70 °C	%	97,6	97,7	97,7	97,6
Efficiency 30% (lower calorific value) - return temperature 30 °C	%	108,8	108,8	108,8	108,8
NOx emissions	mg/kWh	16	15	15	17
Minimum working temperature	°C	-5	-5	-5	-5
Expansion vessel capacity	l	7	7	7	7
Heating temperature range	°C	25-80	25-80	25-80	25-80
DHW temperature range	°C	-	35-60	35-60	35-60
Specific flow (EN 13203-1)	l/min	-	9,5	11,5	13,4
DHW production ΔT 25°C ⁽¹⁾	l/min	-	11,4	13,8	16,1
Minimum capacity DHW flow rate	l/min	-	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
Maximum pressure heating circuit	bar	3	3	3	3
Maximum pressure DHW circuit	bar	-	8	8	8
Coaxial flue system Ø 60/100 max length	m	10	10	10	10
Dual flue system Ø 80 max length	m	80	80	80	80
Maximum flue mass flow rate	kg/s	0,012	0,009	0,012	0,014
Minimum flue mass flow rate	kg/s	0,002	0,002	0,002	0,002
Maximum flue temperature	°C	80	80	80	80
Dimensions (h x w x d)	mm	700x400x299			
Net weight	kg	30	34	34	34
Gas type		Natural Gas/LPG			
Rated power supply	W	85	73	85	99
Auxiliary electrical power consumption - Full load <i>elmax</i>	kW	0,042	0,030	0,030	0,042
Auxiliary electrical power - Partial load <i>elmin</i>	kW	0,013	0,013	0,013	0,013
Auxiliary electrical power - Stand-by P_{SB}	kW	0,003	0,003	0,003	0,003
Sound power level, indoor L_{WA}	dB	52	49	49	48
Grade of protection		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