



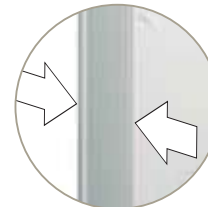
Duo-tec Compact



- Digital control panel with back-lighted wide LCD display
- Wide modulation ratio up to 1÷7: better efficiency thanks to reduced switch-on/switch-off of the boiler
- Ultra compact dimensions (700x400x299 mm)
- Gas Adaptive Control (GAC) system: combustion automatic control to maintain constantly the highest level of efficiency
- Single speed circulating pump
- Complete soundproofing of the generator



Modulation ratio
the modulation system
is able to adapt the heat
output to the energy
demanded by the
building.



Compact
dimensions
Duo-tec Compact is
ideal to be installed in
narrow space thanks to
its compact dimensions

Hydraulic system

- 3 way electric diverter valve
- Stainless steel premixing burner
- Stainless steel 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
- Single speed 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 [▲]	
	20 GA	24 GA	28 GA	1.24 GA	
7108973	7106765	7106766	7108974		
Maximum DHW heat input	kW	19,9	24,7	28,9	-
Maximum heating heat input	kW	19,9	20,6	24,7	24,7
Maximum DHW heat output	kW	19,4	24	28	-
Maximum heating heat output 80/60°C	kW	19,4	20	24	24
Maximum heating heat output 50/30°C	kW	21,1	21,8	26,1	26,1
Minimum heating heat output 80/60°C	kW	3,4	3,4	3,8	3,4
Minimum heating heat output 50/30°C	kW	3,7	3,7	4,1	3,7
Energetic efficiency (92/42/CEE)		★★★★	★★★★	★★★★	★★★★
Average efficiency (DIN 4702-T8)	%	109,8	109,8	109,8	109,8
Nominal efficiency 80/60°C	%	97,7	97,7	97,7	97,6
Nominal efficiency 50/30°C	%	105,8	105,8	105,8	105,7
Efficiency 30%	%	107,6	107,6	107,6	107,6
NOx class (EN 483)		5	5	5	5
Minimum working temperature	°C	-5	-5	-5	-5
Expansion vessel capacity/pre-charge	l/bar	7/0,8	7/0,8	7/0,8	8/0,8
Heating temperature range.	°C	25/80	25/80	25/80	25/80
DHW temperature range	°C	35/60	35/60	35/60	35/60
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 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	0,009	0,011	0,014	0,012
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	700 x 400 x 299	700 x 400 x 299	700 x 400 x 299	700 x 400 x 299
Net weight	kg	34	34	34	30
Gas type		Natural Gas/LPG			
Power consumption	W	95	102	114	102
Grade of protection		IPx5D	IPx5D	IPx5D	IPx5D

⁽¹⁾ without flow restrictor.

[▲] Heating only models are connectable to UB-UB INOX 80/120 lt cylinder. See page 36 for sanitary performance.