

Nuvola Duo-tec

Technical pages 50-82 84-88 90-92 93-95 89,92 96-99



- Digital control panel with back-lighted LCD display
- Wide modulation ratio up to 1÷7: better efficiency thanks to reduced switch-on/switch-off of the boiler
- Gas Adaptive Control (GAC) system: combustion automatic control to maintain constantly the highest level of efficiency
- Modulating circulating pump
- High DHW performances: up to 500 lt in 30 minutes (ΔT 30°C)
- Stainless steel 45 lt cylinder
- Frontal access for advanced diagnostics
- DHW expansion vessel supplied with the boiler Nuvola Duo-tec 33 GA VES



Diagnostics
on the control panel there is easy access for the diagnostics. With a USB connection it is possible to check single boilers or multiple boilers functions.



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

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
- Modulating 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
- 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

	Combi with DHW storage		
	16 GA	24 GA	33 GAVES
Product code	7105982	7105983	7114051
Maximum DHW heat input	kW 16,5	24,7	34,0
Maximum heating heat input	kW 12,4	20,6	28,9
Maximum DHW heat output	kW 16	24	33
Maximum heating heat output 80/60°C	kW 12	20	28
Maximum heating heat output 50/30°C	kW 13,1	21,8	30,6
Minimum heating heat output 80/60°C	kW 2,2	3,4	4,7
Minimum heating heat output 50/30°C	kW 2,4	3,7	5,1
Energetic efficiency (92/42/CEE)	★★★★	★★★★	★★★★
Average efficiency (DIN 4702-T8)	% 109,8	109,8	109,8
Nominal efficiency 80/60°C	% 97,8	97,7	97,7
Nominal efficiency 50/30°C	% 105,8	105,8	105,8
Efficiency 30%	% 107,8	107,6	107,7
NOx class (EN 483)	5	5	5
Minimum working temperature	°C -5	-5	-5
Expansion vessel capacity/pre-charge	l/bar 7,5/0,8	7,5/0,8	7,5/0,8
Heating temperature range	°C 25/80	25/80	25/80
DHW temperature range	°C 35/60	35/60	35/60
Tank capacity	l 45	45	45
Tank expansion vessel capacity/pre-charge	l/bar 2/2,5	2/2,5	2/2,5
Specific flow rate (EN 625)	l/min 13,3	16,6	19,5
DHW production ΔT 25°C ⁽¹⁾	l/min 9,2	13,8	18,9
DHW production at discharge ΔT 30°C ⁽¹⁾	l/30' 275	385	500
Maximum pressure heating circuit	bar 3	3	3
Maximum pressure DHW circuit	bar 8	8	8
Coaxial flue system \varnothing 60/100 max length	m 10	10	10
Dual flue system \varnothing 80 max length	m 80	80	80
Maximum flue mass flow rate	kg/s 0,008	0,012	0,016
Minimum flue mass flow rate	kg/s 0,001	0,002	0,002
Maximum flue temperature	°C 75	80	80
Dimensions (h x w x d)	mm 950 x 600 x 466	950 x 600 x 466	950 x 600 x 466
Net weight	Kg 62	62	67,5
Gas type	Natural gas/LPG	Natural gas/LPG	Natural gas/LPG
Power consumption	W 112	102	133
Grade of protection	IPx5D	IPx5D	IPx5D

⁽¹⁾ without flow restrictor.