



TANTAQUA NF 30

Gas-fired boiler for heating
and domestic hot water production



TANTAQUA NF 30

GAS-FIRED BOILER FOR HEATING AND DOMESTIC HOT WATER PRODUCTION WITH ELECTRONIC IGNITION AND FLAME RECTIFICATION MONITORING

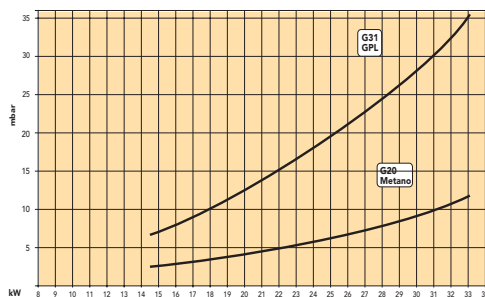
ADVANTAGES OF THE TANTAQUA NF 30:

- Constructive rationality, highlighting the simplicity of installation and maintenance operations.
- Casing painted white by anaphoresis using epoxy powder paint.
- Quick accumulating steel heater with cryolite glass finish, capacity 100 litres, insulated by a layer of polyurethane foam.
- Two pumps, for heating and boiler filling.
- Closed expansion vessel for the central heating circuit, capacity 10 litres.

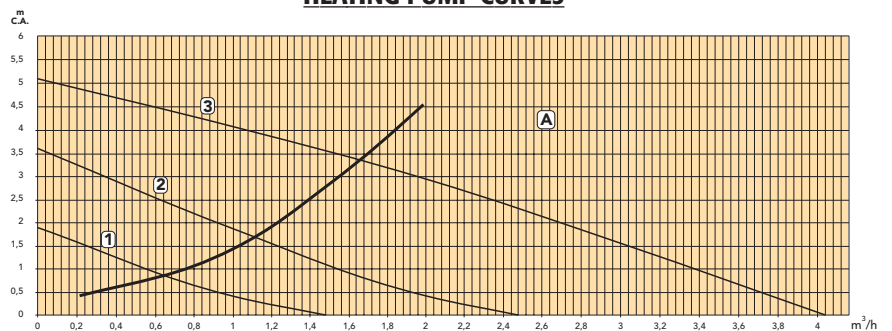


Diagrams

PRESSURE-POWER DIAGRAM



HEATING PUMP CURVES

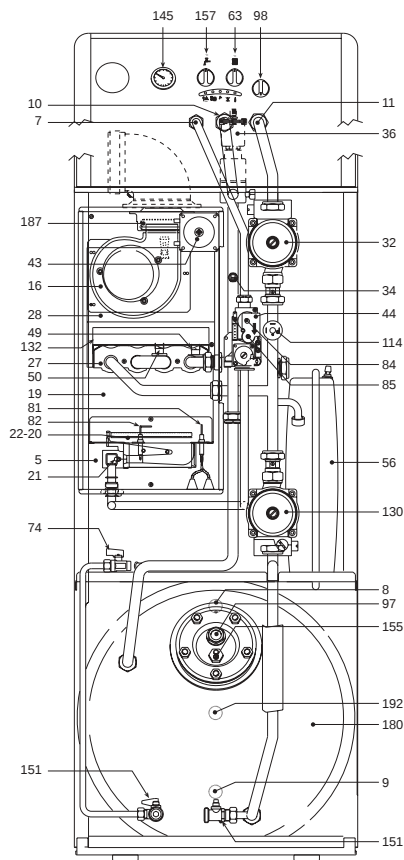


① ② ③ Pump selector positions

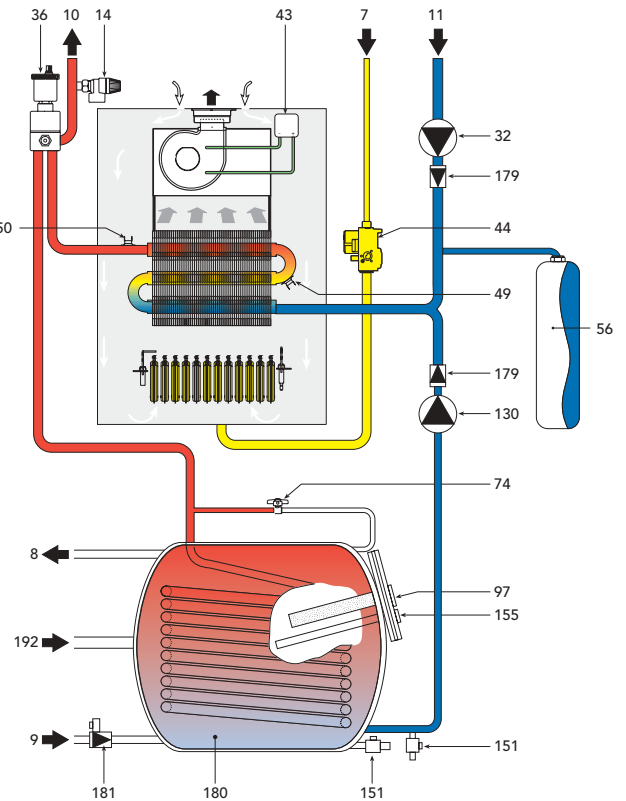
A = Charge losses boiler

TANTAQUA NF 30

MAIN COMPONENTS



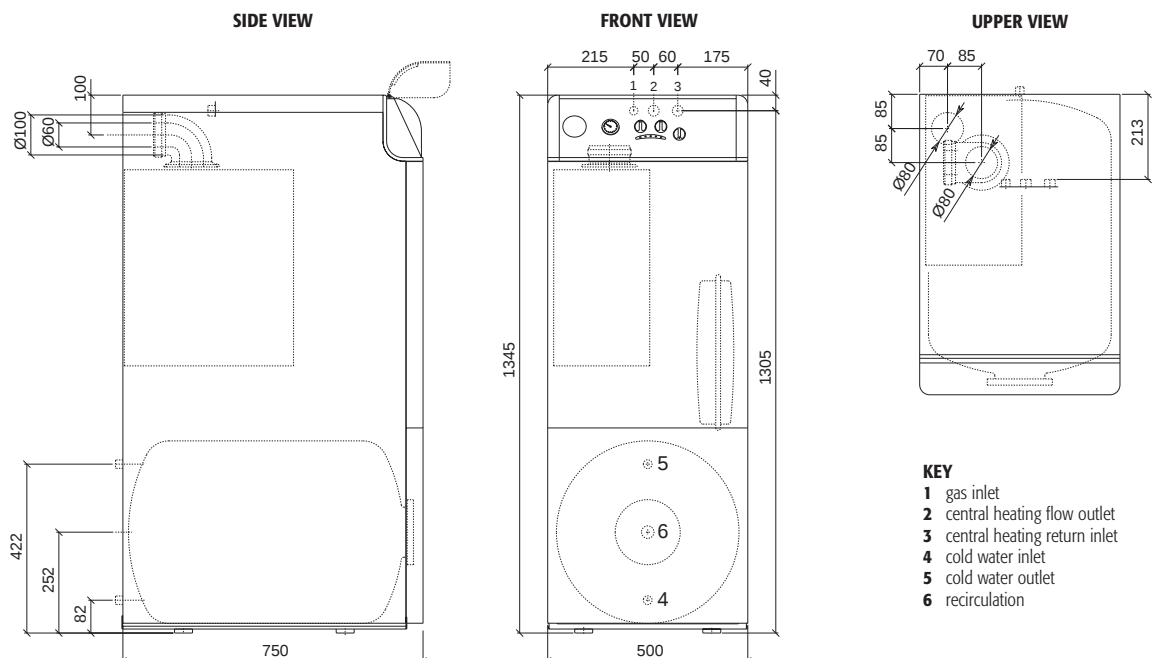
HYDRAULIC SCHEME



KEY

5 room sealed compartment **7** gas inlet **8** domestic hot water outlet **9** cold water inlet **10** central heating flow outlet **11** central heating return inlet **14** central heating safety valve **16** fan **19** combustion-heat exchanging compartment **20** burner assembly **21** main injector **22** main burner **27** copper heat exchanger for C.H. + D.H.W. **28** flue collector from heat exchanger **29** internal flue exit **32** central heating pump **34** C.H. flow temperature sensor **36** automatic air vent **43** air pressure switch **44** combination gas valve **49** overheat cut-off thermostat **50** central heating limit thermostat **56** expansion vessel **63** C.H. boiler thermostat **74** filling cock **81** ignition electrode **82** ionisation electrodes **84** 1st gas valve operator **85** 2nd gas valve operator **97** magnesium anode **98** ON/OFF/RESET switch **114** water pressure switch **130** D.H.W. pump **132** flue gas deflector **145** C.H. pressure gauge **151** filling/drain cock **155** storage tank sensor **157** D.H.W. thermostat **179** no return valve **180** boiler **181** no return and safety valve **187** exhaust diaphragm **192** recirculation

Dimensions



KEY

- 1** gas inlet
- 2** central heating flow outlet
- 3** central heating return inlet
- 4** cold water inlet
- 5** cold water outlet
- 6** recirculation

TECHNICAL SPECIFICATIONS

TANTAQUA NF 30

POWER

			Pmax	Pmin
Heat rate (H.H.V.)		kW	33,1	14,5
		kcal/h	28.500	12.500
Heat rate (N.H.V.)	80°C-60°C	kW	30,0	12,7
		kcal/h	25.800	10.900
D.H.W. heat rate		kW	30,0	12,7
		kcal/h	25.800	10.900

GAS SUPPLY

			Pmax	Pmin
Natural gas supply pressure (G20)		mbar	20,0	20,0
Natural gas burner pressure (G20)		mbar	13,0	2,5
Natural gas delivery (G20)		nm³/h	3,50	1,53
Liquid propane gas main nozzles (G31)		mm	16 x 0,75	16 x 0,75
Liquid propane gas supply pressure (G31)		mbar	37,0	37,0
Liquid propane gas burner pressure (G31)		mbar	35,5	7,0
Liquid propane gas delivery (G31)		nm³/h	2,00	0,89

HEATING

Max operating temperature		°C	90
Max operating pressure		bar	3
Safety valve		bar	3
Min operating pressure		bar	0,8
Expansion vessel capacity		litres	10
Expansion vessel pre-charging pressure		bar	1
Water content		litres	1,5

D.H.W.

Main delivery	Δt 30°C	l/10 min.	220
Max production	Δt 30°C	l/h	930
Max operating pressure		bar	9
Min operating pressure		bar	0,25
Water content		litres	100

DIMENSIONS, WEIGHTS and CONNECTIONS

Height	mm	760
Width	mm	460
Depth	mm	363
Weight with packing	kg	48
Gas connections	inch	1/2"
Heating connections	inch	3/4"
D.H.W. connections	inch	1/2"

ELECTRICAL POWER SUPPLY

Max electrical power consumption	W	125
Power supply voltage/frequency	V/Hz	230/50
Electrical index of protection	IP	44