VICTRIX 26 2 I
VICTRIX X 24 -12 2 I

Wall-mounted condensing

VICTRIX 26 2 I is the wall-mounted, instant sealed chamber boiler with heat output of 23.6 kW in central heating mode and 26 kW in domestic hot water mode which, thanks to condensation technology, is characterised for its particularly high efficiency.
The innovative total premix combustion system and the special environment-friendly burner mean it can run on natural or LPG gas, guaranteeing extremely low pollutant emissions (VICTRIX 26 2 I boiler belongs to the most environment-friendly class envisioned by European Standards - class 5). The boiler is characterised by its elegant Schumann design which together with its compact size, make this boiler the ideal solution for integration in kitchen wall units and small spaces and it also fits in with room furnishings (only 25 cm depth). **The boiler is also type-approved for functioning outdoors in partially protected places** (standard anti-freeze protection -5°C, with optional kit for -15°C).
The new microprocessor-controlled electronics allows optimum control of temperatures both in central heating and domestic hot water production modes and it may also be coupled to the exclusive Comando Amico Remoto remote control and to the external probe (both optional features), which allow to manage, control and program the boiler at a distance with extreme simplicity, thus optimising functioning through climatic heat adjustment.

1 VICTRIX 26 2 I FEATURES

Pre-mixed wall-mounted condensing boiler for central heating and the production of DHW, with sealed chamber and fan-assisted with nominal heat output of 23.6 kW in CH mode (26 kW in DHW mode) with high efficiency and fan-assisted circulation. By varying the type of installation the classification of the boiler also varies.
OUTDOOR INSTALLATION (in partially protected place):
Appliance with direct air intake - if installed using a flue terminal and the (optional) mandatory top cover kit, also eliminating a sealed chamber intake cap.
Appliance type C_{13}/ C_{33}/ C_{83} - if installed using the vertical or horizontal concentric kits (cover kit recommended but not mandatory) or the Ø 80/80 separator kit without using the top cover kit.
INDOOR INSTALLATION:
Appliance type C_{13}/ C_{33}/ C_{43}/ C_{53}/ C_{83} - if installed using the vertical or horizontal concentric kits or the Ø 80/80 separator kit.
Appliance type B_{23} - if installed using a flue kit and the (optional) mandatory top cover kit, also eliminating a sealed chamber intake cap.
The boiler is made up of:

- total pre-mixing combustion system with steel multigas burner, complete with ignition electrodes and ionisation control;
- pneumatic gas valve with double shutter;
- primary gas/water heat exchanger with casing in composite material and stainless steel internal coil;
- combustion chamber in stainless steel internally isolated using ceramic panels;
- fan for flue evacuation with electronically variable speed;
- circuit for disposal of condensate including trap and flexible discharge pipe;
- secondary water/water exchanger for the production of domestic hot water realised in stainless steel with 14 plates;
- hydraulic unit comprising a 3-way electric valve, an adjustable-speed circulating pump with built-in air separator, automatic by-pass, system flow switch, 3 bar safety valve for the primary circuit, a system draining fitting and filling valve;
- domestic hot water flow switch for detection of withdrawal of domestic hot water;
- 8 litre expansion vessel system with diaphragm (real 5.7) with preload at 1.0 bar and manometer;
- water overheating safety thermostat, heat exchanger safety thermofuse and flue safety thermofuse;
- central heating system temperature adjustment selector switch, domestic hot water system temperature adjustment selector switch, operation selector switch (Stand-by, Summer, Winter, Reset), digital display;
- control panel with microprocessor P.C.B. with 2 sensor continuous flame modulation (DHW and CH) with P.I.D. control, modulation field from 23.6 to 3.0 kW (26 kW in DHW mode);
- CH temperature range selection 25 - 50°C or 25 - 85°C (setting as per series);
- electronic ignition with ionisation control;
- ignition retarder in central heating mode, anti-freeze protection system (to -5°C), pump anti-block device function, post-ventilation function, chimney sweep function, pump functioning mode selection; preparation for connection to Immergas Comando Amico Remoto remote control and timer thermostat, room thermostat, external probe and control unit for area systems;
- self-diagnosis system with digital display of the temperature, functioning mode and error codes by means of the back-lit display, always available;
- IPX4D electrical insulation rating;
- possibility of coupling to the system for ducting of existing flues Ø 60 mm and Ø 80 mm;
- connection unit (optional) with depth-adjustable fittings on the hydraulic attachments and gas and domestic cold water cut-off cocks.

Supplied complete with sample points for combustion analysis, lower protection sumps.
Category II appliance$_{2H3}$+, functions with a natural gas and L.P.G.
CE Marking.
It is available in the model:

- **VICTRIX 26 2 I** **code 3.019516**

NOTA BENE: *for correct installation of the boiler the Immergas "Green Range" air intake/flue exhaust kit must be used.*

VICTRIX 26 2 I
VICTRIX X 24 -12 2 I

VICTRIX X 24 2 I is the wall-mounted boiler for central heating only, with power of 23.6 kW and minimum of 3.0 kW which, thanks to condensation technology, is characterised for its particularly high efficiency. The innovative total premix combustion system and the special environment-friendly burner mean it can run on natural or LPG gas, guaranteeing extremely low pollutant emissions (the boiler belongs to the most environment-friendly class envisioned by European Standards - class 5). Thanks to a particular kit (optional) the boiler can be connected to a separate Immergas 80, 105, 120 or 200 litre Storage Tank Unit, which guarantees a large production of domestic hot water. This is especially ideal for homes with more than one bathroom and where great amounts of water are required quickly. **The boiler is also type-approved for functioning outdoors in partially protected places** (standard anti-freeze protection -5°C, with optional kit for -15°C). The new microprocessor-controlled electronics allows coupling to the exclusive Comando Amico Remoto remote control and to the external probe (both optional features), which allow to manage, control and program the boiler at a distance with extreme simplicity, thus optimising functioning through climatic heat adjustment.

2 VICTRIX X 24 2 I FEATURES

Pre-mixed wall-mounted condensing boiler for central heating only with nominal heat output of 23.6 kW in CH mode (26 kW in DHW mode if the Storage tank unit coupling kit is used) with high-efficiency and fan-assisted circulation, prepared for coupling to a separate Immergas 80, 105, 120 or 200 litre Storage Tank Unit for the production of domestic hot water. By varying the type of installation the classification of the boiler also varies.

OUTDOOR INSTALLATION (in partially protected place):

Appliance with direct air intake - if installed using a flue terminal and the (optional) mandatory top cover kit, also eliminating a sealed chamber intake cap.

Appliance type C_{13}/ C_{33}/ C_{83} - if installed using the vertical or horizontal concentric kits (cover kit recommended but not mandatory) or the Ø 80/80 separator kit without using the top cover kit.

INDOOR INSTALLATION:

Appliance type C_{13}/ C_{33}/ C_{43}/ C_{53}/ C_{83} - if installed using the vertical or horizontal concentric kits or the Ø 80/80 separator kit.

Appliance type B_{23} - sif installed using a flue kit and the (optional) mandatory top cover kit, also eliminating a sealed chamber intake cap.

The boiler is made up of:

- total pre-mixing combustion system with steel multigas burner, complete with ignition electrodes and ionisation control;
- pneumatic gas valve with double shutter;
- primary gas/water heat exchanger with casing in composite material and stainless steel internal coil;
- combustion chamber in stainless steel internally isolated using ceramic panels;
- fan for flue evacuation with electronically variable speed;
- circuit for disposal of condensate including trap and flexible discharge pipe;
- hydraulic unit comprising an adjustable-speed pump with built-in air separator, automatic by-pass, system flow switch, 3 bar safety valve for the primary circuit, ball valve for system filling;
- 8 litre expansion vessel system with diaphragm (real 5.7) with preload at 1.0 bar and manometer;
- water overheating safety thermostat, heat exchanger safety thermofuse and flue safety thermofuse;
- central heating system temperature adjustment selector switch, domestic hot water system temperature adjustment selector (if the Storage tank unit coupling kit is used), operation selector switch (Stand-by, Summer, Winter, Reset), digital display;
- control panel with microprocessor P.C.B. with 2 sensor continuous flame modulation with P.I.D. control, modulation field from 23.6 to 3.0 kW (26 kW in DHW mode if Storage tank unit coupling kit is used);
- CH temperature range selection 25 - 50°C or 25 - 85°C (setting as per series);
- electronic ignition with ionisation control;
- ignition retarder in central heating mode, anti-freeze protection system (to -5°C), pump anti-block device function, post-ventilation function, chimney sweep function, pump functioning mode selection; preparation for connection to Immergas Comando Amico Remoto remote control and timer thermostat, room thermostat, external probe and control unit for area systems;
- self-diagnosis system with digital display of the temperature, functioning mode and error codes by means of the back-lit display, always available;
- IPX4D electrical insulation rating;
- possibility of coupling to the system for ducting of existing flues Ø 60 mm and Ø 80 mm;
- connection unit (optional) with depth-adjustable connections on the hydraulic attachments and gas and interception cocks.

Supplied complete with sample points for combustion analysis, lower protection sumps.

Category II appliance$_{2H3}$+, functions with a natural gas and L.P.G. CE Marking.

It is available in the model:

- **VICTRIX X 24 2 I** **code 3.019517**

NOTA BENE: *for correct installation of the boiler the Immergas "Green Range" air intake/flue exhaust kit must be used.*

VICTRIX 26 2 I
VICTRIX X 24 -12 2 I

VICTRIX X 12 2 I is the wall-mounted boiler for central heating only with maximum output of 12 kW and minimum output of 1.9 kW, which guarantees maximum energy saving in small apartments with low heat dispersion. The modulation field from 15 to 100% of the output allows maximum installation flexibility and high average seasonal efficiency. The innovative total premix combustion system and the special environment-friendly burner mean it can run on natural or LPG gas, guaranteeing extremely low pollutant emissions (the boiler belongs to the most environment-friendly class envisioned by European Standards - class 5). Thanks to a particular kit (optional) the boiler can be connected to a separate Immergas 80, 105, 120 or 200 litre Storage Tank Unit, which guarantees a large production of domestic hot water. **The boiler offers three installation possibilities: indoor, outdoor (in partially protected place) or recessed (using an optional recess frame)**. The new microprocessor-controlled electronics allows coupling to the exclusive Comando Amico Remoto remote control and to the external probe (both optional features), which allow to manage, control and program the boiler at a distance with extreme simplicity, thus optimising functioning through climatic heat adjustment.

3 VICTRIX X 12 2 I FEATURES

Pre-mixed wall-mounted condensing boiler for central heating only with nominal heat output of 12 kW with high-efficiency and fan-assisted circulation, prepared for coupling to a separate Immergas 80, 105, 120 or 200 litre Storage Tank Unit for the production of domestic hot water. By varying the type of installation the classification of the boiler also varies.

OUTDOOR INSTALLATION (in partially protected place):

Appliance with direct air intake - if installed using a flue terminal and the (optional) mandatory top cover kit, also eliminating a sealed chamber intake cap.

Appliance type C_{13}/ C_{33}/ C_{83} - if installed using the vertical or horizontal concentric kits (cover kit recommended but not mandatory) or the Ø 80/80 separator kit without using the top cover kit.

INDOOR INSTALLATION:

Appliance type C_{13}/ C_{33}/ C_{43}/ C_{53}/ C_{83} - if installed using the vertical or horizontal concentric kits or the Ø 80/80 separator kit.

Appliance type B_{23} - if installed using a flue kit and the (optional) mandatory top cover kit, also eliminating a sealed chamber intake cap.

The boiler is made up of:

- total pre-mixing combustion system with steel multigas burner, complete with ignition electrodes and ionisation control;
- pneumatic gas valve with double shutter;
- primary gas/water heat exchanger with casing in composite material and stainless steel internal coil;
- combustion chamber in stainless steel internally isolated using ceramic panels;
- fan for flue evacuation with electronically variable speed;
- circuit for disposal of condensate including trap and flexible discharge pipe;
- hydraulic unit comprising an adjustable-speed pump with built-in air separator, automatic by-pass, system flow switch, 3 bar safety valve for the primary circuit, ball valve for system filling;
- 8 litre expansion vessel system with diaphragm (real 5.7) with pre-load at 1.0 bar and manometer;
- water overheating safety thermostat, heat exchanger safety thermofuse and flue safety thermofuse;
- central heating system temperature adjustment selector switch, domestic hot water system temperature adjustment selector (if the Storage tank unit coupling kit is used), operation selector switch (Stand-by, Summer, Winter, Reset), digital display;
- control panel with microprocessor P.C.B. with continuous lame modulation with P.I.D. control, modulation field from 12 kW to 1.9 kW;
- CH temperature range selection 25 - 50°C or 25 - 85°C (setting as per series);
- electronic ignition with ionisation control;
- ignition retarder in central heating mode, anti-freeze protection system (to -5°C), pump anti-block device function, post-ventilation function, chimney sweep function, pump functioning mode selection; preparation for connection to Immergas Comando Amico Remoto remote control and timer thermostat, room thermostat, external probe and control unit for area systems;
- self-diagnosis system with digital display of the temperature, functioning mode and error codes by means of the back-lit display, always available;
- IPX4D electrical insulation rating;
- possibility of coupling to the system for ducting of existing flues Ø 60 mm and Ø 80 mm;
- possibility of recessing the boiler in the wall using a galvanised universal support frame (optional) complete with front panel;
- connection group (optional): a connection group is available for wall-mounted installation and two connection groups (front and rear) for recess installation.

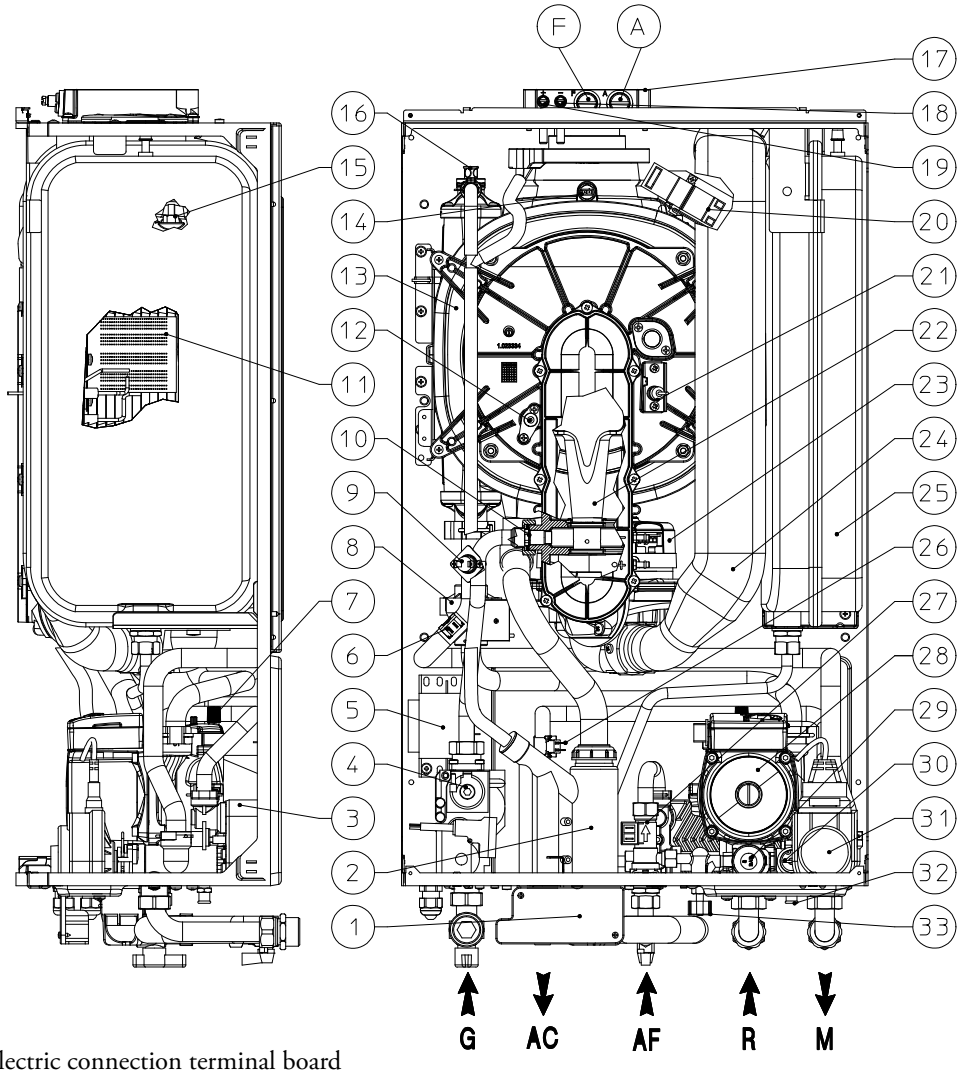
Supplied complete with sample points for combustion analysis, lower protection sumps.

Category II appliance2_{H3+}, functions with a natural gas and L.P.G. CE Marking.

It is available in the model:

- **VICTRIX X 12 2 I** **code 3.019206**
- **Recess frame (Omni Container)** **code 3.016991**

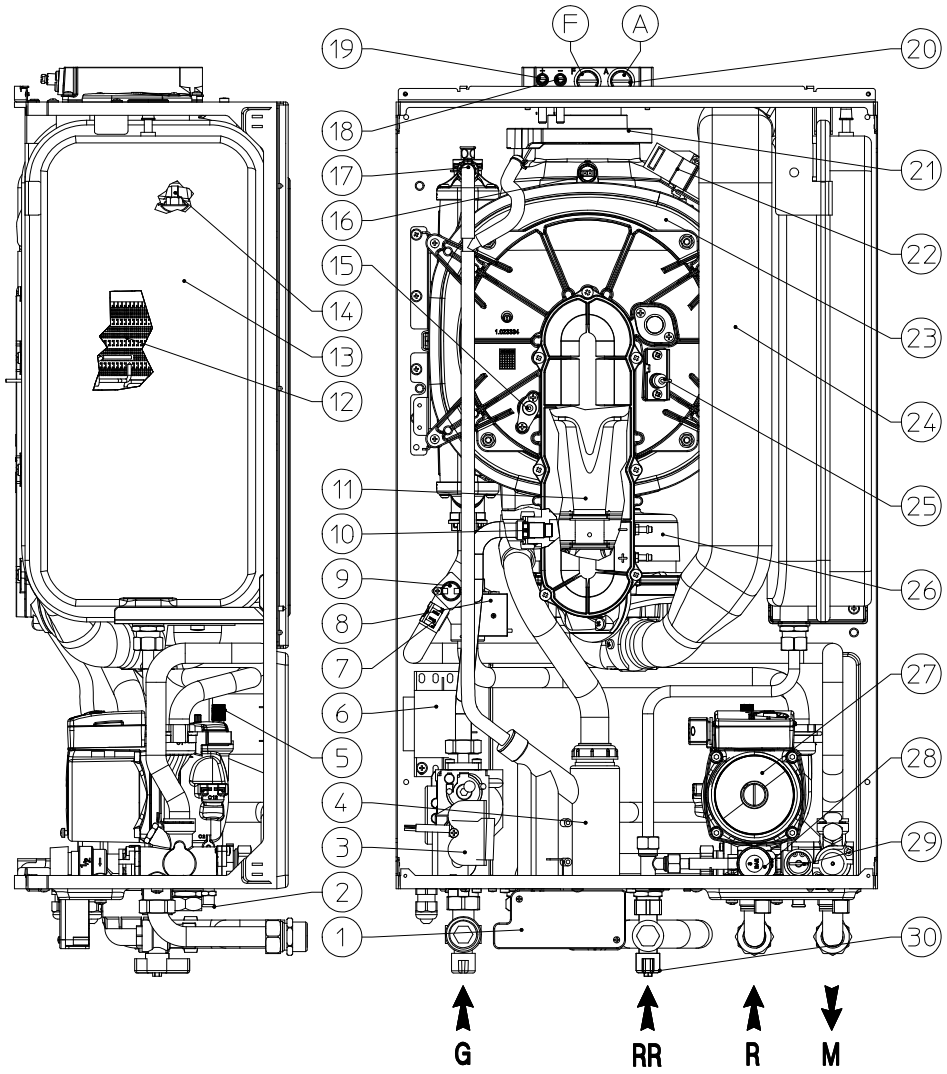
4 VICTRIX 26 2 I MAIN COMPONENTS



KEY:

1 - Electric connection terminal board (very low voltage)
2 - Condensate drain trap
3 - DHW heat exchanger
4 - Gas valve
5 - Low voltage transformer
6 - Flow probe
7 - Air vent valve
8 - System flow switch
9 - Safety thermostat
10 - Gas nozzle
11 - Burner
12 - Detection electrode
13 - Condensation module
14 - Flue safety thermofuse
15 - Heat exchanger safety thermofuse
16 - Manual air vent valve
17 - Sample points (air A) - (flue F)
18 - Negative signal pressure point
19 - Positive signal pressure point
20 - Igniter
21 - Ignition electrode
22 - Venturi
23 - Fan
24 - Air intake pipe
25 - System expansion vessel
26 - Domestic hot water probe
27 - Domestic hot water flow switch
28 - Boiler pump
29 - 3 bar safety valve
30 - Automatic by-pass
31 - 3-way valve (motorised)
32 - System draining valve
33 - System filling valve

5 VICTRIX X 24 2 I - X 12 2 I MAIN COMPONENTS



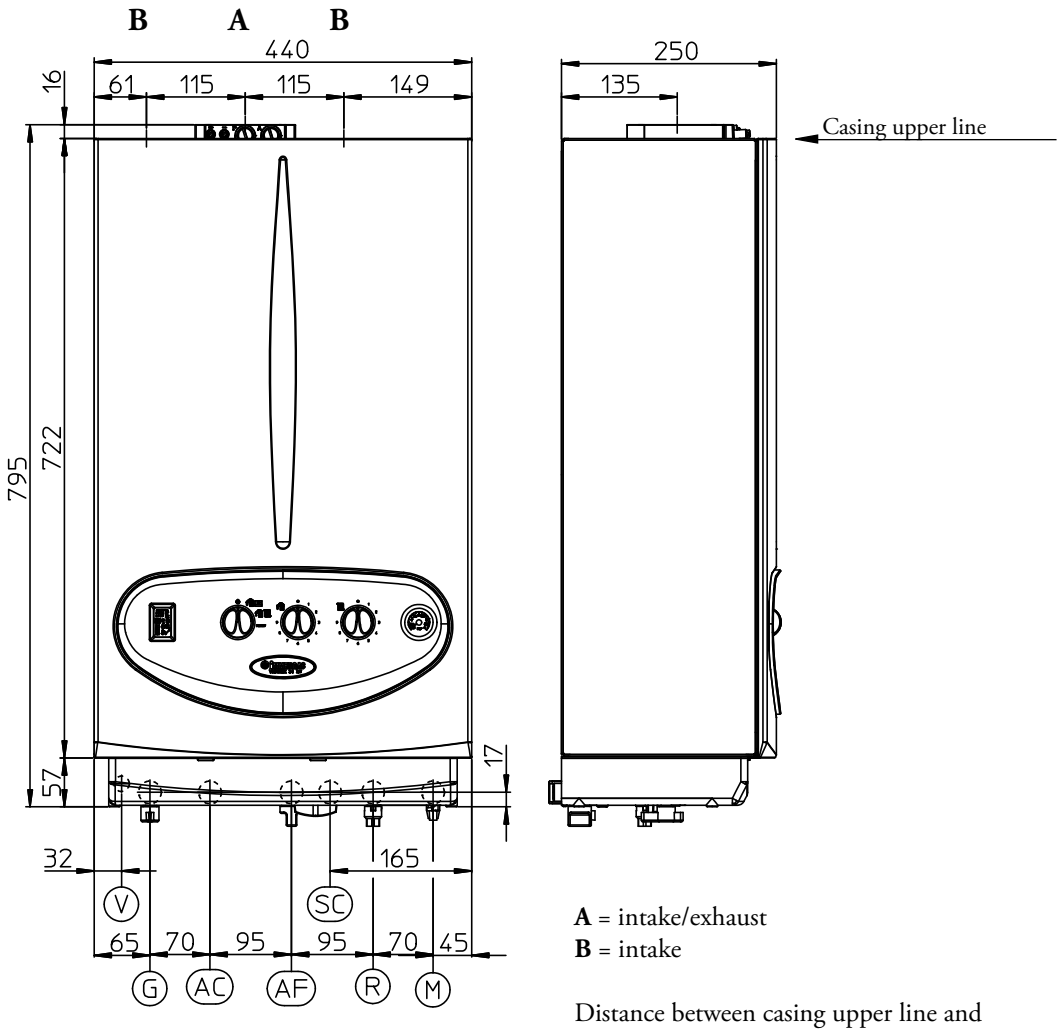
KEY:

1 - Electric connection terminal board (very low voltage)
2 - System draining valve
3 - Gas valve
4 - Condensate drain trap
5 - Air vent valve
6 - Low voltage transformer
7 - Flow probe
8 - System flow switch
9 - Safety thermostat
10 - Gas nozzle
11 - Venturi
12 - Burner
13 - System expansion vessel
14 - Heat exchanger safety thermofuse
15 - Detection electrode
16 - Flue safety thermofuse
17 - Manual air vent valve
18 - Negative signal pressure point
19 - Positive signal pressure point
20 - Sample points (air A) - (flue F)
21 - Flue hood
22 - Igniter
23 - Condensation module
24 - Air intake pipe
25 - Ignition electrode
26 - Fan
27 - Boiler pump
28 - 3 bar safety valve
29 - Automatic by-pass
30 - System filling valve

6 VICTRIX 26 2 I MAIN COMPONENTS

Model	Height mm	Width mm	Depth mm	Ø intake/exhaust mm
VICTRIX 26 2 I	795	440	250	100/60

6.1 CONNECTIONS



A = intake/exhaust
B = intake

Distance between casing upper line and Ø 60/100 concentric bend axis: **91 mm**

Distance between casing upper line and separator bend axis Ø 80/80: **A = 131; mm B = 101**

N.B.: Connection group (OPTIONAL)

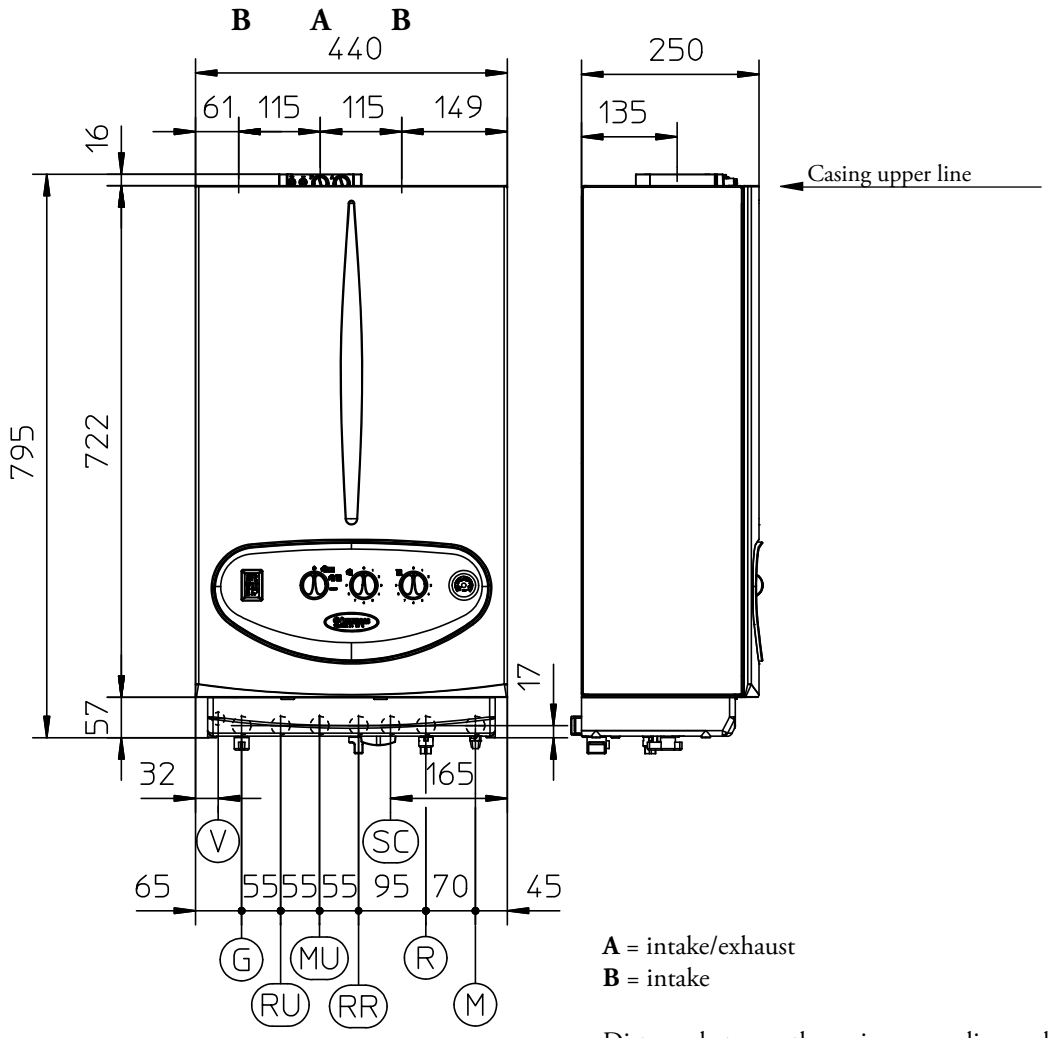
Wall height - 90° gas cock axis = 120 mm

Model	Flow M	Return R	Hot Output AC	Cold Input AF	Gas G	Expansion vessel Litres
VICTRIX 26 2 I	3/4"	3/4"	1/2"	1/2"	3/4"	8 (real 5.7)

7 VICTRIX X 24 2 I MAIN DIMENSIONS

Model	Height mm	Width mm	Depth mm	Ø intake/exhaust mm
VICTRIX X 24 2 I	795	440	250	100/60

7.1 CONNECTIONS



A = intake/exhaust
B = intake

Distance between the casing upper line and separator bend axis Ø 60/100: **91 mm**

Distance between the casing upper line and concentric bends axis Ø 80/80: **A = 131; mm B = 101**

N.B.: Connection group (OPTIONAL)

Wall height - 90° gas cock axis = 120 mm

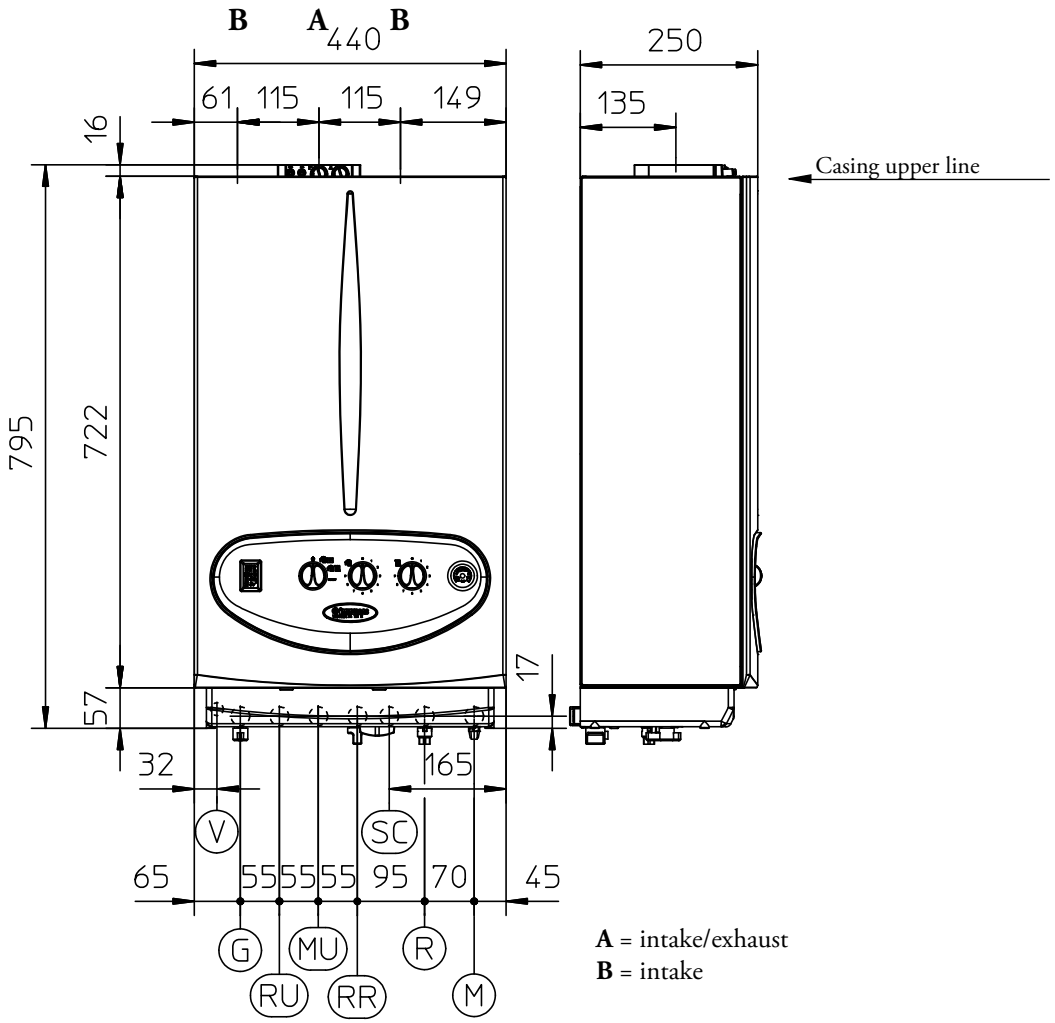
*** Only in the presence of the Storage tank unit coupling kit**

Model	Flow M	Return R	* Cylinder Flow MU	* Cylinder Return RU	System Filling RR	Gas G	Expansion vessel Litres
VICTRIX X 24 2 I	3/4"	3/4"	3/4"	3/4"	1/2"	3/4"	8 (real 5.7)

8 VICTRIX X 12 2 I MAIN DIMENSIONS

Model	Height mm	Width mm	Depth mm	Ø intake/exhaust mm
VICTRIX X 12 2 I	795	440	250	100/60

8.1 CONNECTIONS



A = intake/exhaust
B = intake

Distance between casing upper line and Ø 60/100 concentric bend axis: **91 mm**

Distance between casing upper line and separator bend axis Ø 80/80: **A = 131; mm B = 101**

N.B.: Connection group (OPTIONAL)

Wall height - 90° gas cock axis = 120 mm

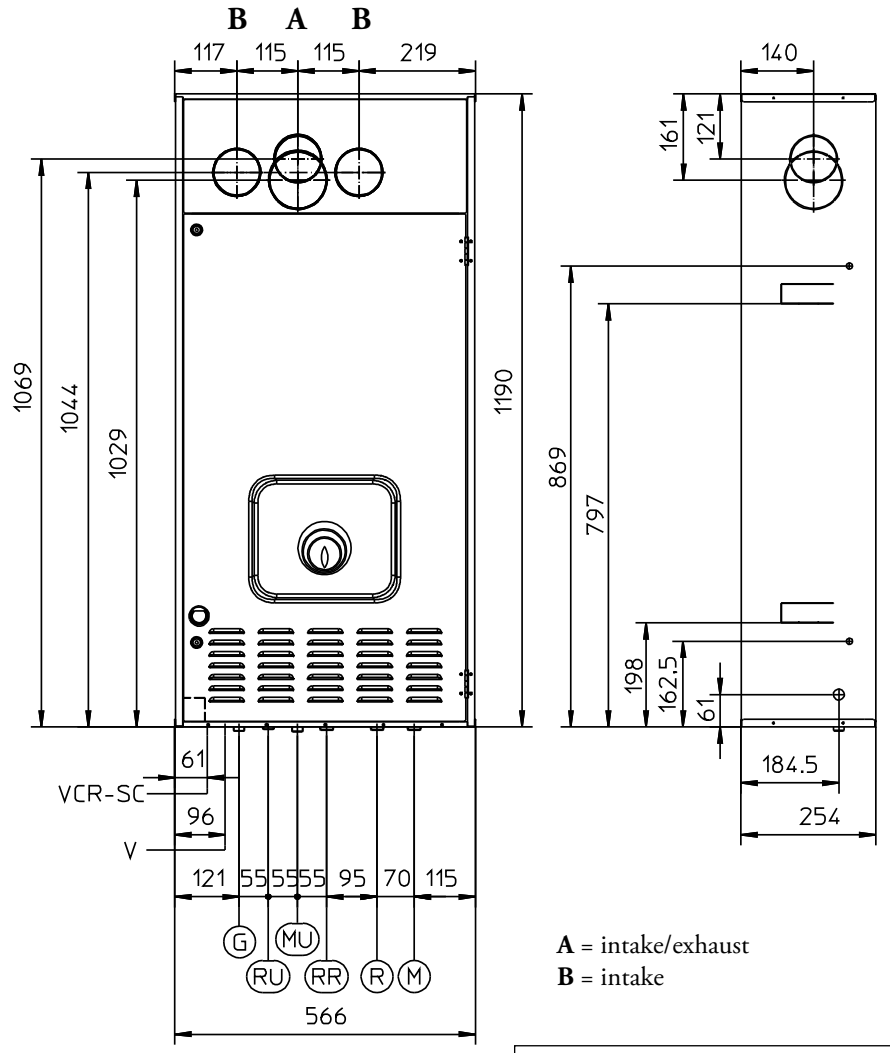
*** Only in the presence of the Storage tank unit coupling kit**

Model	Flow M	Return R	* Cylinder Flow MU	* Cylinder Return RU	System Filling RR	Gas G	Expansion vessel Litres
VICTRIX X 12 2 I	3/4"	3/4"	3/4"	3/4"	1/2"	3/4"	8 (real 5.7)

9 MAIN DIMENSIONS WITH OMNI CONTAINER KIT (OPTIONAL) code 3.016991

Model	Height mm	Width mm	Depth mm	Ø intake/exhaust mm
VICTRIX X 12 2 I with Omni Container kit	1190	566	254	100/60

9.1 CONNECTIONS WITH RECESS KIT (OPTIONAL)



A = intake/exhaust
B = intake

N.B.: Connection group (OPTIONAL)

*** Only in the presence of the Storage tank unit coupling kit**

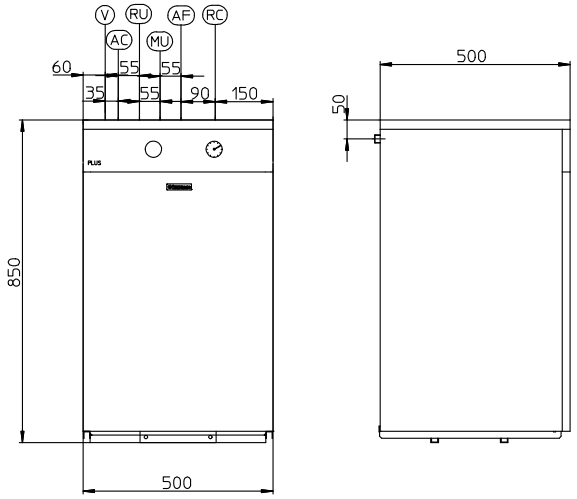
✱ with the connection unit for recess installation (optional) the gas connection is 1/2"

Model	Flow M	Return R	* Cylinder Flow MU	* Cylinder Return RU	System Filling RR	Gas G	Expansion vessel Litres
VICTRIX X 12 2 I with Omni Container kit	3/4"	3/4"	3/4"	3/4"	1/2"	✱	8 (real 5.7)

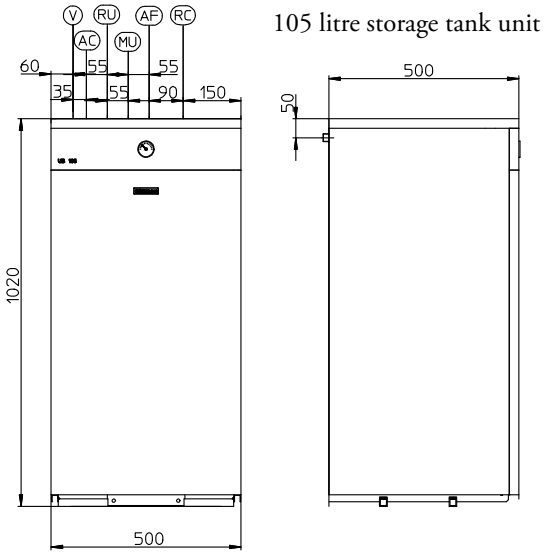
10 STORAGE TANK UNIT MAIN DIMENSIONS (OPTIONAL)

	80 litre storage tank unit	105 litre storage tank unit	120 litre storage tank unit	200 litre storage tank unit
Height mm	850	1020	850	1250
Width mm	500	500	600	600
Depth mm	500	500	600	600

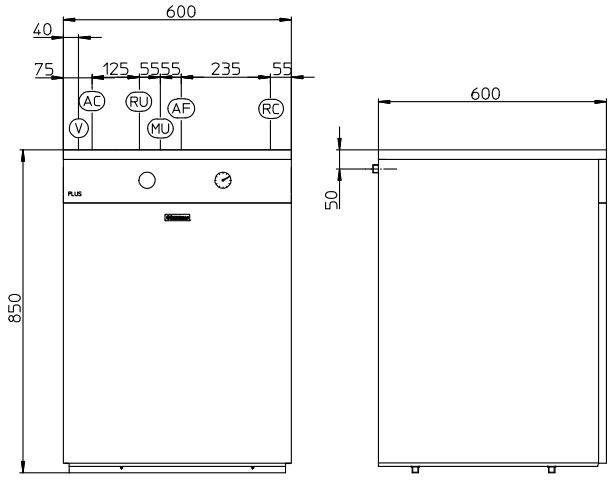
80 litre storage tank unit



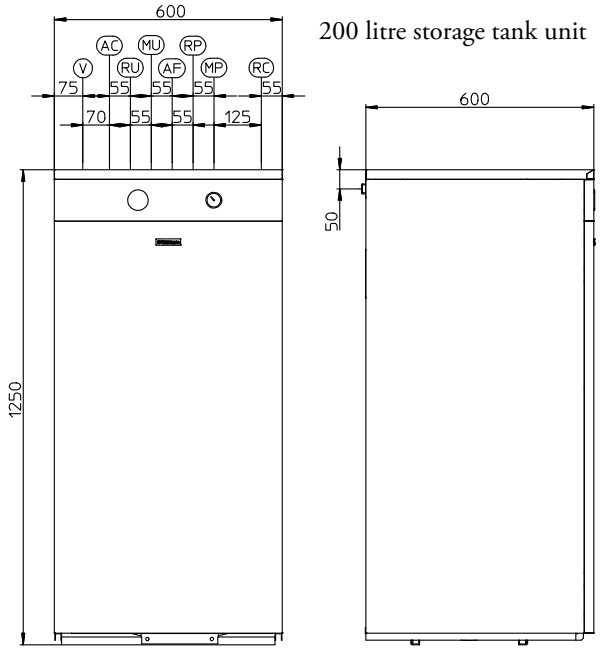
105 litre storage tank unit



102 litre storage tank unit



200 litre storage tank unit



Cylinder Flow MU	Cylinder Return RU	Cold Input AF	Hot Output AC	Recirculation RC	Panels Flow MP (opt. U.B. 200)	Panels Return RP (opt. U.B. 200)
3/4”	3/4”	1/2”	1/2”	1/2”	3/4”	3/4”

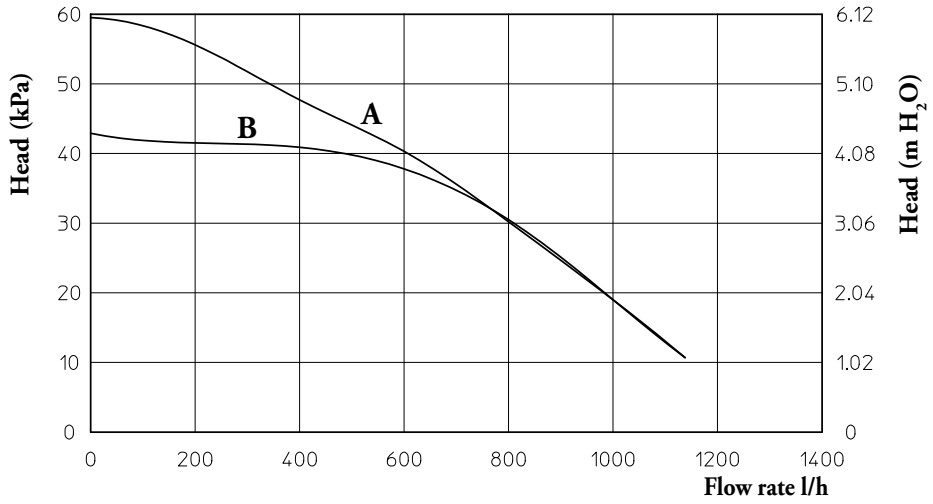
11 PUMP HEAD FLOW RATE GRAPHICS

The "VICTRIX 26 2 I / X 2 I" range boilers are supplied with a built-in pump with 3-position electric speed control. The pump is already fitted with a condenser.

The boilers are supplied with automatic by-pass as per standard. The by-pass can be excluded by acting on the relative screw located on the front of the hydraulic unit.

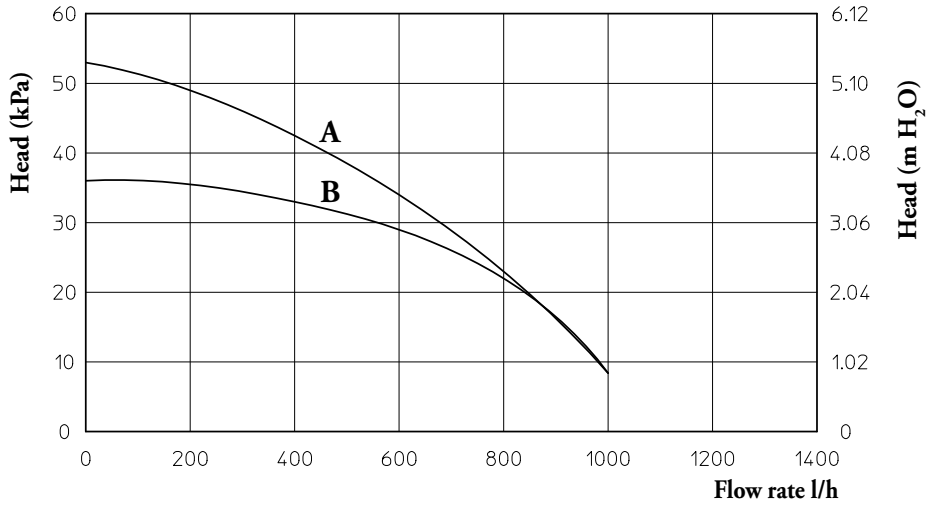
11.1 VICTRIX 26 2 I - X 24 2 I PUMP

GRUNDFOS UP 15-60 AO HB



11.2 VICTRIX X 12 2 I PUMP

GRUNDFOS UP 15-50 AO HB

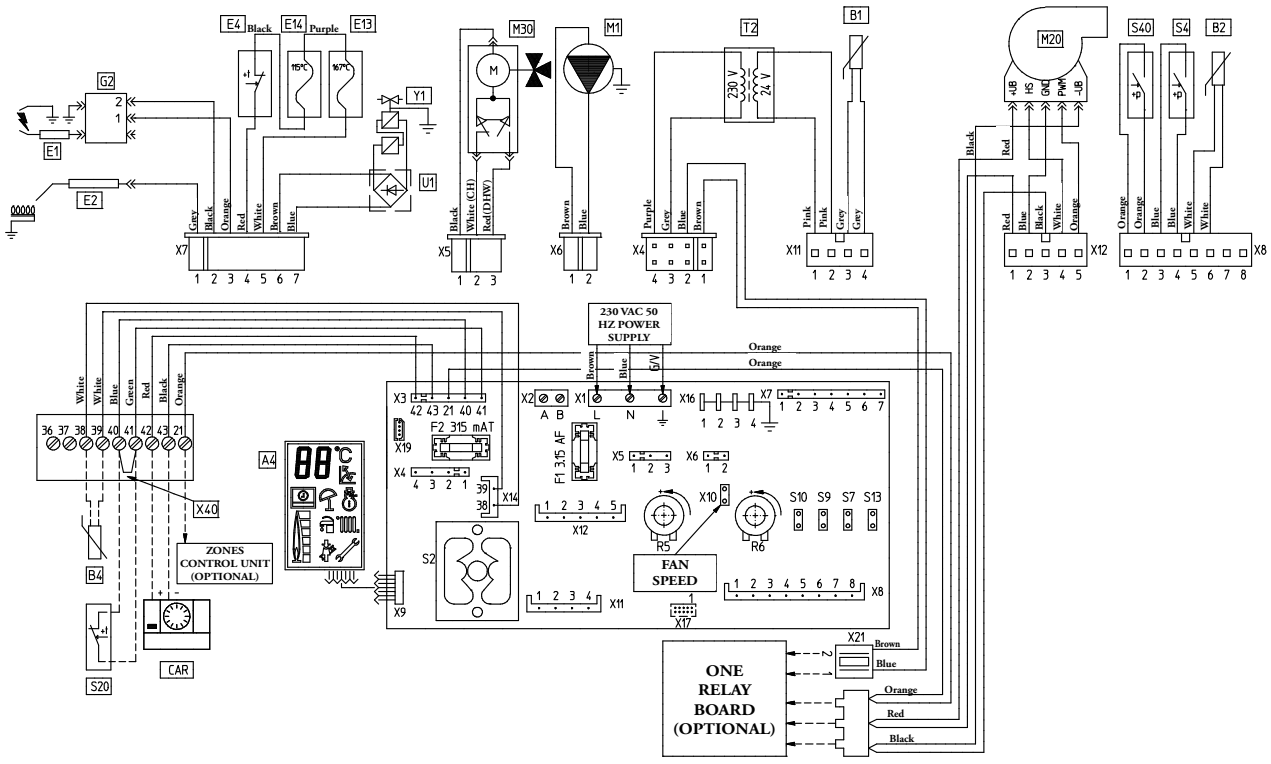


A: Head available to the system at maximum speed with by-pass excluded.
B: Head available to the system at maximum speed with by-pass inserted.

12 VICTRIX 26 2 I WIRING DIAGRAM

ROOM THERMOSTAT OR REMOTE CONTROL
the boiler is prepared for the application of the Comando Amico Remoto remote control (CAR), which must be connected to clamps 42 and 43 of the low voltage terminal board, respecting the polarity and eliminating jumper X40.

The boiler is prepared for the application of the Room Thermostat (S20) to be connected on clamps 40 and 41 of the low voltage terminal board, eliminating jumper X40.
Any external probe (B4) must be connected to clamps 38 and 39 always on the low voltage terminal board.



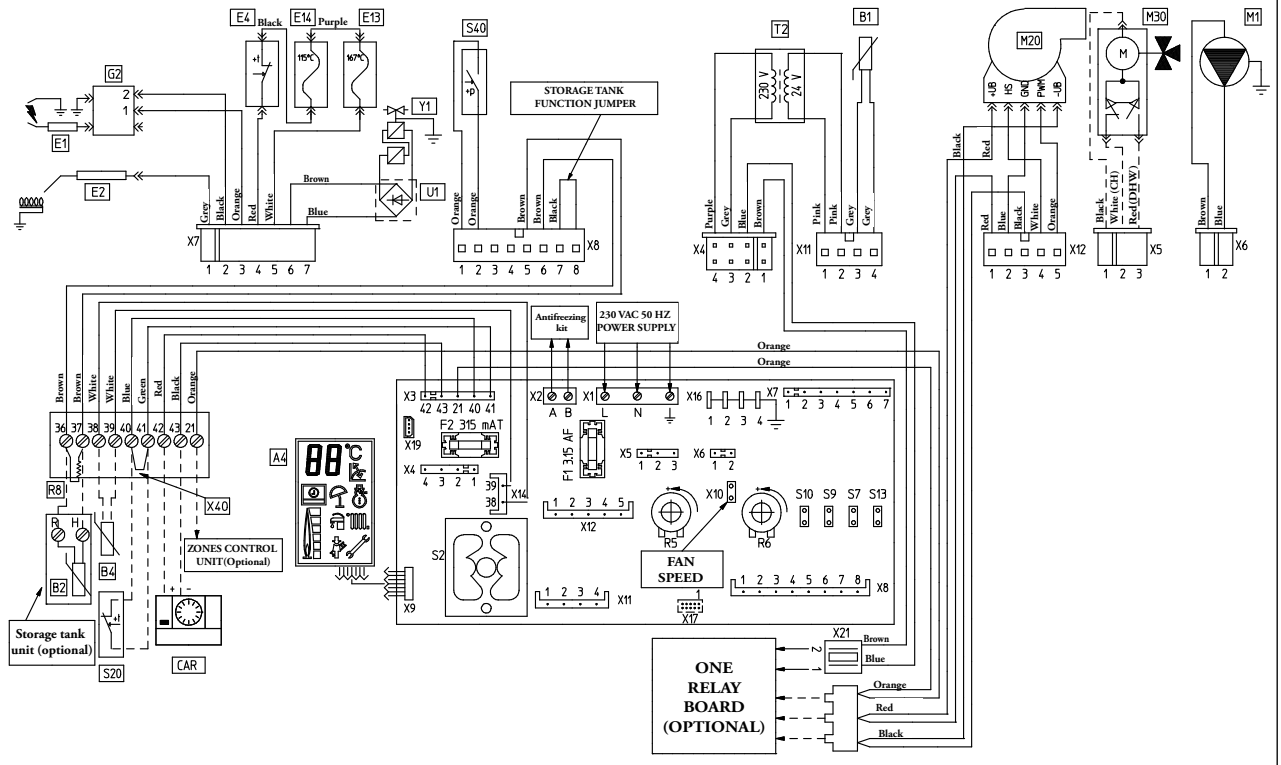
KEY:

A4 - Display board
B1 - Flow probe
B2 - Domestic hot water probe
B4 - External probe (optional)
CAR - Comando Amico Remoto remote control (optional)
E1 - Ignition electrodes
E2 - Detection electrode
E4 - Safety thermostat
E13 - Heat exchanger safety thermofuse
E14 - Flue safety thermofuse
G2 - Igniter
M1 - Boiler pump
M20 - Fan
M30 - Three-way valve
S2 - Selector switch functioning
S4 - Domestic hot water flow switch
S40 - System flow switch
S7 - Central heating timer selector switch
S9 - Domestic hot water mode selector switch
S10 - Pump mode selector switch
S13 - Central heating temperature range selector switch
S20 - Room thermostat (optional)
T2 - Low voltage transformer
U1 - Rectifier inside the gas valve connector
X40 - Room thermostat jumper
Y1 - Gas valve

13 VICTRIX X 12 2 I - X 24 2 I WIRING DIAGRAM

ROOM THERMOSTAT OR REMOTE CONTROL
the boiler is prepared for the application of the Comando Amico Remoto remote control (CAR), which must be connected to clamps 42 and 43 of the low voltage terminal board, respecting the polarity and eliminating jumper X40.

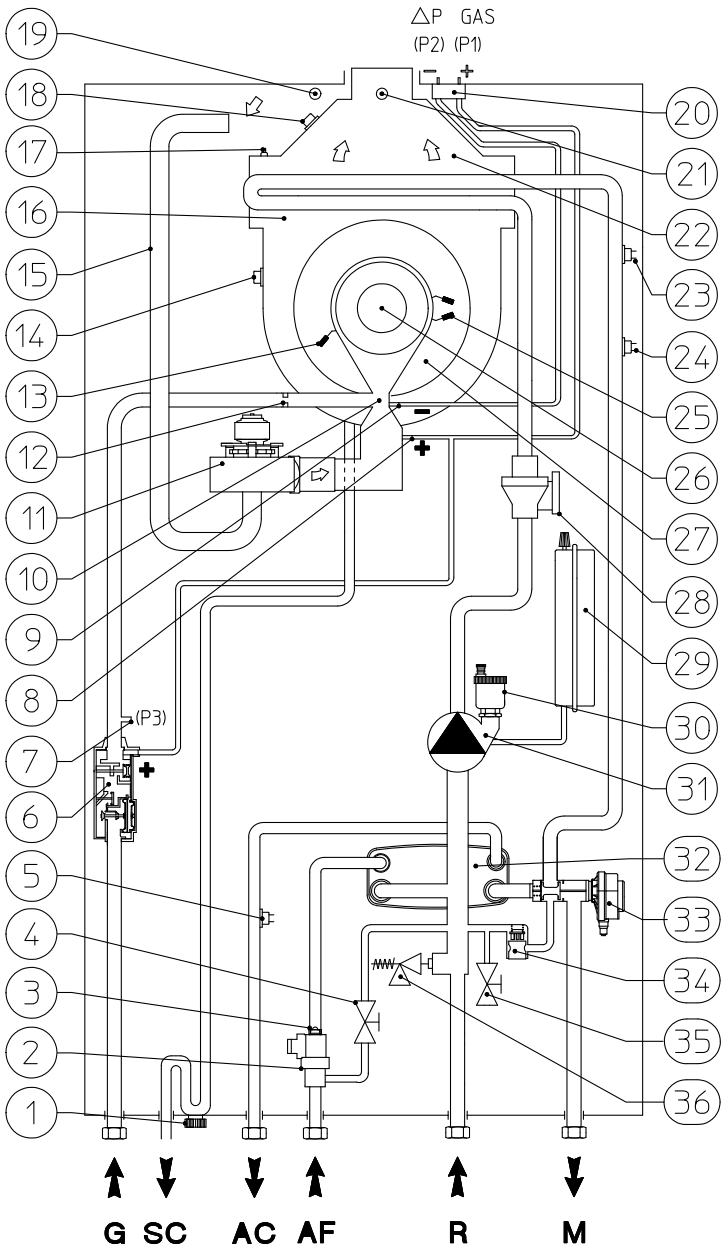
The boiler is prepared for the application of the Room Thermostat (S20) to be connected on clamps 40 and 41 of the low voltage terminal board, eliminating jumper X40.
Any external probe (B4) must be connected to clamps 38 and 39 always on the low voltage terminal board.



KEY:

A4 - Display board
B1 - Flow probe
B2 - DHW probe (optional)
B4 - External probe (optional)
CAR - Comando Amico Remoto remote control (optional)
E1 - Ignition electrodes
E2 - Detection electrode
E4 - Safety thermostat
E13 - Heat exchanger safety thermal fuse
E14 - Flue safety thermofuse
G2 - Igniter
M1 - Boiler pump
M20 - Fan
M30 - 3-way valve (optional)
R8 - Storage tank resistance
S2 - Selector switch functioning
S40 - System flow switch
S7 - Central heating timer selector switch
S9 - Domestic hot water mode selector switch
S10 - Pump mode selector switch
S13 - Central heating temperature range selector switch
S20 - Room thermostat (optional)
T2 - Low voltage transformer
U1 - Rectifier inside the gas valve connector
X40 - Room thermostat jumper
Y1 - Gas valve

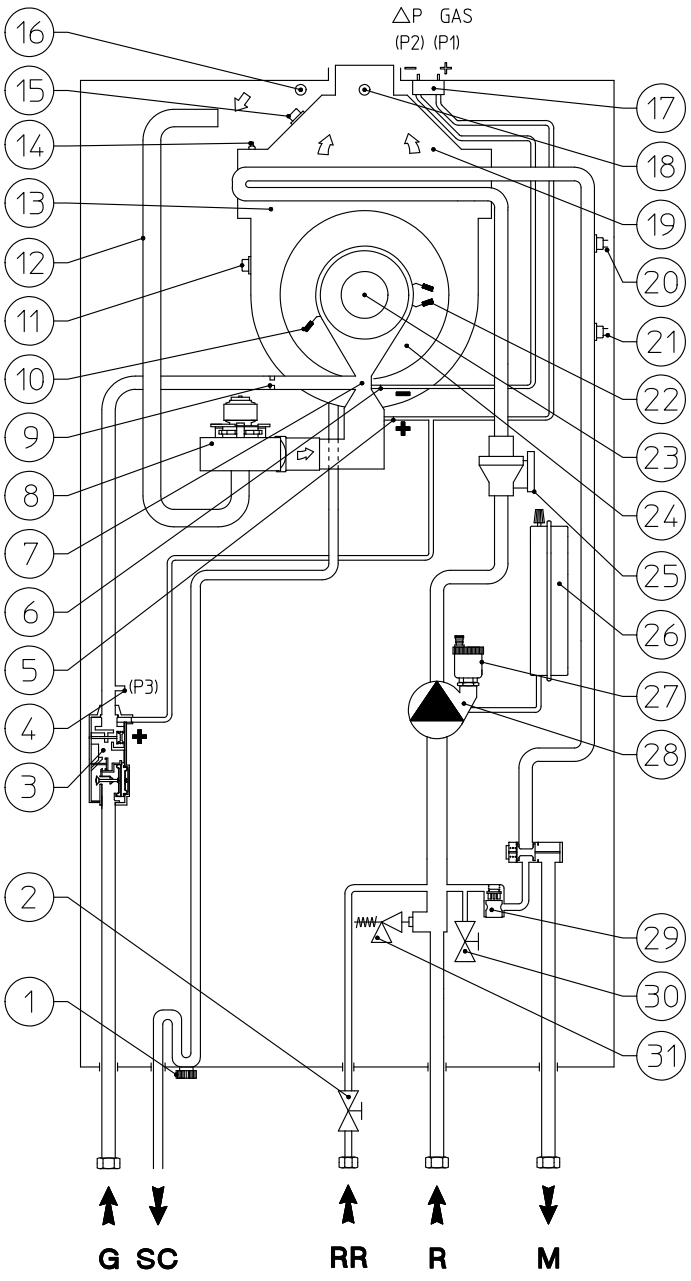
14 VICTRIX 26 2 I HYDRAULIC DIAGRAM



KEY:

1 - Condensate drain trap
2 - Domestic hot water flow switch
3 - Flow limiter
4 - System filling valve
5 - Domestic hot water probe
6 - Gas valve
7 - Gas valve outlet pressure point (P3)
8 - Venturi positive sign (P2)
9 - Venturi negative sign (P2)
10 - Air/gas Venturi manifold
11 - Fan
12 - Gas nozzle
13 - Detection electrode
14 - Flue safety thermofuse
15 - Air intake pipe
16 - Condensation module
17 - Manual air vent valve
18 - Heat exchanger safety thermal fuse
19 - Air sample point
20 - Δp gas pressure point
21 - Flue sample point
22 - Flue hood
23 - Safety thermostat
24 - Delivery probe
25 - Ignition electrode
26 - Burner
27 - Condensation module cover
28 - System flow switch
29 - System expansion vessel
30 - Air vent valve
31 - Boiler pump
32 - DHW heat exchanger
33 - Three-way valve (motorised)
34 - Automatic by-pass
35 - System draining valve
36 - 3 bar safety valve

15 VICTRIX X 12 2 I - X 24 2 I HYDRAULIC DIAGRAM



KEY:

1 - Condensate drain trap
2 - System filling valve
3 - Gas valve
4 - Gas valve outlet pressure point (P3)
5 - Venturi positive sign (P2)
6 - Venturi negative sign (P2)
7 - Air/gas Venturi manifold
8 - Fan
9 - Gas nozzle
10 - Detection electrode
11 - Flue safety thermofuse
12 - Air intake pipe
13 - Condensation module
14 - Manual air vent valve
15 - Heat exchanger safety thermal fuse
16 - Air sample point
17 - Δp gas pressure point
18 - Flue sample point
19 - Flue hood
20 - Safety thermostat
21 - Delivery probe
22 - Ignition electrode
23 - Burner
24 - Condensation module cover
25 - System flow switch
26 - System expansion vessel
27 - Air vent valve
28 - Boiler pump
29 - Automatic by-pass
30 - System draining valve
31 - 3 bar safety valve

16 VICTRIX 26 2 I TECHNICAL DATA

			VICTRIX 26 2 I
Domestic hot water maximum heating power		kW (kcal/h)	26.7 (22,933)
Central heating maximum heat input		kW (kcal/h)	24.1 (20,747)
DHW maximum useful heat output		kW (kcal/h)	26.0 (22,360)
CH maximum useful heat output		kW (kcal/h)	23.6 (20,296)
Minimum nominal heat input		kW (kcal/h)	3.2 (2,719)
Minimum nominal heat output		kW (kcal/h)	3.0 (2,580)
Efficiency at 100% Pn (80/60°C)		%	97.8
Efficiency at 30% of the load (80/60°C)		%	102.1
Efficiency at 100% Pn (50/30°C)		%	106.7
Efficiency at 30% of the load (50/30°C)		%	108.7
Efficiency at 100% Pn (40/30°C)		%	108.1
Efficiency at 30% of the load (40/30°C)		%	108.7
Central heating circuit			
CH adjustable temperature (range 1 / range 2)		°C	25 - 85 / 25 - 50
System max. working temperature		°C	90
System max. working pressure		bar	3
System expansion vessel nominal/(real) capacity		litres	8 / (5.7)
System expansion vessel factory-set pressure		bar	1.0
Total head available with 1000 l/h flow rate		kPa (m H_2O)	18.63 (1.90)
DHW circuit			
Hot water production useful heat output		kW (kcal/h)	26.0 (22,360)
DHW adjustable temperature		°C	30 - 60
Domestic hot water circuit min. dynamic pressure		bar	0.3
DHW circuit max. pressure		bar	10
DHW min. withdrawal		litres/min	1.5
Flow rate in continuous service (ΔT 30°C)		litres/min	12.9
Gas supply			
Gas pressure at METHANE burner (G20)	MIN - MAX	mbar	0.11 - 4.15 (5.10 DHW)
Gas pressure at LPG burner (G30)	MIN - MAX	mbar	0.14 - 4.15 (5.10 DHW)
Gas pressure at LPG burner (G31)	MIN - MAX	mbar	0.17 - 6.15 (7.50 DHW)
Gas flow rate at METHANE burner (G20)	MIN - MAX	m^3/h	0.33 - 2.55 (2.82 DHW)
Gas flow rate at LPG burner (G30)	MIN - MAX	kg/h	0.25 - 1.91 (2.11 DHW)
Gas flow rate at LPG burner (G31)	MIN - MAX	kg/h	0.25 - 1.87 (2.07 DHW)
Electric power supply		V/Hz	230 - 50
Power input		A	0.61
Installed electric power		W	135
Fan consumption		W	10
Pump consumption		W	83.5
Electric insulation rating	IP		X4D
Boiler water content		litres	3.4
Weight of empty boiler		kg	39.0

17 VICTRIX X 24 2 I TECHNICAL DATA

			VICTRIX X 24 2 I
Central heating maximum heat input		kW (kcal/h)	24.1 (20,747)
Central heating maximum nominal heat output		kW (kcal/h)	23.6 (20,296)
Minimum nominal heat input		kW (kcal/h)	3.2 (2,719)
Minimum nominal heat output		kW (kcal/h)	3.0 (2,580)
Efficiency at 100% Pn (80/60°C)		%	97.8
Efficiency at 30% of the load (80/60°C)		%	102.1
Efficiency at 100% Pn (50/30°C)		%	106.7
Efficiency at 30% of the load (50/30°C)		%	108.7
Efficiency at 100% Pn (40/30°C)		%	108.1
Efficiency at 30% of the load (40/30°C)		%	108.7
Central heating circuit			
CH adjustable temperature (range 1 / range 2)		°C	25 - 85 / 25 - 50
System max. working temperature		°C	90
System max. working pressure		bar	3
System expansion vessel nominal/(real) capacity		litres	8 / (5.7)
System expansion vessel factory-set pressure		bar	1.0
Total head available with 1000 l/h flow rate		kPa (m H_2O)	18.63 (1.90)
DHW circuit (coupled to storage tank unit)			
Hot water production useful heat output		kW (kcal/h)	26.0 (22,337)
Specific capacity x 10 min. (Δt 30°C) STU 80 litres		litres/min	20.5
Specific capacity x 10 min. (Δt 30°C) STU 105 litres		litres/min	24.8
Specific capacity x 10 min. (Δt 30°C) STU 120 litres		litres/min	27.1
Specific capacity x 10 min. (Δt 30°C) STU 200 litres		litres/min	35.7
Flow rate in continuous service with STU (ΔT 30°C)		litres/min	12.4
Gas supply			
Gas pressure at METHANE burner (G20)	MIN - MAX	mbar	0.11 - 4.15
Gas pressure at LPG burner (G30)	MIN - MAX	mbar	0.14 - 4.15
Gas pressure at LPG burner (G31)	MIN - MAX	mbar	0.17 - 6.15
Gas flow rate at METHANE burner (G20)	MIN - MAX	m^3/h	0.33 - 2.55
Gas flow rate at LPG burner (G30)	MIN - MAX	kg/h	0.25 - 1.91
Gas flow rate at LPG burner (G31)	MIN - MAX	kg/h	0.25 - 1.87
Electric power supply		V/Hz	230 - 50
Power input		A	0.61
Installed electric power		W	135
Fan consumption		W	10
Pump consumption		W	83.5
Electric insulation rating	IP		X4D
Boiler water content		litres	3.4
Weight of empty boiler		kg	39.0

18 VICTRIX X 12 2 I TECHNICAL DATA

			VICTRIX X 12 2 I
Maximum nominal heat input		kW (kcal/h)	12.3 (10,563)
Maximum useful heat output		kW (kcal/h)	12.0 (10,230)
Minimum nominal heat input		kW (kcal/h)	2.0 (1,753)
Minimum nominal heat output		kW (kcal/h)	1.9 (1,671)
Efficiency at 100% Pn (80/60°C)		%	97.7
Efficiency at 30% of the load (80/60°C)		%	100.4
Efficiency at 100% Pn (50/30°C)		%	106.9
Efficiency at 30% of the load (50/30°C)		%	107.9
Efficiency at 100% Pn (40/30°C)		%	107.0
Efficiency at 30% of the load (40/30°C)		%	107.9
Central heating circuit			
CH adjustable temperature (range 1 / range 2)		°C	25 - 85 / 25 - 50
System max. working temperature		°C	90
System max. working pressure		bar	3
System expansion vessel nominal/(real) capacity		litres	8 / (5.7)
System expansion vessel factory-set pressure		bar	1.0
Total head available with 1000 l/h flow rate		kPa (m H_2O)	8.24 (0.84)
DHW circuit (coupled to storage tank unit)			
Hot water production useful heat output		kW (kcal/h)	12.0 (10,230)
Specific capacity x 10 min. (Δt 30°C) STU 80 litres		litres/min	17.2
Specific capacity x 10 min. (Δt 30°C) STU 150 litres		litres/min	21.0
Specific capacity x 10 min. (Δt 30°C) STU 120 litres		litres/min	21.1
Specific capacity x 10 min. (Δt 30°C) STU 200 litres		litres/min	22.1
Flow rate in continuous service with STU (ΔT 30°C)		litres/min	6.3
Gas supply			
Gas pressure at METHANE burner (G20)	MIN - MAX	mbar	0.19 - 5.69
Gas pressure at LPG burner (G30)	MIN - MAX	mbar	0.18 - 5.33
Gas pressure at LPG burner (G31)	MIN - MAX	mbar	0.22 - 6.59
Gas flow rate at METHANE burner (G20)	MIN - MAX	m^3/h	0.22 - 1.30
Gas flow rate at LPG burner (G30)	MIN - MAX	kg/h	0.16 - 0.97
Gas flow rate at LPG burner (G31)	MIN - MAX	kg/h	0.16 - 0.95
Electric power supply		V/Hz	230 - 50
Power input		A	0.55
Installed electric power		W	120
Fan consumption		W	9.3
Pump consumption		W	80.7
Electric insulation rating	IP		X4D
Boiler water content		litres	3.0
Weight of empty boiler		kg	36.5
Useful efficiency at 100% output			>93+2·log Pn
(Legislative Decree 192/05 and successive amendments)			(Pn = 12.0 kW)

19 VICTRIX 26 2 I - X 24 2 I COMBUSTION FEATURES

		Methane (G20)	LPG (G30)	LPG (G31)
Combustion efficiency 100% Pn (80/60°C)	%	98.0	98.0	98.0
Combustion efficiency P min (80/60°C)	%	97.8	97.8	97.8
Useful efficiency at 100% Pn (80/60°C)	%	97.8	97.8	97.8
Useful efficiency P min (80/60°C)	%	94.9	94.9	94.9
Useful efficiency at 100% Pn (50/30°C)	%	106.7	106.7	106.7
Useful efficiency P min (50/30°C)	%	103.0	103.0	103.0
Useful efficiency at 100% Pn (40/30°C)	%	108.1	108.1	108.1
Useful efficiency P min (40/30°C)	%	107.1	107.1	107.1
Chimney losses with burner off	%	2.0	2.0	2.0
Casing losses with burner on (100% Pn) (80/60°C)	%	2.2	2.2	2.2
Casing losses with burner on (P min) (80/60°C)	%	0.02	0.02	0.02
Casing losses with burner off	%	0.41	0.41	0.41
Casing losses with burner on (100% Pn) (80/60°C)	%	0.5	0.5	0.5
Casing losses with burner on (P min) (80/60°C)	%	2.9	2.9	2.9
Flue temperature Maximum Heat Input	°C	57	63	57
Flue temperature Minimum Heat Input	°C	58	64	59
Flue flow rate at Central Heating Maximum Heat Input	kg/h	38	34	39
Flue flow rate at Maximum Domestic Hot Water Heat Input	kg/h	42	38	43
Flue flow rate at Minimum Heat Input	kg/h	5	5	5
CO_2 at the Maximum Central Heating Heat Input	%	9.50	12.30	10.60
CO_2 at the Maximum Domestic Hot Water Heat Input	%	9.50	12.30	10.60
CO_2 at the Minimum Heat Input	%	8.90	11.60	10.20
CO at Maximum Heat Input	mg/kWh	230	670	190
CO at Minimum Heat Input	mg/kWh	4	4	3
NO_x at the Maximum Heat Input	mg/kWh	64	250	66
NO_x at the Minimum Heat Input	mg/kWh	21	29	11
Weighted CO	mg/kWh	17.2	-	-
Weighted NO_x	mg/kWh	39	-	-
NO_x class	-	5	5	5
Head available at fan (Min. - Max.)	Pa	31 - 134		

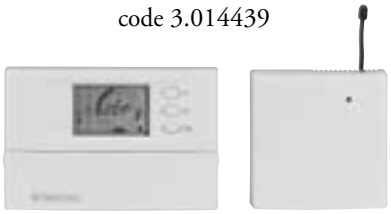
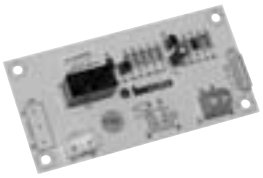
Gas flow rates refer to the NHV at the temperature of 15° C and pressure of 1013 mbar.
Flue temperature values refer to an air inlet temperature of 15°C and flow temperature of 50°C.

20 VICTRIX X 12 2 I COMBUSTION FEATURES

		Methane (G20)	LPG (G30)	LPG (G31)
Combustion efficiency 100% Pn (80/60°C)	%	98.0	98.0	98.0
Combustion efficiency P min (80/60°C)	%	97.8	97.8	97.8
Useful efficiency at 100% Pn (80/60°C)	%	97.7	97.7	97.7
Useful efficiency P min (80/60°C)	%	93.2	93.2	93.2
Useful efficiency at 100% Pn (50/30°C)	%	106.9	106.9	106.9
Useful efficiency P min (50/30°C)	%	102.4	102.4	102.4
Useful efficiency at 100% Pn (40/30°C)	%	107.0	107.0	107.0
Useful efficiency P min (40/30°C)	%	106.8	106.8	106.8
Chimney losses with burner on (100% Pn) (80/60°C)	%	2.0	2.0	2.0
Chimney losses with burner on (P min) (80/60°C)	%	2.2	2.2	2.2
Chimney losses with burner off	%	0.02	0.02	0.02
Casing losses with burner off	%	0.89	0.89	0.89
Casing losses with burner on (100% Pn) (80/60°C)	%	0.3	0.3	0.3
Casing losses with burner on (P min) (80/60°C)	%	4.6	4.6	4.6
Flue temperature Maximum Heat Input	°C	56	62	56
Flue temperature Minimum Heat Input	°C	58	64	59
Flue flow rate at Central Heating Maximum Heat Input	kg/h	19	17	20
Flue flow rate at Minimum Heat Input	kg/h	3	3	3
CO_2 at the Maximum Central Heating Heat Input	%	9.50	12.50	10.60
CO_2 at the Minimum Heat Input	%	8.85	11.60	10.20
CO at Maximum Heat Input	mg/kWh	118	455	121
CO at Minimum Heat Input	mg/kWh	4	4	1
NO_x at the Maximum Heat Input	mg/kWh	48	185	83
NO_x at the Minimum Heat Input	mg/kWh	13	19	28
Weighted CO	mg/kWh	6.6	-	-
Weighted NO_x	mg/kWh	19.2	-	-
NO_x class	-	5	5	5
Head available at fan (Min. - Max.)	Pa	6 - 110		

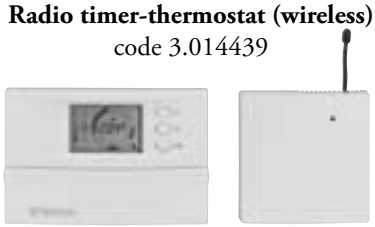
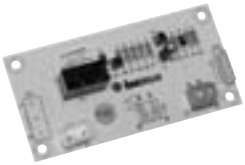
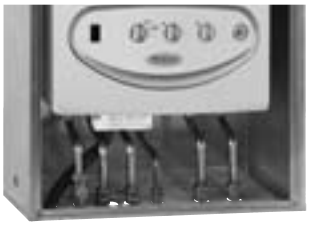
Gas flow rates refer to the NHV at the temperature of 15° C and pressure of 1013 mbar.
Flue temperature values refer to an air inlet temperature of 15°C and flow temperature of 50°C.

21 VICTRIX 26 2 I OPTIONALS

Super Comando Amico Remoto remote control code 3.016577 	**Comando Amico Remoto remote control** code 3.011236 
Telephone control code 3.013305 	**External Probe** code 3.014083 
Digital weekly timer-thermostat code 3.014438 	**Radio timer-thermostat (wireless)** code 3.014439 
GSM telephone control kit code 3.017182 	**Relay interface kit (for zone valve coupling)** code 3.017331 
Zones control unit kit code 3.011668 	**Additional system expansion vessel kit (2 litres)** code 3.017514 
Connection unit kit code 3.017494	**Top cover kit** code 3.017330
Polyphosphate dispenser kit (indoor only) code 3.017323	**Anti-freeze electric resistance kit (-15°C)** code 3.017324
Cut-off cocks kit code 3.5324	**Cut-off cocks with filter kit** code 3.015854
System cut-off kit code 3.016301	

The boiler is prepared for coupling to the DIM (multi-system distribution manifold), available in 5 recess kits.

22 VICTRIX X 12 2 I - X 24 2 I OPTIONALS

Super Comando Amico Remoto remote control code 3.016577 	**Comando Amico Remoto remote control** code 3.011236 
Zones control unit kit code 3.011668 	**External Probe** code 3.014083 
Digital weekly timer-thermostat code 3.014438 	**Radio timer-thermostat (wireless)** code 3.014439 
Relay interface kit (for zone valve coupling) code 3.017331 	**Additional system expansion vessel kit (2 litres)** code 3.017514 
Front connection unit kit for recessing (for VICTRIX X 12 2 I only) code 3.017362 	**Rear connection unit kit for recessing (for VICTRIX X 12 2 I only)** code 3.017329 
Storage tank unit coupling kit code 3.017500	**Connection unit kit** cod. 3.017495
GSM telephone control kit code 3.017182	**Telephone control** code 3.013305
Anti-freeze electric resistance kit (-15°C) code 3.017324	**Top cover kit** code 3.017330
Cut-off cocks kit code 3.5324	**Cut-off cocks with filter kit** code 3.015854
Column attachment kit (STU 105 and STU 200) code 3.017325	

The boiler is prepared for coupling to the DIM (multi-system distribution manifold), available in 5 recess kits.