TECHNICAL DATA

Specifications		50/50CS	70	100
Thermal output (burnt)	kW	23	30	35
Power output	kW	18	23	27
Overall efficiency	%	78,2	78,4	78
Efficiency to the water	%	~ 70	~ 70	~ 70
Optimal wood consumption	kg/h	5,5	7	8
Total weight including the packaging (min-max)	kg	171/189	184/230	251/302
ø female smoke outlet	cm	18	20	25
ø stainless steel chimney flue for a height ranging from 3 to 5 m $$	cm	20	25	25
ø stainless steel chimney flue for a height ranging from 5 to 7 m $$	cm	18	22	25
ø stainless steel chimney flue for a height exceeding 7 m	cm	18	20	22
ø external air inlet	cm	10	10	10
Water capacity	litres	60	70	90
Maximum operating pressure	bar	1,5	1,5	1,5
Hot sanitary water production (kit 1-3-n3-n3bis-6)*	l/min**	10	12	1 4
Heating capacity ***	m³	440	560	660
System return	inches	1"	1"1/4	1"1/4
System flow	inches	1"	1"1/4	1"1/4

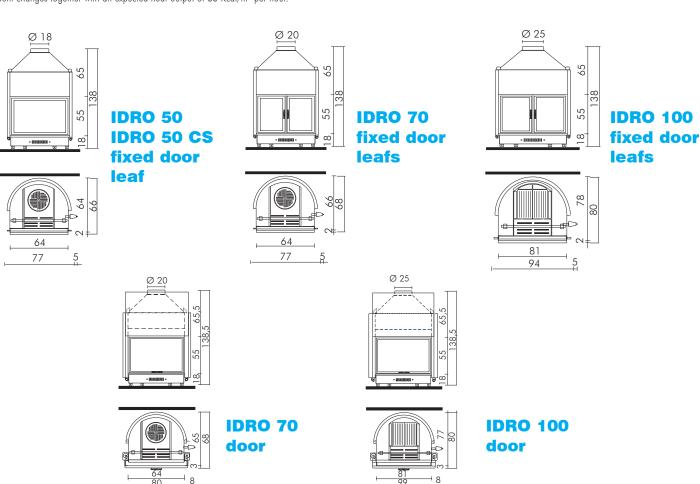


thermal insulation on the vaulted top (implemented by the

client)

The water of the radiator circuit warms up, circulates in the heat exchanger pipe (4) and the hollow space (A) and skims along the semi-circular wall. The hollow space is created by using thick steel sheet metal.

- boiler temperature is 70°
- ** ($\Delta T = 25K$)
- *** Insulation in accordance with the Legislative Decree 192/2005 ex Italian Law 10/91 and subsequent changes together with an expected heat output of 35 Kcal/m³ per hour.



GENERAL SAFETY REGULATIONS

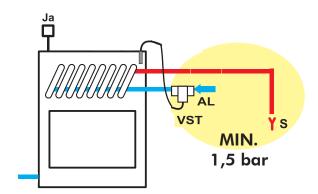
(VALID ONLY FOR IDRO 50/CS)





ONLY THERMO FIREPLACES THAT HAVE A THERMAL RELIEF VALVE WHICH ACTUATES THE COIL CAN BE INSTALLED ON CLOSED TANK SYSTEMS Installations with a closed tank:

- The installer is responsible for the correct installation of the system, which is to be compliant with UNI standards 10683/2005 – 9615/90 – 10412:2
- The entire process must be carried out by qualified personnel in accordance with Italian Law No. 46/90



 The thermal relief valve (supplied by Italiana Camini) must be connected to the cooling circuit with a minimum pressure of 1.5 bar.

AL=P= coil power supply, always with a minimum pressure of 1.5 bar



 KITS 5 and 6 must be installed within a MAX distance of 150 cm from the fireplace.



 Another expansion tank must be installed specifically for the thermo fireplace in accordance with the volume of water of the system.

1 Year

 The safety valve and the thermal relief valve must be checked at least once a year by qualified personnel in accordance with Italian Law No. 46/90

- THE THERMO FIREPLACE MUST NEVER FUNCTION WITHOUT WATER IN THE SYSTEM.
- THE THERMO FIREPLACE CAN BE DAMAGED IF IT IS IGNITED WITH NO WATER IN THE SYSTEM.
- The thermo fireplace is designed to heat water by means of wood combustion in the hearth.
- The only hazards that can derive from using the thermo fireplace pertain to non-compliance with the installation instructions, direct contact with live electrical parts (inside), contact made with the fire and hot parts or foreign substances being put in the fireplace.
- For the thermo fireplace to function properly installation must be carried out according to the instructions given in this booklet and the door must only be opened to refill the hearth with wood.
- Never put foreign substances in the hearth or in the tank
- No flammable products are to be used to clean the smoke outlet channel.
- The glass can be cleaned when COLD with a suitable product (e.g. GlassKamin) and a cloth. Do not clean when hot.
- The exhaust pipes and the door become very hot when the thermo fireplace is used.
- Do not place anything that is not heat resistant close to the thermo fireplace.
- NEVER use liquid fuel to ignite the thermo fireplace or to rekindle the embers.
- Do not obstruct the external air inlets in the room where the fireplace is installed or the air inlets of the thermo fireplace itself.
- Do not wet the thermo fireplace and do not go near the electrical parts of the system with wet hands.
- Do not use reducers on the smoke exhaust pipes.
- The thermo fireplace must be installed in a place that is suitable against fire hazards and equipped with all that is required (power and air inlets/outlets) for it to function properly and safely.

GENERAL SAFETY REGULATIONS

OPEN TANK

- The connections, commissioning and verification of proper operation of the fireplace must be carried out by qualified personnel, who can implement all connections in accordance with the laws in force, particularly with Italian D.M. 37 Law No. 46/90, apart from complying with these instructions.
- The thermo fireplace and the system are The safety pipe to the expansion tank must filled with water that flows from the water inlet pipe (the diameter must not be less than 18 mm) to the open expansion tank.
- All the vents of the radiators must be opened during this phase so as to prevent air pockets from forming in the system, which would obstruct the circulation of water.

- The open tank should be placed higher - In places that reach very low temperatures, than 3 m from the highest radiator and lower than 15 m from the thermo fireplace outlet.

- In any case, the tank must be high Connect the drains of the thermal relief enough to create a greater pressure than that produced by the pump (circulator).
- The system must never be filled directly from the water mains as the - The flow test of the system must be carried pressure may be greater than that stipulated on the data plate of the thermo fireplace.
- allow the water to flow freely, must not have taps and must be insulated properly.
- The water inlet pipe must not have taps nor curves.
- The maximum operating pressure must not exceed 1.5 bar
- The testing pressure is 3 bar.
- antifreeze liquid must be added to the WATER TREATMENT water in the system.
- Never ignite the fire in the thermo fireplace (not even as a test) unless the system is filled with water as this could cause irreparable damage.

- valve (TRV) and the safety valve (SV) (diagrams are found on the following pages).
- out with the expansion tank open.
- It is recommended to install a 6 bar safety valve on the hot sanitary water circuit so as to drain any excessive increase in the volume of the water in the heat exchanger.
- Place all the components of the system (circulator, heat exchanger, valves, etc.) in easily accessible points for routine and special maintenance procedures.
- It is recommended to prepare thermal insulation on the vaulted top part of the boiler.

- If need be, antifreeze, descaling and anticorrosive solutions are to be added to the water. A softener must be used if the hardness of the water used to refill and top-up the system exceeds 35°f (French degrees).

Please refer to UNI 8065-1989 standard (water treatment in domestic heating

CLOSED TANK additional regulations to those specified above (VALID ONLY FOR IDRO 50/CS)

- Be careful not to exceed 1.5 bar when filling the system.
- All the vents of the radiators must be opened during this phase so as to prevent air pockets from forming in the system, which would obstruct the circulation of water.
- Only if a thermal relief valve actuates the coil can the fireplace be installed on a CLOSED TANK system.
- Consider the necessity of installing another CLOSED TANK.
- Make sure the drain is connected to the coil and the power supply is at least 1.5 bar.
- The upstream pressure of the cooling circuit must be at least 1.5 bar (UNI 10412/2 point 6.2).

INSTALLATION INSTRUCTIONS

Important advice regarding the installation

Other than that described in this documentation, you are also asked to note the following UNI standards:

- No. 10683/2005 firewood heat generators: installation requirements
- No. 9615/90 calculating the internal dimensions of fireplaces
- No. 10412:2 hot water heating systems. Specific safety requirements for systems provided with residential solid fuel burning appliances and combined boiler, not exceeding a total nominal heat input of 35 kW.

Particularly:

- Before carrying out any assembly it is important to verify compatibility of the appliance, as stipulated in UNI 10683/2005 standard, paragraphs 4.1 / 4.1.1 / 4.1.2.
- When assembly is completed, the installer must implement "start-up operations" and issue documentation as required by UNI 10683/2005 standard in paragraphs 4.6 and 5, respectively.
- The connections, commissioning and verification of proper operation of the fireplace must be carried out by qualified personnel, who can implement the electrical and plumbing connections as required by UNI standards

10683/2005, paragraph 4.5 10412:2, apart from complying with these assembly instructions.

- Verification must be carried out with the fireplace on and after having been on for a couple of hours, before covering the fireplace, so that you can intervene if need be. After which, the finishing operations such as:
- setting-up the fireplace mantel
- mounting the fireplace covering

- pilasters, painting, etc. are carried out, once the tests are completed successfully.
Consequently, Italiana Camini does not

accept responsibility for expenses deriving from demolition as well as construction even if either occurs as a result, after having replaced any damaged parts of the fireplace.

External air inlet (optional)

An external connection with a 10 cm diameter crosssection throughout (refer to the technical table) is absolutely necessary for the thermo fireplace to function properly and is therefore imperative for this to be implemented.

This connection must link the air adjustment mechanism (E), delivered separately. It can be installed on either the left side or the right side of the thermo fireplace.

This can be made of a flexible aluminium

Ensure that the points where there may be dispersion of air are sealed well.

The air adjustment mechanism (E) can be removed and mounted on the right side of the thermo fireplace.

It is recommended to place a protection grille on the outer part of the air inlet channel, however, ensure that this does not reduce the cross-section.

For distances longer than 3 m or with bends, increase the given cross-section by a minimum of 10% to a maximum of 20%.

The intake of external air must enter at floor level (it cannot enter from above).



Chimney flues and chimneypot

The thermo fireplace smoke outlet has a circular crosssection so that stainless steel pipes can be used.

If the chimney flue inlet is not vertically above the thermo fireplace, the connection from the fireplace to the flue must not have a narrowing section or inclinations greater than 45° (fig.A 1 2 3).

If the chimney flue is not brand new or too big, it is recommended to fit in stainless tubes of an appropriate diameter and with suitable insulation.

If the chimney flue is installed outside, it is recommended to use an insulated, double walled, stainless steel flue.

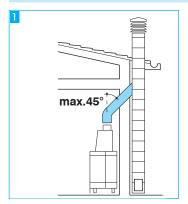
The characteristics of the construction must be suitable to withstand a smoke temperature of at least 450° C, with particular reference to the mechanical resistance, insulation and the gas tight sealing.

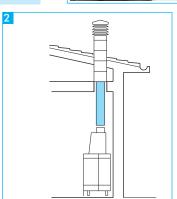
The junction of the steel flue inlet and the smoke outlet of the fireplace must be sealed with high temperature mastic.

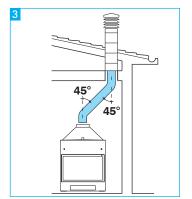
The fundamental characteristics of the chimneypot are:

- an internal cross-section at the base, which is the same as that of the chimney flue.
- an outlet cross-section which is no smaller than twice that of the chimney flue.
- its position must be high enough to catch the wind and avoid downdraft areas in turbulent wind.

In addition to that mentioned above, please consider the indications stipulated in UNI 10683/2005 standard, paragraph 4.2: "connection to the smoke outlet system" and its subsections.







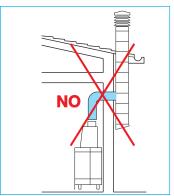


fig.A

INSTALLATION AND USE INSTRUCTIONS

Transporting the fireplace

In order to facilitate transportation, the fireplace can be made lighter by removing the following:

- the base of the hearth and the ash grill made of cast iron and the ash-pan.
- the door.

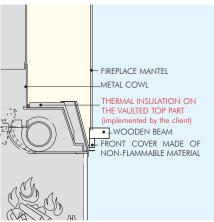
Fireplace

To decide upon the exact positioning of the fireplace, it is important to verify which covering will be applied.

The positioning is implemented according to the model chosen (refer to the installation instructions found inside the packaging of each fireplace covering).

Always ensure the thermo fireplace is level during the installation process.

- Drill a hole into the wall or the flooring for the external air intake and connect the air adjustment mechanism to the hole as described in the chapter called "external air inlet".
- Use a stainless steel flue to connect the fireplace to the chimney flue, adhering with the diameters indicated in the specifications table and the guidelines given in the chapter called "chimney flues".
- Verify that all moving parts function properly before setting the thermo fireplace covering in place.
- This system must be tested and ignited for the first time before the covering is set in place.



Installation of the fireplace covering, fireplace mantel and ventilation outlets (Fig. F)

The base of the fireplace covering must allow the internal air to be recycled. Failing to do so, the fireplace will not function properly with possible smoke backflow.

Therefore, suitable slots or apertures must be made for the air to pass through.

Parts of the fireplace covering that are made of marble, stone and bricks must be mounted with a small gap between them and the fireplace so as to prevent possible breakage due to expansion and excessive overheating.

Wooden parts must be protected by fire resistant panels and no part must touch the thermo fireplace,

on the contrary, there must be an appropriate distance of at least 1 cm to allow the air to flow, preventing heat accumulation.

The fireplace mantel can be made of fireproof plasterboard panels or gypsum board.

Air should be allowed to flow inside the fireplace mantel (through the gap between the door and the beam). Through convective motion, the air will flow out from the grille installed at the top, resulting in heat recovery and preventing excessive overheating.

The fireplace mantel must have appropriate openings to carry out maintenance on the fittings.

In addition to that mentioned above, please consider the indications stipulated in the UNI 10683/2005 standard, paragraphs 4.4 and 4.7: "insulation, finishing, fireplace covering and safety recommendations".

Insulating mats must be applied when using an installation KIT so as to protect it from the heat radiation emitted by the fireplace.

Important advice when using the fireplace

- It is important to ensure that there is water in the thermo fireplace and the system before igniting the fireplace. It is recommended to connect the inlet and outlet pipes as shown in the diagrams.
- The maximum operating pressure must not exceed 1.5 bar
- The Company is responsible for the proper functioning of the product only if this is handled in accordance with the documentation supplied with the product itself.
- First ignition (or re-igniting): remove any ash residue from the hearth.

Practical advice

- It is recommended to keep the radiators closed in the room where the thermo fireplace is installed since the heat radiated from the opening of the fireplace itself is enough.
- An incomplete combustion process causes excessive fouling on the heat exchanger pipe. To prevent this you must:
- burn dry wood.
- ensure the hearth contains a bed of embers and burning carbon before adding more wood.
- place larger logs together with smaller ones.

Igniting the fireplace

- Ensure that at least one radiator is always open.
- Actuate the switches of the electronic regulator.
- Place a pile of medium-thin dry wood in the thermo fireplace and ignite the fire.
- Wait a few minutes until it reaches sufficient combustion.

- Close the door
- Adjust the combustion setting via the damper control at the front.
- Set the thermostat on the electronic regulator (*) at a temperature between 50 and 70° C.
- The 3-way valve (*) diverts the water flow directly to the thermo fireplace; when the set temperature is reached, the 3- way valve (*) diverts the flow to the system.
- When the door is closed, the damper by-pass automatically diverts the combustion smoke, thus improving the efficiency.
- When the door is opened, the damper bypass opens automatically, allowing the smoke to reach the smoke flue directly, preventing it from coming out of the inlet.
- (*) these components of the system are to be provided by the installer.

During the combustion process

If the water temperature exceeds 90° C because of too much wood being placed in the hearth, the thermal relief valve will be activated and the acoustic signal heard.

In this case you must proceed as follows:

- Wait until the temperature is lower than 80° C; check the warning lights on the electronic regulator.
- The hot water tap can be opened to speed up the cooling process if the thermo fireplace is equipped with hot sanitary water.

Adjusting the air

- The damper control found on the external air inlet (refer to Fig. 1 on pg. 6), regulates the amount of primary air that is necessary for the combustion process. Pushing the knob will close the external air inlet and pulling the knob will open it.

Maintenance

Cleaning the hearth

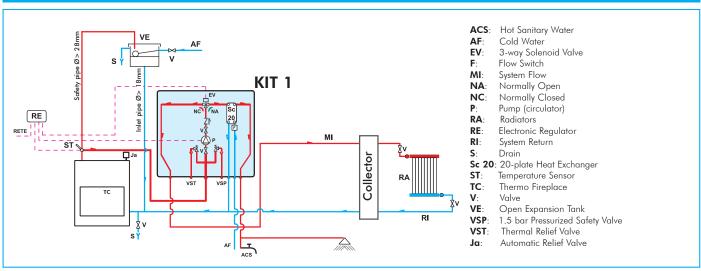
- Fouling that tends to accumulate on the internal walls of the thermo fireplace decreases the efficiency of heat transfer.
- It is therefore necessary to clean the fireplace regularly, by bringing the water temperature to $80\ /\ 85^\circ$ C to soften the fouling and then remove this with a steel spatula.

Cleaning and replacing the glass

- Use an appropriate spray for ceramic glass to clean the glass.
- The glass must be cleaned when cold.
- If the glass must be replaced, remove the self-tapping screws and fibreglass gasket before removing the glass holder profiles.
- Ensure the gasket is inserted in place before setting the glass back in place.
- * optional components

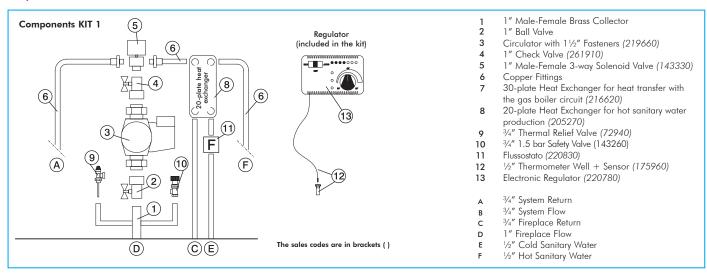
AN EXAMPLE OF A HYDRAULIC SYSTEM FOR A THERMO FIREPLACE WITH HOT SANITARY WATER PRODUCTION

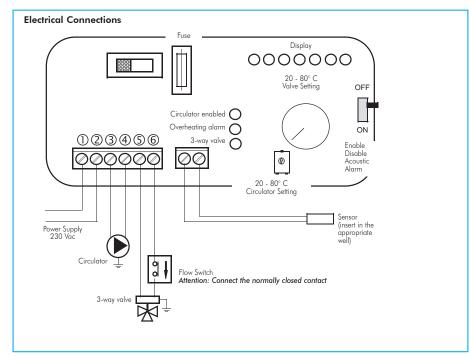




Kit 1 is designed to facilitate the work carried out by the installers. In fact, it consists of all the necessary components for the product to be properly installed.

NB: insulating mats must be applied so that the components of the kit are well-protected from the heat radiation emitted by the fireplace.





SELECTOR FUNCTIONS

Selector: OFF Everything is switched off
Selector: MAN Driven Circulator
Valve is set
Selector: AUTO Circulator is set

Alarm selection No acoustic signal in the

Valve is set No acoustic s OFF position

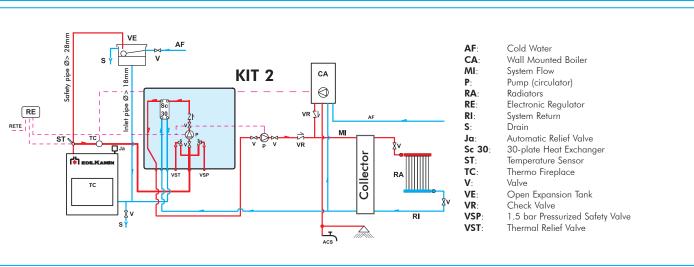


KIT 1 code 261880

THE INLET AND OUTLET PIPES MUST BE CROSSED FOR THE KIT TO FUNCTION PROPERLY

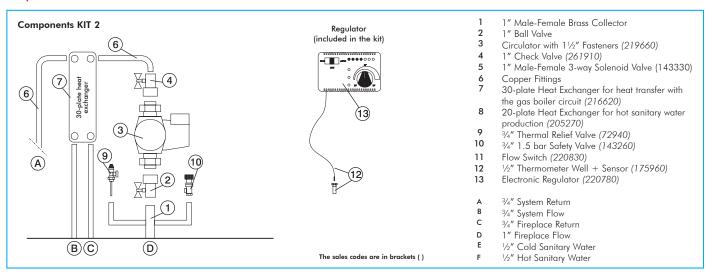
AN EXAMPLE OF A HYDRAULIC SYSTEM FOR A THERMO FIREPLACE THAT DOES NOT PRODUCE HOT SANITARY WATER BUT HAS A WALL MOUNTED BOILER

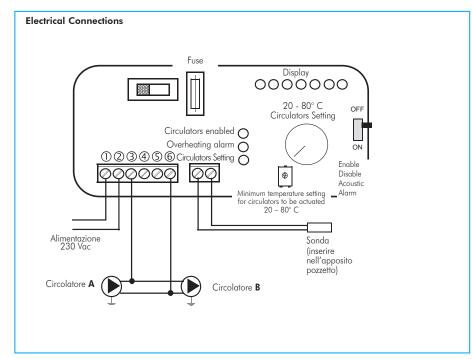
USING KIT 2



Kit 2 is designed to facilitate the work carried out by the installers. In fact, it consists of all the necessary components for the product to be properly installed.

NB: insulating mats must be applied so that the components of the kit are well-protected from the heat radiation emitted by the fireplace.



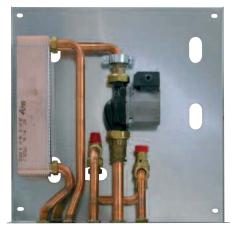


SELECTOR FUNCTIONS

Selector: OFF
Selector: MAN
Driven Circulator
Valve is set
Selector: AUTO
Circulator is set
Valve is set

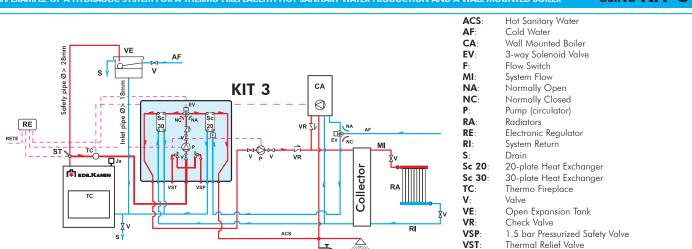
Alarm selection
No acoustic signal in the

OFF position



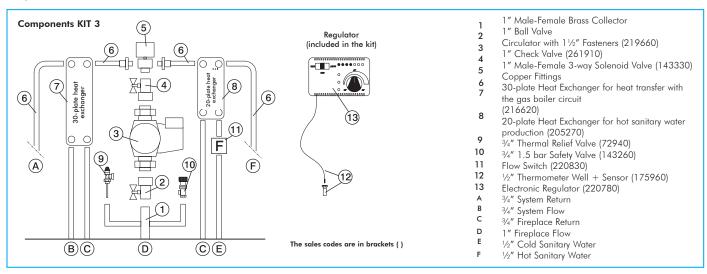
KIT 2 code 261890

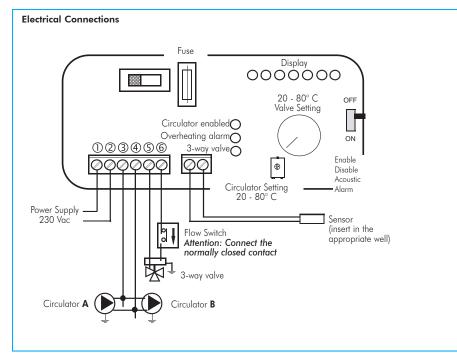
USING KIT AN EXAMPLE OF A HYDRAULIC SYSTEM FOR A THERMO FIREPLACEITH HOT SANITARY WATER PRODUCTION AND A WALL MOUNTED BOILER



Kit 3 is designed to facilitate the work carried out by the installers. In fact, it consists of all the necessary components for the product to be properly installed.

NB: insulating mats must be applied so that the components of the kit are well-protected from the heat radiation emitted by the fireplace.





SELECTOR FUNCTIONS

VST: Ja:

Automatic Relief Valve

Selector: OFF Everything is switched off Selector: MAN Driven Circulator Valve is set Selector: AUTO Circulator is set Valve is set

Alarm selection No acoustic signal in the

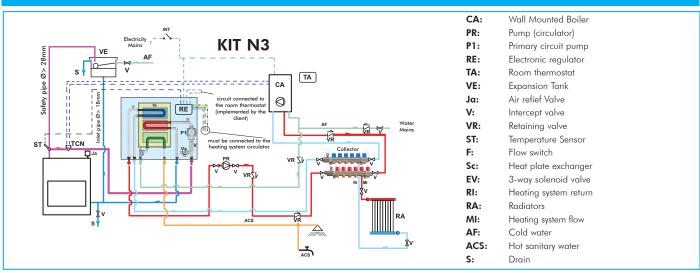
OFF position



code 261900

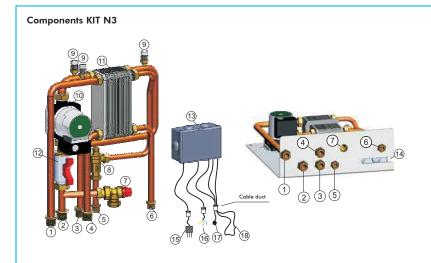
THE INLET AND OUTLET PIPES MUST BE CROSSED FOR THE KIT TO FUNCTION PROPERLY

AN EXAMPLE OF A HYDRAULIC SYSTEM FOR A THERMO FIREPLACEITH HOT SANITARY WATER PRODUCTION AND A WALL MOUNTED BOILER USING KIT N3

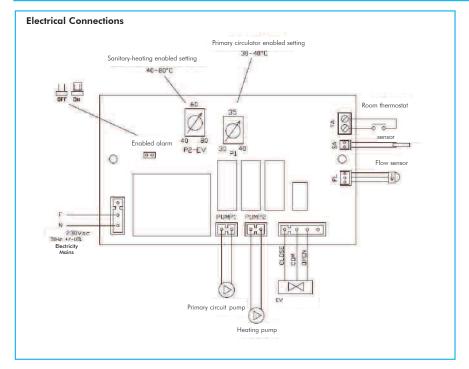


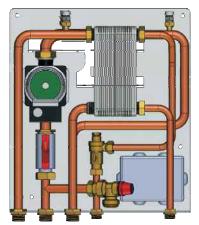
Kit N3 is designed to facilitate the work carried out by the installers. In fact, it consists of all the necessary components for the product to be properly installed.

NB: insulating mats must be applied so that the components of the kit are well-protected from the heat radiation emitted by the fireplace.



- 1 Heating system return G 3/4"
- 2 EDILKAMIN generator flow G 3/4"
- B EDILKAMIN generator return G 3/4"
- 4 Heating system flow G 3/4"
- 5 Cold sanitary water inlet G 1/2"
- 6 Hot water return to the sanitary system G 1/2"
- 7 Safety valve temperature and pressure (90 °C 3bar)
- 8 Flow Switch
- 9 Air relief valve G 3/8"
- 10 EDILKAMIN generator circuit circulator
- 11 3-way heat exchanger
- 12 Intercept valve G 1"
- 13 Electronic regulator with wiring
- 14 Appropriate aperture for the cable duct to pass through
- 15 Power cable
- 16 Cables for the heating system circulator (phase, neutral, earth)
- 17 Temperature sensor
- 18 Room thermostat circuit





KIT N3 code 627690

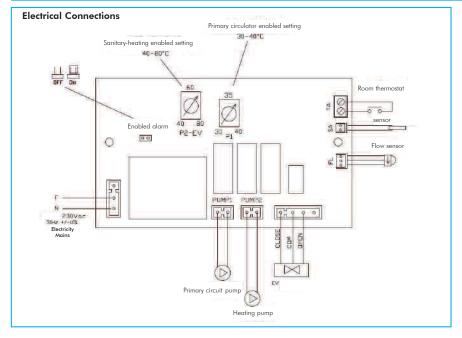
USING KIT N3 BIS AN EXAMPLE OF A HYDRAULIC SYSTEM FOR A THERMO FIREPLACE WITH HOT SANITARY WATER PRODUCTION AND A WALL MOUNTED BOILER CA Wall Mounted Boiler **P2** Pump (circulator) Р1 Primary circuit pump RE KIT N3 BIS Electronic regulator TΑ Room Thermostat pipe Ø> VE TA Expansion Tank Air Relief Valve Ja 0 ٧ Safety Intercept valve VR Retaining valve ST Temperature Sensor Flow switch Heat Plate Exchanger Sc VR TI ΕV 3-way Solenoid Valve RI Heating system return RA Radiators ΜI Heating system flow ΑF Cold Water ACS Hot Sanitary Water Drain INT Main switch **TCN** Contact Thermostat

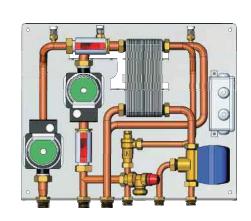
Kit N3 BIS is designed to facilitate the work carried out by the installers. In fact, it consists of all the necessary components for the product to be properly installed.

NB: insulating mats must be applied so that the components of the kit are well-protected from the heat radiation emitted by the fireplace.



- 1 Heating system return G 3/4"
- 2 EDILKAMIN generator flow G 3/4"
- 3 EDILKAMIN generator return G 3/4"
- 4 Heating system flow G 3/4"
- 5 Cold sanitary water inlet G 1/2"
- 6 Hot water return to the sanitary system G 1/2"
- 7 Sanitary hot water inlet to the gas boiler G 1/2"
- 8 Safety valve temperature and pressure (90 $^{\circ}\text{C}$ 3bar)
- 9 Flow Switch
- 10 3-way deviation solenoid valve
- 11 Air relief valve G 3/8"
- 12 EDILKAMIN generator circuit circulator
- 13 Heating system circuit circulator
- 14 Intercept valve G 1"
- 15 3-way heat exchanger
- 16 Electronic regulator with wiring
- 17 Appropriate aperture for the cable duct to pass through
- 18 Power cable
- 19 Temperature sensor
- 20 Room thermostat circuit



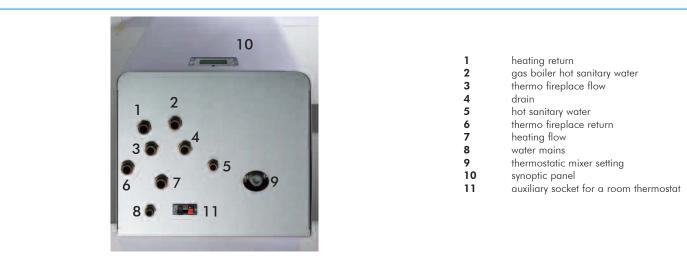


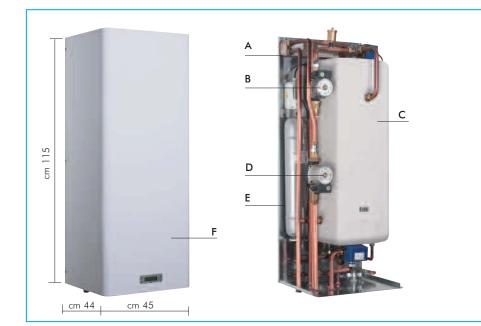
KIT N3 BIS

code 627860

AN EXAMPLE OF A HYDRAULIC SYSTEM FOR A THERMO FIREPLACE THAT PRODUCES AND STORES HOT SANITARY WATER AND HAS A WALL MOUNTED BOILER ACS: Hot Sanitary Water **IDROKIT** AF: Cold Water AL: Water Mains Supply Filling/Top-Up Section C: CE: Electronic Panel 3-way Solenoid Valve EV:)ec NA: Normally Open NC: Normally Closed Safety pipe Ø> 28mm Inlet pipe Ø> 18mm GR: Pressure Reducer 0 Automatic Relief Valve Ja: Manual Relief Valve Jm: System Flow MI: MT: Thermostatic Mixer Pump (circulator) RA: Radiators RI: System Return S: Drain Collector SC30: 30-plate Heat Exchanger ST: Temperature Sensor TC: Contact Thermostat Vec TM: Thermo Fireplace Ball Valve V: Vea: Open Expansion Tank Vec: Closed Expansion Tank ACS VR: Check Valve VSPT: Safety Pressure and Temperature Valve

IDROKIT is designed to facilitate the work carried out by the installers. In fact, it consists of all the necessary components for the product to be properly installed.





- A 30-plate Heat Exchanger
- **B** primary circulator (in the wood-fired version)
- C 50-litre boiler
- **D** heating system circulator
- **E** closed expansion tank
- F fireplace covering for exposed installation

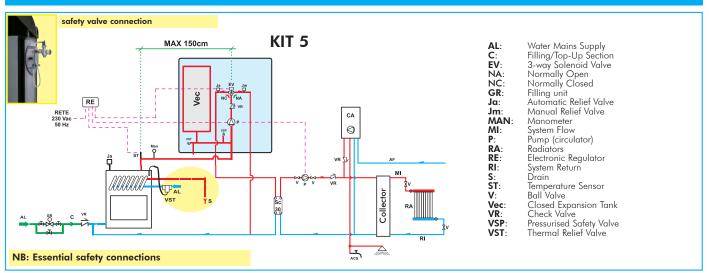
IDROKIT code 601740

SYSTEM FOR A CLOSED TANKINSTALLATION

(VALID ONLY FOR IDRO 50/CS)

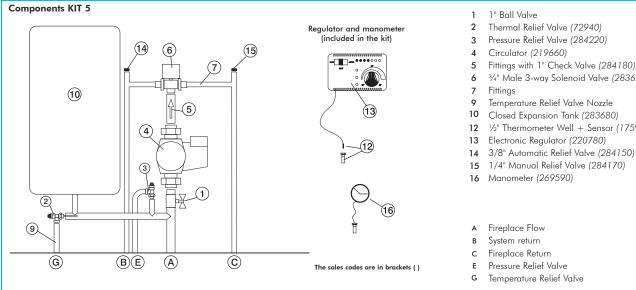
AN EXAMPLE OF A HYDRAULIC SYSTEM FOR A THERMO FIREPLACE - ONLY HEATING





Kit 5 is designed to facilitate the work carried out by the installers. In fact, it consists of all the necessary components for the product to be properly installed.

NB: insulating mats must be applied so that the components of the kit are well protected from the heat radiation emitted by the fireplace.



- Thermal Relief Valve (72940)
- Pressure Relief Valve (284220)
- Fittings with 1" Check Valve (284180)
- 3/4" Male 3-way Solenoid Valve (283690)
- Temperature Relief Valve Nozzle
- Closed Expansion Tank (283680)
- 1/2" Thermometer Well + Sensor (175960)
- Electronic Regulator (220780)
- 1/4" Manual Relief Valve (284170)

Electrical Connections Fuse Display 000000 20 - 80° C Valve Setting OFF Circulator enabled Overheating alarm 3-way valve 023456 Enable 00 **®** Disable Acoustic 20 - 80° Circulator Setting Sensor (insert in the Power Supply 230 Vac appropriate well)

SELECTOR FUNCTIONS

Selector: OFF Everything is switched off

Selector: MAN Driven Circulator

Valve is set

Selector: AUTO Circulator is set

Valve is set

Alarm selection No acoustic signal in the

OFF position



KIT 5

code 280590

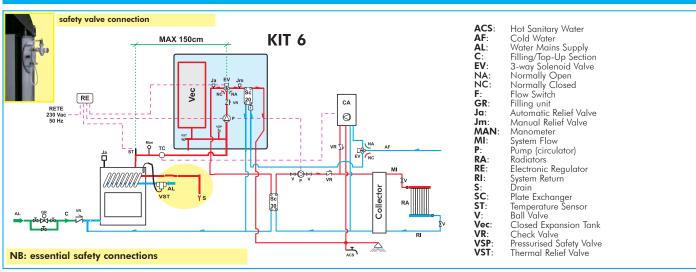
Circulato

SYSTEM FOR A CLOSED TANKINSTALLATION

(VALID ONLY FOR IDRO 50/CS)

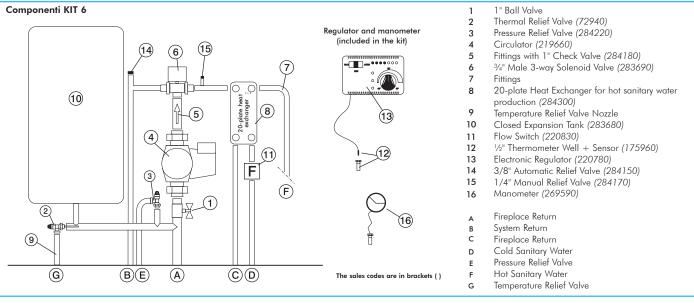
AN EXAMPLE OF A HYDRAULIC SYSTEM FOR A THERMO FIREPLACE WITH HOT SANITARY WATER PRODUCTION

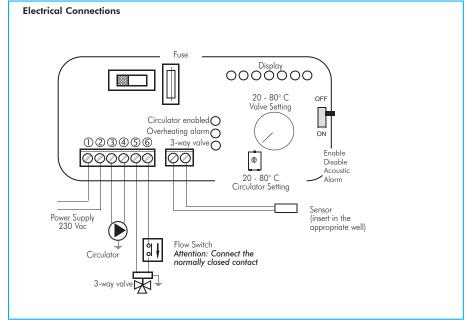
USING KIT 6



Kit 6 is designed to facilitate the work carried out by the installers. In fact, it consists of all the necessary components for the product to be properly installed.

NB: insulating mats must be applied so that the components of the kit are well protected from the heat radiation emitted by the fireplace.





SELECTOR FUNCTIONS

Selector: **OFF** Everything is switched off

Selector: MAN Driven Circulator

Valve is set

Selector: **AUTO** Circulator is set

Valve is set

Alarm selection No acoustic signal

m selection No acoustic signal in the

OFF position



KIT 6 code 280600

ELECTRONIC REGULATOR (KIT 1-2-3-5-6)

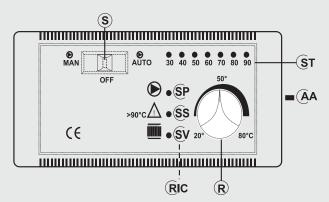
electronic regulator

IMPORTANT ADVICE REGARDING THE INSTALLATION

The connections, commissioning and verification of proper operation of the fireplace must be carried out by qualified personnel, who can implement all connections in accordance with the laws in force, particularly with Italian Law No. 46/90, apart from complying with these instructions.

Compliance with regulations regarding the earth connection is fundamental for the safety of people.

It is obligatory to install a differential circuit breaker switch before the device and the entire electrical circuit of the thermo fireplace. It is also obligatory to connect the pump, valve and metal parts of the thermo fireplace to an earthing system.



LEGEND

AA acoustic alarm switch

R way valve opening setting (KITS 1-3-5-6)

R circulators operation setting (KIT 2)

RIC internal pump setting

S MAN-OFF-AUTO selector

SP pump light

SS overheating light

ST temperature scale

SV 3-way valves light (KITS 1-3-5-6)

SV circulators setting (KIT 2)

fig. M

Technical Data		
Power Supply (+15 – 10%)	Vac	230
Degree of protection	IP	40
Min/Max Room Temperature	°C	0 to +50
Sensor range	m	1,2
Thermometer	°C	30 to 90
Maximum contact rating of the circulator	W	400
Maximum contact rating of the 3-way valve	W	250
Fuse	mA	500

The electric control regulator allows you to monitor the operating conditions and is equipped with:

- MAN-OFF-AUTO selector (S)
- temperature scale (ST)
- acoustic alarm (AA)
- 3-way valve opening setting (**R**) (KIT1-3)
- circulators operation setting (R) (KIT2)
- internal pump setting (RIC)
- 3-way valve light (SV) (KIT1-KIT3)
- circulators setting light (SV) (KIT2)
- overheating pump (SS)
- pump light (SP)

Operation

- Control device:
 - Thermometer
- Protection device

(acoustic alarm system):

- Acoustic alarm (AA)
- •Overheating alarm (SS)

This system intervenes when the water temperature exceeds 90° C and warns the user to stop adding fuel.

The acoustic alarm can be disabled from the switch (AA).

However, the alarm remains enabled by means of the

overheating light (SS).

To restore the initial settings, the switch (AA) must be enabled after the water temperature in the thermo fireplace has cooled down.

- Power supply device

(circulation system):

- MAN-OFF-AUTO selector (S)
- Pump light (SP)

The pump remains on when in manual mode and off when in

OFF mode. When in **AUTO** mode, the pump is activated by the system when the desired temperature is reached, by means of the internal setting **(RIC)**, which ranges from 20 to 80° C (this is pre-set at 20° C).

Operation device (setting system):

- •3-way valve opening setting (R)
- •3-way valve operating light (SV)

When the fluid reaches the temperature set through the regulator, the 3-way valve diverts the fluid to the radiators and the operating light **(SV)** goes on.

When the temperature of the fluid drops below the set value, the system opens the electrical circuit and the 3-way valve bypasses the fluid directly to the thermo fireplace.

Attention:

During normal operation check that the warning lights (SV) and (SP) are lit.

Positioning

The electronic regulator must be installed close to the thermo fireplace.

The sensor of the operation, protection and control devices must be placed.

directly on the thermo fireplace or at most on the flow pipe, no more than 5 cm away from the thermo fireplace and in any case before any intercepting device.

The sensor must be immersed in the well.

Installation

Follow this procedure to install the electronic regulator correctly: loosen the fastening screw, remove the cover and fasten it in place against the wall with the dowels supplied.

Then make the connections, paying utmost attention to the wiring diagram and pass the wires through ducts that are in conformity with the regulations in force. Put the cover back in place and tighten the screw.

The power supply must be disconnected from the mains and the AUTO-OFF-MAN selector (S) must be in the OFF position when all these operations are carried out.

Connect the brown wire (phase) and blue wire (neutral) of the 3-way Valve, respectively, to terminals 5 and 6 of the regulator.

Connect the yellow/green wire to the earth.

Follow the assembly instructions contained in the package to connect the regulator to the system properly.

ACCESSORIES

ELECTRONIC REGULATOR (Optional)

This lets you monitor the operating conditions and is equipped with:

- MAN-OFF-AUTO selector
- temperature scale
- acoustic alarm
- 3-way valve opening setting
- internal pump setting
- pump light
- 3-way valve light
- overheating light



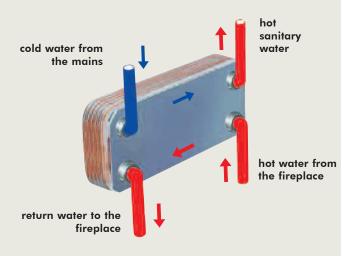
Electronic Regulator (220780)

HEAT EXCHANGER FOR SANITARY WATER (Optional)

This is a very simple and inexpensive device with guaranteed performance that produces 13-14 litres of hot water per minute.

It is easily installed on the flow pipe to the radiators, in the most suitable position according to the layout of the system.

Alternatively, it can be purchased as part of installation KITS 1/3/6 offered by Italiana CAmini. This has the great advantage of being removed for maintenance or replacement without affecting the thermo fireplace.



The electronic regulator and the plate exchanger are included in the installation KITS (supplied as optional extras)



Valves Kit (421600) consisting of: automatic air relief valve, 1.5 bar safety valve, 90 ° C thermal relief valve



1 " 3-way valve (143330) to set the water flow to the system



Electronic Regulator (220780)



Flow Switch (220830)



Circulator UPS 25-50 code 219660 UPS 25-60 code 238270



20-plate Heat 30-plate Heat Exchanger for sanitary Exchanger for sanitary water (262570) water (216620)



Exchanger 3-way code 627780



Roaster Idro 50-70 cod. 234560 Idro 100 cod. 236710