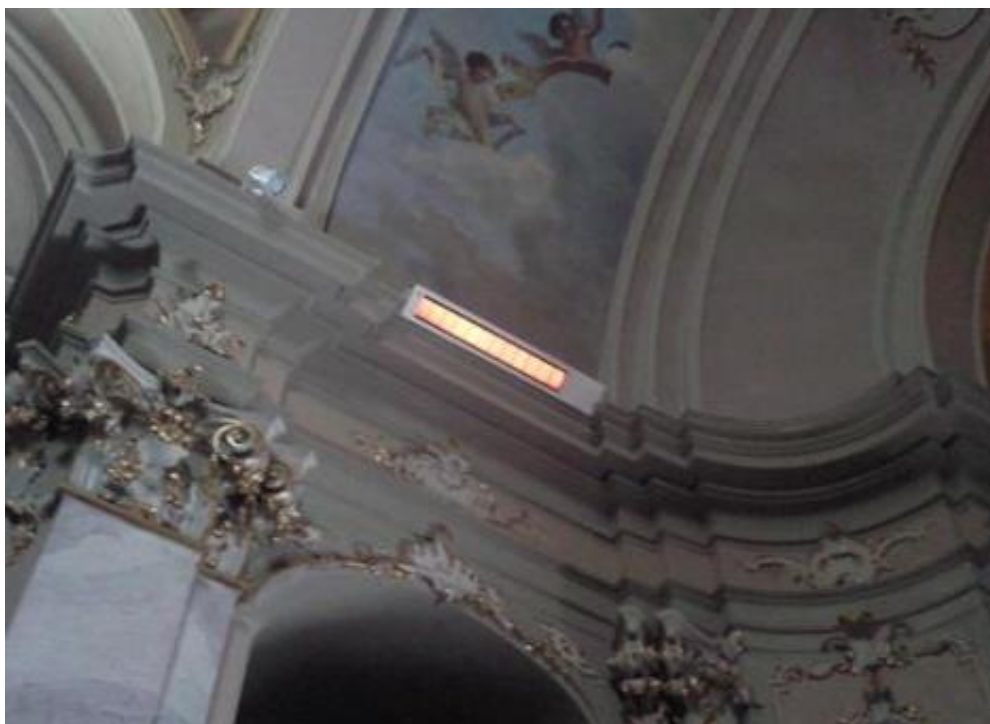


Luminous Infra-red Gas Heaters class B



INSTALLATION, RUNNING, MAINTENANCE INSTRUCTIONS



Models: 8P, 12P

Version "STANNUM B"

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GENERAL INSTRUCTIONS for INSTALLER, USER and MAINTENANCE PERSONNEL

Thank you for your preference and trust granted! SIABS is pleased to have You among his Customers; our appliances are designed and manufactured to the most modern and rational processing systems and we do think that their use will be fully satisfactory.

To keep appliances perfectly working and safe, time passing, we invite you to **read and follow the instructions** of this handbook and **commit all installation and maintenance (ordinary and extraordinary) operations only to skilled personnel**, with specific technical skills in the field of components of heating, preferably to SIABS authorized Service Centre.

For the INSTALLER:

- **read carefully the warnings** in the manual **before performing any operation** as they provide important information concerning the safety of installation, use and the necessary maintenance operations to be performed
- this manual is integral and essential part of the product and **must be delivered to the user; retain it carefully for further consultations**
- **in case of non-compliance with the following instructions, the warranty covering the product(s) will be null and void**
- **BEFORE THE INSTALLATION**, verify that local gas distribution (type of gas and pressure) and appliance settings are compatible
- appliance must be **installed only in premises with adequate ventilation**
- installation should be done in **accordance with the Regulations in force** in the country of destination, to the state of art, following instructions by the Manufacturer
- **incorrect installation can cause damage** to people, animals and things; the Manufacturer doesn't accept any contractual and extra-contractual liability in tort and contract for damages caused by errors in installation and use
- use only original accessories and modification kits
- after you have removed all items from packing box, **make sure that all components have been included and their integrity**, in case of doubt not use the appliance and contact the Manufacturer; elements of packaging are potentially dangerous: therefore should not be left within the reach of children and must be disposed according to regulations in force
- before any cleaning or maintenance operation, **wait until the appliance is cold, disconnect it from the electricity supply and bring the fuel shut-off valve in the closed position**

For the USER and OWNER of the plant:

- this manual is integral and essential part of the product and **must be delivered to the user; retain it carefully for further consultations**
- **in case of non-compliance with the following instructions, the warranty covering the product(s) will be null and void**
- use only original accessories and modification kits
- in case of failure and/or malfunction of the appliance, turn it off refraining from any attempt to repair or direct intervention; **contact SIABS authorized Service Centre**
- when you decide to stop using the appliance, for **DISPOSAL or RESALE**, you will have to render harmless all parties which can be a source of potential danger; **the technical manual is integral and essential part of the product: it must be preserved and accompany the appliance in case of property change, so that it can be consulted by the new user and / or maintenance staff.**

STANDARDS

The European standards for the STANNUM heaters are the following:

- **UNI EN 419-1_2009_EEN**, the standard specifies the requirements and test methods for the manufacturing, safety, classification and marking of overhead gas luminous radiant heating equipment, for non-domestic use used for environmental comfort, that include an atmospheric burner system.

- **UNI EN 1266: 2007**, the standard defines the requirements and test methods for manufacturing, safety, marking and rational use of energy of independent gas convection heating appliances that are equipped with atmospheric burners with fan or pre-mixed burners. In the scope of application of the standard are indicated the type of equipment that need to comply.

These European standards fall within the scope of Directive 90/396 / EEC for gas appliances.

FOR YOUR SAFETY



In case of gas smell: DO NOT operate the heating plant, vent the ambient, DO NOT start apparatus or electric switches; contact the installer and gas supply company and follow scrupulously their instruction

IMPORTANT: appliances **MUST NOT be used in domestic environments.** This unit will be devoted only to the use for which it was expressly provided, **all other uses will be considered improper and therefore dangerous.**

IMPORTANT: appliances **MUST NOT be used in ambient with flammable materials, liquids or vapours:** non-compliance with these requirements may be cause of death, injury to persons or damage to things.

Warranty

SIABS guarantees its products, whether installed by authorized personnel, for a period of 24 months from the invoice date. The warranty does not cover the components supplied by third parties, these are subject to the conditions of the original warranty.

The guarantee is only the free supply on Ex-Works basis, of parts with manufacturing or workmanship defects.

The guarantee does not cover problems due to carelessness, incorrect setting, misuse of the appliance or fortuitous accidents, and not dependent on imperfection processing or defective materials, and those due to dismantling or changes without prior authorization from SIABS.

The correct functioning of the appliances depends on a proper installation and start-up. Failure to comply with these rules immediately involves the decay of the guarantee, and therefore of responsibility by the manufacturer.

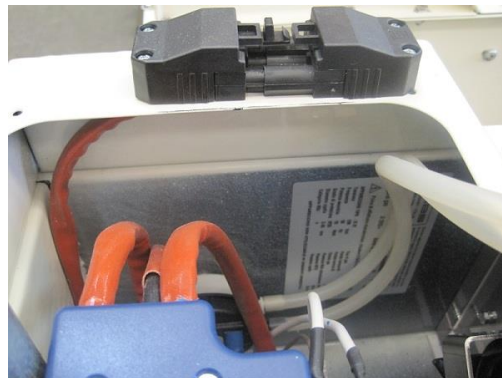
TECHNICAL DATA PLATE

On each unit you will find a plate of technical data (Pic. 1) – **do not remove** – this is positioned on the enamelled casing, close to the gas group (Pic. 2).

The STANNUM radiant heater is classified as type B22 appliance, the B2 type means it is equipped with a fan downstream the combustion chamber / burner.

B22 type, gas category II 2H3+

		Questo apparecchio deve essere installato secondo le norme in vigore. Deve esser utilizzato soltanto in ambienti ventilati, in conformità con i requisiti della norma EN 13410. Consultare le istruzioni prima di installare o utilizzare questo apparecchio.	
Modello	STANNUM 8P	Codice PIN	0476CT2372
Categoria gas	II 2H3+	B22 Paese destinazione	IT
		0476/18	
Prima di effettuare manutenzioni, chiudere il GAS e staccare la CORRENTE			
Tensione 230 Volt Frequenza 50 Hz Potenza assorbita 70 Watt Grado di protezione IP20 Diametro ugello 2.80 mm Categoria NOx 5		Tipo di gas G20 Portata termica Hs 12.24 kW Portata termica Hi kW Portata gas 1.31 kg/h Pressione MAX alimentazione 20 mbar Pressione RETE 20 mbar Pressione ugello 16 mbar	
APPARECCHIO NON UTILIZZABILE IN AMBIENTI DOMESTICI			



Pic. 1 – technical data plate

Pic. 2 – technical data plate

Data plate label (example: appliance STANNUM 12P, G20)

Essential characteristics of the appliance are given on the packaging label placed outside on the cardboard box.

		0476	
www.siabs.com Tel. +39 02 90384081			
PAESI DI DESTINAZIONE: ITALIA CATEGORIA GAS: II 2H3+ B22		Gas: (metano)G20 20 mbar	
Diffusore radiante: STANNUM 8P			
Potenza termica Hs : 13,5 kWatt			
COLORE: AVORIO			
		Questo apparecchio deve essere installato secondo le norme in vigore. Deve esser utilizzato soltanto in ambienti ventilati, in conformità con i requisiti della norma EN 13410. Consultare le istruzioni prima di installare o utilizzare questo apparecchio.	
		8 057014 801729	

TECHNICAL DATA

Heater model		STANNUM B	8P	12PR	12P
Ceramic plates		nr.	8	12	12
Electrical feeding			230 Volt - single phase		
Frequency		(Hz)	50		
MAX feeding pressure		mbar	50.0		
Gas group (valve + control flame)		nr.	1	1	1
Gas connection			1 x 1/2"	1 x 1/2"	1 x 1/2"
Absorbed power, control flame		(Watt)	1 x 25	1 x 25	1 x 25
Absorbed power, fan motor		(Watt)	1 x 45	1 x 45	1 x 45
Absorbed power, TOTAL		(Watt)	70	70	70
NOx class			5	5	5
Heater					
	weight	(kg)	30,0	35,0	35,0
	length	(mm)	1100	1500	1500
	width	(mm)	260	260	260
	height	(mm)	270	270	270
M/F sleeve for flexible pipe connection			D int = 86mm x H = 140mm		
Flexible pipe supplied			D = 80mm x L = 3000mm MAX		
Fan box					
	weight	(kg)	7,0	7,0	7,0
	length	(mm)	280	280	280
	width	(mm)	160	160	160
	height	(mm)	240	240	140
Flues suction sleeve		(mm)	80	80	80
Flues blower sleeve		(mm)	80	80	80
GAS G20					
Heat Input (Hs)		(kW)	13,5	18,9	22,2
Heat input (Hi)		(kW)	12,2	17,0	20,0
Gas supply pressure		(mbar)	20,0	20,0	20,0
Nozzle pressure MAX		(mbar)	16,0	12,0	16,0
Gas consumption MAX		(m ³ /h)	1,31	1,85	2,13
Nozzle diameter		(mm)	2,80	3,40	3,40
GAS G30 - G31					
Heat input (Hs)		(kW)	11,4	-	17,3
Heat input (Hi)		(kW)	10,5	-	16,0
Gas supply pressure		(mbar)	28,0 - 30,0 / 37,0		
Nozzle pressure MAX		(mbar)	-	-	-
Gas consumption MAX		(m ³ /h)	0,42	-	0,64
Nozzle diameter		(mm)	1,60	-	2,05

IMPORTANT: "GAS supply pressure", defined as the dynamic pressure of the circuit, or part of the circuit downstream of the pressure reducer, with all the appliances running, and must be detected in this condition. With lower pressure difficulties in start-up may occur.

INSTALLATION

General warnings

The appliance must be installed (positioned, connected to the gas and electrical network) according to the national and local regulations in force.

IMPORTANT: for the safety of the user, and good functioning, the appliance must be connected to an efficient grounding system, made in accordance with the regulations in force in the country of installation. Under no circumstances the gas connection piping can be used as a grounding system for the appliance.

This device cannot be used by people (including children) with reduced physical, sensory, mental or poor technical knowledge, unless they are instructed on the use of the device by the person who is responsible for the safety of the device.

Ventilation of the ambient



Appliances must be installed in well-ventilated and manned ambient, in compliance with current legislation.

IMPORTANT: comply with the type B appliances legislation in force

Supplied materials

The supply includes the following materials and accessories:

- nr. 1 radiant heater series STANNUM, with enamelled casing complete with sleeve fixing for stainless steel hose and electronic components on board (pressure switch, valve, control unit)
- nr. 1 double wall AISI 316 stainless steel hose D = 80mm x L = 3000mm
- nr. 1 flues extraction box 230 Volt - 50 Hz complete with fixing sleeve
- nr. 1 horizontal flue gas exhaust terminal D = 80 x L = 1000mm, windproof / rainproof, complete with canopy
- nr. 1 set radiant heater fixing (4 spacers and 2 brackets)

NOTE - All materials supplied are CE certified by an approval authority



HANDLING

We recommend paying particular attention lifting the heater. For extraction from the box we recommend the use of 2 people.

During extraction of the appliances from package and for all operations of handling till final place of installation, take care to not damage the enamelled parts, the net and high temperature glass.

IMPORTANT: During all handling operations and to bring it up to the installation height, the load / weight must be evenly distributed on the **2 (two) plates** placed at the end of the enamelled casing.



All other parts of the appliance are NOT designed to withstand the weight of the appliance; in particular, they must NEVER be used as lifting points:

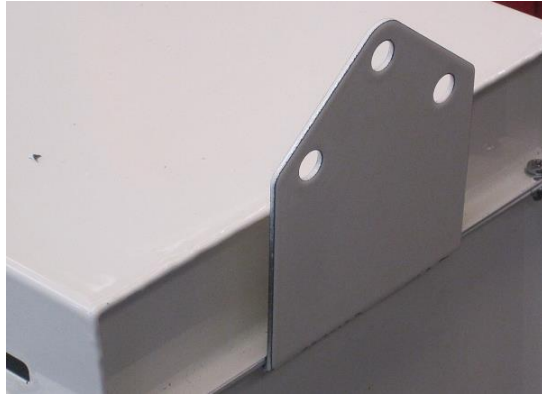
- the gas unit (gas valves / control units)
- support of the injection group
- 1 (one) fixing plate only at the end of the enamelled casing as in the photos below



IMPORTANT: in the event of the appliance falling, even from minimum heights, promptly inform the Manufacturer in order to check for any breakage of the ceramic plates, movement of the net or cracking of the glass, and in general the conditions of all the components.

HEATER INSTALLATION

The appliances can be installed on walls / pillars / cornices, or hanging at ceiling. The device is supplied with 2 enamelled plates, welded to the end of the casing (Pic. 1), each with 3 holes diam. 9.5 mm to which to connect the supplied brackets (Pic. 2), for all types of installation: on the wall (Pic. 3), on the cornice (Pic. 3) or suspended with chains (Pic. 4).



Pic. 1 – enamelled plates



Pic. 2 – brackets (angular + spacers)



Pic. 3 – wall /cornice installation



Pic. 4 – hanging installation, with chains

IMPORTANT: do not create other anchor points on the enamelled casing, or on the flues extraction box, but use only those prepared in the factory; we recommend using original SIABS brackets for the heaters installation.

The supply includes the fixing brackets supplied by SIABS (Pic. 3 and 4); the kit consists of nr. 2 angular pieces (to be fixed to the wall) + nr. 4 spacers (use 2 or 4 depending on the depth of the cornice). The system allows to modify the inclination of the heater once the heater is fixed to the wall or cornice, in order to better distribute the heat.

Our supply does NOT include: bolts (8.8 x 20mm), washers, toothed washers and nuts.

NOTE: to fix the brackets to the wall or the ends of the suspension chains assess the consistency of the wall /roof materials and the applied load in order to choose the correct anchors to be used; in any case, use dowels with a minimum diameter screw M8 (for example, the Fischer TA-M anchor in steel with M8 screw)

IMPORTANT: the appliance must be installed in a horizontal position; the clamping / suspension system must allow the thermal expansion of the appliance by a few mm



The gas supply pipe and the electrical connections must NOT support the weight of the heating appliance.

FLUE EXHAUST BOX INSTALLATION

Position the stainless steel box containing the 230 Volt - 50 Hz fan-fan vacuum box on the wall or cornice using the brackets on the box (use M8 dowels). The stainless steel box can be placed horizontally (suction part above) or vertically (suction part on the side).

NOTE - contact us for positioning the fan box in environments separate from the one in which the radiant heater STANNUM is installed (eg box in the false ceiling)



Horizontal



Vertical

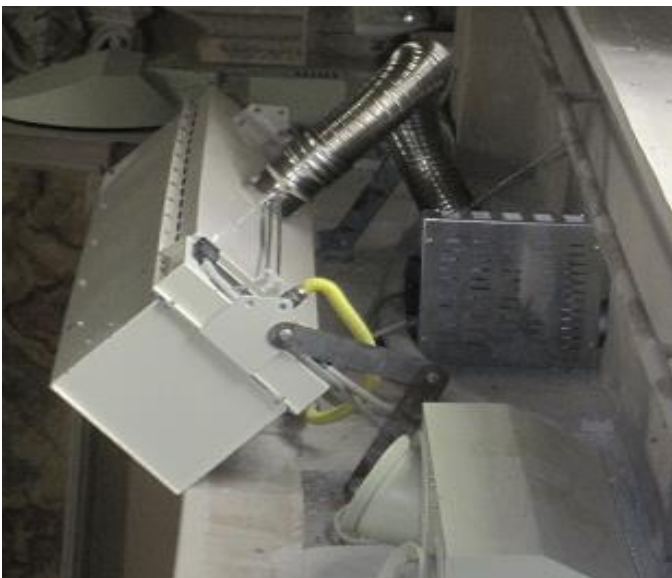


Do not shield / cover the electric fan box, especially in correspondence of the slots / holes, to avoid overheating of electronic components



The electric fan box is NOT suitable for being placed outside the building: contact us for this eventuality

Example of the flue exhaust box installation



Combustion products system

Fit the M / F sleeve on the fume exhaust / flue gas exhaust connection on the extractor hood (Pic. 1), fit the M / F passage sleeve on the suction part of the electric fan box (Pic. 2). Connect the double-walled AISI 316 stainless steel flexible hose $D = 80\text{mm} \times L = 3000\text{mm}$ to the 2 sleeves.

IMPORTANT: it is NOT possible to use a pipe longer than 3000mm for the exhaust flues.



Pic. 1



Pic. 2



hose should NOT be in contact with flammable materials and should NOT be squashed

On the suction part of the box there is a passage sleeve M / F, to which the double-walled flexible hose will be connected, $D = 80\text{mm} \times L = 3000\text{mm}$, made of AISI 316 stainless steel.

On the blowing part of the box there is a flue exhaust collar $D = 80\text{ mm}$; using a junction F / F screw sleeve, connect the windproof / rainproof horizontal flue gas exhaust terminal $D = 80 \times L = 1000\text{mm}$, completed with the canopy (with gaskets).



ADJUSTMENT, CONTROL AND SAFETY DEVICES

All devices comply with EN 126: 1995.

The gas pressure regulation device is sealed with a special material, for any modifications or injector replacement contact the manufacturer.

The STANNUM diffuser is equipped with an automatic device that interrupts the gas supply to the burner without delay in compliance with EN 161: 2001. The network / operating pressure can be checked directly on the detection sockets on the valve.

On the valve there is a burner ignition and flame monitoring device. This device controls the regular operation of the radiant burner through flame ionization. The safety or washing times of the chamber when switching on the burner are approximately 5 seconds.

In the event of a flame failure during normal operation, the flame monitoring device recalls the ignition of the burner after the 5 second safety time. After this time, the system is blocked.

To guarantee the correct functioning of the system, a pressure switch with Pascal calibration, determined by the approval authority, will stop the operation of the burner in case of a malfunction of the flues extractor.

In the supply of the STANNUM heaters is included the combustion extractor; this extractor is suitable for hot fumes contact, since it is made of material suitable for corrosion and high-temperatures. If the heater is installed in places not visible to the operator, a light is required in the control panel to signal the heater operation.

MINIMUM height of installation (for people comfort)

Indicative heights for the installation of appliances are as follows:

MODEL	HEIGHT of INSTALLATION (mt)
4P	3,0
6P	3,5
8P	4,0
12PR	5,5
12P	6,0

Height "MIN" means the minimum height at which the appliance should be installed so that people who are in radiated zone, **are not subject to excessive heat**.

Quotes relate to appliances **installed in horizontal position**; for appliances with angled position (15 ÷ 60 °), the minimum height can be reduced roughly between a 5 % (15 ° angle) and a 20 % (60 ° angle).

Quotes relate to installation with **ambient temperature of 10 ÷ 12 °C**; in case of ambient with higher or lower temperatures the minimum height of installation must be reviewed; consider a reduction of 5 % (for temperatures lower of approx. 5 ° C) or increase of 5 % (for temperatures higher of approx. 5 ° C).

Above MINIMUM **heights of installation are indicative**, consult us each case to select the most advisable unit and the best height of installation (mostly for limit values), and for doubts about MAXIMUM height of installation.

MINIMUM distances from flammable surfaces

IMPORTANT: flammable materials inside the radiation could begin to burn and cause fires.



SURFACES CLOSE to APPLIANCES MUST BE DONE IN MATERIAL of CLASS 'A0' with respect TO FIRE RESPONSE (NOT COMBUSTIBLE and NOT FLAMMABLE) and with DEGREE of RESISTANCE TO FIRE EQUAL or MORE THAN "REI 90"

Minimum distances of installation must be respected between the heating surface of the appliance and the adjacent walls, **inside the area of radiation and outside**, if they are not protected against radiation or are flammable materials; in case below minimum distances can not be met, consider to mount screens for the heat.

The **MINIMUM** distances are as follows:

MODEL	MINIMUM distance (mt) between heater and ...			
	ceiling	floor	front	sides
4P	1,0	2,0	1,0	1,0
6P	1,0	2,5	1,0	1,0
8P	1,5	3,0	1,5	1,5
12PR	1,5	4,5	2,0	1,5
12P	1,5	4,5	2,0	1,5

NOTE – contact us in case of different distances or special cases

Connection to GAS supply

IMPORTANT: hydraulic connection of the appliances to the gas distribution net must be made according to information given in this technical book exclusively by professionally qualified staff.

The appliances are supplied according to the type of gas chosen, and then before making the connection to the power network of gas, **make sure that the gas used and pressure of gas circuit correspond to what is shown on the data plate label** of the unit. **Before connection to the gas pipeline, make sure that the pipes are properly cleaned and produced in accordance with regulations in force in the country of installation.**

NOTICE: provide a **fuel interception tap** close to the appliance, and with easily accessible position; make the **connection between the heater and the gas network using an approved steel flexible pipe.**

IMPORTANT: "GAS supply pressure", defined as the dynamic pressure of the circuit, or part of the circuit downstream of the pressure reducer, with all the appliances running, and must be detected in this condition. With lower pressure difficulties in start-up may occur.

Once the connection is made, **in compliance with the rules in force in the country of installation, a)** verify the sealing of hydraulic pipes and gas connection to the unit, **b)** check that the pressure is correct, **c)** make sure that the apparatus functions in the conditions for which it was prepared.

Gas connection is 1/2" for all appliances (models: 4P, 6P, 8P, 10P, 12PR, 12P). Appliances are equipped with a multifunctional group comprising: double seat valve fitted with pressure stabilizer and integrated flame control. **The stabilizer accepts a maximum inlet pressure of 50 mbar** and the valve is equipped with a pressure intakes, to measure and control incoming and outgoing pressures.

IMPORTANT: all appliances are **supplied already tested and set** to the properly operating pressure; **DO NOT remove seal on the pressure regulator (R): expiring of guarantee!**

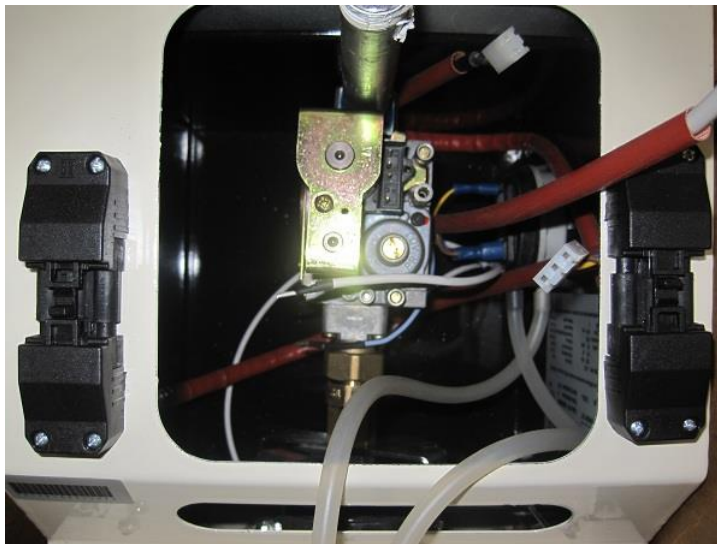


The heater and all the components reach temperatures above 100 °C, therefore pay attention to any contact to hot parts during the installation of the gas supply pipe.

Connection to ELECTRIC feeding

IMPORTANT: the electrical connection of the equipment shall be made in accordance with the directions given in this technical book exclusively by professionally qualified personnel. The installation must be carried out in accordance with regulations in the country of installation.


The heater must be fed with 230 Volt / Single Phase / 50 Hz feeding. The control flame mounted on gas valve has a plug/socket connection with security hook (picture 3). Mount a bipolar switch upstream of the heater for switch-on and switch-off, so you can isolate it from electric supply. Use this manual for the size of the power supply line, or refer to the data given in the plate label of the heater. In any case, use a cable with minimum section 3x1.5mm². The electrical schemes are shown at page 18 (flame controller of the heater) and page 19 (extraction fan) of these instructions.




Picture 3 – Connector for electric connection

For the electrical connection unlock the plug and unscrew its case; connect a cable according to the indications given on the terminal plug, namely:

HEATER electrical supply
3Poles Male Connector (female connector supplied)

- L1** Phase
- N** Neutral
-  Grounding

EXTRACTION FAN electrical supply
3Poles Female Connector (male connector supplied)

- L1** Phase
- N** Neutral
-  Grounding

IMPORTANT: it is **essential** for the smooth functioning of the appliances, to **respect the Phase / Neutral polarity**, with that indicated on the power connector.

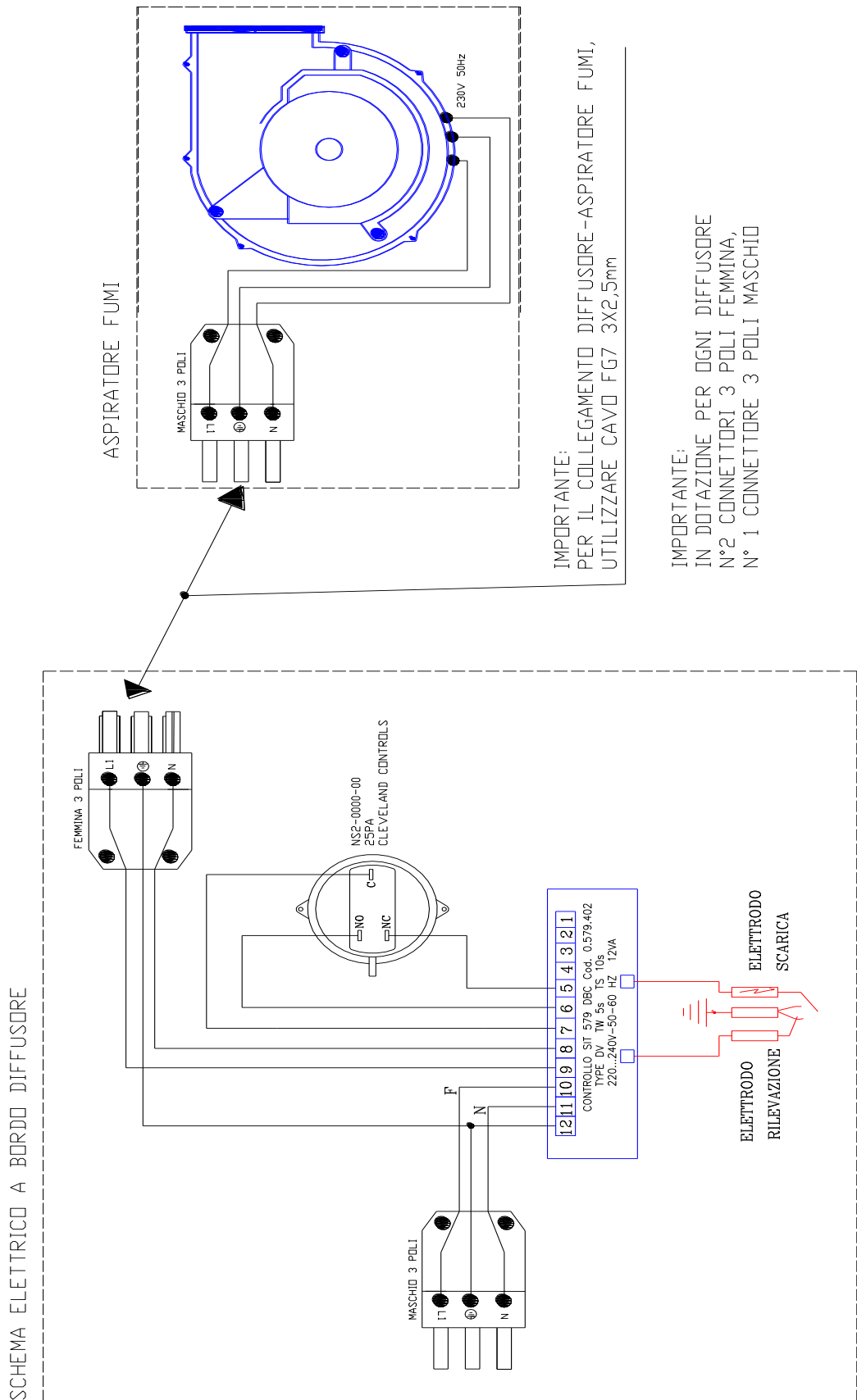
IMPORTANT: for safety of the user, and smooth functioning of the appliances, heater must be equipped with **efficient plant grounding**, executed according to existing regulations in the Country of installation. Under no circumstances you can use the gas connection pipeline as grounding of equipment.

The exhaust fan box must be powered with 230V / single-phase / 50Hz voltage. The box is equipped with a 3-poles connector to connect the flues extractor.



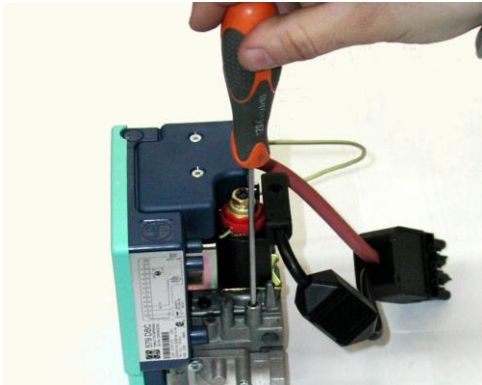
For the electrical connection, release the socket and unscrew the housing; connect a 3-pole cable, according to the indications shown on the terminals of the socket.

Exhaust fan wiring diagram

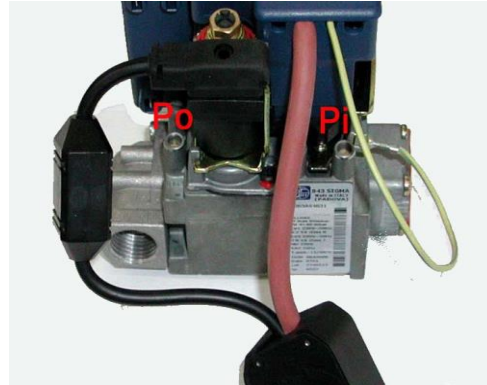


Setting of the pressure

Unscrew the screw of the **PO** pressure intake of the gas valve before the nozzle (pictures 1.A and 1.B), and connect a water column manometer. Feed the modulator and take out the yellow tap of the pressure regulator. Act, as shown in picture 2, on the CH10 screw for setting of the maximum pressure, till you get the required pressure (**turn clockwise to increase and counter clockwise to decrease**). Take out tension at the pressure modulator, and with a screw-driver act on the inner screw for minimum setting (picture 3) till you get the required pressure (**turn clockwise to increase and counter clockwise to decrease**).



Picture 1.A



Picture 1.B



Picture 2



Picture 3

PUT IN OPERATION and FIRST START-UP

When you first start the appliances is important to **make some preliminary checks** to ensure its proper running; operations listed below are considered essential:

- make sure there are no losses in the gas line and that is properly sized
- **check that the pressure and type of gas used comply with the data on the plate of the characteristics of the appliance**
- check that the power electric line has been correctly sized, which has been respected phase - neutral polarity and that the cable grounding is connected
- make sure the mechanical installation (supports) of the appliance have been properly carried out and that the connections bolts are tight
- use only steel materials, since heat is transferred from appliances to supports

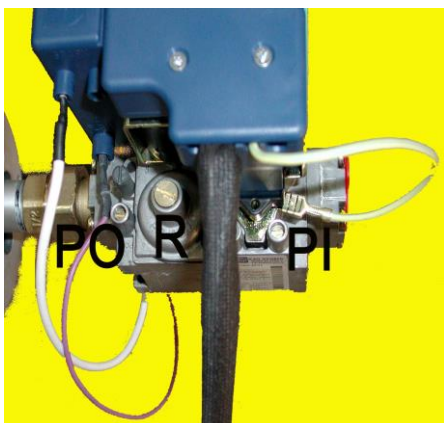
Start-up sequence includes the following phases:

- powering up the control unit on the heater, the air pressure switch checks the pressure inside the chamber, the fume extractor operation begins; after the 5 second safety time has elapsed and the pressure switch verifies that the pressure in Pascal exceeds the calibration pressure to which the heater switches off, the sparking of the electrode group starts
- the sparking electrode ends after 10 seconds
- in the case has not been detected the presence of flame, control flame goes into block after 30 seconds. For re-start it is necessary to remove tension for a period of not less than 20 seconds: after that period of time, the start-up sequence can be repeated. If the appliance continues going into block, refer to the section 'Maintenance' of this manual
- switch-off of the appliance is done by taking out power supply to control unit

IMPORTANT: in case of failure at time of first start-up, **pressure settings have to be checked, acting on PO and PI pressure intakes**

Only in case of maintenance, following instruction of qualified SIABS personnel, pressure settings can be modified, using the following procedure:

- remove the cap of pressure regulator (R)
- unscrew the screw of intake pressure, upstream at the nozzle (PO) and connect a suitable gauge, to check correct pressure during setting
- remove the cap of pressure regulator (R) and act, as shown in pictures (**turn clockwise to increase and counter clockwise to decrease**), on the screw of adjustment till match up to the pressure gauge reading with that stated on plate on the characteristics
- the new and correct nozzle pressure should be checked at intake pressure PO
- disconnect the pressure gauge and close the screw of intake pressure (PO)
- reassemble the cap of the regulator R and place a new suitable seal



MAINTENANCE

Ordinary maintenance

An appropriate use of the appliances, plus their proper and regular maintenance are essential to ensure better performance and longer working life.



Before making any maintenance, make sure that both the gas and the power supply have been excluded, and that the appliances is cold. For all routine and / or extraordinary maintenance, contact only professionally qualified staff, or rather a Technical Assistance Centre authorized by SIABS

At least once a year before the season of use, it is strongly advisable to perform an intervention for control / inspection and cleaning:

- visual inspection of radiant surface (if any cracked ceramic plate)
- visual inspection of the net (correct position) or glass (possible cracks)
- mechanical seal check of all components (from the burner to the terminal)
- verify that the discharge of the combustion products / terminal is not obstructed
- control tightening of bolted glass / net connections (every 2 years)
- nozzle cleaning
- electrodes cleaning, correct position and efficiency sparking
- check of keeping all the electrical connections
- search for possible losses on the gas circuit and gas valve
- check of gas pressure at nozzle
- check correct position / supports of protection grid
- general control of all components of the appliance
- control of openings and ventilation systems (natural and/or mechanical)
- control of alarm signals, if any

Nozzle replacement

In case you need to change the type of gas for which the appliance was prepared, you should contact SIABS to get the specific transformation kit and instructions, specifying the model of appliance, serial number and the new gas. The operations must be performed by qualified personnel and in compliance with the regulations.

IMPORTANT: If you change the **nozzle** to move to a different type of gas (f.e.: from LPG G30 to G20 natural gas) **it is compulsory to change also the plate label with technical data**, placing a new label with the new data, **repeat checks listed at page 20** "PUT IN OPERATION and FIRST START-UP", afterwards put seal again after operation.

Troubleshooting

TROUBLE	POSSIBLE CAUSE	SOLUTION
A the heater turns on, the ignition electrode continues to sparkle then goes to block	A1 Phase and Neutral with wrong connection A2 The flame detection electrode is too far from the plates surface A3 The control unit is defective	A1 Check Phase / Neutral polarity and eart connection A2 Verify that the flame detection electrode is approx. 4 mm from the radiant surface A3 Replace the control unit
B the heater turns on partially	B1 Insufficient gas flow B2 Inlet gas pressure of the burner is too low B3 Dirty nozzle	B1 Check that gas supply has sufficient flow rate compared to gas consumption of the heater B2 Check that the gas pressure corresponds to that shown on the plate label B3 Clean nozzle with compressed air (NO mechanical device)
C the burner does flash-back	C1 Inlet gas pressure of the burner is too high C2 Burner or ceramic plates are dirty C3 Ceramic plates are cracked	C1 Check that the gas pressure corresponds to that shown on the plate label C2 After burner is cold, blow air at low pressure on the ceramic plates surface, from inside C3 Replace the ceramic plates
D the heater doesn't turn because no gas is getting	D1 Interruption in the elctric plant D2 No tension D3 Solenoid valve is live, but coils are not energized	D1 Verify voltage at connector of power supply D2 Replace the control unit D3 Replace the gas valve
E the ignition electrode doesn't sparkle, and burner goes to block	E1 The electrode doesn't spark because of wrong distance between its tip and earth E2 Power interruption E3 The spark of the ignition electrode starts close to the ceramic protection, due to its breakcage, or between cable and mass	E1 Adjust distance (closer or further) between tip of ignition electrode and mass : should be 3 ÷ 4 mm E2 Check contacts connection of electrodes and control unit E3 Replace the whole ignition and detection deviv or just the cable, or just the electrode
F the gas valve turns on, but the heater doesn't turn and goes to block	F1 Air in the gas pipe F2 No gas	F1 Repeat the ignition cycle several times, waiting a time of approx. 20 sec between an ignition and the other F2 Verify that all devices of fuel interception, on gas pipeline, do not prevent passage
G the exhaust fan continus working without the burner lighting	G1 pressostat not working	G1 replace the pressostat
H when supplying electricity to the heater the exhaust fan does not start working	H1 pressostat not working H2 wrong electrical wiring	H1 replace the pressostat H2 check the electrical wiring

SERIAL NUMBER

It is advisable to communicate us the **serial number** of the appliances (label with bars code) for all operation of regular or extraordinary maintenance, and for orders of spare-parts.



On the burner



Outside, on packing box

Decommissioning and disposal

INFORMATION TO USERS "Implementation of Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, relating to the use of hazardous substances in electrical and electronic equipment, as well as waste disposal"

The product at the end of its useful life, **must be separated from other waste**. You should therefore **give the equipment at end of its working life to appropriate separate collection centres of electric and electronic waste**, or return it to the dealer when purchasing a new device to be equivalent in terms of one to one.

The proper differentiated collection to deliver the decommissioned apparatus to recycling, treatment and environmentally compatible disposal, helps to avoid possible negative effects on environmental and health, and promote the recycling of materials making up the equipment.

Illegal disposal of the product by the holder imply the application of administrative penalties according to law.



N.B. – Do not dispose of the product in mixed waste

CE certificate



CERTIFICATE



Number	KIP-15967/G Rev.1	Scope	Regulation (EU) 2016/426
Issue date	30-01-2019	Module	B
Expire date	27-09-2026		
PIN	0476CT2372	Report	2002372
Replaces	—	Page	1 of 1

EU TYPE-EXAMINATION CERTIFICATE

Kiwa Cermet Italia declares that the products type:

Non-domestic overhead luminous radiant heaters

Trade mark: **SIABS**
 Models: STANNUM 8P, STANNUM B 8P, STANNUM 12P,
 STANNUM B 12P, STANNUM B 12PR

Placed on the market by **SIABS S.r.l.**
 Viale del Lavoro 7, 20010 Casorezzo (MI)
 Italy

meet the essential requirements as described in the
Regulation (EU) 2016/426 relating to appliances burning gaseous fuels.

Appliance type: B22
 Countries: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,
 HR, HU, IE, IS, IT, LT, LU, LV, MK, MT, NO, NL, PL, PT, RO,
 SE, SI, SK, TR
 Related to the following gas groups:

Group	mbar	Group	mbar
E+	20/25	P	37:50

The above gas groups can be combined according to the standard EN437:2009 and national situation of countries.

The assessment test have been performed using the following standards as guidelines:
 EN1266:2002 + 1266:2002/A1:2015

The validity of this certificate can be verified on request at the following email address: info@kiwa.it
 This certificate will expire if there have been any changes to the product that may have an impact on compliance with the requirements of the Directive. This certificate will expire if there have been any updates and/or changes to the Technical Standards applicable unless specifically approved by Kiwa Cermet Italia.

Chief Operating Officer
Giampiero Belcredi

Firmato digitalmente da: BELCREDI GIAMPIERO
 Data: 18/02/2019 11:14:15

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GASTEC



PRD N° 069B

Organismo Notificato n. 0476

Rev 0

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Continuous development to improve the product could cause changes of above without notice.