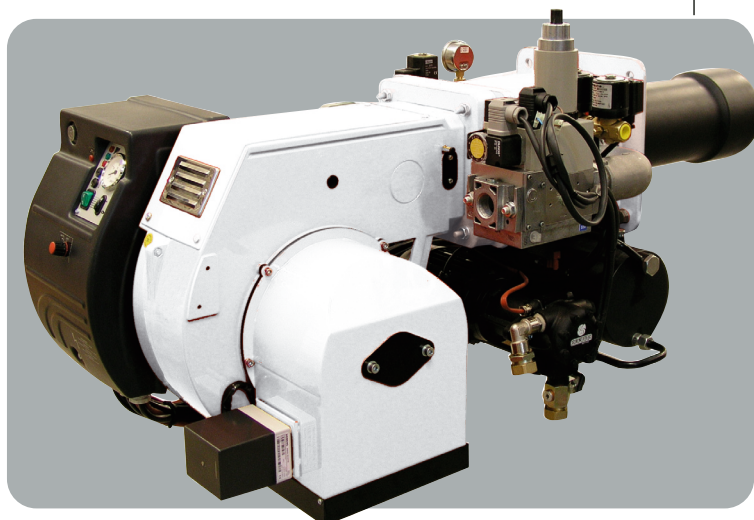


GAS/HEAVY-OIL DUAL BURNERS

elco



GLO-Tron 2.500 Z

GLO-Tron 2.700 Z

GLO-Tron 2.1300 Z

Natural Gas 20÷300 mbar / Heavy Oil

WWW.SMARTFLAM.BY

SmartFlam

Импортер
в Республику Беларусь
8 (029) 11 915 11 INFO@SMARTFLAM.BY



LB2042/20090807

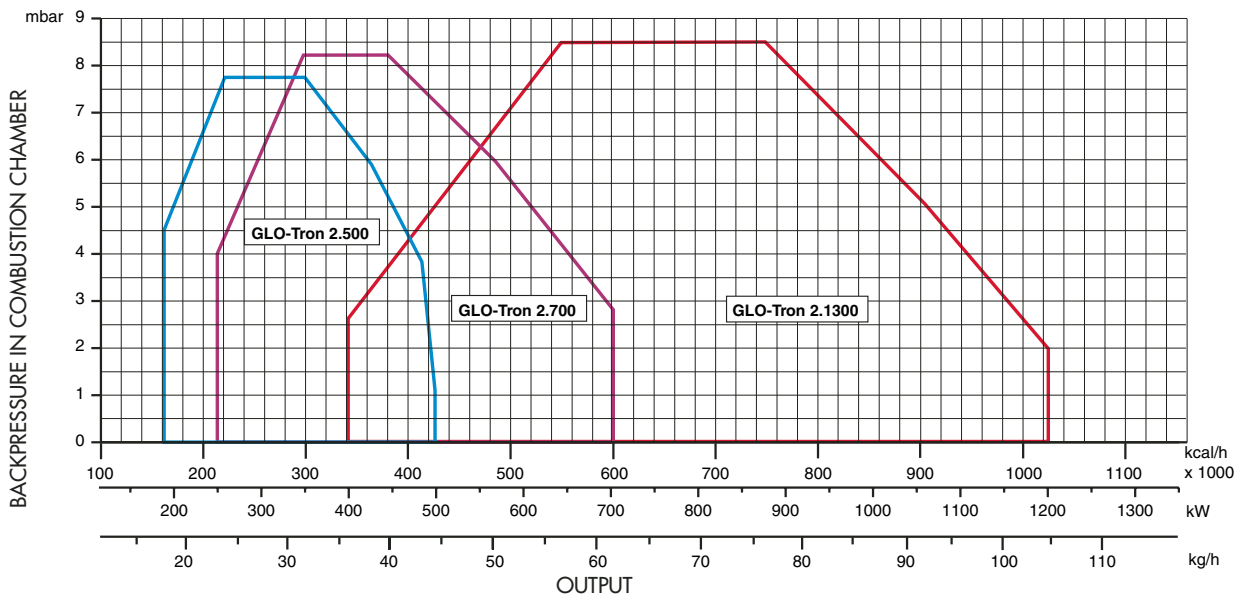
LB 2042

07.08.2009

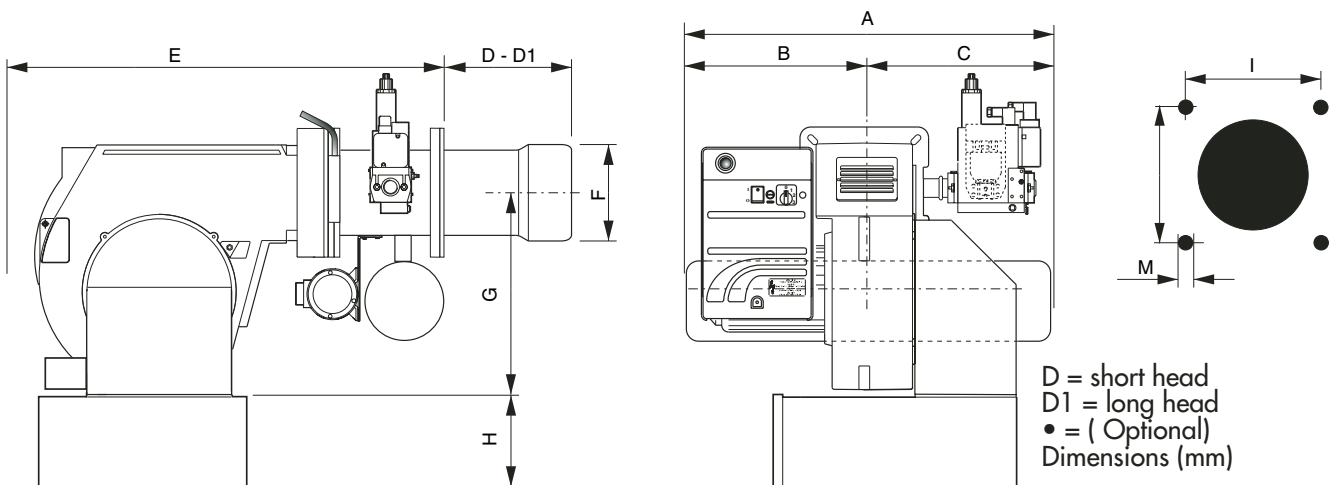
TECHNICAL DATA

MODELS		2.500 Z	2.700 Z	2.1300 Z
Thermal power max.	kW	500	700	1.200
	kcal/h	430.000	602.000	1.032.000
Thermal power min.	kW	190	250	400
	kcal/h	163.400	215.000	344.000
Min. natural gas pressure	mbar	20÷300	20÷300	20÷300
Voltage 50 Hz	V	230/400	230/400	230/400
Motor	kW	0,55	1,5	2,2
Rpm	N°	2800	2800	2800
Fuel :	Natural Gas (L.C.V. 8.570 kcal/Nm ³), Heavy oil (L.C.V. 9.800 kcal/kg max. visc 50°E at 50°C)			

WORKING FIELDS



OVERALL DIMENSIONS

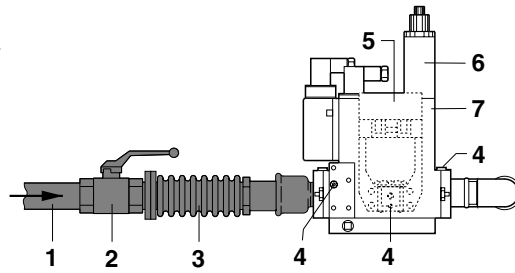


MODELS	A	B	C	D	D1	E	F	G	H	I	L	M
GLO-Tron 2.500 Z	715	370	345	212	432	900	180	385	225•	230	230	M14
GLO-Tron 2.700 Z	715	370	345	212	432	900	180	385	225•	230	230	M14
GLO-Tron 2.1200 Z	715	370	345	310	460	900	215	385	225•	230	230	M14

GAS TRAIN INSTALLATION

- 1. Main gas pipe
- 2. Cut-off valve
- 3. Antivibrating coupling
- 4. Pressure gauge port
- 5. Leakage control device
- 6. High flame valve

- 7. Multiblock set On-Off version, complete with:
 - gas filter
 - gas governor
 - safety gas valve
 - low flame valve



ELECTRICAL CONNECTIONS

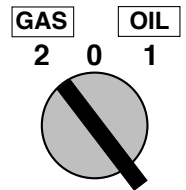
All burners factory tested at 400 V 50 Hz three-phase for motors and 230 V 50 Hz monophas with neutral for auxiliary equipment. If mains supply is 230 V 50 Hz threephase without neutral, change position of connectors on burner as in fig. Protect burner supply line with safety fuses and any other devices required by safety standards obtaining in the country in question.

CONNECTION TO THE GAS PIPELINE

Once connected the burner to the gas pipeline, it is necessary to control that this last is perfectly sealed. Also verify that the chimney is not obstructed. Open the gas cock and carefully bleed the piping through the pressure gauge connector, then check the pressure value trough a suitable gauge. Power on the system and adjust the thermostats to the desired temperature. When thermostats close, the sealing control device runs a seal test of valves; at the end of the test the burner will be enabled to run the start-up sequence.

OPERATION OF BURNER WITH GAS

Before starting the burner, make sure it is mounted correctly. Then check connections are correct according to the diagram and piping is appropriate to the system. Before connecting the burner to the electricity supply, make sure voltage corresponds to burner plate data. The connection diagram and start-up cycle are shown separately. For wiring from control box to burner, see the enclosed connection diagram. Pay particular attention to neutral and phase connections : never exchange them!. Vent air and impurities of gas pipe. Check gas pressure conforms to the limits stated on the burner plate when connecting a master gauge to the test port provided on the burner. Blower motor starts and pre-purging begins. Since pre-purging has to be carried out with the max. air delivery, the burner control circuit turns the air damper to the max. delivery position by the air servocontrol in approximately 30 seconds time. When the servocontrol is fully open, a signal to the electronic control unit starts the 66 seconds pre-purge cycle. At the end of the prepurging time, the air servocontrol gets to the Low Flame position so that burner ignition is ensured at min. output. Simultaneously the ignition transformer receives voltage and after 3 seconds (pre-ignition) opens the pilot gas valve. Fuel flows to the combustion head and ignites. Two seconds after pilot gas valves have opened, the ignition transformer is excluded from the circuit. In case of no ignition the burner goes to lock-out within two seconds. After 6 sec. open the working gas valve, governed by the gas firing butterfly valve. Now the burner is operating at the min. firing rate (about 30% of the max. firing rate). The air servocontrol runs at the Low Flame position and in case the temperature control has to be set at the max. output it goes to a fully open position of air damper and butterfly valve. During the burner-off periods the air damper closes up fully.

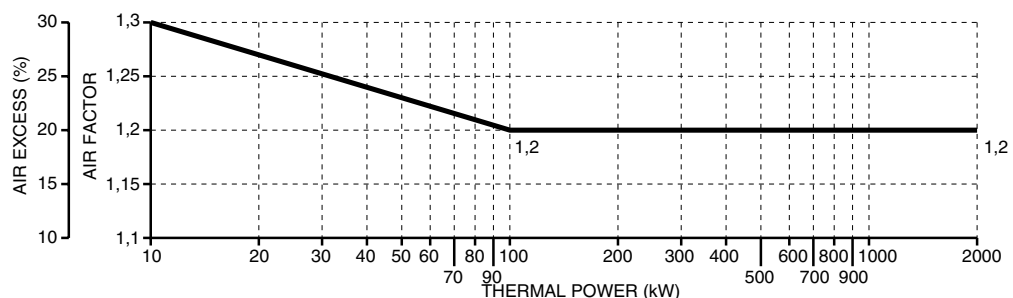


ADJUSTING THE COMBUSTION PROCESS

IMPORTANT: to obtain the right adjustment of the combustion and thermal capacity it is important to analyze the reducts of combustion with the aid of suitable instruments. The combustion and thermal capacity adjustment is done simultaneously, together with the analysis of the products of combustion, making sure that the measured values are suitable and that they comply with current safety standards. On this matter, please refer to the table and figure below.

THESE OPERATIONS MUST BE DONE BY PROFESSIONALLY-QUALIFIED TECHNICIANS.

	Natural G.
CO ₂	9,6%
CO	<100 ppm
	GPL
CO ₂	11,7%
CO	<50 ppm



CONTROL BOXES LANDIS & STAefa LGB21/LGB22 – LMG21/LMG22

The Landis control box starts the fan and begins the pre-purging of the combustion chamber. The air pressure switch controls the correct operation. At the end of the pre-purging phase, the ignition transformer cuts-in followed by the opening of the gas valves. In case of missed ignition or accidental shutdown, the ionisation probe cuts-in and set the burner in lockout mode within the safety time.

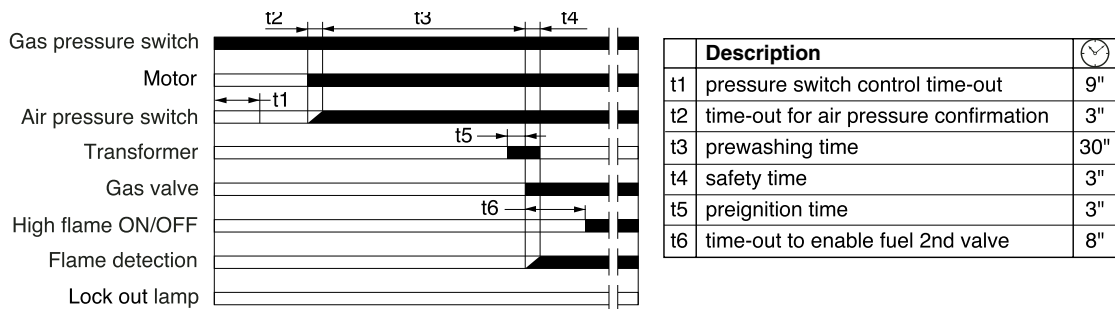
ONLY FOR LMG21 / LMG22 CONTROL BOXES

In case of burner lockout, it is possible to read which cause originated it. Proceed as follows: with the burner in lockout mode (red LED switched on) keep pressed the lockout button for more than 3 sec. then release it. The red LED will blink according to the following error code list:

Error Code	Possible cause
2 blinks	Missed ignition at the expiring of the control box's safety time
3 blinks	The air pressure switch does not close
4 blinks	The air pressure switch does not open or presence of extraneous lights at the burner start-up
7 blinks	Loss of flame during operation
8÷17 blinks	Not used
18 blinks	The air pressure switch opens during pre-purging or operation
19 blinks	Faulty output contacts
20 blinks	Faulty of internal device

During the error diagnostic phase, the output controls are disabled and the burner keeps on staying in lockout mode.

- Exception: the fault alarm on "AL" terminal: the burner will be switched on only after a Reset is made. To reset the control box press the lockout-reset button for 0.5 to 3 seconds.



CALCULATION OF WORKING OUTPUT OF THE BURNER

To calculate the burner's working output, in kW, proceed as follows:

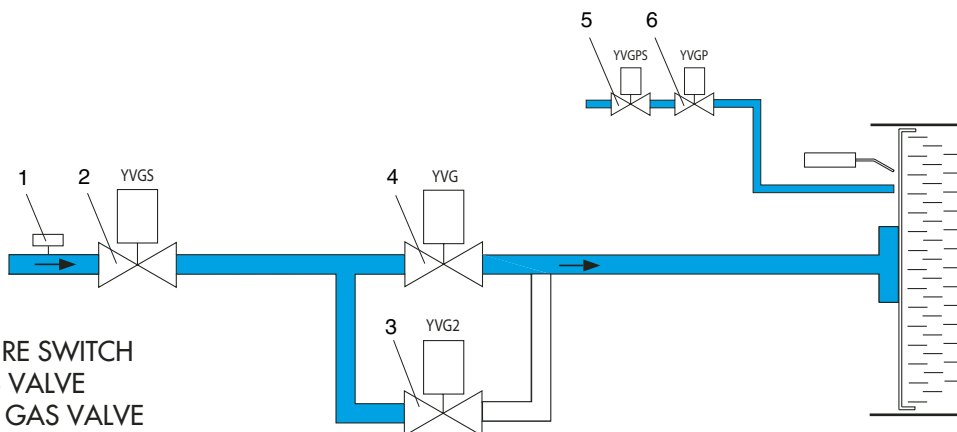
- Check at the meter the quantity of supplied litres and the duration, in seconds, of the reading, then calculate the burner's output through the following formula:

$$\frac{e}{s} \times f = \text{kW}$$

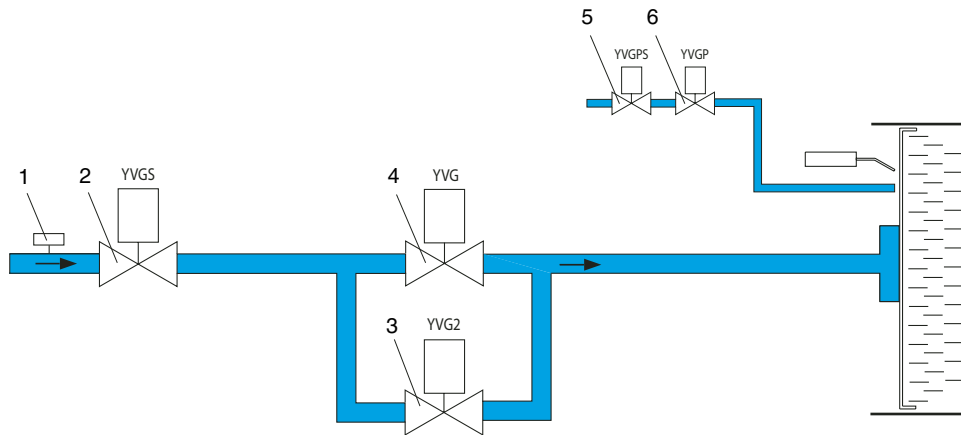
e = Litres of gas
s = Time in seconds

G20 = 34,02
G25 = 29,25
G30 = 116
G31 = 88

GAS CIRCUIT



- 1 - GAS PRESSURE SWITCH
- 2 - SAFETY GAS VALVE
- 3 - LOW FLAME GAS VALVE
- 4 - HIGH FLAME GAS VALVE
- 5 - PILOT SAFETY GAS VALVE
- 6 - PILOT GAS VALVE



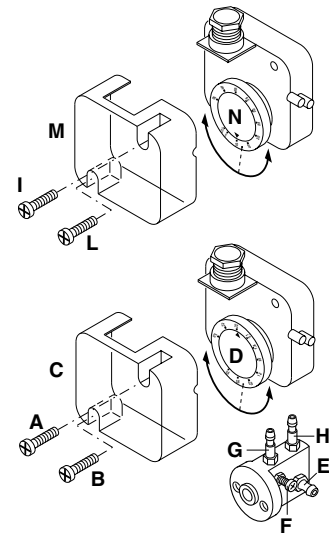
ADJUSTMENT OF GAS MINIMUM PRESSURE SWITCH

Unscrew off and remove cover M. - Set regulator N to a value equal to 60% of gas nominal feed pressure (i.e. for nat. gas nom. pressure = 20 mbar, set regulator to a value of 12 mbar; for L.P.G. nom. pressure of G30/G31- 30/37 mbar, set regulator to a value of 18 mbar).Screw up cover M

ADJUSTMENT OF THE AIR PRESSURE SWITCH

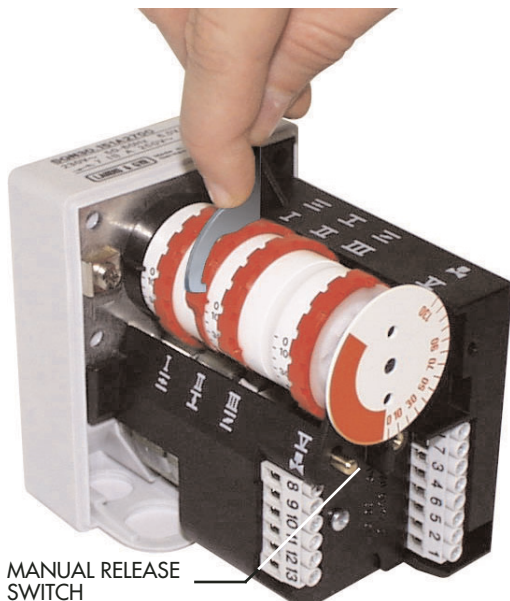
Unscrew screws A and B and remove cover C.- Set the pressure switch to the minimum by turning regulator D to position 1.
 - Start the burner and keep in low flame running, while checking that combustion is correct. Through a small cardboard, progressively obstruct the air intake until to obtain a CO₂ increase of 0,5±0,8% or else, if a pressure gauge is available, connected to pressure port E, until reaching a pressure drop of 1mbar (10 mm of W.G.). - Slowly increase the adjustment value of the air pressure switch until to have the burner lockout. Remove the obstruction from the air intake, screw on the cover C and start the burner by pressing the control box rearm button.

Note: The pressure measured at pressure port E must be within the limits of the pressure switch working range. If not, loose the locking nut of screw F and gradually turn the same: clockwise to reduce the pressure; counterclockwise to increase. At the end tighten the locking nut.



ADJUSTEMENT OF THE COMBUSTION AIR

LANDIS & STAefa SQN 30 151A2700 AIR DAMPER MOTOR



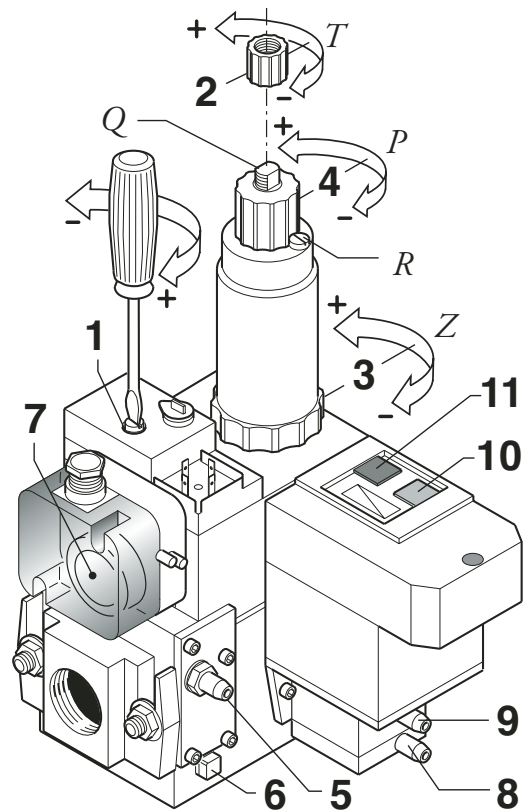
Remove cover to gain access to the adjusting cams. The cams are to be adjusted through the suitable key provided for. Description:

- I - Limit switch for air damper "High Flame" position adjustment (Max. power)
- II - Limit switch for the air damper position at burner's shut down
- III - Limit switch for air damper "Low Flame" position adjustment (Min. power)
- V - Limit switch for 2nd stage's solenoid valve opening release

NOTE : Cam V (to allow the 2nd stage's solenoid valve opening) must be adjusted to an intermediate position between the Low and High Flame ones (to an angle approximately 5° greater than the low flame position).

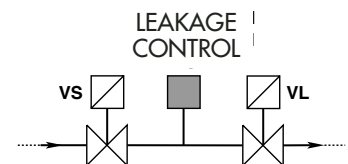
DUNGS MB-ZRDLE

- 1 Pressure governor adjustment
- 2 Fast opening hydraulic brake's adjustment
- 3 Low flame flow rate adjustment
- 4 High flame flow rate adjustment
- 5 Inlet pressure port
- 6 Pressure governor membrane's bleed
- 7 Minimum pressure switch adjustment (VPS 504)
- 8 Pressure port after gas filter
- 9 Pressure port after pressure governor. During leakage control test, is used to measure test pressure (~150 mbar). When burner is running, it is used to measure governor's outlet pressure.
- 10 Working lamp (yellow)
- 11 Leakage control device rearm button (red)



LEAKAGE CONTROL DEVICE VPS 504

When the thermostats are closed, the gas leakage control device checks the valve seals by pressurizing the circuit between the two gas valves. When test pressure is reached the device remains in stand-by for about 25 seconds. At the end of the test the yellow pilot light on the control device lights up and the burner is enabled to carry out the start-up cycle. If the seal on one of the valves is faulty and this causes a drop in test pressure, the device puts the system into the safety condition and the red pilot light on the device lights up. The flame control device starts the burner fan to carry out prewashing of the combustion chamber, checking fan air pressure via the air pressure switch. After pre-ventilation the ignition transformer starts operating, generating a spark between the electrodes and simultaneously the gas valves open (safety gas valve VS and first stage operating valve VL). If the flame does not ignite or goes out, total safety is ensured by an ionization detection probe. The safety time limit in the event of no flame is less than 2 seconds at start-up and less than 1 during operation. In the event of no gas being supplied or of a considerable drop in pressure the minimum gas pressure switch interrupts burner operation. About 20/30 seconds after ignition the flame control device commands operation of the second stage via the gas valve and air servocontrol, thus taking the burner to maximum power.



COMBUSTION ADJUSTMENT

WARNING: In order to have a correct combustion and thermal output adjustments, these must be carried out together with a combustion analysis, to be executed through suitable devices, taking care that the values are the correct ones and are in accordance with the local safety regulations. The adjustments must be carried out by qualified and skilled technicians authorised by ELCO.

ADJUSTMENT OF PRESSURE GOVERNOR

The adjustment procedure is the same for both single-stage (MB-DLE) and two-stage (MD-ZRDLE) versions. Check that gas pipe pressure is not higher than the maximum one specified for the governor, then operate through a screw driver fitted into the suitable seat as shown in the figure. Adjustments must be made with the burner running, in function of the working pressure and needs of each installation. The working fields are as follows: inlet pressure range 0÷100 mbar; outlet pressure range 3,6÷20 mbar. Between the minimum and maximum outlet pressure there are approx. 60 adjusting screw's turns. The governor is adjusted to an intermediate position during the tests.

ADJUSTMENT OF GAS FLOW RATE FOR SINGLE-STAGE VERSION (MB-DLE)

To adjust the gas flow rate, loosen screw R and turn the regulator; to the right (screwing) to reduce; to the left (unscrewing) to increase. At the end tighten screw R.

ADJUSTMENT OF GAS FLOW RATE FOR TWO-STAGE VERSION (MB-ZRDLE)

Low flame: Loosen screw R and turn regulator P. To the right (screwing) to reduce flow rate; to the left (unscrewing) to increase. At the end tighten screw R. High flame: loosen screw R and turn regulator P. To the right (screwing) to reduce flow rate; to the left (unscrewing) to increase. At the end tighten screw R.

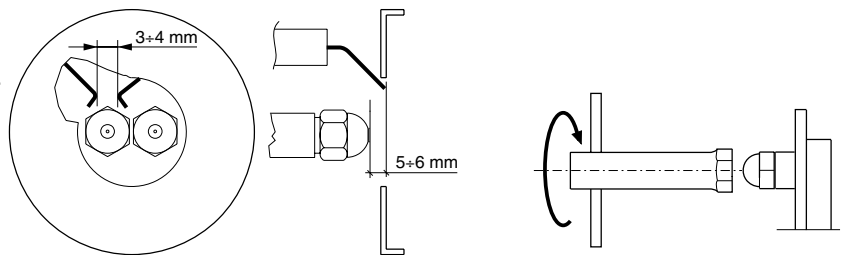
ADJUSTMENT OF FAST OPENING'S HYDRAULIC BRAKE

The adjustment procedure is the same for both single-stage (MB-DLE) and two-stage (MD-ZRDLE) versions. To adjust the fast opening's hydraulic brake, unscrew cover T and through its upper side turn pin Q. Screw to reduce the opening speed; unscrew to increase. Screw cover T after regulation.

NOZZLE CLEANING AND REPLACEMENT

Use only the suitable box wrench provided for this operation to remove the nozzle, taking care to not damage the electrodes. Fit the new nozzle with the same care.

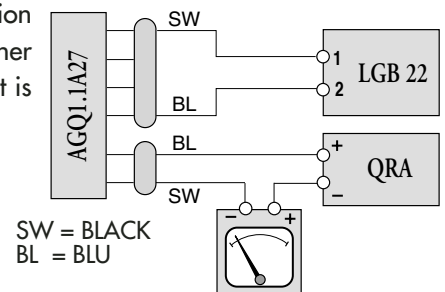
Note: Always check the position of electrodes after having replaced the nozzle (see illustration). A wrong position could cause ignition troubles.



FLAME DETECTION SYSTEM CHECK

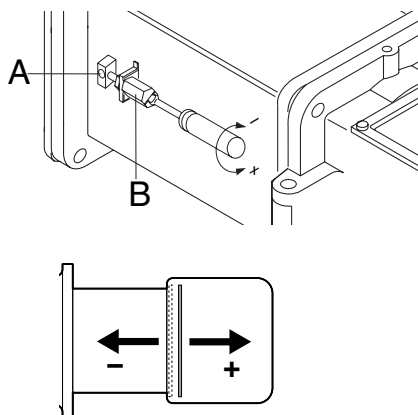
The control of the ionisation current shall be carried out by plugging a microamperemeter with full scale at 50 µA (D.C.) in series with the UV-cell. If the ionisation current is too low verify the connection between phase and neutral of the burner and the grounding of the burner itself. Usually, the value of the ionisation current is > 20 µA. Minimum required ionisation current: 3 µA

Microamperemeter full scale 50 µA

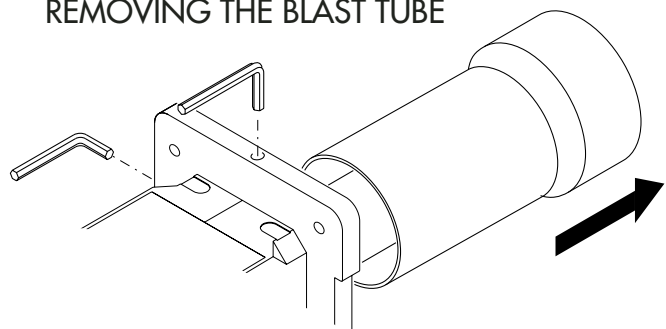


SETTING THE FIRING HEAD

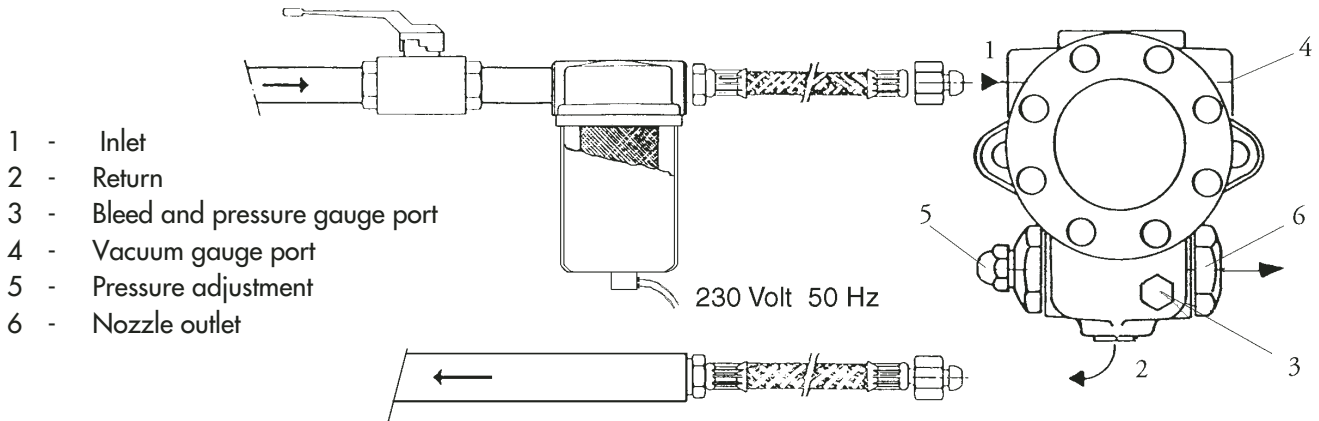
The firing head position adjustment is made in order to obtain the best combustion efficiency. When used with minimum outputs the firing head is adjusted in rear position. With high output, the firing head is adjusted in forward position. Adjustment: - Loosen screw A through a suitable Allen key. - By a screwdriver act on the hex. head screw B until is reached the desired position. - Tighten screw A



REMOVING THE BLAST TUBE



HEAVY OIL FEEDING

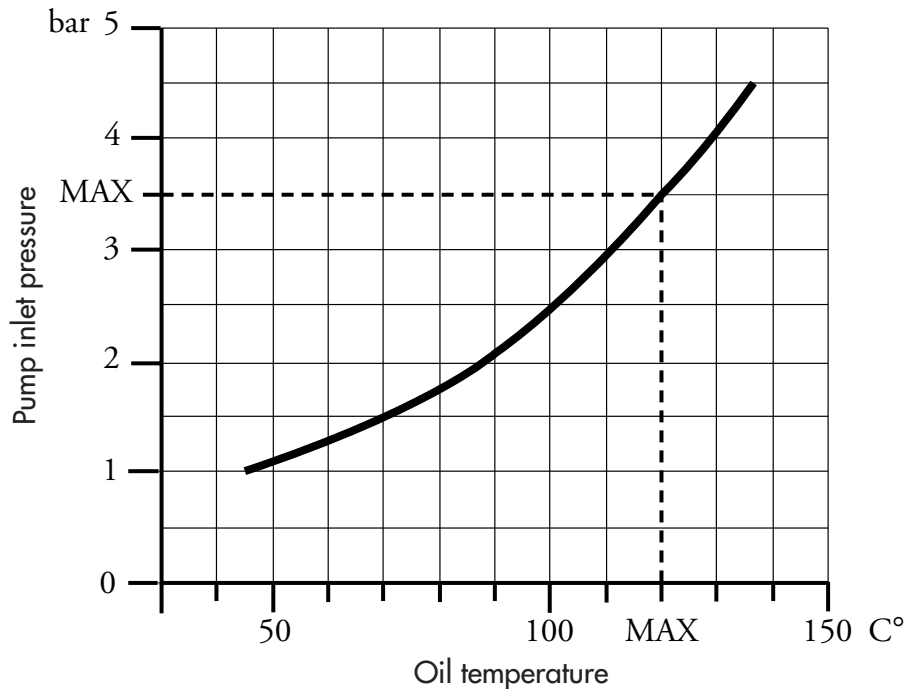


- 1 - Inlet
- 2 - Return
- 3 - Bleed and pressure gauge port
- 4 - Vacuum gauge port
- 5 - Pressure adjustment
- 6 - Nozzle outlet

Oil temperature: Max. 120° in the pump
 Inlet and return pressure: 3,5 bar max.
 Suction height: 0,5 bar max. vacuum
 0,4 bar advised to prevent air separation from oil

PUMP'S PRESSURE / OIL TEMPERATURE DIAGRAM

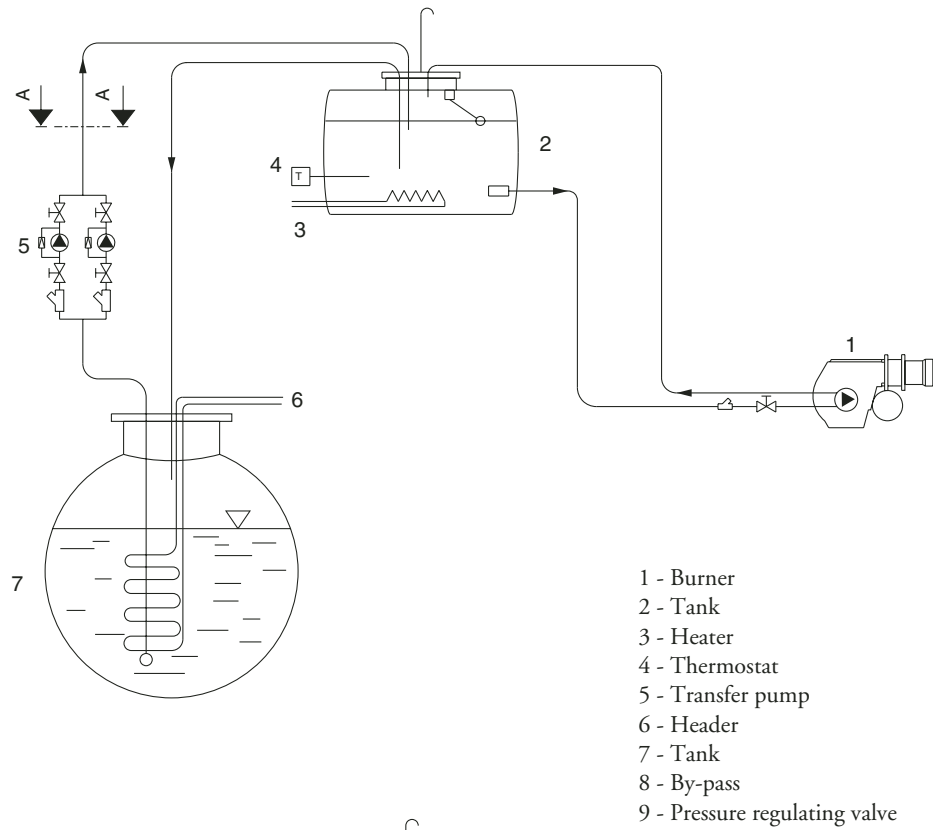
The gasification of volatile fractions in preheated heavy oil seems to be the main cause of premature fuel pump wear. To avoid such a problem, adjust pump pressure according to the diagram hereinafter.



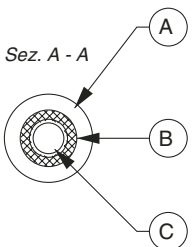
WARNING: For a correct working of the pump, verify what follows:

Pump : SUNTEC E4NC 1069 / SUNTEC E6NC 1069
 Oil temperature at the pump: Max. 120 °C
 Maximum allowable pressures: Max. 3,5 bar on inlet

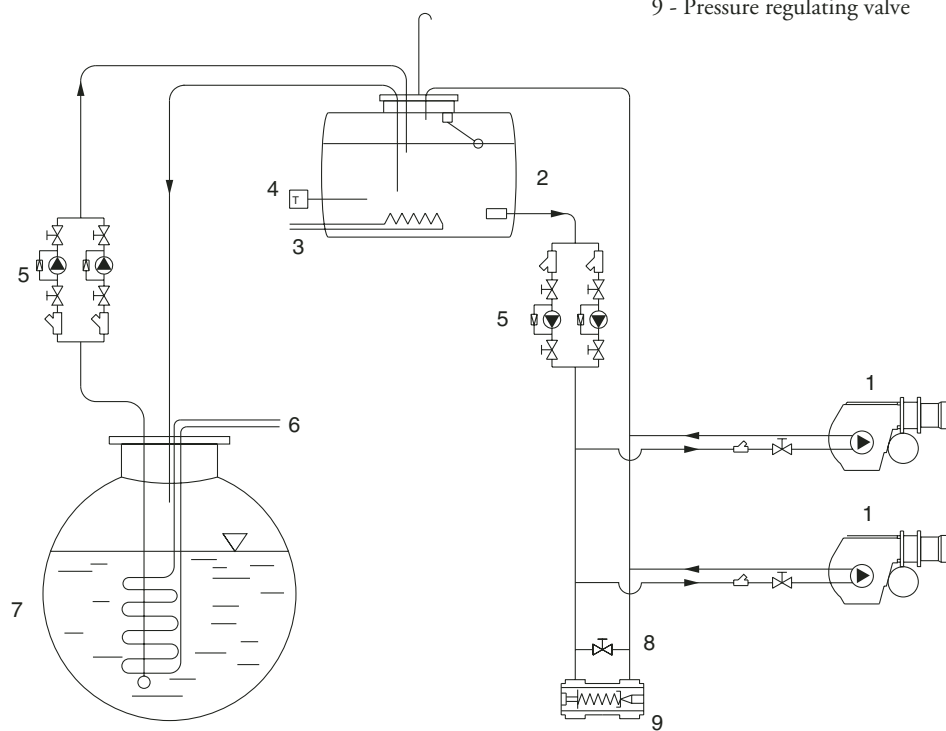
HEAVY OIL FEED SYSTEM



- 1 - Burner
- 2 - Tank
- 3 - Heater
- 4 - Thermostat
- 5 - Transfer pump
- 6 - Header
- 7 - Tank
- 8 - By-pass
- 9 - Pressure regulating valve



- A - Isolation gasket
- B - Heater
- C - Pipe heavy oil

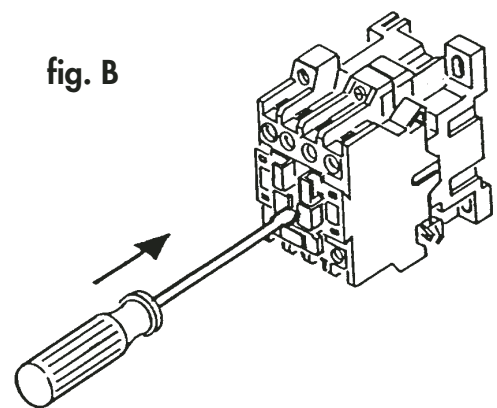
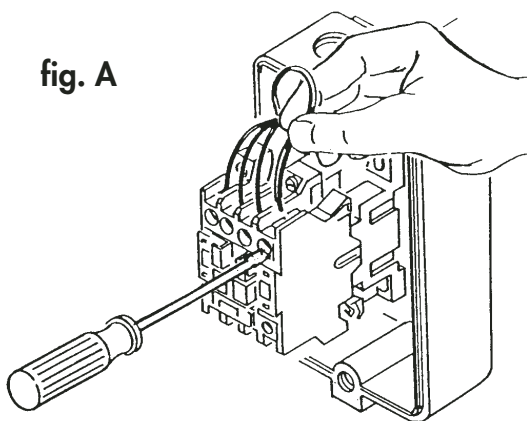


IMPORTANT: All fuel pipings are heated (see section A-A of the picture)

CHECKS TO BE MADE TO ENSURE A PROPER INSTALLATION:

Before proceeding with the filling of the fuel system and subsequent burner start up, it is advisable to carry out the following checks:

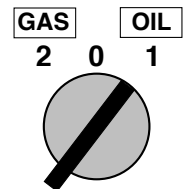
- Power line must be adequate to system's adsorbed load
- Fuses must be adequate to the system's load
- Boiler's thermostats must have been properly connected
- Voltage and frequency must be within the specified limits
- Fuel type must be the one specified by the burner manufacturer
- Feed piping section must be adequate to the requested fuel flow rate
- Filters, cocks as well as fittings must have been properly installed
- Blast tube length must be the one specified by the boiler manufacturer
- Nozzle's flow rate of the burner must be adequate to boiler's output



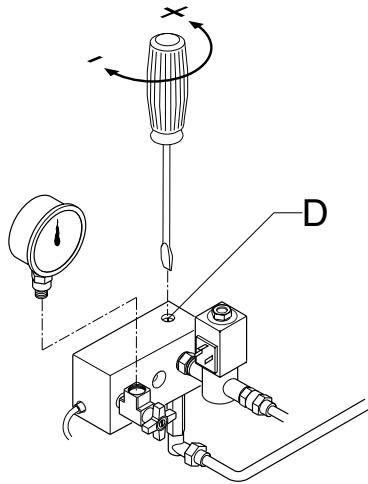
OPERATION OF BURNER WITH HEAVY OIL

When all the controls, as shown in previous paragraphs, have been accomplished, it will be possible to proceed with the burner start up.

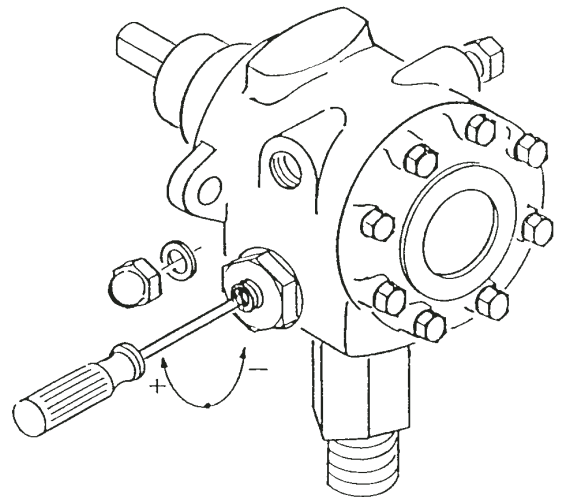
- Switch-on the burner. When reaching the preset temperature on the working thermostat, and with boiler's thermostat closed, the control box starts the fan, the fuel pump and the ignition transformer. At the same time, the balancing resistors are activated, to keep fuel temperature into the heater at a constant value.
- It begins, in this way, the combustion chamber prepurging, as well as the fuel circulation in the whole circuit, so as to obtain an uniformity of temperature which allows a correct flowing of the same. The fuel pressure, during prepurging, shall be around 16÷18 bar. If not, adjust the pressure to the specified value through the regulator "D", purposely installed on the heating circuit (see figure).
- At the end of the prepurging, the control box shut off the solenoid valve "O" while opening the 1st stage valve (for example valve "A"), allowing the burner ignition in Low Flame. Afterwards, it will be opened the 2nd stage valve "B" which, while allowing the fuel flowing through both nozzles, permit the burner's High Flame ignition, i.e. at the full power.
- In order to have a correct combustion, adjust the combustion air flow for both Low and High flame. During flow rate adjustment, it is possible to manually switch from Low Flame to High Flame and viceversa, through the LOW/HIGH manual switch. When all adjustments are made, leave the switch in II (HIGH) position.
- The fuel pressure during burner's working shall be set to 23 bars.



ADJUSTEMENT OF PRESSURE IN PREPURGING PHASE



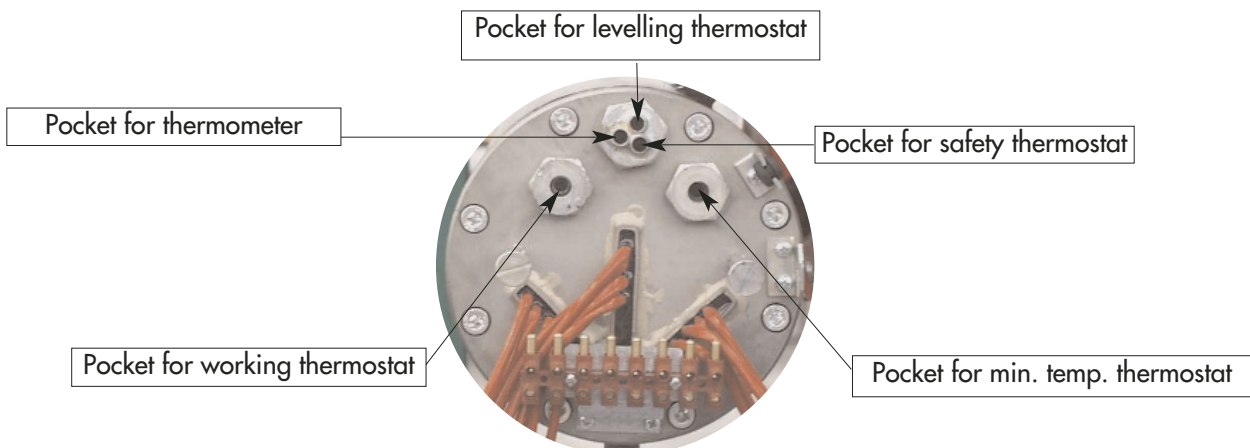
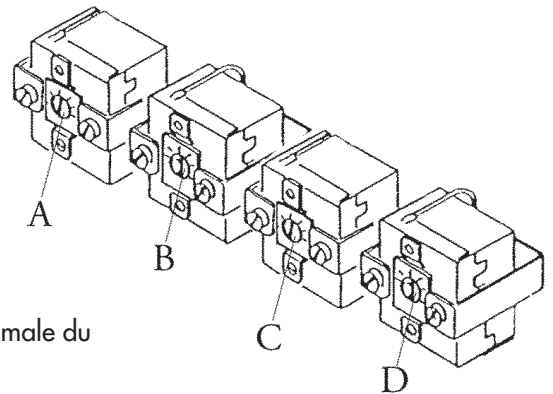
ADJUSTEMENT OF PUMP PRESSURE



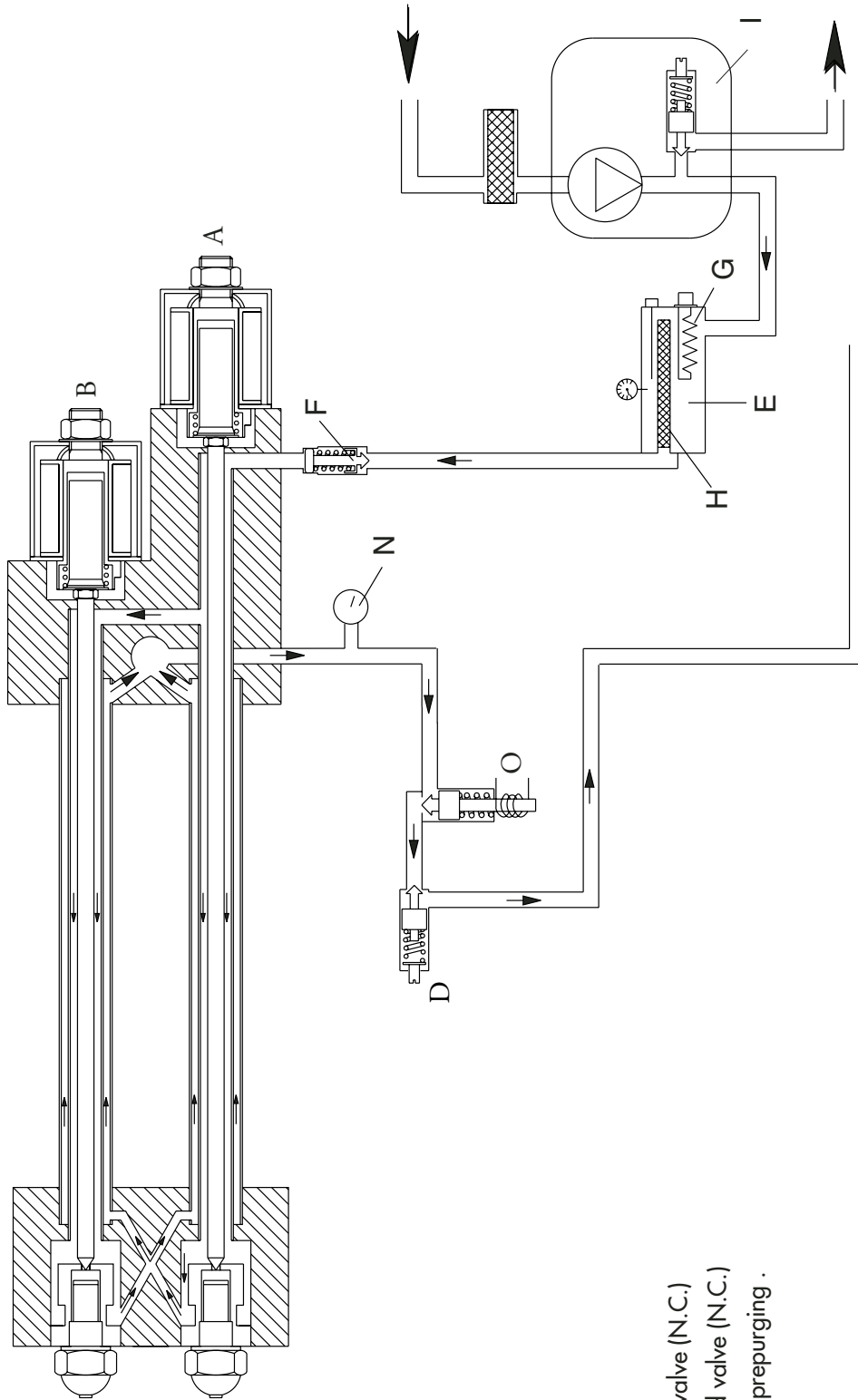
ADJUSTMENT OF FUEL THERMOSTATS

The working resistor thermostat must be set to 120 °C, while the safety one to 160 °C. Said adjustments can be slightly modified following the type of fuel and particular uses.

- A - Termostato di sicurezza / Safety thermostat
Thermostat de sécurité / Termóstato de seguridad (160° C).
- B - Termostato di lavoro / Working thermostat
Thermostat de travail / Termóstato de trabajo (120° C).
- C - Termostato di livellamento / Levelling thermostat
Thermostat de nivellement / Termóstato de nivelación (130° C).
- D - Termostato di min. temperatura olio combustibile
Heavy oil min. temp. thermostat / Thermostat de température minimale du fioul lourd / Termóstato de minima fuel pesado (90° C).



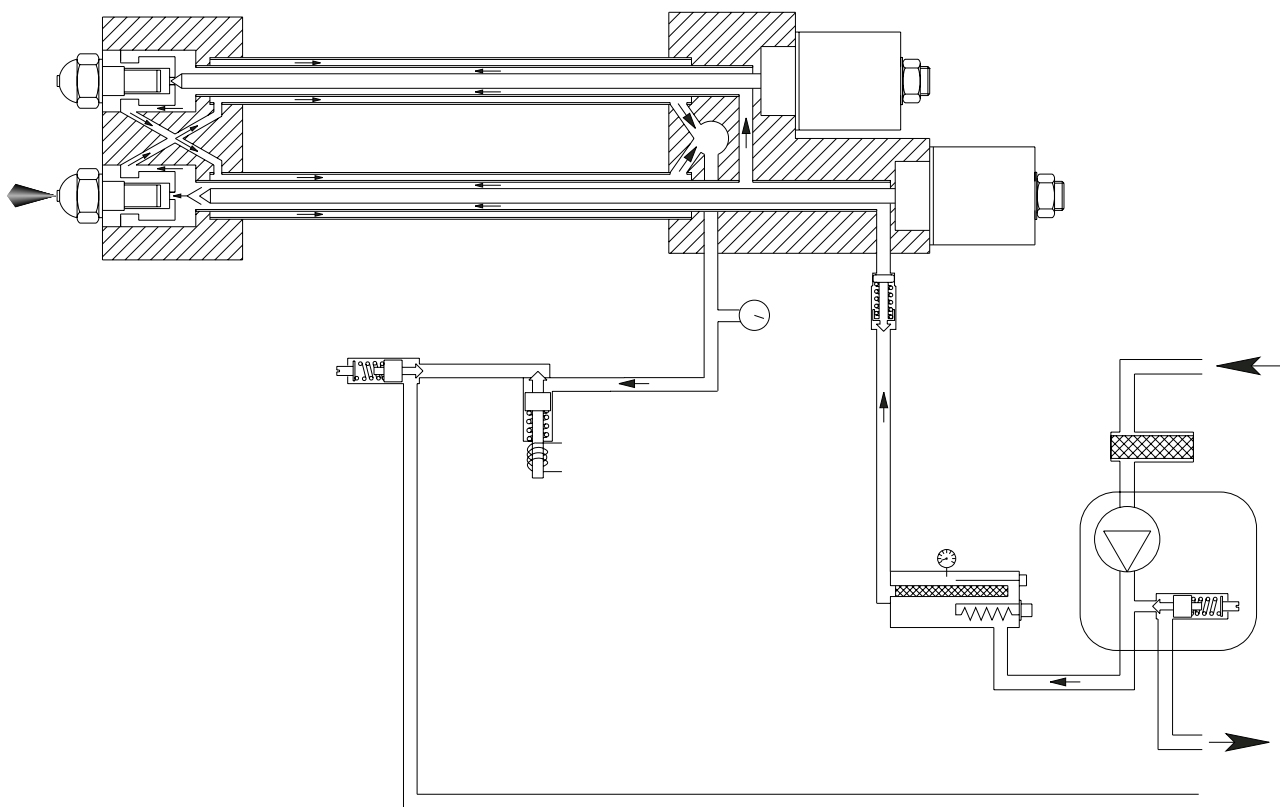
PREPURGING PHASE



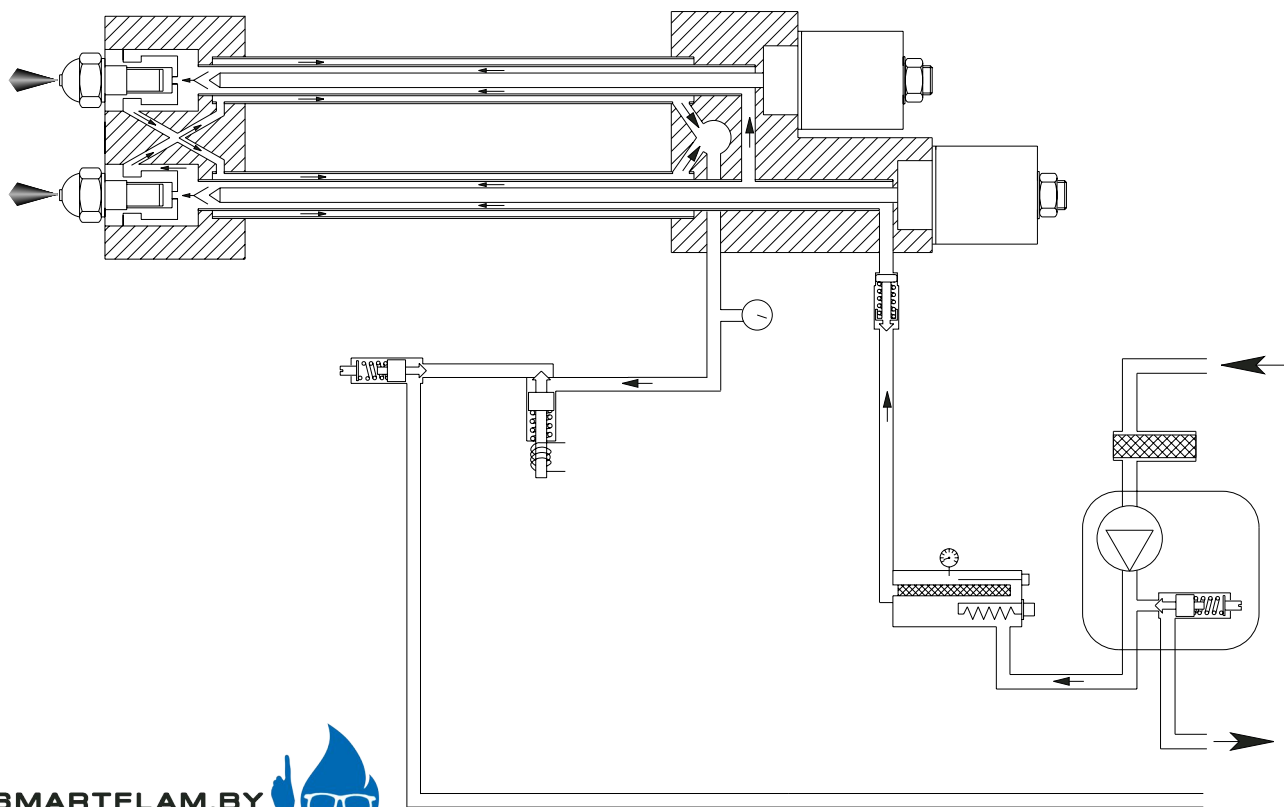
Legend :

- A. Low Flame solenoid valve (N.C.)
 - B. High Flame solenoid valve (N.C.)
 - D. Fuel flow adjuster in prepurging .
 - E. Heater
 - F. Anti-gas valve
 - G. Resistors
 - H. Filter
 - I. Fuel pump
 - N. Manometer
 - O. Solenoid valve (N.O.)
- N.C. = Norm. closed
 N.O. = Norm. open

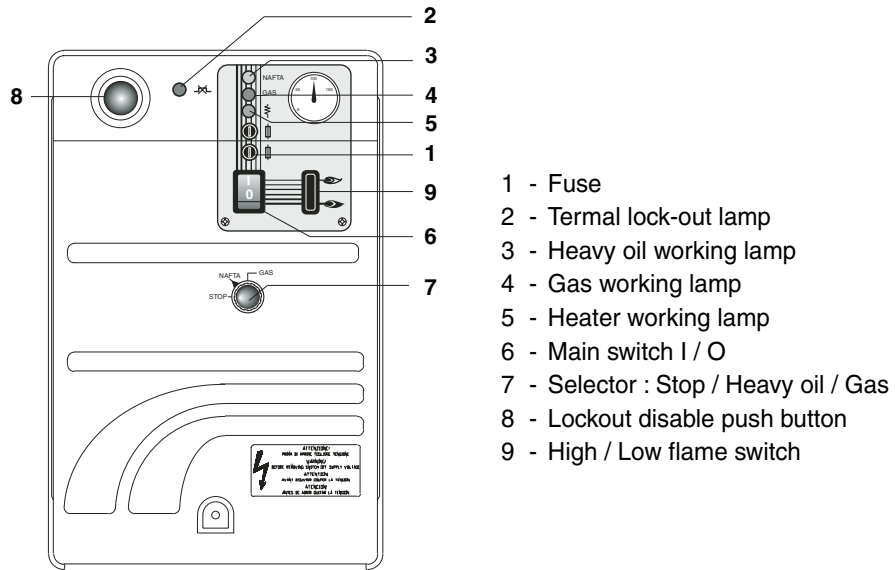
Low Flame



High Flame

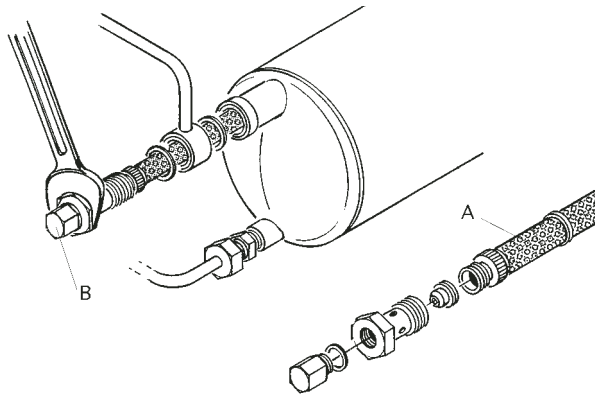


DESCRIPTION OF THE CONTROL PANEL OF THE BURNER



- 1 - Fuse
- 2 - Thermal lock-out lamp
- 3 - Heavy oil working lamp
- 4 - Gas working lamp
- 5 - Heater working lamp
- 6 - Main switch I / O
- 7 - Selector : Stop / Heavy oil / Gas
- 8 - Lockout disable push button
- 9 - High / Low flame switch

CLEANING AND MAINTENANCE OF FILTERS MOUNTED ON THE PREHEATER



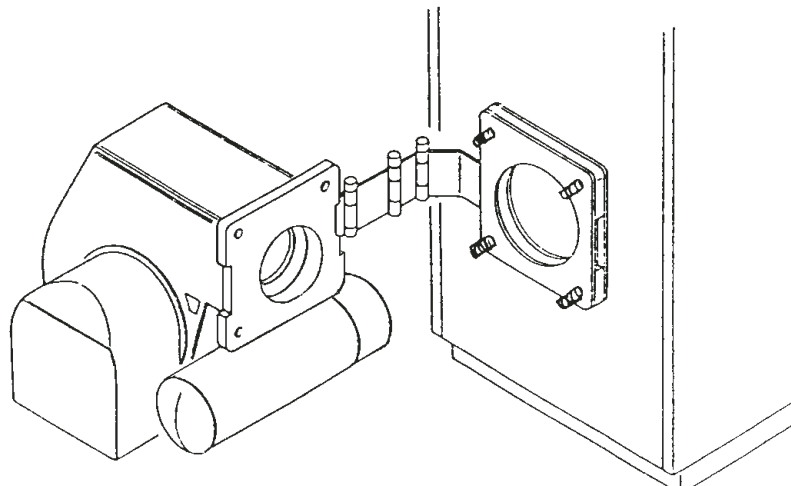
REMOVING OF THE FILTER

1. Switch-off the burner.
2. Loosen screw B and drain part of the fuel from the heater, until the fuel level drop below the filter.
3. Unscrew and pull out the stem filter A from its seat.
4. Clean the filter and reassemble the parts as shown by the picture, then fit it in its own seat.

It is advisable to replace all filter and valve gaskets whenever they are removed.

Note that when the burner is working the heater has a pressure of abt. 23 bar, and that it becomes very dangerous to carry out said operations with the burner running.

BURNER MOUNTING



MAINTENANCE

ANNUAL CHECK

The burner (combustion head, electrodes, etc.) must be checked regularly by an authorized technician, once or twice a year, depending on how much it is used. Before proceeding with the maintenance check-up on the burner, it is advisable to check the general condition of the burner and take the following steps: Disconnect the burner (remove the plug).

- Close the gas shut-off cock.
- Remove the cover from the burner, clean the fan and air intake.
- Clean the combustion head and check the position of the electrodes.
- Re-install the parts.
- Check the seal on the gas connectors.
- Check the state of the flue.
- Start the burner.
- Check the combustion parameters

BEFORE TAKING ANY ACTION, CHECK:

- that there is power in the circuit and the burner is connected;
- that the gas pressure is right and the gas shut-off cock is open;
- that the control systems are properly connected. If all these conditions have been satisfied, start the burner by pressing the reset button. Check the burner cycle.

IF THE BURNER FAILS TO START:

check the switch, the thermostats, the motor and the gas pressure, fuses burnt, resistors failure, heater thermostats open.

IF THE BURNER PROCEEDS WITH PREVENTILATION BUT CUTS OUT AT THE END OF THE CYCLE:

check the air pressure and the fan. Check the air pressure switch, UV cell failure, premature ignition due to oil leakage from solenoid valve.

IF THE BURNER PROCEEDS WITH PREVENTILATION BUT DOES NOT LIGHT:

check the installation and position of the electrodes. Electrodes dirty. Nozzles clogged. Check the ignition cable.

Check the ignition transformer. Check the safety device. Eccles of combustion air related to nozzles flow rate.

IF THE BURNER LIGHTS BUT CUTS OUT AFTER THE SAFETY INTERVAL:

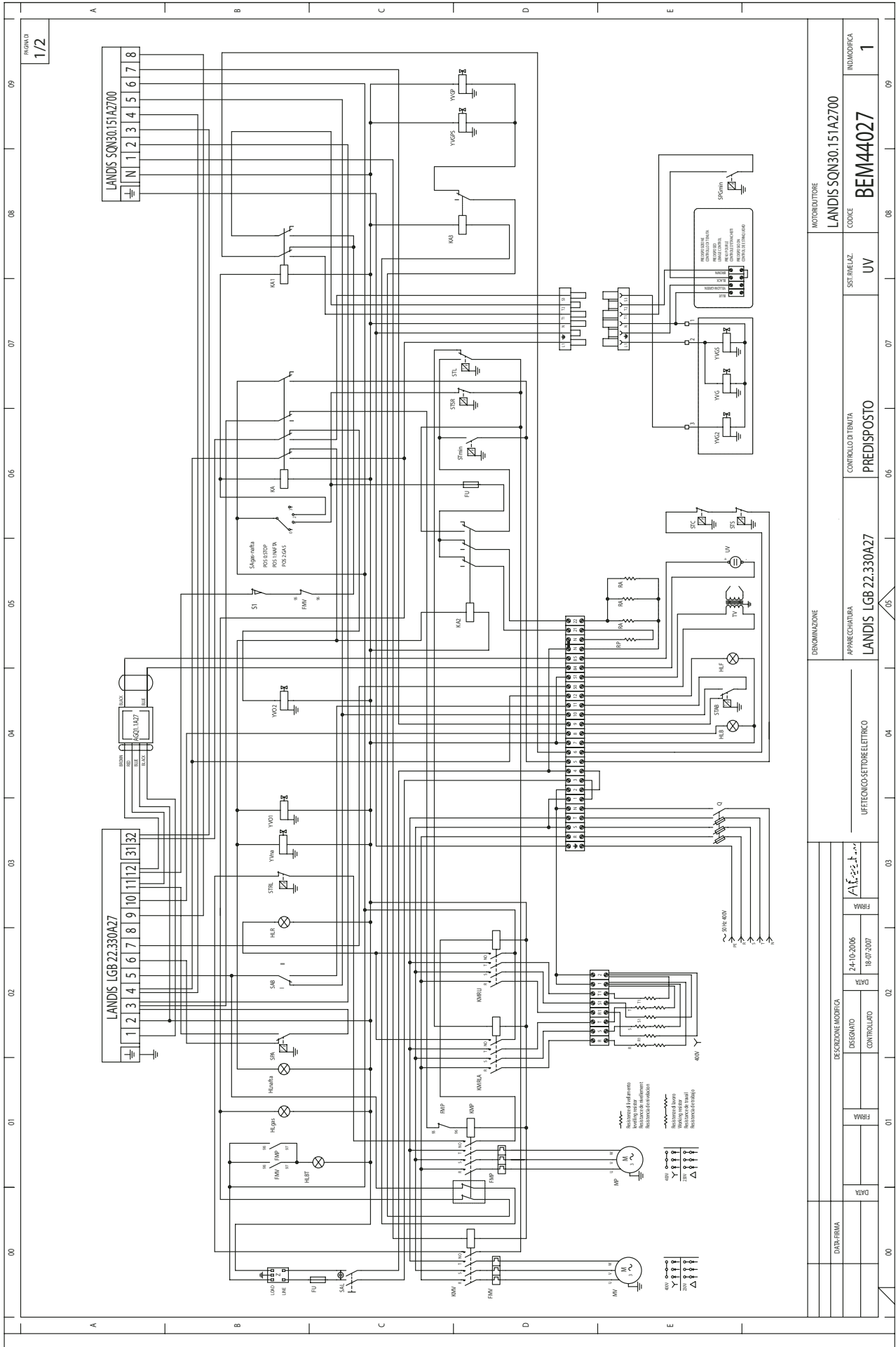
check that the phase and neutral wires are connected correctly.

Check the gas solenoid valve. Check the UV cell. Check the safety device. The oil pressure during prepurging is too low.

Filters clogged. Nozzles are too worn. The oil temperature is too low (flame jumps). Eccles of combustion air related to nozzles flow rate

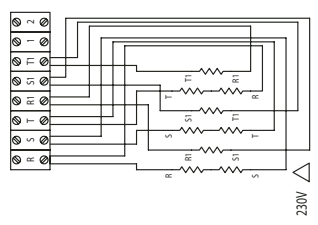
IF THE BURNER LIGHTS BUT CUTS OUT AFTER OPERATING FOR A FEW MINUTES:

check the pressure regulator and gas filter. Check the gas pressure with a pressure gauge. Check the detector value (at least 3 μ A).



DESCRIZIONE MODIFICA		FRAMA	
DATA	DESEGNATO	DATA	FRAMA
	CONTROLLO	18-07-2007	
UFFICIO TECNICO SETTORE ELETTRICO		FRAMA	
DENOMINAZIONE		FRAMA	
APPARECCHIATURA		FRAMA	
LANDIS LGB 22.330A27		FRAMA	
CONTROLLO DI TENUTA		FRAMA	
PREDISPOSTO		FRAMA	
SIST. RILIEV. UV		FRAMA	
MOTORIDUTTORE		FRAMA	
LANDIS SQN30.151A2700		FRAMA	
CODICE		FRAMA	
BEIM44027		FRAMA	
INDIMODIFICA		FRAMA	
1		FRAMA	

A		B		C		D		E	
Q	INTERRUTTORE GENERALE CON FUSIBILE MAIN SWITCH WITH FUSE INTERRUPTEUR GENERAL AVEC FUSIBLE INTERRUPTOR GENERAL CON FUSIBLE	HL w/fb	LAMPADINA FIAT OIL LAMP LAMP DE 21 ALLURE ESPA DE 21 LLAMA	YV65	ELETTRAVVALVOLA GAS DI SICUREZZA EXTRA SAFETY GAS SOLENOID VALVE ELECTROVANNE GAS DE SECURITE ELECTROVALVULA GAS DE SEGURIDAD	YV7a	ELETTRAVVALVOLA NORMALMENTE APERTA NORMALLY OPEN SOLENOID VALVE ELECTROVANNE NORMALEMENT AVERT ELECTROVANNE NORMALMENTE ABIERTA	YV01	ELETTRAVVALVOLA OLIO DI PRIMA FIAMMA FIRST STAGE HEAVY OIL SOLENOID VALVE ELECTROVANNE 1 ^o ALLURE ELECTROVALVULA FUEL PESADO DE 1 ^o LLAMA
Z	FILTRO ANTIDISTURBO ANTI JAMMING FILTER FILTRE ANTIPARASITES FILTRO DE PROTECCION ANTIDISTURBO	HLB	LAMPADA DI BLOCCO LAMP LOCK-OUT LAMP LAMPE DE SECURITE ESPA DE BLOQUEO	YV7b	ELETTRAVVALVOLA OLIO DI SECONDA FIAMMA EXTRA SAFETY PILOT SOLENOID VALVE ELECTROVANNE 2 ^o ALLURE ELECTROVALVULA FUEL PESADO DE 2 ^o LLAMA	YV02	ELETTRAVVALVOLA OLIO DI SECONDA FIAMMA EXTRA SAFETY PILOT SOLENOID VALVE ELECTROVANNE 2 ^o ALLURE ELECTROVALVULA FUEL PESADO DE 2 ^o LLAMA	YV03	ELETTRAVVALVOLA OLIO DI SECONDA FIAMMA EXTRA SAFETY PILOT SOLENOID VALVE ELECTROVANNE 2 ^o ALLURE ELECTROVALVULA FUEL PESADO DE 2 ^o LLAMA
FU	FUSIBILE FUSE FUSIBLE FUSIBLE	HLR	LAMPADA RESISTENZE RESISTOR LAMP TEMON RESISTENCES INDICADOR RESISTENCIAS	YV04	CONTATTATORE RESISTENZE LAVORO WORKING RESISTOR SWITCH INTERRUPTEUR DES RESISTANCES DE TRAVAIL INTERRUPTOR DE LAS RESISTENCIAS DE TRABAJO	KM1RA	CONTATTATORE RESISTENZE DI LIVELLAMENTO LEVELLING RESISTOR SWITCH INTERRUPTEUR DES RESISTANCES DE NIVELLEMENT INTERRUPTOR DE LAS RESISTENCIAS DE NIVELACION	5PcmIn	PRESSOSTATO GAS DI MINIMA GAS PRESSURE SWITCH MIN PRESSOSTAT GAZ PRESSEION MIN PRESOSTATO GAS DE MINIMA POT.
KA	RELE RELAYS RELE RELE	KMP	COMUTATORE MOTORE POMPA CONTACTOR MOTOR PUMP CONTACTEUR MOTEUR POMPE EMBAJAL MOTOR BOMBA	YV05	ELETTRAVVALVOLA GAS PILOTTA DI SICUREZZA EXTRA SAFETY PILOT SOLENOID VALVE ELECTROVANNE GAZ PLOTE DE SECURITE ELECTROVALVULA GAS PILOTTA	YV06	ELETTRAVVALVOLA GAS PILOTTA DI SICUREZZA EXTRA SAFETY PILOT SOLENOID VALVE ELECTROVANNE GAZ PLOTE DE SECURITE ELECTROVALVULA GAS PILOTTA	YV07	ELETTRAVVALVOLA GAS PILOTTA DI SICUREZZA EXTRA SAFETY PILOT SOLENOID VALVE ELECTROVANNE GAZ PLOTE DE SECURITE ELECTROVALVULA GAS PILOTTA
KA1	RELE RELAY RELE RELE	KMV	COMUTATORE MOTORE VENTILATORE RENOTE CONTROL SWITCH (FAN MOTOR) CONTACTEUR MOTEUR VENTILATEUR TELEMPID MOTOR VENTILADOR	YV08	LIMITATORE DI CARRETTA CARRIAGE LIMITER INTERPRETEUR DE FIN DE COURSE LIMITADOR DE CARRETTA	YV09	LIMITATORE DI CARRETTA CARRIAGE LIMITER INTERPRETEUR DE FIN DE COURSE LIMITADOR DE CARRETTA	YV10	LIMITATORE DI CARRETTA CARRIAGE LIMITER INTERPRETEUR DE FIN DE COURSE LIMITADOR DE CARRETTA
KA2	RELE RELAY RELE RELE	SAB	DEVIAZIONE ALTA-BASSA FIAMMA HIGH-LOW FLAME SWITCH INTERRUPTEUR GRANDE/PETITE ALLURE COMUNICADOR DE ALTA/BAJA LLAMA	YV11	LAMPADA DI BLOCCO TERMICO THERMAL LOCK-OUT LAMP LAMPE DE THERMAL DE SECURITE ESPA DE BLOQUEO RELE TERMICO	YV12	LAMPADA DI BLOCCO TERMICO THERMAL LOCK-OUT LAMP LAMPE DE THERMAL DE SECURITE ESPA DE BLOQUEO RELE TERMICO	YV13	LAMPADA DI BLOCCO TERMICO THERMAL LOCK-OUT LAMP LAMPE DE THERMAL DE SECURITE ESPA DE BLOQUEO RELE TERMICO
MP	MOTORE POMPA OIL PUMP MOTOR MOTEUR POMPE MOTOR BOMBA	SAL	INTERRUTTORE DI LINEA WORKING SWITCH INTERRUPTEUR DE LIGNE INTERRUPTOR DE LINEA	YV14	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV15	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV16	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA
MV	MOTORE VENTILATORE MOTOR FAN MOTEUR VENTILATEUR MOTOR VENTILADOR	SRA	PRESSOSTATO ARIA AIR PRESSURE SWITCH PRESSOSTAT AIR PRESOSTATO AIRE	YV17	TERMOSTATO DI MINIMA THERMOSTAT MIN THERMOSTAT DE MIN THERMOSTATO DE MINIMA	YV18	TERMOSTATO DI MINIMA THERMOSTAT MIN THERMOSTAT DE MIN THERMOSTATO DE MINIMA	YV19	TERMOSTATO DI MINIMA THERMOSTAT MIN THERMOSTAT DE MIN THERMOSTATO DE MINIMA
RP	RESISTENZA POMPA PUMP RESISTOR RESISTANCE POMPE RESISTENCIA BOMBA	STC	TERMOSTATO CALDIA BOILER THERMOSTAT THERMOSTAT CHAUDIERE THERMOSTATO CALDERA	YV20	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV21	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV22	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA
TV	TRASFORMATORE IGNITION TRANSFORMER TRANSFORMATEUR D'ALLUMAGE TRANSFORMADOR	STL	TERMOSTATO DI LAVORO WORKING THERMOSTAT THERMOSTAT TRAVAIL THERMOSTATO DE TRABAJO	YV23	FINCORSA STOP INTERPRETEUR DE FIN DE COURSE LIMITADOR DE CARRETTA	YV24	FINCORSA STOP INTERPRETEUR DE FIN DE COURSE LIMITADOR DE CARRETTA	YV25	FINCORSA STOP INTERPRETEUR DE FIN DE COURSE LIMITADOR DE CARRETTA
UV	FOTOCELLA CELL CELLULE UV FOTOCELLA	ST5	TERMOSTATO DI SICUREZZA SAFETY THERMOSTAT THERMOSTAT DE SECURITE THERMOSTATO DE SEGURIDAD	YV26	LAMPADA DI BLOCCO TERMICO THERMAL LOCK-OUT LAMP LAMPE DE THERMAL DE SECURITE ESPA DE BLOQUEO RELE TERMICO	YV27	LAMPADA DI BLOCCO TERMICO THERMAL LOCK-OUT LAMP LAMPE DE THERMAL DE SECURITE ESPA DE BLOQUEO RELE TERMICO	YV28	LAMPADA DI BLOCCO TERMICO THERMAL LOCK-OUT LAMP LAMPE DE THERMAL DE SECURITE ESPA DE BLOQUEO RELE TERMICO
RA	RESISTENZA AUSILIARIA AUXILIARY RESISTOR RESISTANCE AUXILAIRE RESISTENCIA AUXILIARIA	STAB	TERMOSTATO DI ALTA-BASSA FIAMMA HIGH-LOW FLAME THERMOSTAT THERMOSTAT GRANDE-PETITE ALLURE THERMOSTATO DE ALTA-BAJA LLAMA	YV29	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV30	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV31	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA
FMP	RELE TERMICO MOTORE POMPA MOTOR PUMP THERMAL RELAY RELAIS THERMIQUE MOTEUR POMPE RELE TERMICO MOTOR BOMBA	STSR	TERMOSTATO DI SICUREZZA RESISTENZE RESTOR SAFETY THERMOSTAT THERMOSTAT DE SECURITE RESISTANCES THERMOSTATO DE SEGURIDAD RESISTENCIAS	YV32	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV33	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV34	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA
FMV	RELE TERMICO MOTORE VENTILATORE MOTOR FAN THERMAL RELAY RELAIS THERMIQUE MOTEUR VENTILATEUR RELE TERMICO MOTOR VENTILADOR	STRL	TERMOSTATO RESISTENZE DI LIVELLAMENTO LEVELLING RESISTORS THERMOSTAT THERMOSTAT DES RESISTANCES DE NIVELLEMENT THERMOSTATO DE LAS RESISTENCIAS DE NIVELACION	YV35	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV36	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA	YV37	ELETTRAVVALVOLA GAS PILOTTA PILOT FLAME SOLENOID GAS VALVE ELECTROVANNE GAZ PLOTE ELECTROVALVULA GAS PILOTTA
H _g gs	LAMPADA GAS GAS LAMP LAMPE DE 11 ALLURE ESPA DE 11 LLAMA	YVG	ELETTRAVVALVOLA GAS DI PRIMA FIAMMA FIRST STAGE GAS SOLENOID VALVE ELECTROVANNE GAZ FEITE ALLURE ELECTROVALVULA GAS DE 1 ^o LLAMA						



PER ALIMENTARE IN 230V TRIFASE MODIFICARE I COLLEGAMENTI RESISTENZE COME SCHEMA, SPOSTARE IL COLLEGAMENTO DAL MORSETTO N AL MORSETTO T DELLA MORSETTIERA E CAMBIARE I COLLEGAMENTI DEL MOTORE.

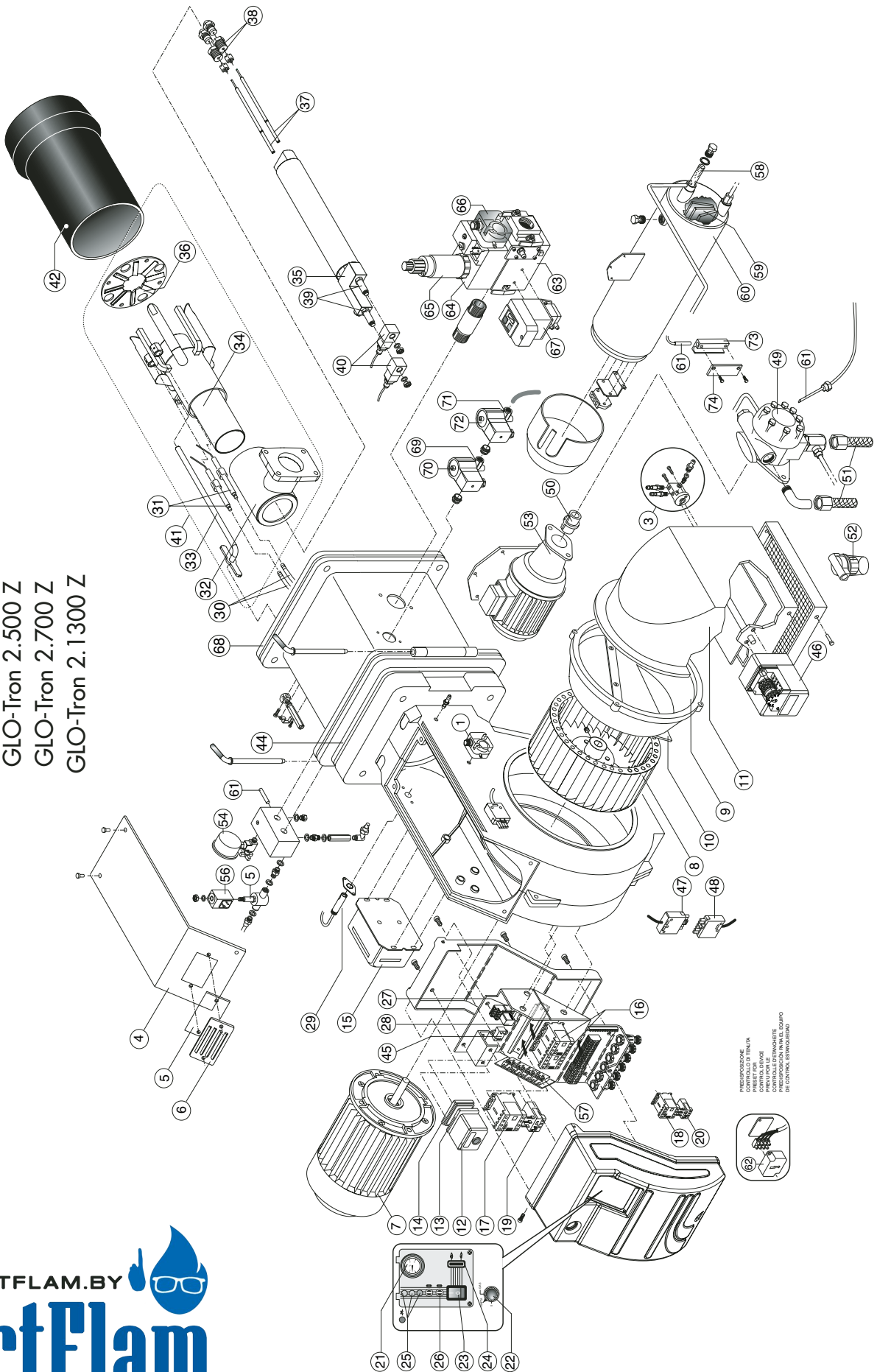
FOR 230V TREE PHASE POWER MODIFY RESISTOR CONNECTIONS FOLLOWING THE DIAGRAM, MOVE CONNECTION FROM TERMINAL N TO TERMINAL T OF TERMINAL BOARD AND MODIFY THE CONNECTIONS OF MOTOR

POUR ALIMENTATION 230V TRIPHASE MODIFIER LES CONNEXIONS DES RESISTANCES SUIVANT LE SCHEMA, DEPLACER LA CONNEXION DU BORNE N AU BORNE T DE LA BOITE A BORNES ET MODIFIER LA CONNEXION DE LA TURBINE

PARA ALIMENTACION 230V TRIFASICA MODIFICAR LAS RESISTENCIAS DE LAS RESISTENCIAS SEGUN EL SCHEMA, DESPLAZAR LA CONEXION DEL BORNE N AL BORNE T DEL TABLERO DE BORNES Y MODIFICAR LA CONEXION DEL MOTOR

IND. MOD.	DATA FIRMA	DESCRIZIONE MODIFICA		INDICAZIONE
SOSTIL	DESIGNATO	DATA	REDA	MOTORIDUTTORE
SOSTDA	CONTROLLATO	DATA	REDA	LANDIS SQNB30.151A2700
		DATA	REDA	CODE
		DATA	REDA	UV
		DATA	REDA	BEM44027
		DATA	REDA	INDICAZIONE
		DATA	REDA	PREDISPOSTO
		DATA	REDA	LANDIS LGB 22.330A27
		DATA	REDA	APPARECCHIATURA
		DATA	REDA	CONTROLLO DI TENUTA
		DATA	REDA	PREDISPOSTO
		DATA	REDA	UFFICIO CO-SETTORE ELETTRICO

GLO-Tron 2.500 Z
 GLO-Tron 2.700 Z
 GLO-Tron 2.1300 Z



PREPARAZIONE
 CONTROLLO DI TEMPERA
 CONTROLLO DI PRESSIONE
 CONTROLLI ELETTRONICHE
 CONTROLLO DI MASSA DELL'ACQUA
 CONTROLLO DI MASSA DEL GAS



N°	DESCRIPTION		GLO-Tron 2.500 Z GN 20, mbar code
1	- AIR PRESSURE SWITCH	LGW10A2P	Q120
		GW 3A4	Q106
2	- PRESSURE GAUGE		BFT01105/001
3	- AIR INTAKE SET		GRPA100
4	- COVER		BFC09151/011
5	- GLASS		BFC02004
6	- PEED WINDOM FRAME		BFC02006
7	- MOTOR	1500 W	M174/2
8	- FAN	260 x 98	BFV10156/001
9	- AIR CONVEYOR		BFC08201/017
10	- FAN SCOOP		BFC08053/001
11	- AIR INTAKE		BFC04152/011
12	- CONTROL BOX BASE	LANDIS	A401
13	- CONTROL BOX	LANDIS LGB22.330A2EM	A130/1
14	- ADAPTER	LANDIS AGQ1.1A27 X LGB	E1202/11
15	- IGNITION TRANSFORMER	BRADMA T8 13000/35	T101
16	- REMOTE CONTROL SWITCH	AEG LS05.10	R621
		AEG LS4K.10	R621/1
17	- REMOTE CONTROL SWITCH (MOTOR)	AEG LS4K.10	R621/1
18	- REMOTE CONTROL SWITCH (PUMP)	AEG LS05.10	R621
19	- MOTOR THERMAL RELAY (MOTOR)	AEG 4-6,3A	R521/4
20	- MOTOR THERMAL RELAY (PUMP)	AEG 1.35-2A	R521/1
21	- THERMOMETER	IMIT sc.0-200	R301/2
22	- GAS/HEAVY OIL SWITCH	cod.360000001	R1020/1
23	- MAIN SWITCH	cod.4010011509	R1020
24	- MANUAL / AUTOMATIC SELECTOR		-
25	- LAMP	EL/N-SC4 Elettrospring	E1510/1
26	- FUSE SUPPORT	FUSIT FH-B528	E802/2
27	- RELAY BASE	FINDER 95.75	R910
		Finder 5534	R906
28	- RELAY	FINDER MINI 40.52	R712/1
		Finder 5534	R712
29	- UV CELL	LANDIS QRA	A205
30	- IGNITION CABLE	TC	
		TL	BFE01403/3
31	- IGNITION ELECTRODES SET		E612
32	- PIPE	TC	BFT13139/001
		TL	BFT13141/001
33	- ROD	TC	BFA08067/001
		TL	BFA08066/001
34	- FIRING HEAD GAS	TC	BFT13138/001
		TL	BFT13140/001
35	- FIRING HEAD HEAVY OIL	TC	BFT15096/001
		TL	BFT15091/001
36	- FRONT DISC		BFD07049
37	- ROD NOZZLE HOLDER	TC	GRSP007
		TL	GRSP008
38	- NOZZLE HOLDER		BFT15006
39	- OIL VALVE	PARKER SCEM 120.8AR JB 18	V175/7
40	- COIL	PARKER	V516/7
41	- INNER ASSEMBLY		
42	- BLAST TUBE	TC	BFBO6007/017
		TL	BFBO6008/017
43	- BLAST TUBE END		-
44	- GASKET ISOMART	260X255D200	BFG03003
45	- ANTIJAMMING FILTER		S132/4
46	- AIR DAMPER MOTOR	LANDIS SQN30.151A2700	M212/3
47	- WIELAND PLUG	6 pin	E226
48	- WIELAND SOCKET	6 pin	E226/1
49	- OIL PUMP	SUNTEC E 4NC 10695	P106
50	- COUPLING		MP501/4
51	- HOSES	TN 25X1500	S901
52	- OIL FILTER	70501/03	S107/5
53	- PUMP MOTOR	SIMEL 550 W	M147/8
54	- MANOMETER	CEWAL R1/4 D50 40 BAR	S601/1
55	- OIL VALVE	PARKER SCEM 120.8AR JB 18	V175/7
56	- COIL	PARKER	V516/7
57	- THERMOSTAT	IMIT TR2 40/200	R801/2
58	- FILTER		BFP01112
59	- HEATER	4650 W	R120
60	- OIL TANK		BFPO1011/017
61	- HEATING ELEMENT PUMP	50 W	R110
62	- COVER		BFC02034
63	- GAS VALVE	DUNGS MB-ZRDLE415	V163/2
		DUNGS MB-ZRDLE420	V163/3
64	- COIL	1° st.stage DUNGS 410/412	V204
65	- COIL	2° nd.stage DUNGS 410/412	V204/1
66	- GAS PRESSURE SWITCH	DUNGS LGW10 A2P	Q120
67	- LEAKAGE CONTROL	DUNGS VPS 504	V185
68	- GASKET ISOMART	300X300D225	BFG04011
69	- PILOT GAS VALVE	BRADMA E12S	V142
		E6G*SRP	V109
70	- COIL	BRADMA E12S	
71	- PILOT GAS VALVE	BRADMA E12SR	V142/1
		E6G*S P	V108
72	- COIL	BRADMA E12SR	
Version D			
73	- PREHEATED'S AUX. RESISTOR HOLDER		BFT15212/1
74	- FIXING PLATE		BFT15212/2

TC = SHORT HEAD TL = LONG HEAD

N°	DESCRIPTION	GLO-Tron 2.700 Z GN 300 mbar code
1	- AIR PRESSURE SWITCH DUNGS GW 3A4	Q106
2	- PRESSURE GAUGE	BFT01105/001
3	- AIR INTAKE SET	GRPA100
4	- COVER	BFC09151/011
5	- GLASS	BFC02004
6	- PEED WINDOM FRAME	BFC02006
7	- MOTOR 1500 W	M174/2
8	- FAN 260 x 98	BFV10156/001
9	- AIR CONVEYOR	BFC08201/017
10	- FAN SCOOP	BFC08053/001
11	- AIR INTAKE	BFC04152/011
12	- CONTROL BOX BASE LANDIS	A401
13	- CONTROL BOX LANDIS LGB22.330A2EM	A130/1
14	- ADAPTER LANDIS AGQ1.1A27 X LGB	E1202/11
15	- IGNITION TRANSFORMER BRAHMA T8 13000/35	T101
16	- REMOTE CONTROL SWITCH AEG LS05.10	R621
	AEG LS4K.10	R621/1
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19	- MOTOR THERMAL RELAY (MOTOR) AEG 4-6,3A	R521/4
20	- MOTOR THERMAL RELAY (PUMP) AEG 1.35-2A	R521/1
21	- THERMOMETER IMIT sc.0-200	R301/2
22	- GAS/HEAVY OIL SWITCH cod.360000001	R1020/1
23	- MAIN SWITCH cod.4010011509	R1020
24	- MANUAL / AUTOMATIC SELECTOR	-
25	- LAMP EL/N-SC4 Elettrospring	E1510/1
26	- FUSE SUPPORT FUSIT FH-B528	E802/2
27	- RELAY BASE FINDER 95,75	R910
	Finder 5534	R906
28	- RELAY FINDER MINI 40.52	R712/1
	Finder 5534	R712
29	- UV CELL LANDIS QRA	A205
30	- IGNITION CABLE TC	BFE01403/2
	TL	BFE01403/3
31	- IGNITION ELECTRODES SET	E612
32	- PIPE TC	BFT13139/001
	TL	BFT13141/001
33	- ROD TC	BFA08067/001
	TL	BFA08066/001
34	- FIRING HEAD GAS TC	BFT13138/001
	TL	BFT13140/001
35	- FIRING HEAD HEAVY OIL TC	BFT15096/001
	TL	BFT15091/001
36	- FRONT DISC	BFD07049
37	- ROD NOZZLE HOLDER TC	GRSP007
	TL	GRSP008
38	- NOZZLE HOLDER	BFT15006
39	- OIL VALVE PARKER SCEM 120.8AR JB 18	V175/7
40	- COIL PARKER	V516/7
41	- INNER ASSEMBLY	
42	- BLAST TUBE TC	BFB06007/017
	TL	BFB06008/017
43	- BLAST TUBE END	-
44	- GASKET ISOMART 260X255D200	BFG03003
45	- ANTIJAMMING FILTER	S132/4
46	- AIR DAMPER MOTOR LANDIS SQN30.151A2700	M212/3
47	- WIELAND PLUG 6 pin	E226
48	- WIELAND SOCKET 6 pin	E226/1
49	- OIL PUMP SUNTEC E 4NC 10695	P106
50	- COUPLING	MP501/4
51	- HOSES TN 25X1500	S901
52	- OIL FILTER 70501/03	S107/5
53	- PUMP MOTOR SIMEL 550 W	M147/8
54	- MANOMETER CEWAL R1/4 D50 40 BAR	S601/1
55	- OIL VALVE PARKER SCEM 120.8AR JB 18	V175/7
56	- COIL PARKER	V516/7
57	- THERMOSTAT IMIT TR2 40/200	R801/2
58	- FILTER	BFP01112
59	- HEATER 4650 W	R120
60	- OIL TANK	BFP01011/017
61	- HEATING ELEMENT PUMP 50 W	R110
62	- COVER	BFC02034
63	- GAS VALVE DUNGS MB-ZRDLE410	V161
64	- COIL 1° st.stage DUNGS 410/412	V204
65	- COIL 2° nd.stage DUNGS 410/412	V204/1
66	- GAS PRESSURE SWITCH DUNGS LGW10 A2P	Q120
67	- LEAKAGE CONTROL DUNGS VPS 504	V185
68	- GASKET ISOMART 300X300D225	BFG04011
69	- PILOT GAS VALVE BRAHMA E6G*S P	V108
70	- COIL BRAHMA E6G*S P	
71	- PILOT GAS VALVE BRAHMA E6G*SRP	V109
72	- COIL BRAHMA E6G*SRP	
Version D		
73	- PREHEATED'S AUX. RESISTOR HOLDER	BFT15212/1
74	- FIXING PLATE	BFT15212/2

TC = SHORT HEAD TL = LONG HEAD

N°	DESCRIPTION	GLO-Tron 2.1300 Z GN 40, mbar code
1	- AIR PRESSURE SWITCH DUNGS LGW10A2P	Q120
2	- PRESSURE GAUGE	BFT01105/001
3	- AIR INTAKE SET	GRPA100
4	- COVER	BFC09151/011
5	- GLASS	BFC02004
6	- PEED WINDOM FRAME	BFC02006
7	- MOTOR 2200 W	M167
8	- FAN 260x110	BFV10151/001
9	- AIR CONVEYOR	BFC08201/017
10	- FAN SCOOP	BFC08053/001
11	- AIR INTAKE	BFC04152/011
12	- CONTROL BOX BASE LANDIS	A401
13	- CONTROL BOX LANDIS LGB22.330A2EM	A130/1
14	- ADAPTER LANDIS AGQ1.1A27 X LGB	E1202/11
15	- IGNITION TRANSFORMER BRAHMA T8 13000/35	T101
16	- REMOTE CONTROL SWITCH AEG LS05.10	R621
	AEG LS4K.10	R621/1
17	- REMOTE CONTROL SWITCH (MOTOR) AEG LS4K.10	R621/1
18	- REMOTE CONTROL SWITCH (PUMP) AEG LS05.10	R621
19	- MOTOR THERMAL RELAY (MOTOR) AEG 4-6.3A	R521/4
20	- MOTOR THERMAL RELAY (PUMP) AEG 1.35-2A	R521/1
21	- THERMOMETER IMIT sc.0-200	R301/2
22	- GAS/HEAVY OIL SWITCH cod.36000001	R1020/1
23	- MAIN SWITCH cod.4010011509	R1020
24	- MANUAL / AUTOMATIC SELECTOR	-
25	- LAMP EL/N-SC4 Elettrospring	E1510/1
26	- FUSE SUPPORT FUSIT FH-B528	E802/2
27	- RELAY BASE FINDER 95.75	R910
	Finder 5534	R906
28	- RELAY FINDER MINI 40.52	R712/1
	Finder 5534	R712
29	- UV CELL LANDIS QRA	A205
30	- IGNITION CABLE TC	E1102/19
	TL	E612
31	- IGNITION ELECTRODES SET	BFT13139/001
32	- PIPE TC	BFT13141/001
	TL	BFA08067/001
33	- ROD TC	BFA08066/001
	TL	BFT13138/001
34	- FIRING HEAD GAS TC	BFT13140/001
	TL	BFT15096/001
35	- FIRING HEAD HEAVY OIL TC	BFT15091/001
	TL	BFD07049
36	- FRONT DISC	GRSP007
37	- ROD NOZZLE HOLDER TC	GRSP008
	TL	BFT15006
38	- NOZZLE HOLDER	V175/7
39	- OIL VALVE PARKER SCEM 120.8AR JB 18	V516/7
40	- COIL PARKER	
41	- INNER ASSEMBLY	
42	- BLAST TUBE TC	BFB06004/103
	TL	BFB06004/203
43	- BLAST TUBE END	-
44	- GASKET ISOMART 260X255D200	BFG03003
45	- ANTIJAMMING FILTER	S132/4
46	- AIR DAMPER MOTOR LANDIS SQN30.151A2700	M212/3
47	- WIELAND PLUG 6 pin	E226
48	- WIELAND SOCKET 6 pin	E226/1
49	- OIL PUMP SUNTEC E6 NC	P107
50	- COUPLING	MP501/4
51	- HOSES TN 25X1500 1'	S901/2
52	- OIL FILTER 70501/03	S107/5
53	- PUMP MOTOR SIMEL 740 W	M147/8
54	- MANOMETER CEWAL R1/4 D50 40 BAR	S601/1
55	- OIL VALVE PARKER SCEM 120.8AR JB 18	V175/7
56	- COIL PARKER	V516/7
57	- THERMOSTAT IMIT TR2 40/200	R801/2
58	- FILTER	BFP01114
59	- HEATER 7050 W	R121
60	- OIL TANK	BFP01009/017
61	- HEATING ELEMENT PUMP 50 W	R110
62	- COVER	BFC02034
63	- GAS VALVE DUNGS MB-ZRDLE 420	V163/3
64	- COIL 1° st.stage DUNGS 420	
65	- COIL 2° nd.stage DUNGS 420	
66	- GAS PRESSURE SWITCH DUNGS LGW10 A2P	Q120
67	- LEAKAGE CONTROL DUNGS VPS 504	V185
68	- GASKET ISOMART 300X300D225	BFG04011
69	- PILOT GAS VALVE BRAHMA EG12*S	V142
70	- COIL BRAHMA EG12*S	
71	- PILOT GAS VALVE BRAHMA EG12*SR	V142/1
72	- COIL BRAHMA EG12*SR	
Version D		
73	- PREHEATED'S AUX. RESISTOR HOLDER	BFT15212/1
74	- FIXING PLATE	BFT15212/2

TC = SHORT HEAD TL = LONG HEAD

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