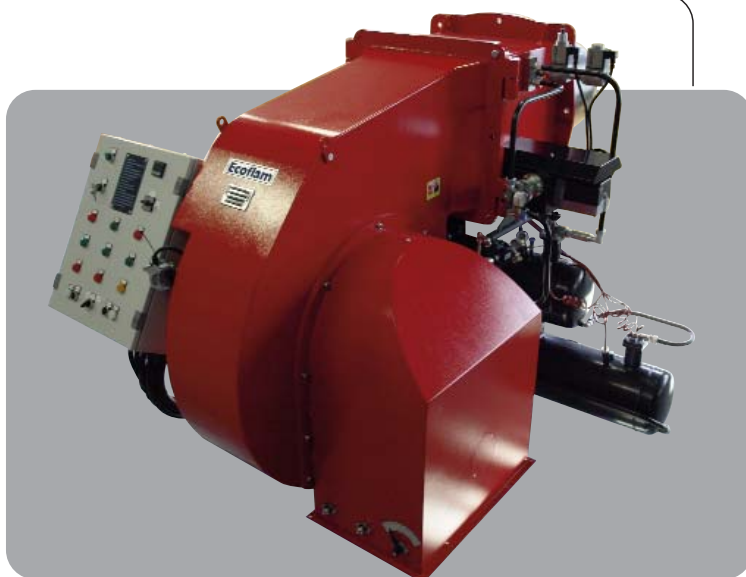


# HEAVY OIL BURNERS

# Ecoflam



OILFLAM 1500.1 PR

OILFLAM 1800.1 PR

AIR DAMPER MOTOR  
230 / 400 V 50 Hz



420010293901

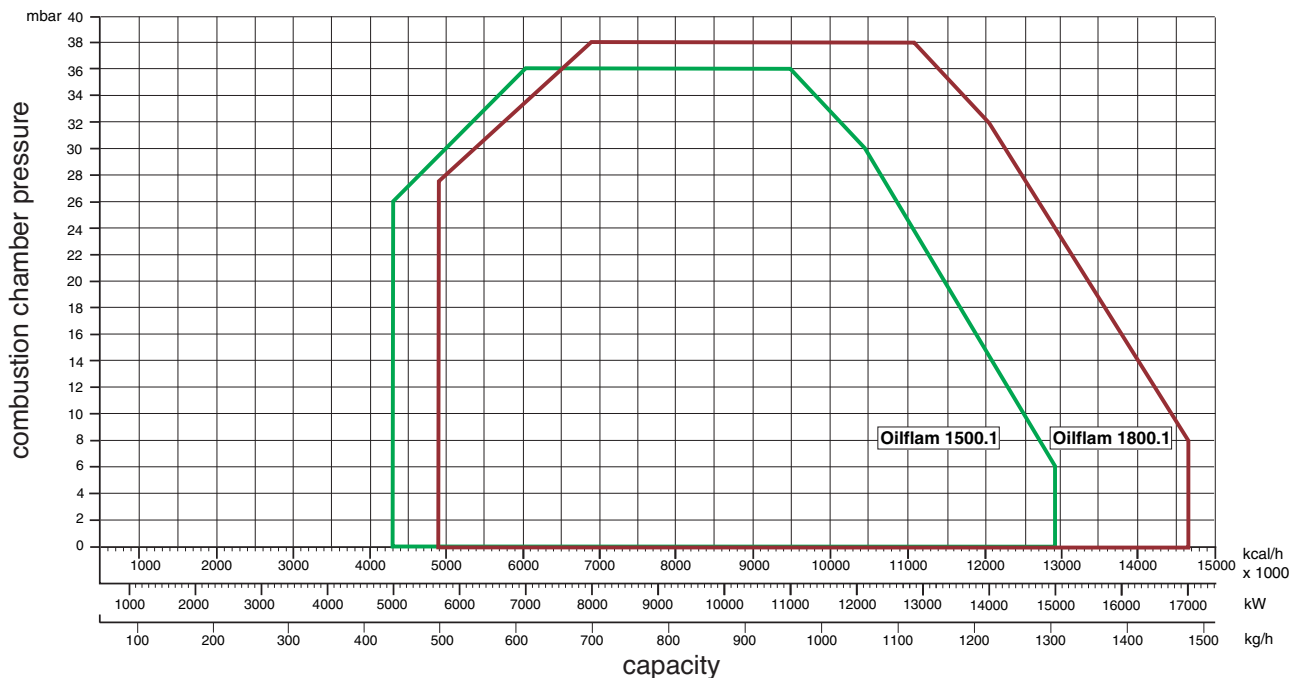
420010293901

30.06.2014

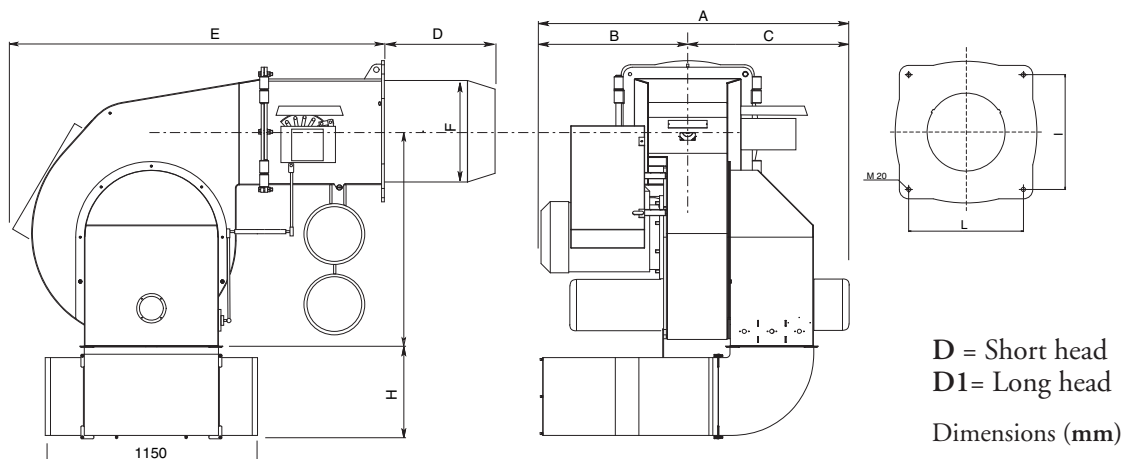
### TECHNICAL DATA

| MODELS                   |         | OILFLAM 1500.1                                          | OILFLAM 1800.1 |
|--------------------------|---------|---------------------------------------------------------|----------------|
| Thermal power max.       | kcal/h  | 12.931.000                                              | 14.655.000     |
|                          | kW      | 15.000                                                  | 17.000         |
| Thermal power min.       | kcal/h  | 4.310.000                                               | 4.914.000      |
|                          | kW      | 5.000                                                   | 5.700          |
| Max. flow rate heavy oil | kg/h    | 1.319                                                   | 1.495          |
| Min. flow rate heavy oil | kg/h    | 440                                                     | 501            |
| Feeding power            | 50 Hz V | 230/400                                                 | 230/400        |
| Fan motor                | kW      | 45                                                      | 55             |
| Pump motor               | kW      | 4                                                       | 4              |
| Rpm                      | Nº      | 2.800                                                   | 2.800          |
| Ignition transformer     | kV/mA   | 8/20                                                    | 8/20           |
| Control box              | LANDIS  | LAL 1.25                                                | LAL 1.25       |
| Fuel :                   |         | Heavy oil (L.C.V. 9.800 kcal/kg max. visc 50°E at 50°C) |                |

### WORKING FIELDS

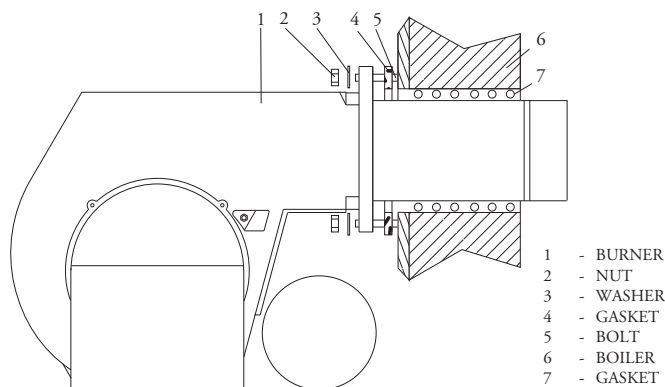


### OVERALL DIMENSIONS

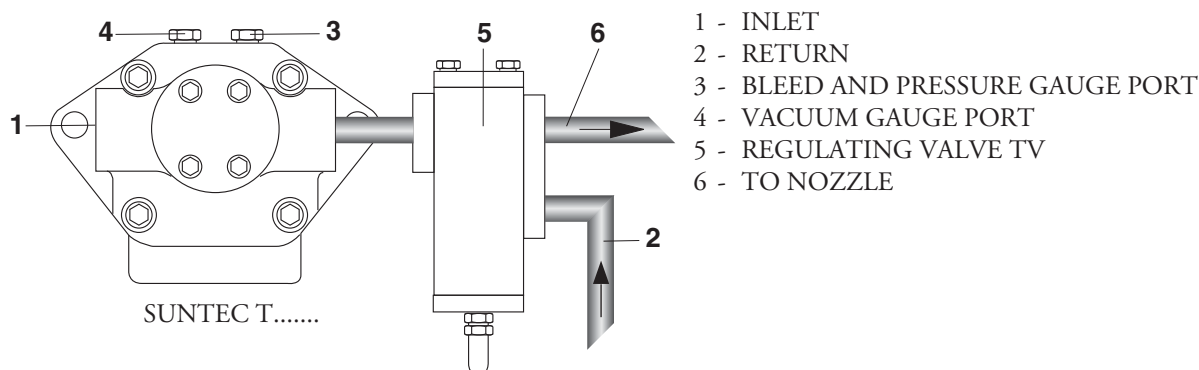


| MODELS            | A    | B   | C    | D   | D1 | E    | F   | G    | H   | I   | L   | M   |
|-------------------|------|-----|------|-----|----|------|-----|------|-----|-----|-----|-----|
| Oilflam 15/1800.1 | 1948 | 860 | 1088 | 590 | -  | 1910 | 550 | 1167 | 530 | 620 | 620 | M20 |

## BURNER INSTALLATION



## PRIMING AND ADJUSTMENT OF OIL PUMP



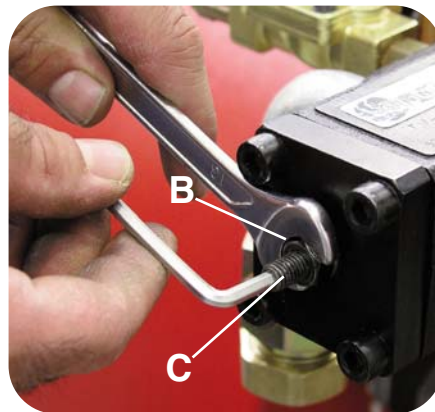
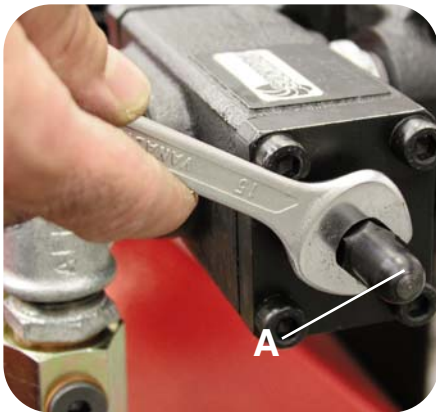
**WARNING:** For a correct working of the pump, verify what follows:

|                              |                     |
|------------------------------|---------------------|
| Pump :                       | SUNTEC T...C105     |
| Oil temperature at the pump: | Max. 140 °C         |
| Maximum allowable pressures: | Max. 5 bar on inlet |

### VERIFY:

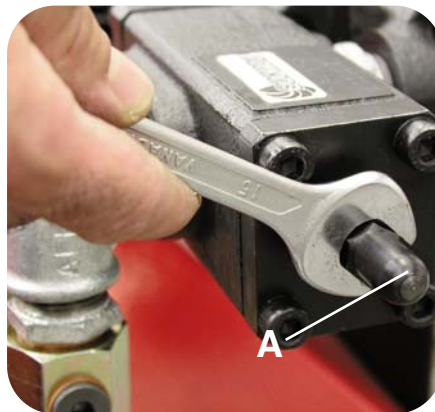
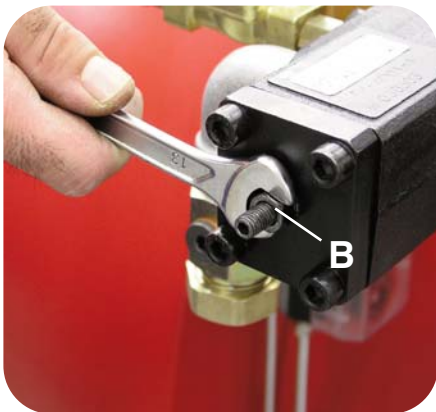
- That piping system is perfectly sealed;
- That the use of hoses is avoided whenever is possible (use copper pipes preferably);
- That depression is not greater than 0,45 bar, to avoid pump's cavitation;
- That check valve is suitably designed for the duty;

The pump pressure is set at a value of 22-25 bar during the testing of burners. Before starting the burner, bleed the air in the pump through the gauge port. Fill the piping with light-oil to facilitate the pump priming. Start the burner and check the pump feeding pressure. In case the pump priming does not take place during the first prepurging, with a consequent, subsequent lock-out of the burner, rearm the burner's lock-out to restart, by pushing the button on the control box. If, after a successful pump priming, the burner locks-out after the prepurging, due to a fuel pressure drop in the pump, rearm the burner's lock-out to restart the burner. Do never allow the pump working without oil for more than three minutes. Note: before starting the burner, check that the return pipe is open. An eventual obstruction could damage the pump sealing device.

**PRESSURE REGULATING VALVE ADJUSTMENT**

1) Remove the cap A of the pressure regulating valve TV.

2) Loosen the fixing nut B and use an allen wrench on the screw C to adjust the delivery oil pressure. To increase the pressure turn clockwise, to decrease the pressure turn anti-clockwise.

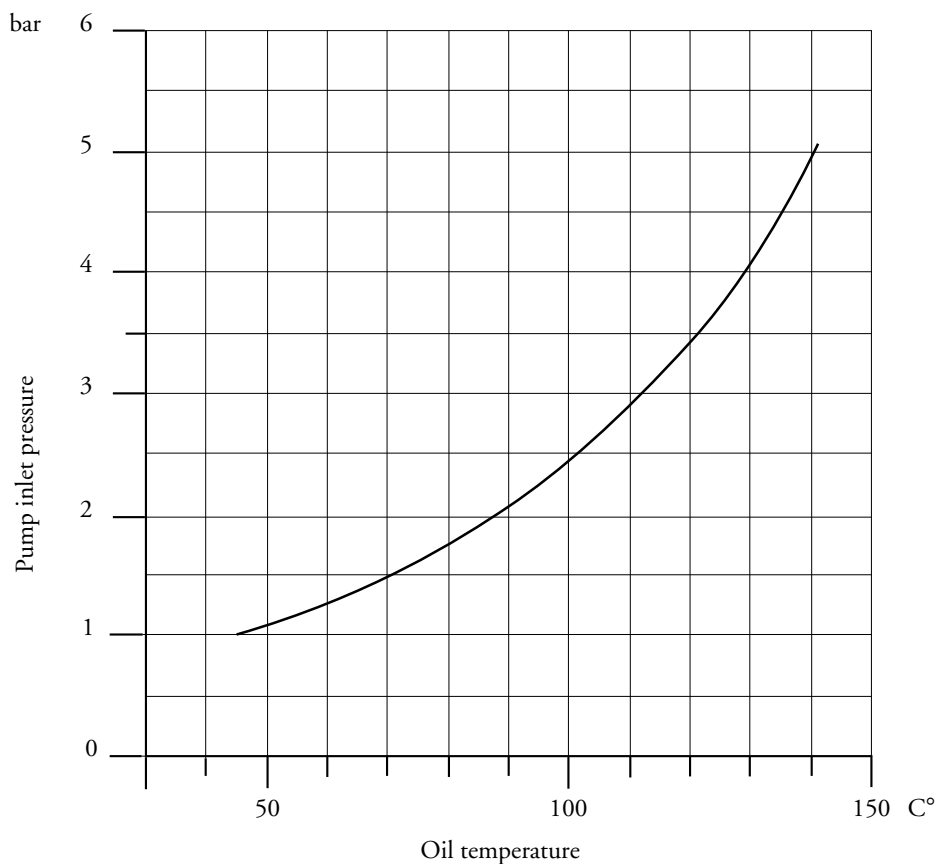


3) Tighten the nut B and pay attention not to turn also the adjusting screw.

4) Screw on the cap A, back to its previous position.

### PUMP'S PRESSURE / OIL TEMPERATURE DIAGRAM

Pump inlet pressure: the vaporisation of light fraction of heated heavy oil causes premature pump wear, to avoid this, use the inlet pressures shown in the graph.



### 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



## TV VALVE

**This is a general specification leaflet ; for specific applications not covered herein, contact Suntec.**

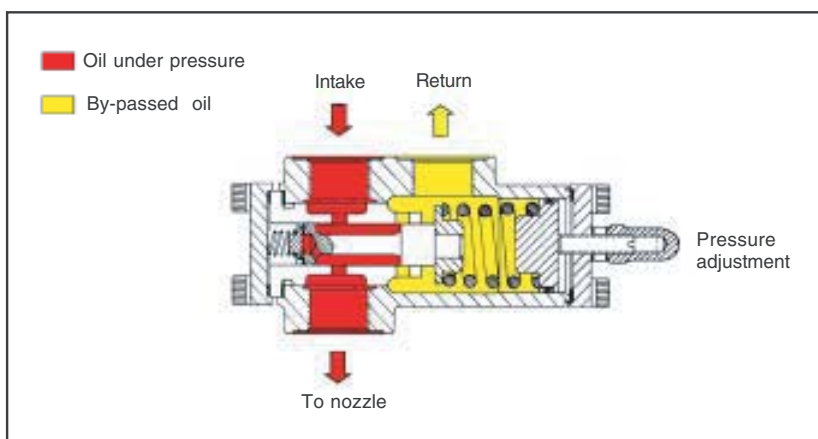
The SUNTECTV valve is a pressure regulating valve.

## APPLICATIONS

- Light and heavy oil.
- Capacity up to 5000 l/h.
- May be used with the SUNTECT pump.

## VALVE OPERATING PRINCIPLE

The pressure of the nozzle line is adjusted with the adjusting screw of the TV valve. The oil in excess to nozzle requirement is dumped to the return.

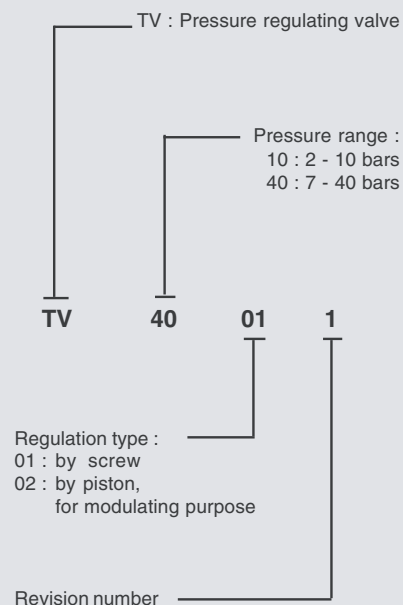


TV

TV - 11 - Ed 4 - June 99

## VALVE IDENTIFICATION

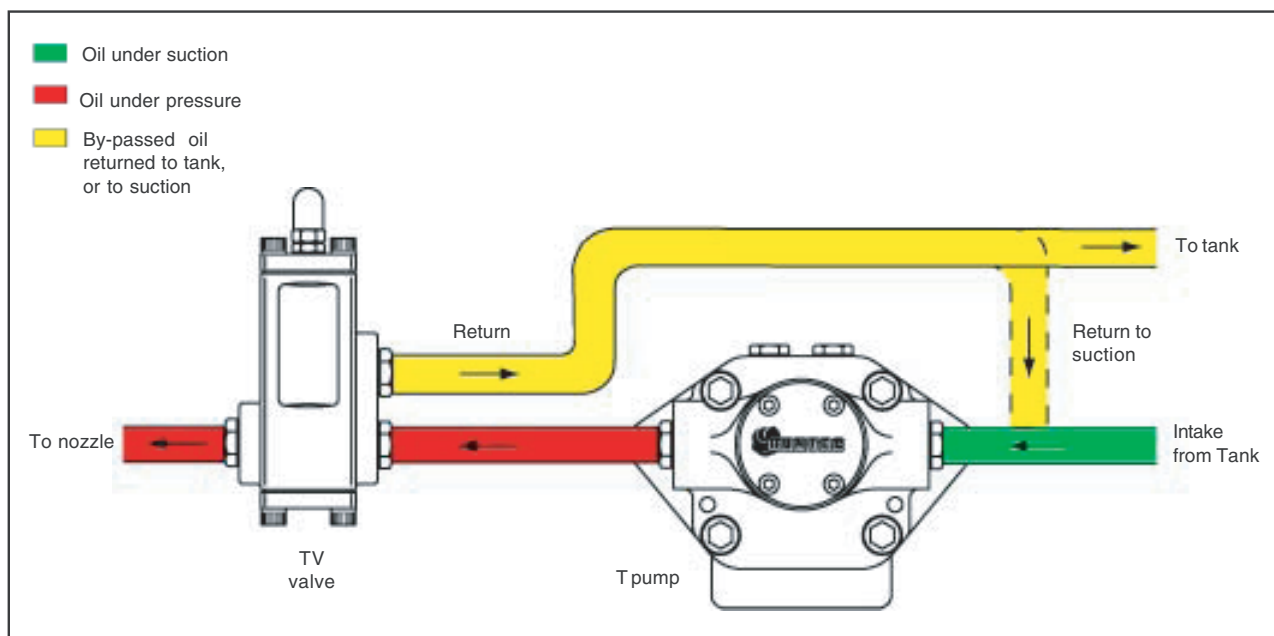
(Not all model combinations are available  
Consult your Suntec representative)



## INSTALLATION

Two pipe system : oil in excess is returned to tank.

One pipe system : oil in excess is returned to pump suction.



TECHNICAL DATA

General

|                    |                                    |
|--------------------|------------------------------------|
| Connection threads | Cylindrical according to ISO 228/1 |
| Inlet              | G 3/4                              |
| Nozzle outlet      | G 3/4                              |
| Return             | G 3/4                              |
| Weight             | 3 kg                               |

Hydraulic data

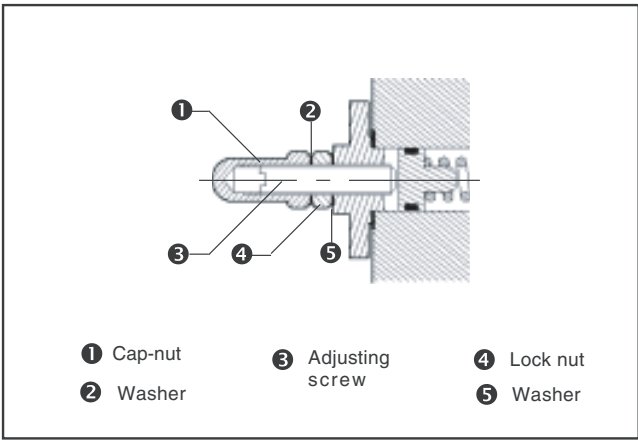
|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Pressure ranges     | 10 : 2 - 10 bars<br>(delivery pressure setting : 7 bars)  |
|                     | 40 : 7 - 40 bars<br>(delivery pressure setting : 20 bars) |
| Operating viscosity | 4 - 450 cSt                                               |
| Oil temperature     | 0 - 140°C max. in the valve.                              |

MOUNTING POSITION

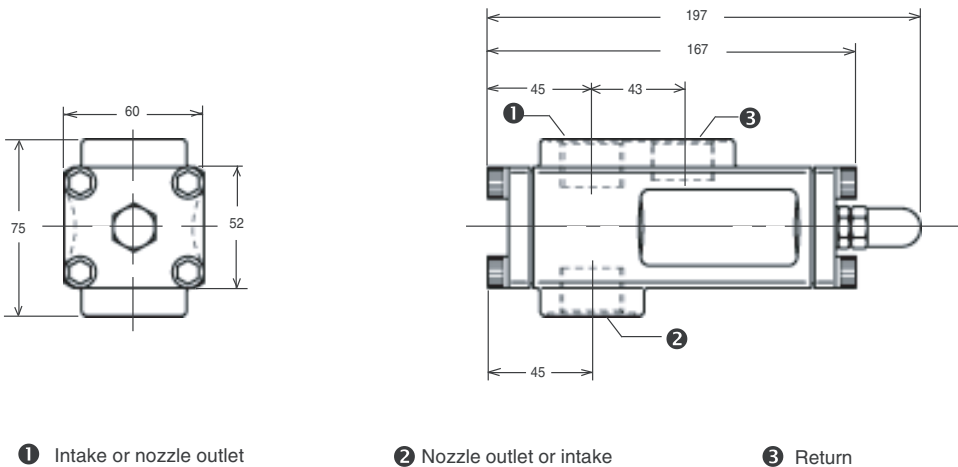
TV valve may be mounted in any position.

PRESSURE ADJUSTMENT

Remove cap-nut ❶ and washer ❷, unscrew lock-nut ❹.  
To increase pressure, turn adjusting screw ❸ clockwise.  
To decrease the pressure, turn screw anticlockwise.  
Block lock-nut ❹, refasten washer ❷ and cap-nut ❶.



DIMENSIONS





## OIL PUMP TYPE T GEAR SIZES 2-3-4-5

**This is a general specification leaflet ; for specific applications not covered herein, contact Suntec.**

The SUNTEC T oil pump is specially designed for industrial heating applications using light or heavy oils with high capacity. It is fitted with a preheater location to render cold starting easier.

### APPLICATIONS

- Light and heavy oil.
- SUNTEC recommend the use of a SUNTEC TV valve to regulate the pump pressure.

### PUMP OPERATING PRINCIPLE

The gear set draws oil from the tank and transfers it to an external valve that regulates the oil pressure.

#### Bleed :

The plug of the pressure gauge port must be loosened until the air is evacuated from the system.

#### Note :

The bypass plug inserted between high pressure and shaft seal is only intended to change the pump rotation, check the presence of this plug with a 4 mm Allen key in the pressure outlet of the pump.

**Caution :** changing the direction of pump rotation involves changing of all pump connections.

### PREHEATING FACILITY

Care should be taken to avoid starting pump with high viscosity cold oil leading to pump and coupling damage. For this reason, the T pump body includes a drilling to accept an electric preheater. This drilling has been located to give maximum heat transfer from the heater to the oil in the pump without there being direct contact between the heater cartridge and the oil.

Heaters should be connected for a period of time prior to starting the pump. When the right temperature is reached, they can be switched off or left permanently switched on to maintain fluid oil in the pump during the periodic burner shut-downs.

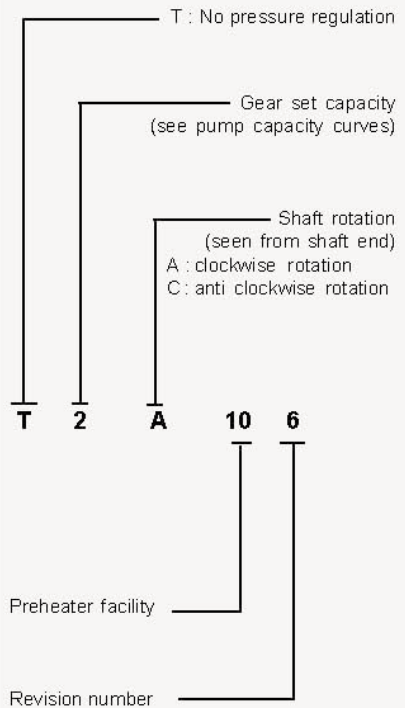
The oil supply, pipes and filters must be separately heated.

# T

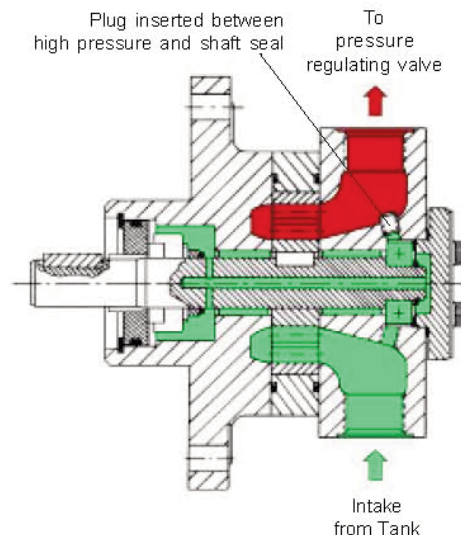
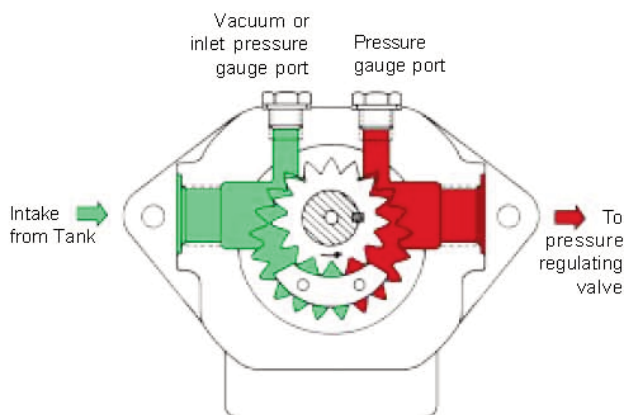
T - 11 - Ed 10 - May 2004

### PUMP IDENTIFICATION

(Not all model combinations are available  
Consult your Suntec representative)



- Oil under suction
- Oil under pressure



## TECHNICAL DATA

### General

|                    |                                    |
|--------------------|------------------------------------|
| Mounting           | Flange mounting                    |
| Connection threads | Cylindrical according to ISO 228/1 |

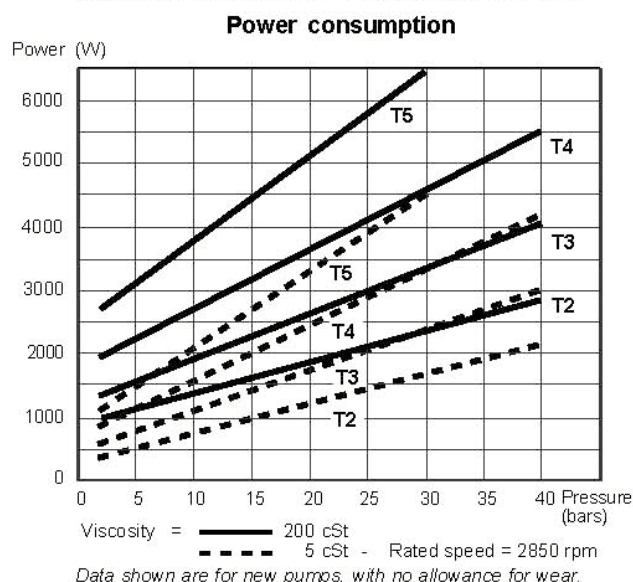
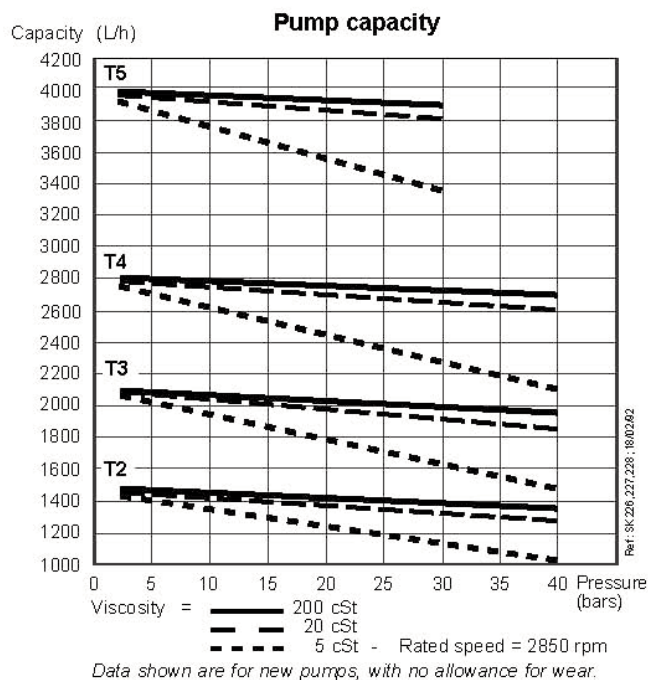
|        |                           |
|--------|---------------------------|
| Shaft  | Ø 20 mm                   |
| Weight | 7,8 kg (T2) - 8,1 kg (T3) |
|        | 8,7 kg (T4) - 9,4 kg (T5) |

### Hydraulic data

|                       |                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------|
| Nozzle pressure range | 40 bars max. (T2, T3, T4)<br>30 bars max. (T5)                                                   |
| Operating viscosity   | 4 - 450 mm <sup>2</sup> /s (cSt)                                                                 |
| Oil temperature       | 0 - 140°C in the pump                                                                            |
| Inlet pressure        | light oil: 0,45 bars max. vacuum to prevent<br>air separation from oil<br>heavy oil: 5 bars max. |
| Rated speed           | 3600 rpm max.                                                                                    |
| Torque (@ 40 rpm)     | 0,4 N.m                                                                                          |

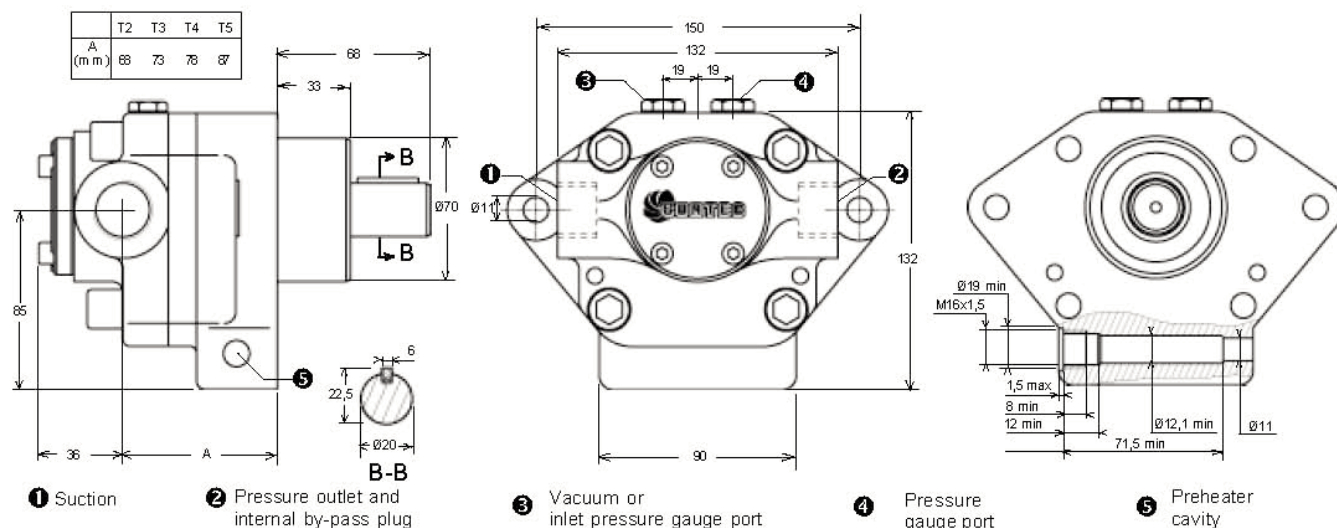
### Choice of heater

|           |                       |
|-----------|-----------------------|
| Cartridge | Ø 12 mm               |
| Fitting   | according to EN 50262 |
| Rating    | 80-100 W              |



## PUMP DIMENSIONS

Example shows "A" rotation - Reverse all pump connections for "C" rotation.

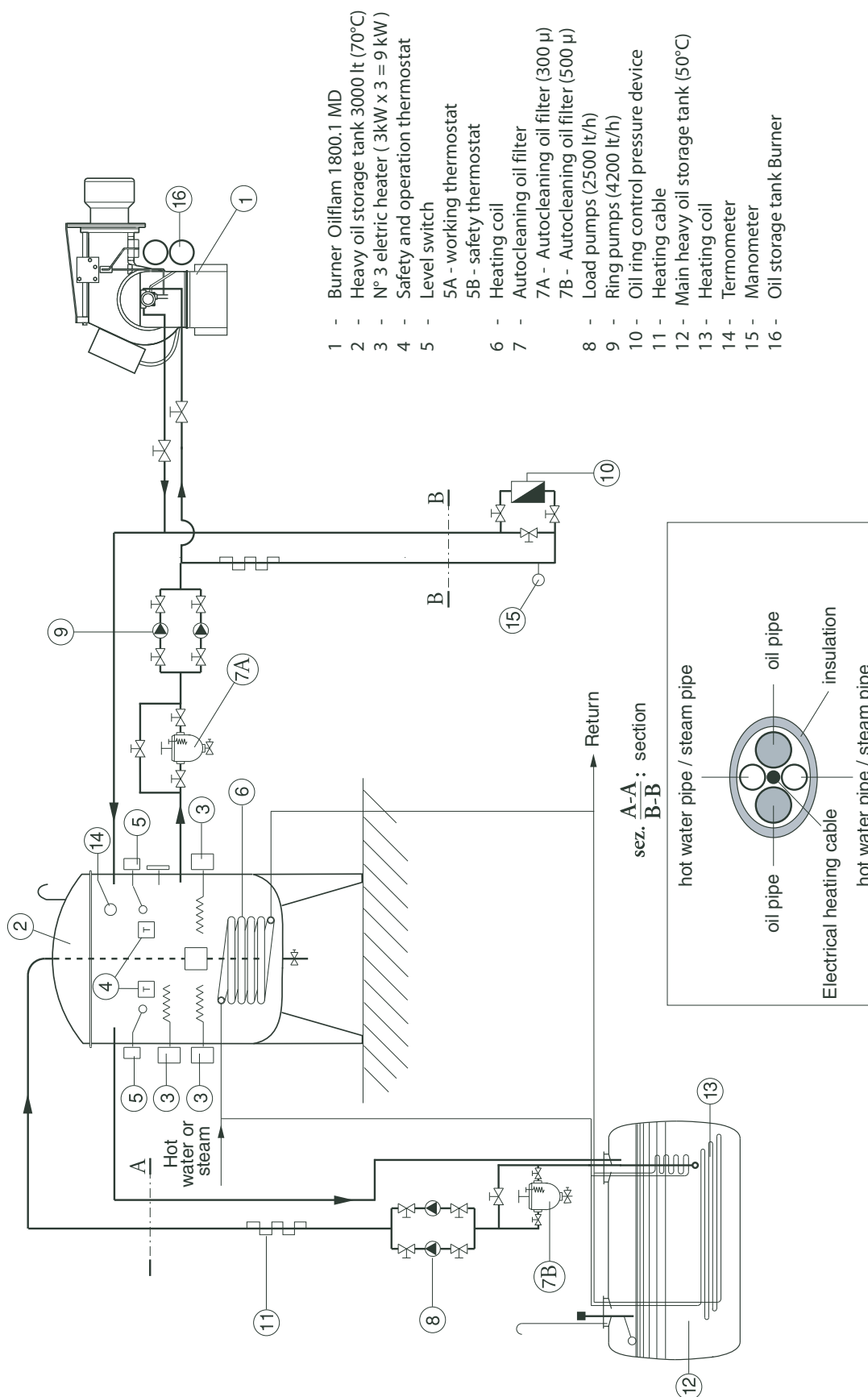


We reserve the right to change specifications without prior notice.

T - 11 - Ed 10 - Mav 2004

# Drawing for fluid fuel oil up to 50°C E at 50°C

## Oilflam 1800.1 MD



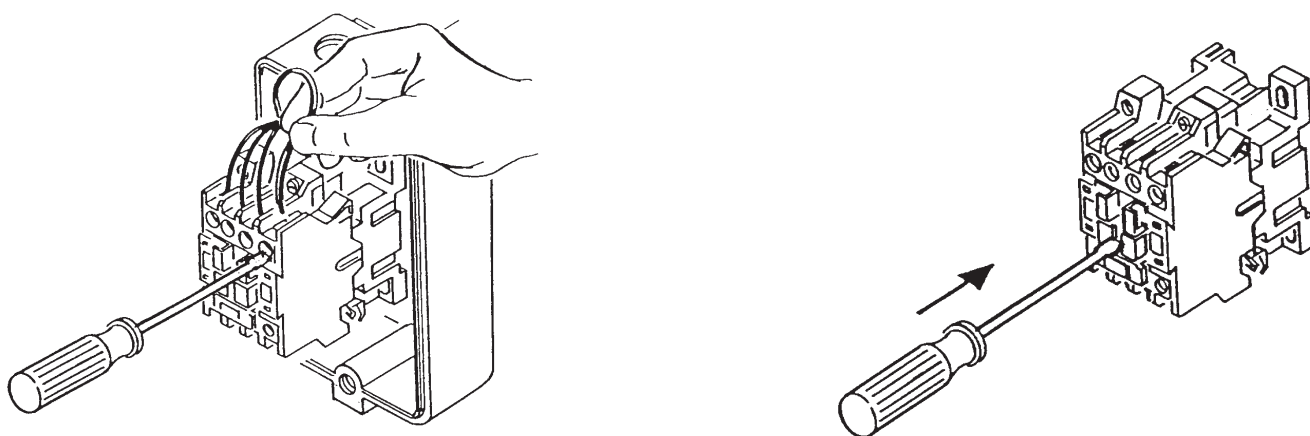
**BEFORE PROCEEDING WITH THE FILLING OF THE OIL SYSTEM, CHECK THE FOLLOWING POINTS:**

- Motor's direction of rotation (with 3phase version)
- There must be fuel in the tank
- Fuel cocks must be open
- Fuel return piping must be free from obstructions

After having checked all the above items, proceed as follows:

- Connect a fuel pressure gauge
- Set OUT1 - OUT2 - OUT3 - OUT 4 to 0°C on GEFTRAN regulator
- Disconnect the resistors power cable from the motor's remote control switch, and insulate it temporarily
- Unplug the safety box
- Start the burner and manually operate the pump motor's remote control switch until the oil system is filled up.

Note: the oil system can be considered filled when pressure gauge will show a constant reading of 16÷18 bar.



When done, shut off the burner, switch off power and restore initial conditions as follows:

- Reconnect resistors power cable
- Set OUT1 - OUT2 - OUT3 - OUT 4 on GEFTRAN regulator to the initial value.
- Plug in the control box

**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

## MODULATING OPERATION

With the burner in the start position and the appliance thermostats enabled, power is delivered to the resistances (G) of the preheater and heating cartridges for the pumps and the fuel supply line to the head (O). When the preheater thermostat reaches the set value, (usually a minimum of about 90°C is necessary to guarantee a good level of circulation) the pump start-up is enabled (set point on out 1, if using the GEFTRAN 200 thermoregulating device). If the preheating system of the tank is also equipped for a fluid exchanger (hot water, steam, diathermic oil) the thermostat may enable a contact in the terminal block for any stop-start of the fluid electrovalve. This is not a standard solution as the heated fluid is normally always connected. The pump starts to send oil (the head has already been heated by its cartridge (O) and therefore has no residue of cold dense oil) which flows from the tank to the head and then to the return line of the ring. When the head thermostat reaches the set value (usually about 70-30°C the cycle starts properly and the control programmer enables start-up. The servomotor sets itself at minimum (see chapter on regulation) acting on the air and fuel via the pressure regulator on the return.

The electromagnet (A) opens the nozzle (Q) in the following condition :

- sparks from the ignition electrodes are generated by the transformer also governed by the burner control device.

If the cell fails to detect the flame the burner shuts down (with the cyclic control programmer cutting in).

Once ignition has taken place and after the flame stabilisation period, the system starts operating in modulating mode.

- Before start-up make sure that the pump and delivery pipes are completely filled with hot fuel oil; the absence of fuel oil can cause pump seizure.
- If there is a block, a specific warning light on the programmer and on the burner front control board lights up and this signal is usually sent to the main control board of the equipment using the burner, setting off a buzzer and warning light.
- A few blocks are normal on first starting up (up to about 4); to release press the button on the programmer (also found on the front of the burner control board) for repeating the start cycle. Should they continue to occur seek the help of a specialised technician.

N.B. The position of the programmer at the time of the block is memorised to supply an indication of the cause of this block.

## OIL DELIVERY ADJUSTMENT

The diagram illustrates the fuel feeding system of these type of burners, which incorporates a by-pass nozzle with oil flow regulation on its return pipe. The oil supply is varied by acting on the nozzle through the pressure in the return line. Max. oil supply is therefore reached when the pressure in the pump line is about 30 bar and the return line is fully closed; min. oil supply when the return line is fully open (see also diagram BERGONZO). Relevant pressure readings in the return line are as follows (return oil pressure has to be measured on "M" pressure gauge):

**Pump pressure 25-30 bar.**

**Max Burner output, return oil pressure:**

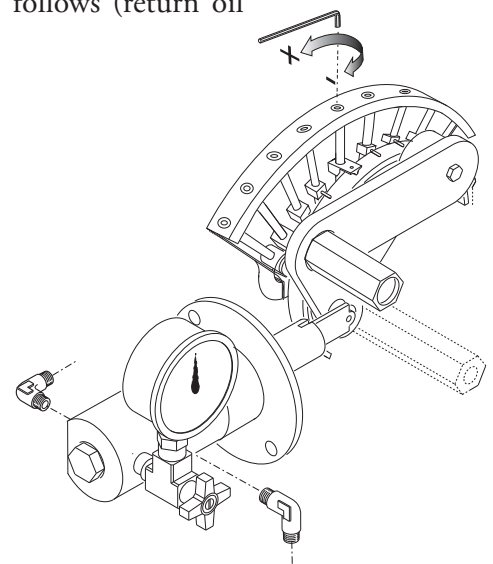
FLUIDICS nozzle : 16 ÷ 19 bar.

BERGONZO nozzle : 20 ÷ 24 bar.

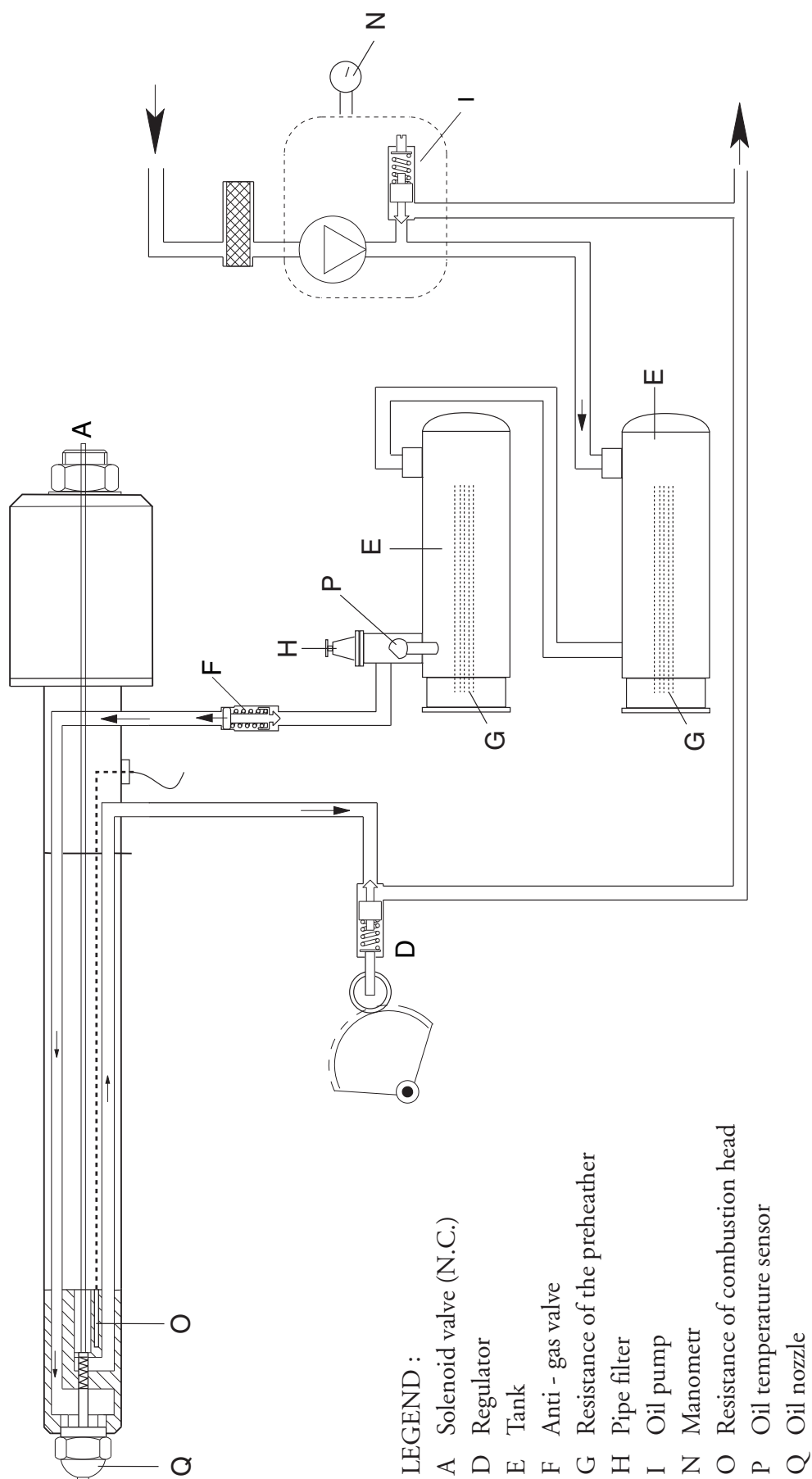
**Min Burner output, return oil pressure:**

FLUIDICS nozzle : 6 ÷ 9 bar

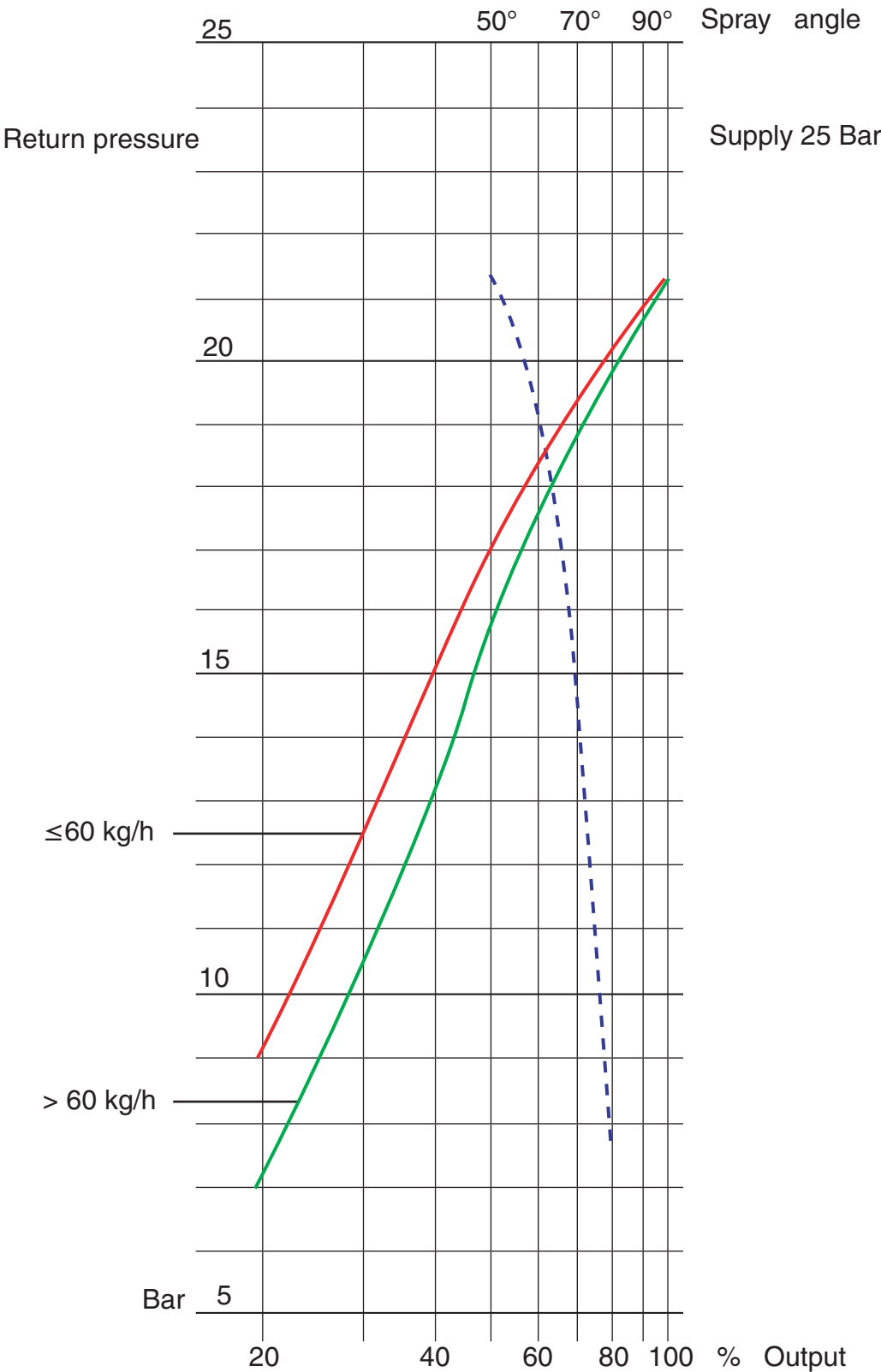
BERGONZO nozzle : 4 ÷ 8 bar



## PRE - PURGING PHASE

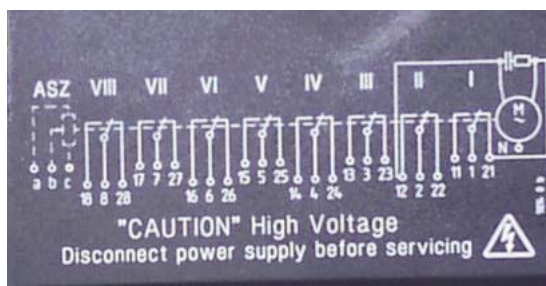


FLUIDICS NOZZLE



## COMBUSTION AIR FLOW ADJUSTMENT

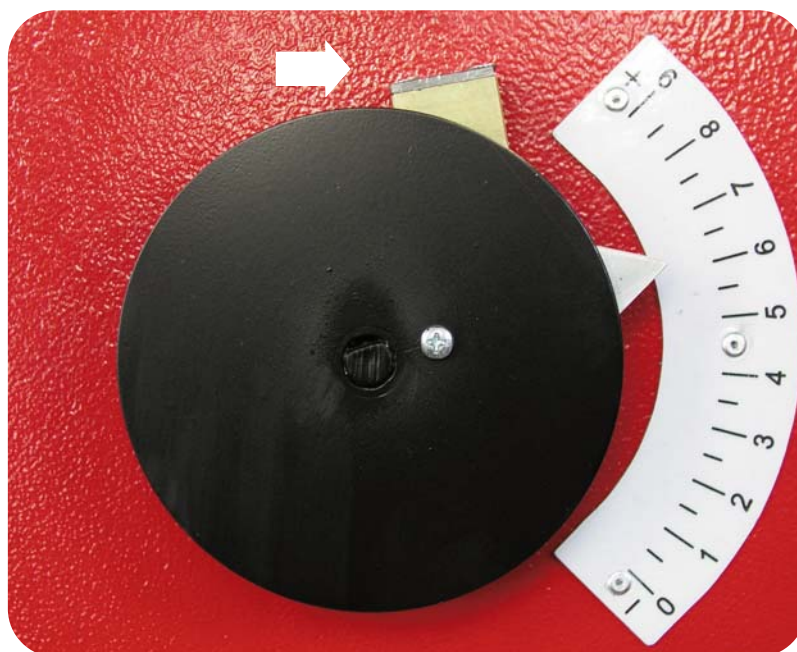
LANDIS SQM 50.481A2



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

- I - Limit switch for air damper “High Flame” position adjustment.
- II - Limit switch for the air damper position at burner’s shut down.
- III - Limit switch for ignition flame “Min power” position adjustment.
- IV - Limit switch for air damper “Low Flame” position adjustment.
- V - Limit switch “NOT USED”
- VI - Limit switch “NOT USED”

## SETTING THE FIRING HEAD



## ADJUSTMENT OF FUEL TEMPERATURE



The display shows oil temperature.

The 4 leds are related to the following functions:

Out 1: contact driving working heaters

Out 2: contact driving upper heaters KMRL1

Out 3: contact driving upper heaters KMRL2

Out 4: Burner start driving contact (as the oil reaches this temp the pump is activated)

- The temperatures are already properly Factory setted :

Out 1(113°)- Out 2(115°)- Out 3(120°)- Out 4(105°).

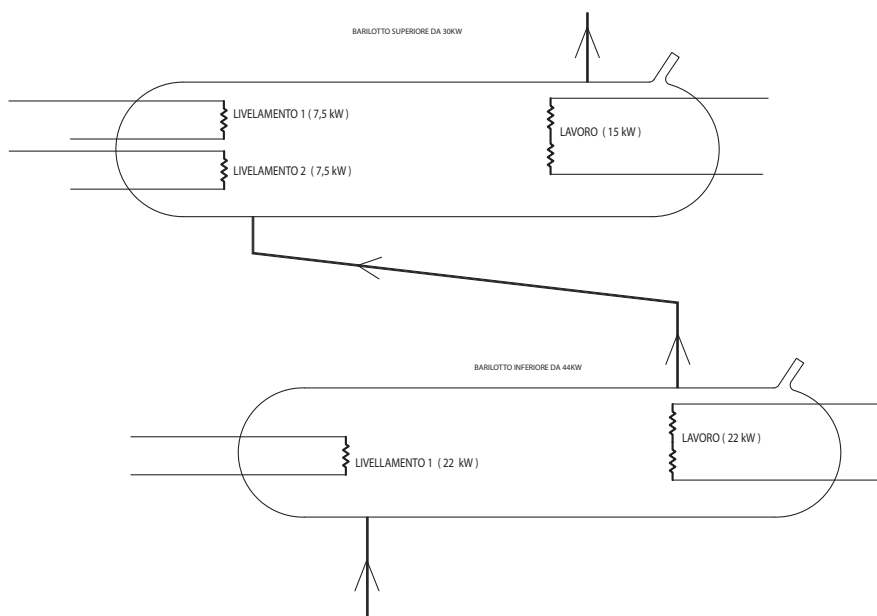
- To modify factory temperature setting act as follows:

- press key "F"

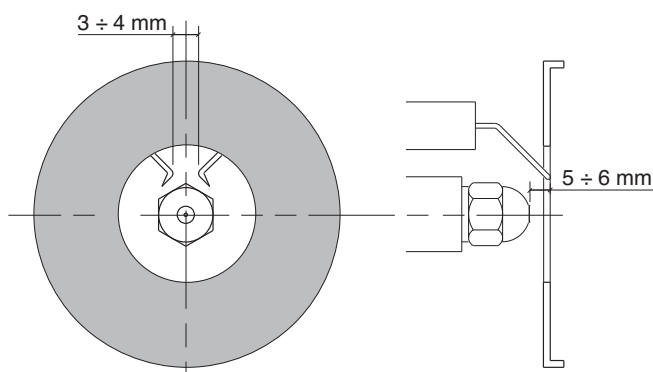
- the led Out1 starts to flash, if You need to modify minimum oil temperature press increase or decrease button, after confirm the new value pressing again "F"

- if You need to modify an other temperature press again "F" untill You the relevant led flashes.

Please take care: if key "F" is pressed for a too long time, You enter in "configuration level" phase1, (see "CF1" on the display); these parameters are Factory setted and they have not to be modified: if You enter this function – You see CF1 flashing on the display – wait 10 seconds untill the regulator automatically goes out from "configuration level".

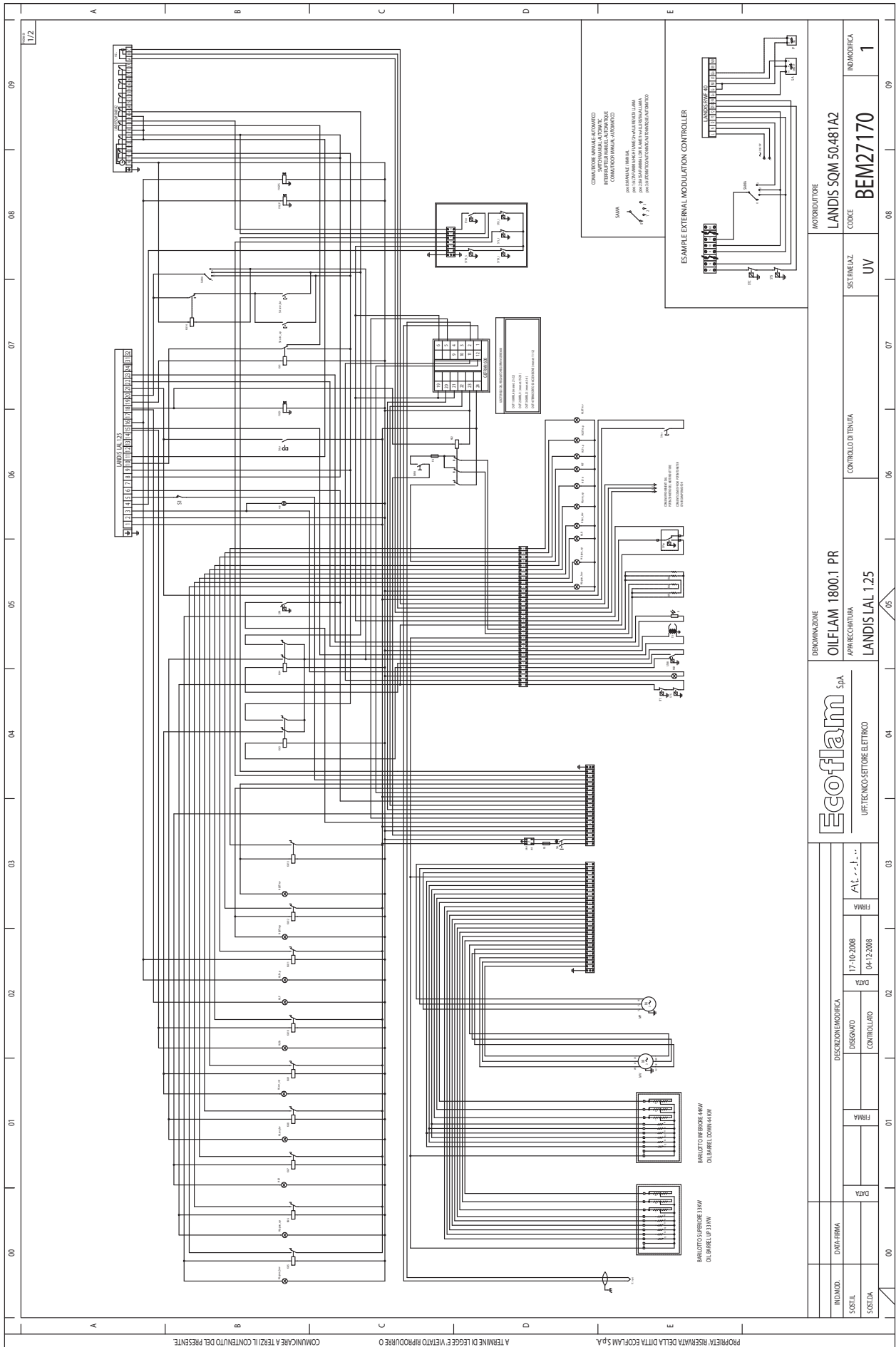


For a correct burner ignition, carefully respect the dimensions shown by the picture

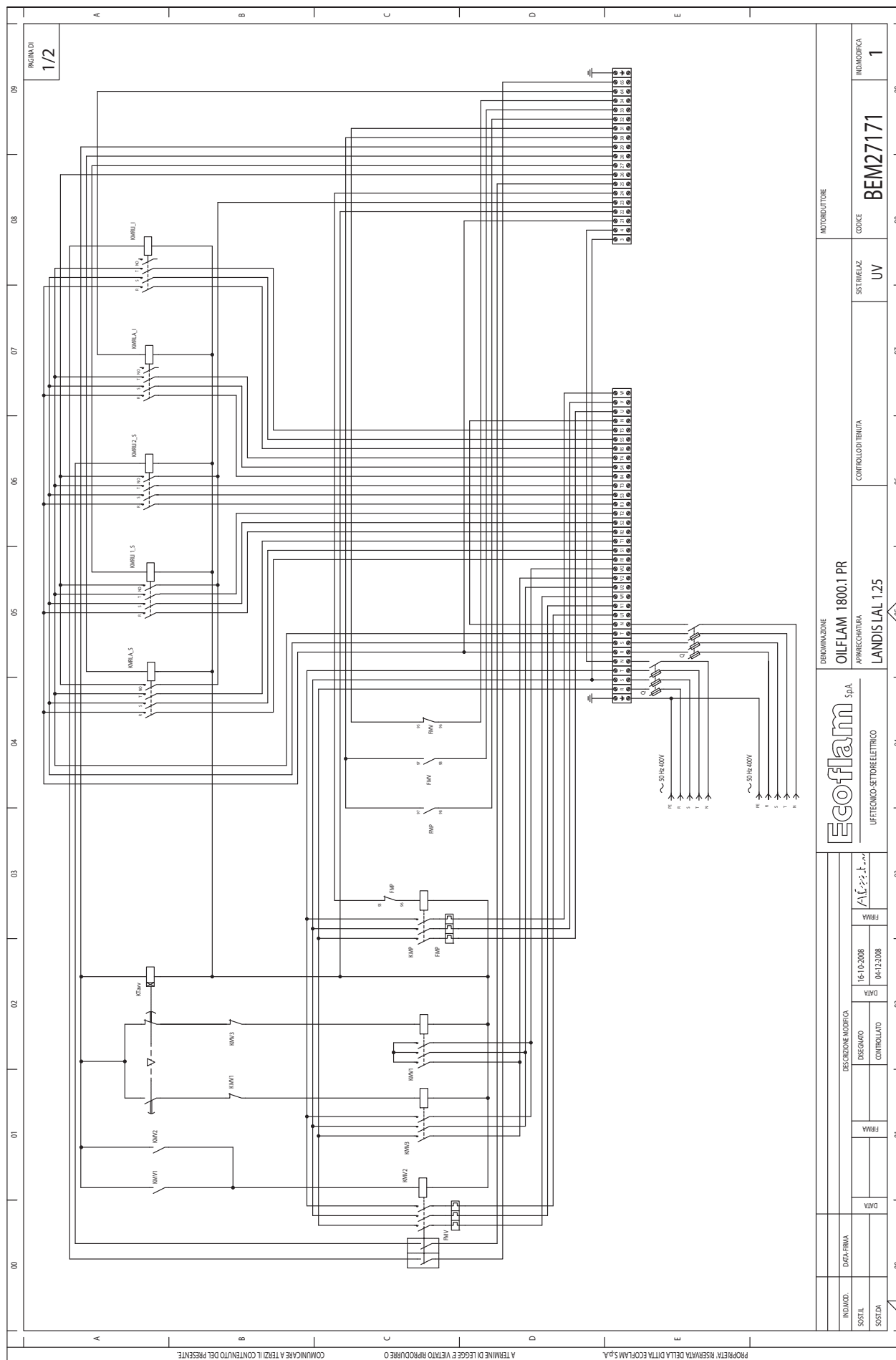


The diagram illustrates a control panel layout with the following components:

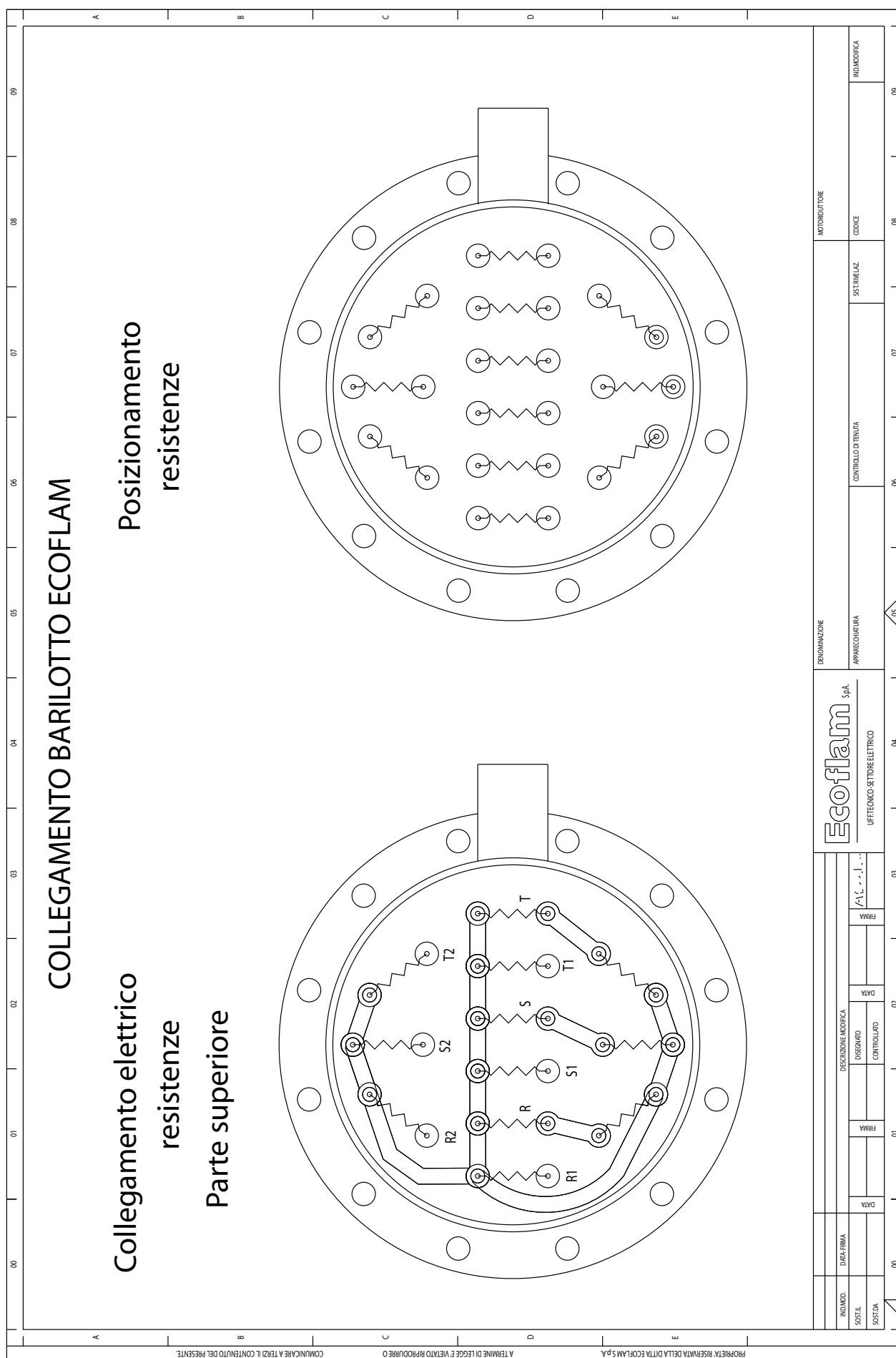
- Top Left:** A switch labeled "SAL" and a lamp labeled "HLB".
- Top Center:** A legend box containing the following definitions:
  - SAL= WORKING SWITCH
  - SA s= EXTERNAL RESET AND LOCK OUT BUTTON
  - HLB= LOCK OUT LAMP
  - HLspas\_up= UP OIL RING PRESSURE LAMP
  - HLspas\_down= DOWN OIL RING PRESSURE LAMP
  - HLF i= IGNITION TRANSFORMER LAMP
  - HLF v p= PILOT GAS VALVE LAMP
  - HLF= WORKING LAMP
  - HLBT m= FAN MOTOR LOCK OUT LAMP
  - HLBT m p= OIL MOTOR LOCK OUT LAMP
  - HLR= RESISTOR LAMP
  - HLarm\_up= AIR DAMPER MOTOR OPENING LAMP
  - SLarm\_up= UP AIR DAMPER MOTOR BUTTON
  - HLarm\_down= DOWN AIR DAMPER MOTOR BUTTON
  - HLarm= AIR DAMPER MOTOR CLOSING LAMP
  - SARM= AUX HEATER SWITCH
- Top Right:** A square symbol with an 'X' inside, and a dashed square symbol with an 'X' inside.
- Middle Left:** A switch labeled "SL" and a lamp labeled "HLB".
- Middle Center:** A legend box (repeated from the top center) and a square symbol with an 'X' inside.
- Middle Right:** A square symbol with an 'X' inside, and a legend box containing:
  - 0=MANUAL
  - 1=HOLD
  - 2=LOW
  - 3=AUTO
- Bottom Left:** A switch labeled "HLB" and a lamp labeled "HLB".
- Bottom Center:** A switch labeled "HLspas\_up" and a lamp labeled "HLB".
- Bottom Right:** A switch labeled "HLspas\_down" and a lamp labeled "HLB".
- Far Left:** A switch labeled "HLF tr" and a lamp labeled "HLF tr".
- Far Center:** A switch labeled "HLF up" and a lamp labeled "HLF up".
- Far Right:** A switch labeled "HLF" and a lamp labeled "HLF".
- Bottom Left (Lower):** A switch labeled "HLBT m" and a lamp labeled "HLBT m".
- Bottom Center (Lower):** A switch labeled "HLBT m p" and a lamp labeled "HLBT m p".
- Bottom Right (Lower):** A switch labeled "HLR" and a lamp labeled "HLR".
- Bottom Left (Lower):** A switch labeled "HLarm\_up" and a lamp labeled "HLarm\_up".
- Bottom Center (Lower):** A switch labeled "SLarm\_up" and a lamp labeled "SLarm\_up".
- Bottom Center (Lower):** A switch labeled "SARM" and a lamp labeled "SARM".
- Bottom Right (Lower):** A switch labeled "SLarm\_down" and a lamp labeled "SLarm\_down".
- Bottom Right (Lower):** A switch labeled "HLarm\_down" and a lamp labeled "HLarm\_down".



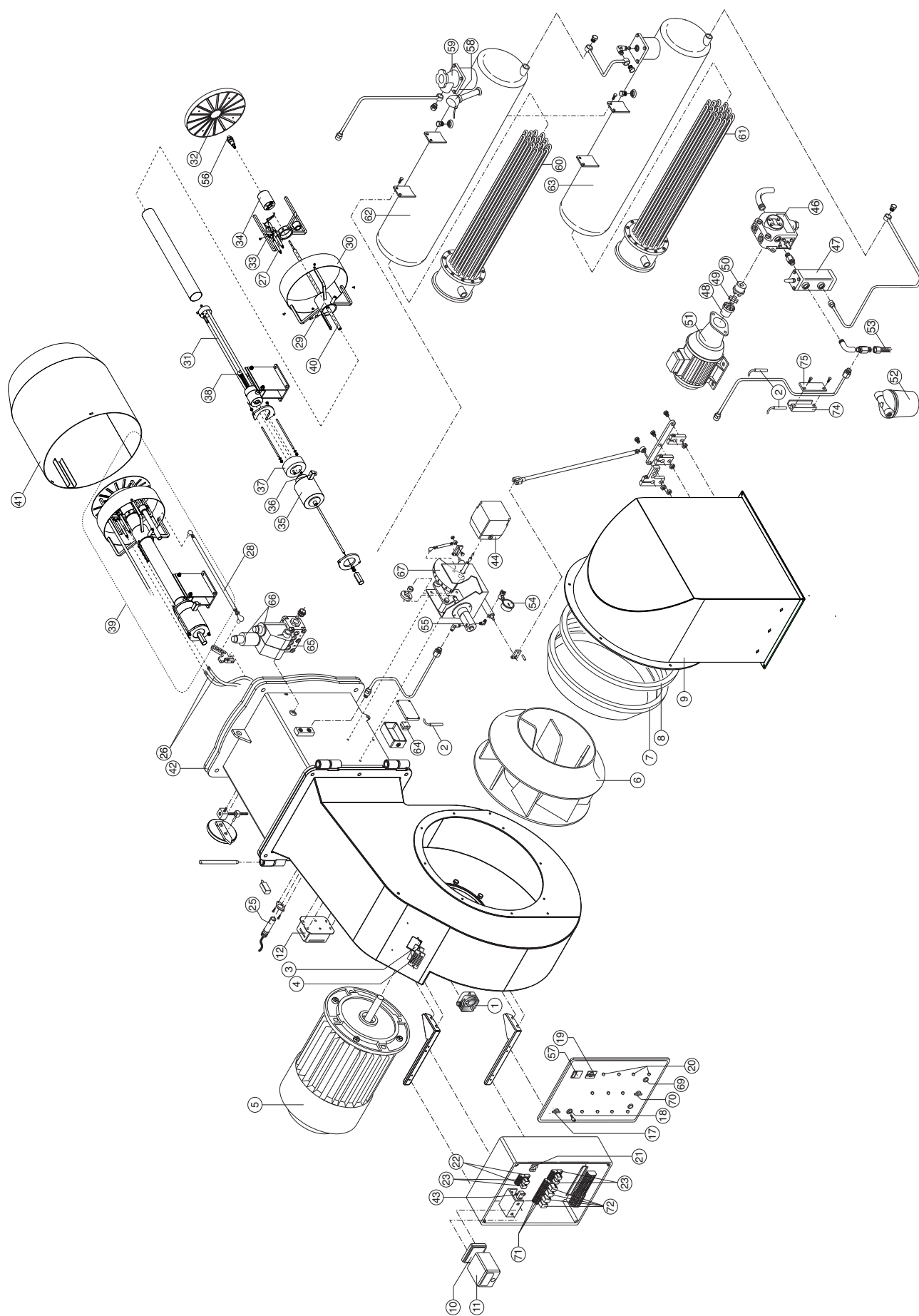
PROPRITA' RISERVATA DELLA DITTA ECOFLAM S.p.A.



|                                                                                                                                    |  |  |  |  |  |  |  |  |  |                                                                                                                   |  |  |  |  |  |  |  |  |  |                                                                                                                                           |  |  |  |  |  |  |  |  |  |                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                                                                                                                                   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 |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |   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| A                                                                                                                                  |  |  |  |  |  |  |  |  |  | B                                                                                                                 |  |  |  |  |  |  |  |  |  | C                                                                                                                                         |  |  |  |  |  |  |  |  |  | D                                                                                                                                                                |  |  |  |  |  |  |  |  |  | E                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                                                                                                                                   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| Q                                                                                                                                  |  |  |  |  |  |  |  |  |  | FMP                                                                                                               |  |  |  |  |  |  |  |  |  | FMV                                                                                                                                       |  |  |  |  |  |  |  |  |  | KMRLA_5                                                                                                                                                          |  |  |  |  |  |  |  |  |  | KMRL1_5                                                                                                                                                                             |  |  |  |  |  |  |  |  |  | KMRL2_5                                                                                                                                                                                |  |  |  |  |  |  |  |  |  | KMRLA_J                                                                   |  |  |  |  |  |  |  |  |  | KMRL1_J                                                                           |  |  |  |  |  |  |  |  |  | KMP                                                                                               |  |  |  |  |  |  |  |  |  | K1aw                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  | KMV1                                                                                 |  |  |  |  |  |  |  |  |  | KMV2                                                                                                                                    |  |  |  |  |  |  |  |  |  | KMV3                                           |  |  |  |  |  |  |  |  |  |      | 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| INTERUTTORE GENERALE CON FUSIBILE<br>MAIN SWITCH WITH FUSE<br>INTERRUPTEUR GENERAL AVEC FUSIBLE<br>INTERRUPTOR GENERAL CON FUSIBLE |  |  |  |  |  |  |  |  |  | RELE TERMICO MOTORE POMPA<br>MOTOR PUMP THERMAL RELAY<br>RELAS THERMIQUE MOTEUR POMPE<br>RELE TERMICO MOTOR BOMBA |  |  |  |  |  |  |  |  |  | RELE TERMICO MOTORE VENTILATORE<br>MOTOR THERMAL RELAY (FAN MOTOR)<br>RELAS THERMIQUE MOTEUR VENTILATEUR<br>RELE TERMICO MOTOR VENTILADOR |  |  |  |  |  |  |  |  |  | CONTATTORE RESISTENZE DI LAVORO SUPERIORE<br>UP WORKING RESISTOR SWITCH<br>INTERRUPTEUR DES RESISTANCES DE TRAVAIL<br>INTERRUPTOR DE LAS RESISTENCIAS DE TRABAJO |  |  |  |  |  |  |  |  |  | CONTATTORE RESISTENZE DI LIVELLAMENTO 1 SUPERIORE<br>UP 1 LEVELLING RESISTOR SWITCH<br>INTERRUPTEUR DES RESISTANCES DE NIVELLEMENT<br>INTERRUPTOR DE LAS RESISTENCIAS DE NIVELACION |  |  |  |  |  |  |  |  |  | CONTATTORE RESISTENZE DI LIVELLAMENTO 2 SUPERIORE<br>UP 2 ND LEVELLING RESISTOR SWITCH<br>INTERRUPTEUR DES RESISTANCES DE NIVELLEMENT<br>INTERRUPTOR DE LAS RESISTENCIAS DE NIVELACION |  |  |  |  |  |  |  |  |  | CONTATTORE RESISTENZE DI LAVORO INFERIORE<br>DOWN WORKING RESISTOR SWITCH |  |  |  |  |  |  |  |  |  | CONTATTORE RESISTENZE DI LIVELLAMENTO INFERIORE<br>DOWN LEVELLING RESISTOR SWITCH |  |  |  |  |  |  |  |  |  | CONTATTORE MOTORE POMPA<br>MOTOR PUMP CONTACTOR<br>CONTACTEUR MOTEUR POMPE<br>EMPALME MOTOR BOMBA |  |  |  |  |  |  |  |  |  | TEMPORIZZATORE ELETTRONICO AVVIAMENTO STELLA TRIANGOLO<br>ELECTRONIC TIMER WITH STAR/DELTA STARTER<br>TEMPORIZADOR EL...CRONICO PREPARADO PARA<br>TEMPORIZADOR EL...CRONICO PREPARADO PARA |  |  |  |  |  |  |  |  |  | CONTATTORE DI STELLA<br>STAR CONTACTOR<br>CONTACTEUR D'ETOLE<br>CONTACTEUR DI STELLA |  |  |  |  |  |  |  |  |  | CONTATTORE MOTORE VENTILATORE<br>REMOTE CONTROL SWITCH (FAN MOTOR)<br>CONTACTEUR MOTEUR VENTILATEUR<br>TELEINTERRUPTOR MOTOR VENTILATOR |  |  |  |  |  |  |  |  |  | CONTATTORE DI TRIANGOLO<br>CONTACTEUR TRIANGLE |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  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| IND.MOD.                                                                                                                           |  |  |  |  |  |  |  |  |  | DATA-FRMA                                                                                                         |  |  |  |  |  |  |  |  |  | DESCRIZIONE MODIFICA                                                                                                                      |  |  |  |  |  |  |  |  |  | IND.MOD.                                                                                                                                                         |  |  |  |  |  |  |  |  |  | DATA-FRMA                                                                                                                                                                           |  |  |  |  |  |  |  |  |  | DESCRIZIONE MODIFICA                                                                                                                                                                   |  |  |  |  |  |  |  |  |  | IND.MOD.                                                                  |  |  |  |  |  |  |  |  |  | DATA-FRMA                                                                         |  |  |  |  |  |  |  |  |  | DESCRIZIONE MODIFICA                                                                              |  |  |  |  |  |  |  |  |  | IND.MOD.                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                                                                                      |  |  |  |  |  |  |  |  |  |                                                                                                                                         |  |  |  |  |  |  |  |  |  |                                                |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |   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 |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  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| SOSTIT.                                                                                                                            |  |  |  |  |  |  |  |  |  | DATA                                                                                                              |  |  |  |  |  |  |  |  |  | FRMA                                                                                                                                      |  |  |  |  |  |  |  |  |  | 16-10-2008                                                                                                                                                       |  |  |  |  |  |  |  |  |  | DATA                                                                                                                                                                                |  |  |  |  |  |  |  |  |  | FRMA                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  | 16-10-2008                                                                |  |  |  |  |  |  |  |  |  | DATA                                                                              |  |  |  |  |  |  |  |  |  | FRMA                                                                                              |  |  |  |  |  |  |  |  |  | 16-10-2008                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  | DATA                                                                                 |  |  |  |  |  |  |  |  |  | FRMA                                                                                                                                    |  |  |  |  |  |  |  |  |  | 16-10-2008                                     |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  | DATA |  |  |  |  |  |  |  |  |  | FRMA |  |  |  |  |  |  |  |  |  | 16-10-2008 |  |  |  |  |  |  |  |  |  |



## OILFLAM 1800.1 PR



| N° | DESCRIPTION                    | Oilflam 1800.1 PR      |          |
|----|--------------------------------|------------------------|----------|
|    |                                |                        | code     |
| 1  | AIR PRESSURE SWITCH            | LGW 10 A4              | 65323033 |
| 2  | HEATING ELEMENT PUMP           | 50 W                   | 65323072 |
| 3  | GLASS                          |                        | 65320487 |
| 4  | PEED WINDOM FRAME              |                        | 65320488 |
| 5  | MOTOR                          | 55 kW                  | 65324463 |
| 6  | FAN                            | GR710 Ø710 55KW        | 65325909 |
| 7  | AIR CONVEYOR                   |                        | 65324465 |
| 8  | CONVEYOR RING                  |                        | 65324466 |
| 9  | AIR INTAKE                     |                        | 65325419 |
| 10 | CONTROL BOX BASE               | LANDIS                 | 65320097 |
| 11 | CONTROL BOX                    | LANDIS LAL1.25 TV22"   | 65320052 |
| 12 | IGNITION TRANSFORMER           | T8 13000/35            | 65323222 |
| 13 | REMOTE CONTROL SWITCH          |                        | -        |
| 14 | REMOTE CONTROL SWITCH (PUMP)   |                        | -        |
| 15 | MOTOR THERMAL RELAY            |                        | -        |
| 16 | MOTOR THERMAL RELAY (PUMP)     |                        | -        |
| 17 | MAIN SWITCH                    | COMEPI ART.ECX1252     | 65324098 |
| 18 | RESET BUTTON KEY               | COMEPI a.ECX1430       | 65324468 |
| 19 | SELECTOR                       | Giovenzana a.C01600029 | 65323063 |
| 20 | LAMP                           | LYVIA 10x28 BA9S       | 65324100 |
| 21 | FUSE SUPPORT                   | HK 520 04/1 10A        | 65324279 |
| 22 | RELE BASE                      | FINDER                 | 65323152 |
| 23 | RELE                           | FINDER MINI 40.52      | 65323142 |
| 24 | TIMER                          |                        | -        |
| 25 | PHOTORESISTOR                  | LANDIS QRB1A-A050B70A2 | 65320076 |
| 26 | IGNITION CABLE                 | TC                     | 65320946 |
| 27 | IGNITION ELECTRODES SET        |                        | 65325212 |
| 28 | ROD FIRING HEAD                |                        |          |
| 29 | HOLDER WAISTBAND               |                        | 65324469 |
| 30 | WAISTBAND                      |                        | 65324470 |
| 31 | OIL FIRING HEAD                |                        | 65325468 |
| 32 | DISC                           |                        | 65324472 |
| 33 | SUPPORT NOZZLE HOLDER          |                        | 65324473 |
| 34 | NOZZLE HOLDER                  |                        | 65324474 |
| 35 | COIL                           | EL011                  | 65323809 |
| 36 | CONNECTOR WITH RECTIFIER       |                        | 65323571 |
| 37 | RING                           |                        | 65321721 |
| 38 | SPRING HOLDER                  |                        | 65321720 |
| 39 | INNER ASSEMBLY                 | TC                     | 65325899 |
| 40 | ROD NOZZLE HOLDER              | TC                     | 65324269 |
| 41 | BLAST TUBE                     | TC                     | 65324477 |
| 42 | GASKET ISOMART                 |                        | 65324478 |
| 43 | ANTI JAMMING FILTER            |                        | 65323170 |
| 44 | AIR DAMPER MOTOR               | LANDIS SQM50.481A2     | 65322902 |
| 45 |                                |                        |          |
| 46 | OIL PUMP                       | SUNTEC T5C105          | 65322998 |
| 47 | OIL PUMP VALVE                 | SUNTEC TV40011         | 65322995 |
| 48 | COUPLING (MOTOR)               |                        | 65324479 |
| 49 | UNION                          |                        | 65321791 |
| 50 | COUPLING (PUMP)                |                        | 65324364 |
| 51 | PUMP MOTOR                     | 5,5 kW                 | 65325344 |
| 52 | OIL FILTER                     |                        |          |
| 53 | HOSES                          |                        | 65323181 |
| 54 | MANOMETER                      | CEWAL R1/4 D50-40BAR   | 65324105 |
| 55 | ADJUSTMENT OF OIL PRESSURE     | B-GH-PRO-2             | 65323167 |
| 56 |                                |                        |          |
| 57 | ADJUSTMENT OF FUEL TEMPERATURE | Gefran 600             | 65322045 |
| 58 | THERMOCOUPLE                   | TC6MD2JBC              | 65322046 |
| 59 | FILTER                         | U21008/01              | 65323158 |
| 60 | UP HEATER                      | 30 kW                  | 65323091 |
| 61 | DOWN HEATER                    | 44 kW                  | 65323092 |
| 62 | UP OIL TANK                    |                        | 65325530 |
| 63 | DOWN OIL TANK                  |                        | 65324506 |

TC = SHORT HEAD TL = LONG HEAD

| N° | DESCRIPTION                      |                     | OILFLAM 1800.1 PR<br>code |
|----|----------------------------------|---------------------|---------------------------|
| 64 | THERMOSTAT                       | IMIT TR2 40/200     | 65323147                  |
| 65 | PILOT GAS VALVE                  | KROMSCH.VCS 125R-LW | 65324722                  |
| 66 | COIL                             | KROMSCH.VCS 125R-LW | 65324623                  |
| 67 | OIL CAM OIL CAM GROUP            |                     | 65322356                  |
| 68 |                                  |                     |                           |
| 69 | BUTTON                           | COMEPI art.ECX1100  | 65324483                  |
| 70 | SELECTOR                         | COMEPI art.ECX1350  | 65324278                  |
| 71 | RELE BASE                        | 94.74 SMA           | 65323150                  |
|    |                                  | 94.72 SMA           | 65323149                  |
| 72 | RELE                             | FINDER 5534         | 65323140                  |
|    |                                  | FINDER 5532         | 65323139                  |
| 73 | MODULATING UNIT                  | LANDIS RWF 40       | -                         |
| 74 | PREHEATED'S AUX. RESISTOR HOLDER |                     | 65321716                  |
| 75 | FIXING PLATE                     |                     | 65321717                  |

TC = SHORT HEAD TL = LONG HEAD

## PROCEDURE FOR FUEL OIL BURNER OPERATION TESTING

- Verify that the auxiliary resistors (heating cable for auxiliary block circuit , pump resistor) are fed since 5 hours at least.
- Verify that the electrical voltage is correct: 380 Volt three-phase / 220 Volt single-phase.
- Verify that the selector gas/fuel oil in in fuel oil position.
- Verify that all safety devices boiler-burner are correctly rearmed.
- Before igniting the burner, verify that the fuel oil circuit is full.
- Switch on manually the pump motor and verify by the manometer the circuit pressure.
- Switch on the burner and check that the ignition circuit is correct.
- The servomotor opens the air damper for starting the pre-purge in the combustion chamber.
- After the pre-uprge operation has finished, the air damper goes to minimum position and the burner is ignited at minimum power.
- If the selector (0-1-2-3) is in position 1, the burner will be brought manually to maximum power.  
If the selector (0-1-2-3) is in position 2, the burner will be brought manually to minimum power.  
If the selector (0-1-2-3) is in position 3, the power will be set by RWF40 that will adapt it according to the request.
- Verify at chimney that the oxygen values are correct.
- If the oxygen values are not correct, modify the prophile by the oil adjustment cam in order to obtain correct values.

*ECOFLAM BRUCIATORI S.p.A. reserves the right to make any adjustments, without prior notice, which it considers necessary or useful to its products, without affecting their main features.*

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