



CONTROL UNIT

1 Characteristics of Electronic Control Unit

Supply circuit	Type:	Three-phase altering
	Voltage:	400V
	Max. current:	10A
	Frequency:	50/60 Hz
	DC current:	6 kA
Power circuit	Type:	Three-phase alternatating
	Voltage:	400 V
	Max. current:	10A
	Frequency	50/60 Hz
	DC current	6 kA
Input control circuit	Type:	Single-phase alternating
	Voltage:	24V
Output control circuit	Type:	Alternating
	Voltage	24V
Protected to:		IP40

2 Operating instructions

- Description of keypad

The keypad comprises a display and 6 buttons on the front of the control unit and an emergency button on the right-hand side of the panel.



1. **RUN** : Starts the unit
2. **STOP**: stops the unit
3. **MENU'**: chooses the programme
4. **ENTER**: save the data
5. **+**:increases values
6. **-**: decreases values
7. **Emergency stop** : Stop the unit disabling the power. After an emergency stop, turn clockwise the red button and press Start to run the unit again.

3 START

When the control unit is switched on, "**F.LI VIRGINIO B03**" appears on the display.

This is followed by:

"AUTOMATIC"

Start the manual cycle by pressing RUN or press "-" to access the manual mode.

3.1 Manual cycle

Turn the emergency button to access the control unit. The following message appears on the display:

"AUTOMATIC"

Press "-" to access the manual mode. The following message appears on the display:

"MANUAL"

"OFF"

Press **RUN** to start the manual cycle. The following message appears on the display:

"MANUAL"

"ON"

Press **STOP** to stop the manual cycle. The following message appears on the display:

"MANUAL"

"OFF"

3.2 Automatic cycle with PAUSE function

Turn the emergency button to access the control unit. The following message appears on the display:

"AUTOMATIC"

Press **RUN**. The following message appears on the display:

"WORK =00:00:00"
"PAUSE =00:00:00"

The automatic cycle will start. Press **STOP** to end the cycle.

3.3 Automatic cycle with External Consent Timing

Turn the emergency button to access the control unit. The following message appears on the display:

"AUTOMATIC"

Press **RUN**. The following message appears on the display:

"WAITNG EXTERNAL CONSENT"

The automatic cycle will start. Press **STOP** to end the cycle.

When the unit will receive the consent signal, the following message will appear on the display:

"WORK=00:00:00"

When the set time expire, the following message will appear on the display

"WAITNG EXTERNAL CONSENT"

The cycle repeats itself until the stop button is pressed.

1.1 Automatic cycle with External Consent Timing

Turn the emergency button to access the control unit. The following message appears on the display:

"AUTOMATIC"

Press **RUN**. The following message appears on the display:

"WAITNG EXTERNAL CONSENT"

The automatic cycle will start. Press **STOP** to end the cycle.

When the unit will receive the consent signal, the following message will appear on the display:

"ENGINE RUNNING"

This message is shown until the external consent is valid. Then the following message will appear again on the display:

"WAITNG EXTERNAL CONSENT"

The cycle repeats itself until the stop button is pressed.

2 Programming

Turn the emergency button to access the control unit. The following message appears on the display:

"AUTOMATIC"

Press the "-" button to access the MANUAL mode. The following message appears on the display:

"MANUAL"

"OFF"

Press and hold the **MENU** button for 10 seconds to enter the programming menu, the following message appears on the display:

"WORK TIME ?"

"=00:00:00"

Set the time with the "+" and "-" buttons. Press **ENTER** to confirm.

If the unit is pre-set for the WORK PAUSE the following message appears on the display:

"PAUSE TIME ?"

"=00:00:00"

Set the time with the "+" and "-" buttons. Press **ENTER** to confirm.

Pressing the **MENU** button, the programming mode will be left and the automatic mode will start.

3 Allarms

During the manual or automatic cycles, the following alarms may be displayed:

“HEAT ALARM”

An overvoltage problem occurred due to an engine failure.

Cut off the power, open the unit, prime the thermal relay pressing the reset button.

“EMERGENCY”

This means that the control unit has been disconnected from the power supply with the emergency button on the right of the panel.

Rotate the button to reset it.

“INVERTER ALARM”

This means that the inverter inside the control unit has signalled an alarm. In this case, consult the inverter manual.