

CC-131, CC-131R, CC-131C & CC-132, CC-132R, CC-132C



E

Cuadros de Control

para Grupos Térmicos NGO 50/GT & NGO 50/GTA
Instrucciones de Funcionamiento,
Limpieza y Mantenimiento
para el **USUARIO**

D

Kontroll-Schalttafeln

für die Heizkessel NGO 50/GT & NGO 50/GTA
Betriebs-, Reinigungs-
und Wartungsanleitung
für den **BENUTZER**

GB

Control Panels

for Heating Units NGO 50/GT & NGO 50/GTA
Operating, Cleaning
and Maintenance Instructions
for the **USER**

I

Quadri di Controllo

per Gruppi Termici NGO 50/GT & NGO 50/GTA
Istruzioni per il Funzionamento,
la Pulizia e la Manutenzione.
per l'**UTENTE**

F

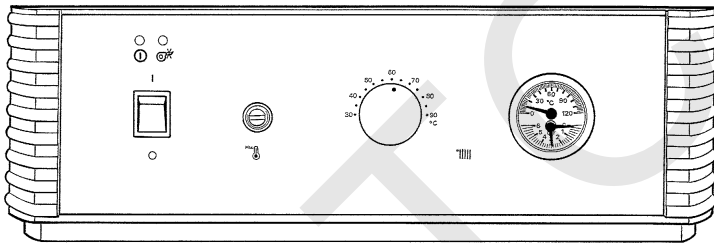
Tableaux de Contrôle

pour les Groupes Thermiques NGO 50/GT & NGO
50/GTA
Instructions de Fonctionnement,
de Nettoyage et de Maintenance
pour l'**USAGER**

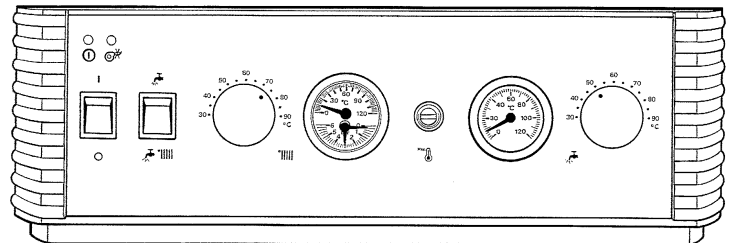
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Quadros de Controlo

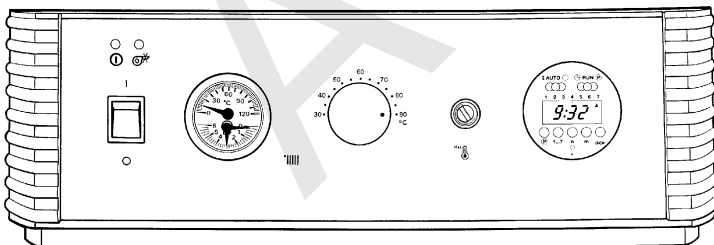
para Grupos Térmicos NGO 50/GT & NGO 50/GTA
Instruções de Funcionamento,
Limpeza e Manutenção
para o **UTENTE**



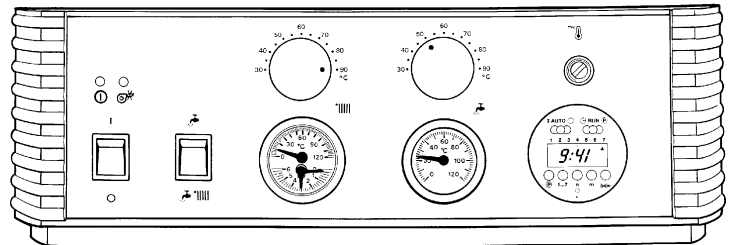
CC-131



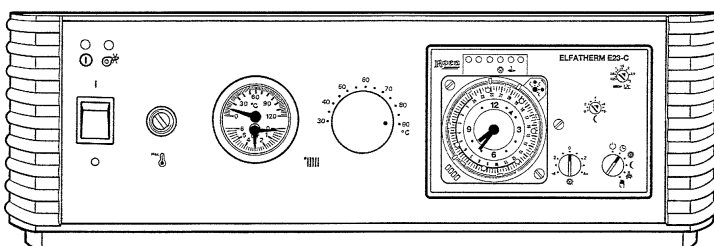
CC-132



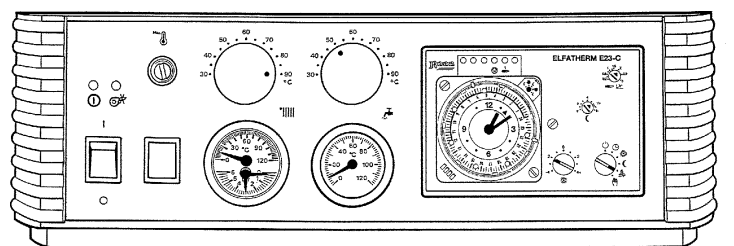
CC-131 R



CC-132 R



CC-131 C



CC-132 C

Fig. 1

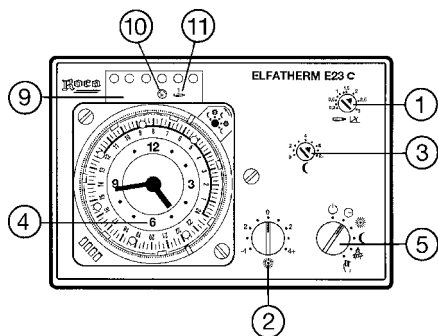
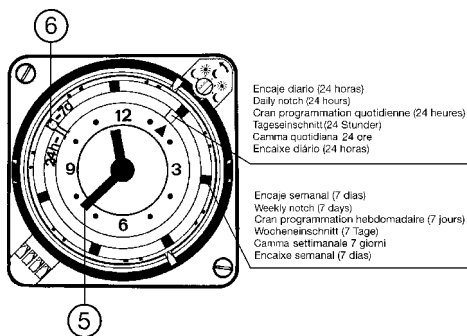


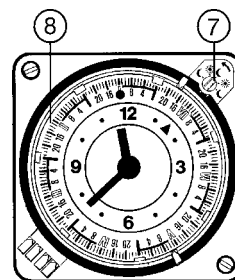
Fig. 2



Encaixe diario (24 horas)
Daily notch (24 hours)
Cran programmation quotidienne (24 heures)
Tageseinstellung (24 Stunden)
Gamma quotidiana 24 ore
Encaixe diario (24 horas)

Encaixe semanal (7 dias)
Weekly notch (7 days)
Cran programmation hebdomadaire (7 jours)
Wocheneinstellung (7 Tage)
Gamma settimanale 7 giorni
Encaixe semanal (7 dias)

Fig. 3



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Main features

- Equipped with adjustment and control devices which contribute to a lower fuel consumption.
- Facilitates the starting and stopping operations of the installation.
- Its design and finish harmonize with those of the Heating Units for which it is intended.
- Timer for selecting the weekly operation programme adapted to your particular needs. (CC-131R and CC-132R).
- Electronic control centre which constantly regulates the installation in accordance with the outside temperature. (CC-131C and CC-132C).

Operation

Please refer to the same chapter in the instructions for the USER supplied with the boiler.

Timer (CC-131R and CC-132R)

The programmed schedule will start when the main switch is turned ON.

Control Centre (CC-131C and CC-132 C)

- 1 - Slope selector
 - 2 - Sun selector
 - 3 - Moon selector
 - 4 - Timer
 - 5 - Programme selector
- See Figure 1.

Slope Selector

- Evaluate the slope on the installation, based on design temperatures.

$$\text{Slope} = \frac{\text{Increase of flow water temp.}^*}{\text{Ambient temp.} - \text{Outside temp.}}$$

* Difference between the maximum anticipated flow temperature and the minimum for the heat output of one radiator (30°C).

Evaluation example

- Calculate the slope of an installation, based on:
- Maximum flow water temperature = 80°C
 - Ambient temperature (comfort) = 20°C
 - Outside temperature = -5°C

$$\text{Slope} = \frac{80 - 30}{20 - (-5)} = 2$$

- Use potentiometer (1) to select the Slope calculated for the installation in question.

Sun Selector (2)

The relationship between the positions of the Sun potentiometer and the ambient temperature is shown in the table below.

Position Sun	Reduction / Increase in ambient temperature
-4	-8 °C
-2	-4 °C
0	0 °C
+2	+4 °C
+4	+8 °C

Moon Selector (3)

This selector allows the corresponding ambient temperature to be reduced according to the position of the Sun selector.

The relationship between the positions of the Moon potentiometer and the ambient temperature are shown in the table below.

Position Moon	Reduction in ambient temperature
0	0 °C
-2	4 °C
-4	8 °C
-6	12 °C
-8	16 °C

Timer (4)

Daily programme

It is factory-set. The red (Sun) and blue (Moon) cams should be moved alternatively on the rotary ring to the times chosen for the start of both programmes.

To set the time on the clock, move the minute hand (5) until the real time coincides with the symbol ▲. See Figure 2.

Weekly programme

- Remove the rotary ring, press-fitted on the dial.
- Turn the minute hand (5) until the pin (6) on the green ring moves to a notch on the yellow one.
- Turn the minute hand (5) until the clock is set at the right time.
- Turn the rotary ring and snap it onto the dial. The rotary indicator (7) should point to the day being set (I = Monday, VII = Sunday), and the symbol ▲ must show the real time. See Figure 3.
- Set the desired weekly programme for alternate Sun-Moon operation using the cams supplied.

Switching from weekly to daily programme

- Remove the press-fitted rotary ring (8) from the dial.
- Turn the minute hand until the pin (6) on the yellow ring moves to fit the notch in the green one.
- Set the time on the clock.
- Turn the rotary ring and snap it onto the dial.
- Set the daily Sun-Moon programme.

Programme Selector (5)

- ⏻ The Control centre is switched "Off". The clock works. The installation comes into service when the outside temperature drops below 0°C, governed by the Moon programme and thus being always protected against the risk of freezing.
- 🕒 Regulation according to the alternate Sun- Moon programmes established.
- ☀️ Permanent regulation by the Sun programme.
- 🌙 Permanent regulation by the Moon programme.
- 🔧 Regulation cancelled based on the outside temperature. The pump is switched "On" and the burner is working at full output. This programme allows for the combustion analysis to be conducted.

- 🔧 Emergency programme in case of defective operation of the control equipment. Adjust the boiler temperature through the thermostat. The pump is switched "On".

Service indicator lamps

Under the cover (9) are the pump (H) (10) and burner run lamps (11).

Cleaning

No specific cleaning is required.

Maintenance

At least once a year, call a qualified technician to check that all the components are working correctly.

Note:

Characteristics and performance qualities subject to change without notice.