

**E 1379**

Manual

## **Boilers in sequenced operation (cascade system)**



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Subject to modifications

# Manual – Boiler in sequenced operation

Pellets boilers in sequenced operation – cascade system. Settings before the start up.

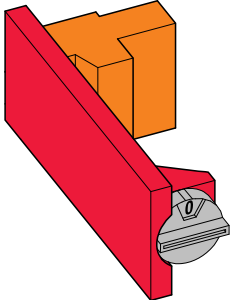
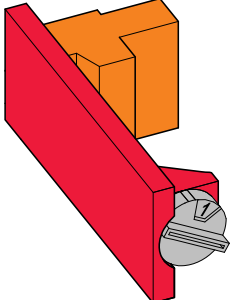
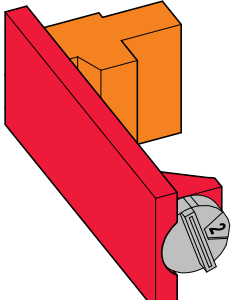
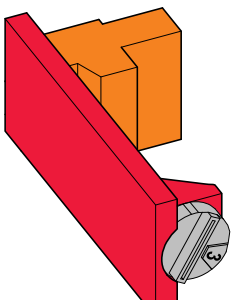
## 1. Busconnection

All boiler CMPs must be connected with bus cables (four-pole, shielded).

## 2. Order of boilers

For boilers in sequenced operation it is necessary to determine the order of the boilers. Only one boiler has an operating device – this must be the boiler number 1.

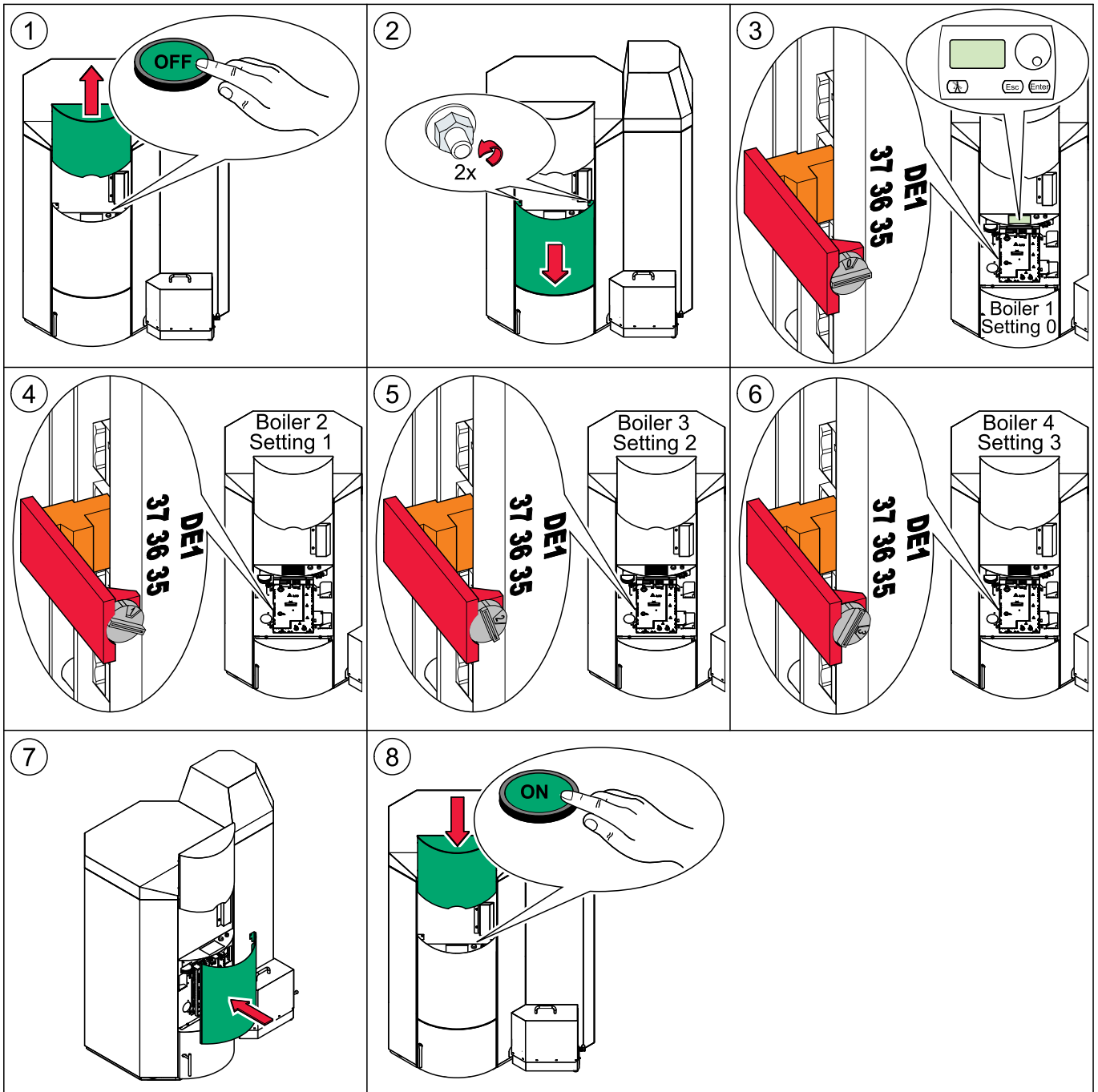
A plug on the boiler controller of each boiler defines the order.

Number on the plug	Order of the boilers	<p><b>Note</b></p> <p>Only use the settings 0–3!</p> <p>In case the plug setting is higher than 3 the boiler will be not recognized.</p>
	Setting 0 Boiler number 1	
	Setting 1 Boiler number 2	
	Setting 2 Boiler number 3	
	Setting 3 Boiler number 4	

**ATTENTION:**

For cascade heating systems **without** Pelletronic heating controller (without Pelletronic terminal box) every boiler must have an operating device.

Install the plug according to the order below.



### 3. Settings in the menu *Periphery Learning*

#### **Note**

For all further steps you have to connect the boiler and the Pelletronic terminal box to the power grid. Further there must be a bus connection from the boiler controllers to the Pelletronic terminal box.

In the Pelletronic heating controller make the following settings in the menu **Periphery Learning** (General/Code input/Periphery Learning) :

- **Number I/O units** – 2, 3 or 4 (according to your heating system)
- **Number of slave units** – 2, 3 or 4 (Number of digital remote control according to your heating system)
- **Boiler type** – Choose Pellematic
- **Return temp. increase** – Default No
- **CMP Type** – Choose CMP 06
- **Number CMP** – 2, 3 or 4 (Number of boilers according to your heating system)
- **Periphery Learning** – Yes

### 4. Settings in the menu *Pellematic*

You have to make the following settings according to your heating system

- **Number of boilers** – 2, 3 or 4 (according to your heating system)
- **Hysteresis 1** – Default 2°F
- **Hysteresis 2** – Default 5°F
- **Hysteresis 3** – Default 3°F
- **Boiler Duty** – Default 50 hours
- **Off temperature** – Default 68°F
- **Reserve boiler** – inactive
- **Delay time B2** – Default 30 min
- **Delay time B3** – Default 30 min
- **Delay time B4** – Default 30 min

### 5. Settings in the menu *Main menu*

In the menu Main menu – heating circuits 01, 02, and 03 you have to make the following settings:

- **Max flow temperature** – 194°F
- **Min flow temperature** – do not change default value 2°F
- **Raising a setpoint** – do not change default value 5°F
- **Type of heating circuit** – mixed or unmixed

#### **Note**

During the **set back** period of pumps of unmixed heating circuits are **Off**. Nevertheless frost protection function is active.

- Set the time programm for the heating circuits according to the requirements of your customer.