

1.1 Cascade control

With this configuration it is possible to control either 1 foreign boiler or up to 3 Gilles Touch boilers. In both configurations one master boiler starts up or shuts down the other slave boilers according to the heat demand.

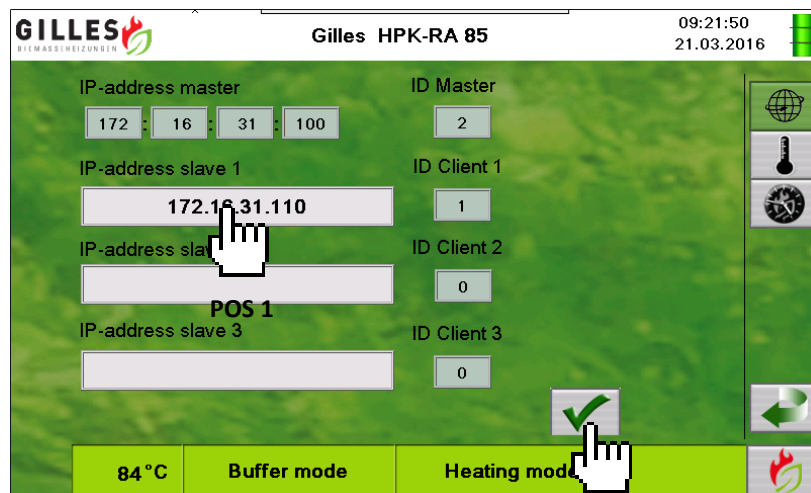
To enable the menu for the cascade control, activate the configuration “Cascade present”.

There are 3 different operation modes for the cascade control.

- Automatic
- Buffer
- External Boiler

Important: Boiler is not able to run two operation modes simultaneously!

1.1.1 Cascade Control – Buffer / Automatic



POS 2

In the cascade menu the first step is to set up the TCP/IP connection to the slave boilers.

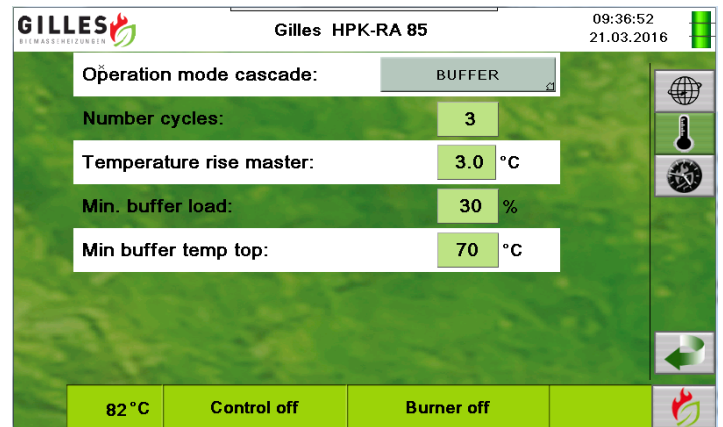
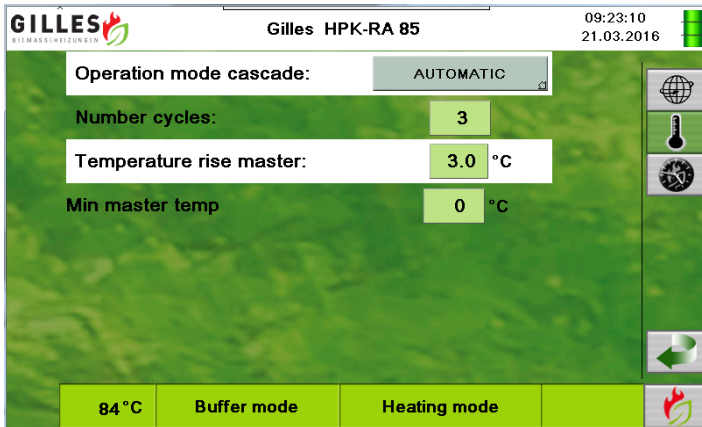
Type in the IP address of the slave boilers and confirm it. (POS1)

If the IP address is correct and the connection is enabled the menu points at POS2 are visible.

The ID describes the boiler priority. The boiler with the lowest ID is switched on first.

Depending on the heat demand the additional boilers will be switched on according to their ID.

Important: The configuration for the cascade control is only allowed on 1 boiler!



Parameter: Operation mode cascade

Responsibility: This parameter defines the operation mode of the Cascade control.

AUTOMATIC:

The boiler with the lowest available ID is always in Automatic Mode. If this boiler doesn't reach its boiler temperature within a certain period of time, the boiler with the next higher available ID is switched on.

BUFFER:

All boilers are in control off as long as the buffer vessel doesn't set up a heat demand. In case of a heat demand the boiler with the lowest available ID is switches on. If this boiler doesn't reach its boiler temperature within a certain period of time, the boiler with the next higher available ID is switched on.

Parameter: Number cycles

Responsibility: This parameter describes the number of cycles á 10 min in which the boiler temperatures are monitored. After this time period the average boiler temperatures are compared.

Parameter: Temperature rise master

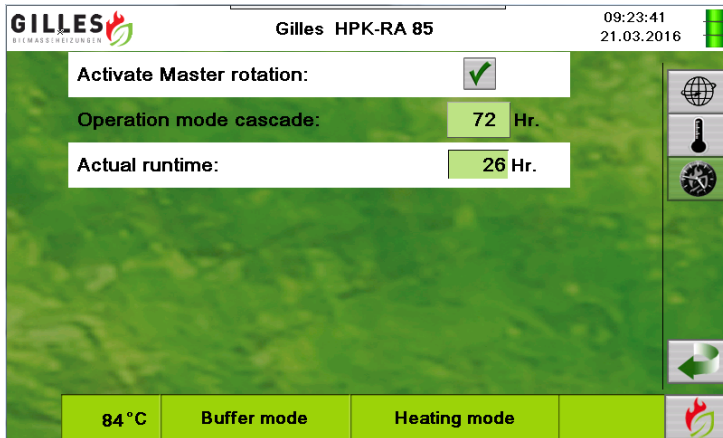
Responsibility: This parameter describes the minimum temperature rise of all boiler temperatures. If this temperature rise isn't reached within the time period (Number cycles á 10min) an additional available boiler will be switched on.

Parameter: Min. buffer load

Responsibility: When the cascade control is activated and the buffer load is below this parameter all available boilers are started up simultaneously.

Parameter: Min. buffer temp top

Responsibility: This temperature defines the minimum buffer top temperature at which an additional boiler wouldn't start even though the master temperature rise wasn't achieved.



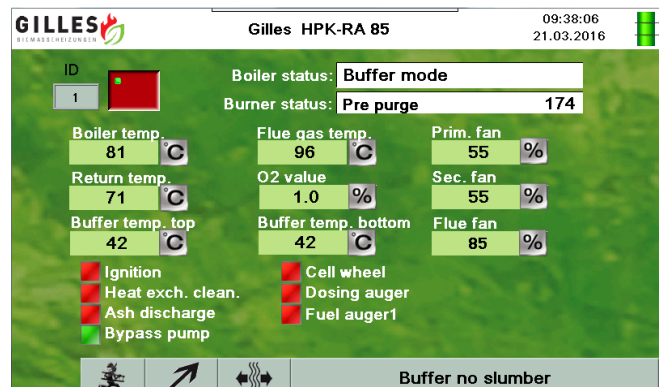
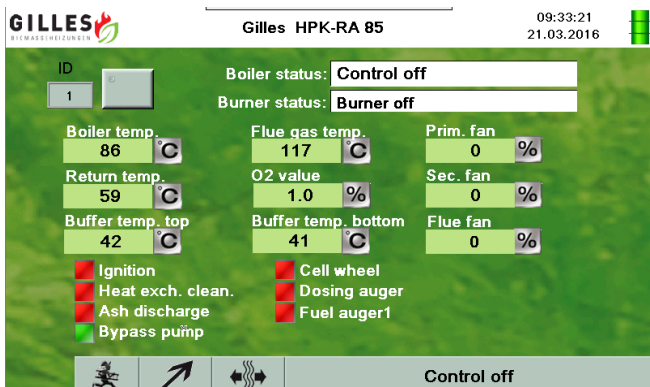
Parameter: Activate Master rotation

Responsibility: This configuration enables the master rotation. After a configurable time the boilers change the IDs.

Parameter: Time until rotation

Responsibility: This parameter defines the runtime of the control until the next Master rotation takes place.

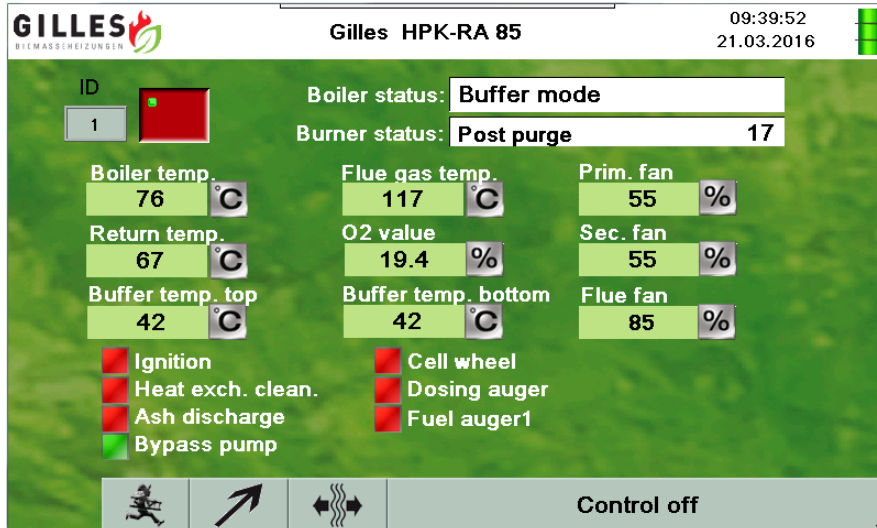
If the configuration of the Cascade was successful a button shows up on the top left corner of the main screen. After pressing the button the cascade control is up and running.



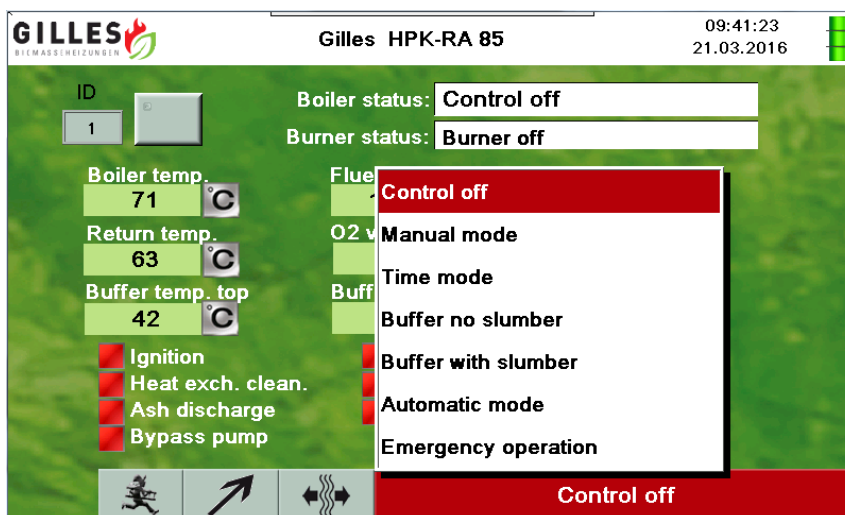
Important notes:

When changes are done by one of the boilers (change operation mode , manual master rotation) the cascade has to be reset.

1. Deactivate the Cascade Button on the master boiler



2. Set the operation mode back to **Control off** on the boiler where the changes have been made.



3. Activate the Cascade Button again!

