OJ-Air AHC-3000 Software 2.10

Software 2.10 is now released for up-grade by the free PC tool or Cloud, and will be introduced into the production at OJ Electronics on all new orders.

Changes

Compared to version 2.10 there were following improvements:

Functional description

No changes. The "Functional description AHC-3000 01" available at OJ Electronics customer log-in is still valid.

Functionality

New features:

- Digital output "Heat recovery" is now active in AHU type "Mixing".
- Digital input "Heatpump Oil/Defrost" freeze the combi coil setpoint when closed. This will keep a connected heat pump running during it's oil boost or de-icing cycle.
- Combi coil cooling and heating now has a Min. operation time and Min. stop time. This will protect the compressors in a connected heat pump.

Improved features:

- Humidity and VOC/CO_2 control loops improved when Air flow sensors are installed. (UOE 9776).
- Min. fan speed settings is only active if visible in the HMI (UOE 9896).

HMI-35T

- Combi coil "Min. operation time", "Min. stop time", "Remaining operation" and "Remaining stop" added in: Menu-Temperature-Combi coil.
- "Heat recovery relay" status added in: Menu-Temperature-Mixing damper.
- VOC level on standby screen in ppm and not ppmÊ (UOE 9321)

- Min fan speed setpoint changed from 0% to 12% in order to keep the output voltage above Plugfan start threshold voltage. Menu-Fan-Supply air fan, Menu-Fan-Exhaust air fan. (UOE 9486).

BMS Modbus

- 4x0219 EXT_BMS_Restart.
- 4x0121 Electric coil: 0% heat power.
- 4x0122 Electric coil: 100% heat power.
- All Scheduler parameters.

Alarms

- B-alarm 1004 "High extract air temp." improved in case of Combi coil (UOE 10301).

OJ-Air2-HMI-20T

- No changes.

Cloud

- No changes

Compatibility

No changes are required when upgrading from sw 2.00 to 2.10. If upgrading from older versions than 1.35 please see Product information no. 745 regarding changes in k-factor, Heat recovery DO6 and Boost mode.
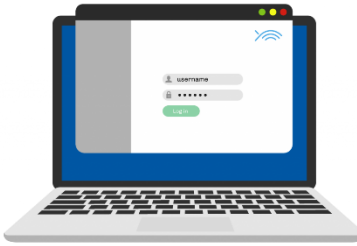
Software versions

- AHC-3000-X software 2.10
- AHC-3000-HMI-35T software 2.10
- OJ-Air2-HMI-20T software 2.03

Affected articles

- AHC-3000-T
- AHC-3000-B
- AHC-3000-S
- AHC-3000-HMI-35T

Coming into force

Version 2.10 was released in week 50 2022.

Software Upgrade

The SW files are available at OJ Electronics Customer Login https://ojelectronics.com/support and SW upgrade is possible using OJ Air Cloud or OJ Air PC-Tool vers. 1.2 or higher.
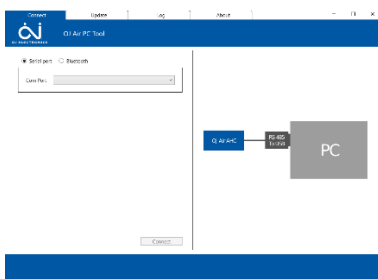
- File: AHC3000_MCUSW_210_00_0000.zip

OBS: If upgrading from lower SW versions than 1.20 another procedure is required. Please see Product information no. 693

OBS: In order to make a safe software update please follow this procedure:
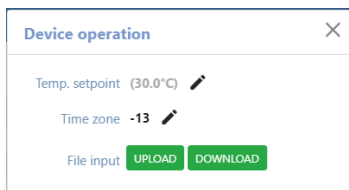
Using OJ Air PC Tool and OJ-USB2RS485-CONV:

1. Connect OJ-USB2RS485-CONV to your labtop USB port and the RJ12 plug to AHC-3000 HMI port.
2. Power the AHC-3000 up.
3. Update the AHC-3000 controller by the OJ Air PC Tool.
4. Remove OJ-USB2RS485-CONV RJ12 plug from AHC-3000 HMI port and connect the AHC-3000-HMI-35T.
5. Power the AHC-3000 Off and wait 5 seconds.
6. Power the AHC-3000 up.
7. Wait until red flashing LED at the power plug starts flashing green and the HMI stops flashing White/black
8. The controller and HMI are now up-dated and the new version can be read out in the menu "Software"

The sturdy USB to the RS485 converter is available from OJ Electronics. Please order Part no.: OJ-USB2RS485-CONV.

Using Cloud:

1. Open the specific controller tab on https://oj.hvac-cloud.com/
2. Select "Device operation" and UPLOAD.
3. Select file and UPLOAD.
4. Wait until the file transmission is completed OK.
5. The controller continues to operate using the old software until the first mains power cycle from Off to On. (if updating from sw 1.33 the AHC-3000 restarts automatically and start using the new sw)
6. During powering up the AHC-3000 automatically starts using the available new software and updates the HMI as well.

Contact

If further technical information is required, please contact our support dept.: support@oj.dk.