

Startup procedure for

Ensy[®] AHU-units



Information can be found on the data plaque inside the unit. This sign shows. AHU-400 BH

Unit type: AHU- _____
 Serial no: 010 _____ . ____ / ____
 Date of start up first time: _____



Where the unit is installed:

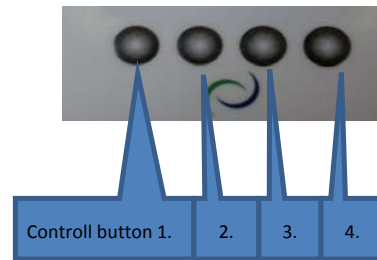
Name: _____
 Address: _____

Here are some points to be checked after Ensy® AHU unit is installed.

1. Insert the plug into a grounded socket.

Then you will have a picture like this in display.

(Time and temperatures will show other values then shown here)



Overview push buttons.

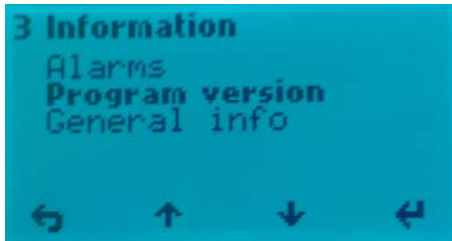
2. Control to see if there are contact between Display and Master software in unit.

Press control button 3 once to get into the information menu.

Press control button 3 once to get into the Program version menu.

Press (Enter) control button 4.

You than will see that there are contact with Display and Mastercard software in menu picture (3.2).



Latest display software are 021 and Master are 034.

Press control button 1 (Return) twice to get back to start up menu.

Note! If you have installed an extra display then you have to program one of the displays with name Display 2. (Both displays must have same software version.)

Press control button 4 once to get into 4. Preferences.

Press control button 3 four times to get to Setup.

Press (Enter) control button 4 to get into 4.5 PIN code.

Fill in three last numbers:

Display 1 Ver: _____

Display 2 Ver: _____

Master Ver: _____

Press control button 3 (+) once and you will have 1000 in display.
Press control button 4 (enter) four times and **OK** will show up in display.

Press control button 3 (OK) to get into **4.5.1 Setup**.

Press control button 3 nine times to get to Display number.

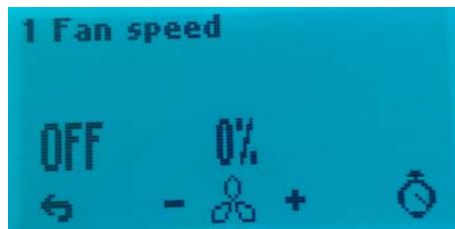
Press control button 4 once to get into **4.5.1.10 Display number**.

Press control button 3 (+) once until it shows Display 2.

Press control button 1 (Return) three times to get back to start up menu.

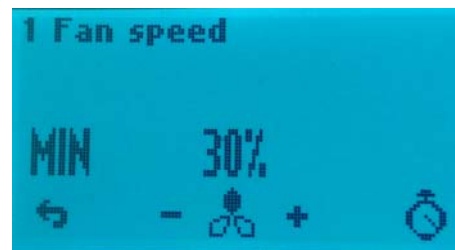


3. How to control the fan speed.



The fan speed is set to **OFF 0%** from factory.

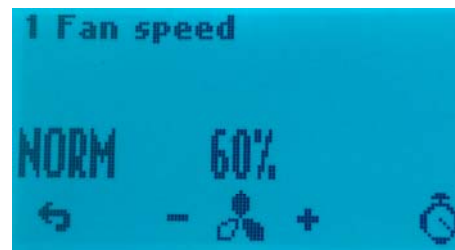
Press control button 1 once to get into **4.1 Fan speed**.
There are different values on MIN, NORM and MAX depending on the unit type. Factory settings you can find in «*User manuals and Installation Guide*» under menu 4.5.1.3. Fan control.



Press control button 3 (+) to test the unit on MIN speed.
(It is the value for supply air fan that shows in display)

If adjusted. What is new value after installation?

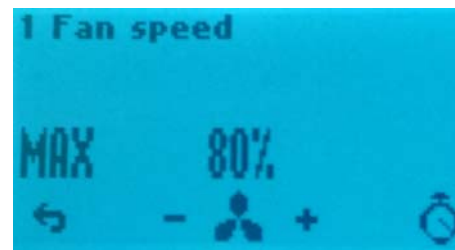
Supp: ____% Extr: ____%



Press control button 3 (+) to test the unit on NORM speed.
(It is the value for supply air fan that shows in display)

If adjusted. What is new value after installation?

Supp: ____% Extr: ____%



Press control button 3 (+) to test the unit on MAX speed.
(It is the value for supply air fan that shows in display)

If adjusted. What is new value after installation?

Supp: ____% Extr: ____%

Set the unit to NORM fan speed after installation.

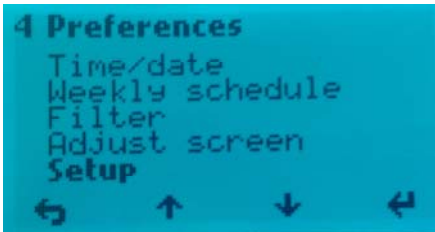
Press control button 2 or 3 (under – and +) to get back to NORM fan speed.

Press control button 1 (Return) once to get back to start up menu.

4. How to adjust % for MIN, NORM and MAX to get balanced ventilation.



Press control button 4 once to get into **4 Preferences**.

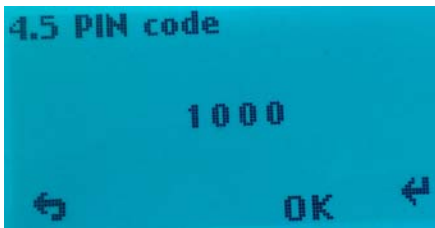


Press control button 3 four times to get to Setup.



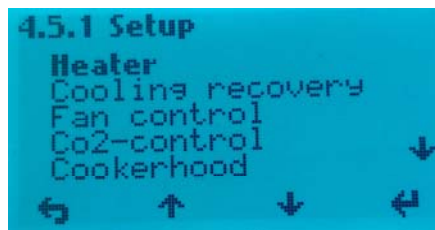
Press (Enter) control button 4 to get into **4.5 PIN code** menu.

Press control button 3 (+) once and you will have 1000 in display.



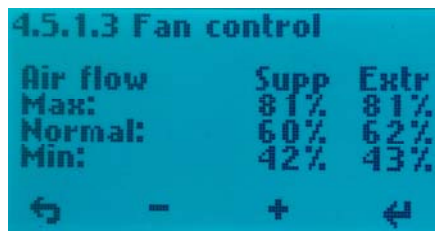
Press control button 4 (enter) four times and **OK** will show up in display.

Press control button 3 (OK) to get into **4.5.1 Setup**.



Press control button 3 twice to get to Fan control.

Press control button 4 (enter) to get into **4.5.1.3 Fan control** menu.



There are different values on Min, Normal and Max depending on the unit type. Factory settings you can find in «*User manuals and Installation Guide*» under menu 4.5.1.3. If you need to do adjustments here to get balanced ventilation then please fill in the new settings on previous page.

Change values with control buttons 2 (-) or 3 (+). Move between Supp. and Extr. with control button 4.

After adjustments use control button 1 (Return) three times to get back to the start up menu.

- Which % intervals are there on the different operating steps?

OFF = 0%
 MIN = 30 - 49%
 NORM = 50 - 79%
 MAX = 80 - 100%

5. Adjust to desired supply air temperature.



Supply air temperature is set to 17°C from factory and can be adjusted between 15 and 21°C.

Press control button 2 once to get into **2 Temperature** menu.

Change values with control buttons 2 (-) or 3 (+).

After adjustments use control button 1 (Return) once to get back to the start up menu.

Write down set temperature: _____
(This can of course be changed by the landlord if desired)



6. Setting time and date.

This is important to get an alarm when it's time for filter change.

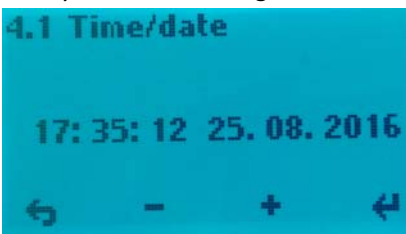
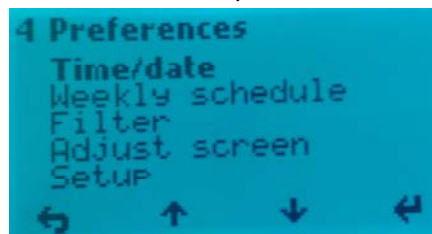
Press control button 4 once to get into **4. Preferences**.

Press control button 4 one more time to get into **4.1 Time/date** menu.

Change values with control buttons 2 (-) or 3 (+).

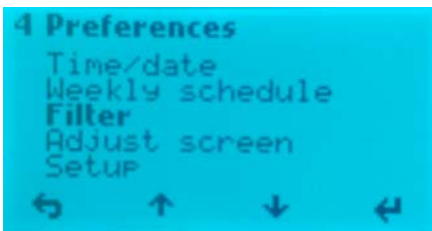
Press control button 4 once to get to next step.

If you need to go back and wants to correct a field you can start over by pressing control button 4 number of times till you are back in the field you need to change.



Write down date: _____

Press control button 3 (OK) once to get back to **4 Preferences** menu.



Press control button 3 twice to get to Filter.

Press control button 4 once to get into **4.3 Filter** menu.

Use control buttons 2 (-) or 3 (+) to set wanted interval before next filter change. Can be set to 6, 9 or 12 months.

Write down chosen interval: _____ Months

(This can of course be changed by the landlord if desired)



Press control button 4 once (Filter OK!) and you will get Next replace date in display.

Write down next replace date: _____

Press control button 1 (Return) twice to get back to start up menu.

Landlord or, who is responsible for service in larger projects, to make an agreement for who to change filters and from whom to order new filters.

Any agreements made, YES or NOI: _____

7. Verify that the signal from cooker hood / kitchen ventilator works.

This is important to avoid rotor alarm..

If a cooker hood is connected towards the ventilation unit it is important that there is signal from cooker hood into **KV** connection plug on the ventilation unit.

This signal can be taken from the cooker hood directly or via a pressure switch in the piping between cooker hood an ventilation unit.

If a two-step kitchen ventilator is used then it is important that in the first step, where only the damper opens, there also is signal from ventilator into **KV** connection plug on the ventilation unit. This signal can be taken from the cooker hood directly, if possible, or via a pressure switch in the exhaust piping from the ventilator.

Kitchen ventilator with integrated fan is not allowed to connect directly to the «Cooker hood» inlet on the ventilation unit. For this you need to make its own exhaust piping through wall. Anyway you need to make a signal from kitchen ventilator into **KV** connection plug on the ventilation unit. This signal can be taken from the kitchen ventilator directly, if possible, or via a pressure switch in the exhaust piping from the ventilator.



Inn all cases it is important to see that there are signal in display when activating any steps on cooker hood / ventilator.

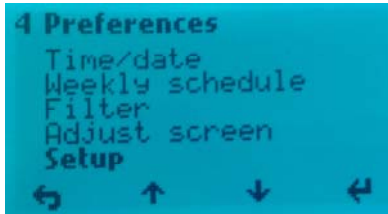
Do this signal show in display on all steps when activating cooker hood / ventilator.

Yes or NO: _____

If a pessure switch is used to get signal it is important thet it is adjusted with such a high value that it don't give signals when cooker hood / ventilator is not activated.

8. Checking settings for the fans when activating cooker hood / kitchen ventilator.

To get balanced ventilation when you activate the cooker hood or kitchen ventilator you should adjust the settings.



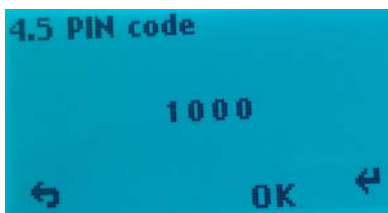
If a cooker hood is used.

Press control button 4 once to get into **4. Preferences**.
Press control button 3 three times to get to **Setup** menu.

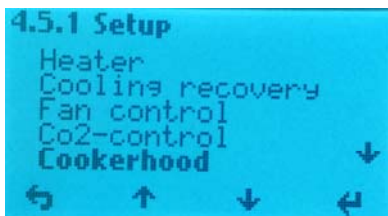
Press (Enter) control button 4 to get into **4.5 PIN code** menu.



Press control button 3 (+) once and you will have 1000 in display.

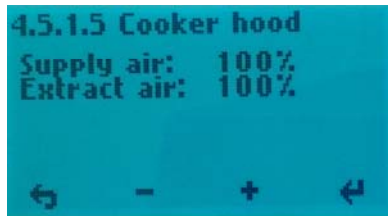


Press control button 4 (enter) four times and **OK** will show up in display.



Press control button 3 (OK) to get into **4.5.1 Setup**.

Press control button 3 four times to get to Cookerhood.



Press control button 4 (enter) to get into **4.5.1.5 Cookerhood** menu.

Set to 100% from factory.

Move between Supply air and Extract air with control button 4.

Change values with control buttons 2 (-) or 3 (+).

After setting press control button 1 (Return) three times to get back to start menu..

Here the values for Supply air and Extract air should be set to same values as for MAX in menu 4.5.1.3. Fan control in the user manual that follows this unit.

If an active kitchen ventilator is used.

If an active kitchen ventilator is used, then Extract air should be set to 50% or less to compensate for the air that is extracted via kitchen ventilator.

All the above points must be checked before the unit is approved by the installer.

The completed form is attached to documentation folder that shall follow the unit.

Other "options" that can be used together with the unit can be found in the instructions supplied unit.

All paperworks and instructions you can find on www.ensy.no

The company that have installed this unit:

Contact:

Phone:

e-mail:



Ensy AS
Mohagasvingen 1
N-2770 JAREN
<http://www.ensy.no>