Information sheet **Display menu DucoBox Energy**

L2004732-A 23.09.2024

01 Preliminary remarks

The display menu can be used both to read parameters and to make changes to the network and settings of each DUCO component.

Controller

As the software is the same for several DUCO products such as the DucoBox Energy Premium and Comfort, further in the manual these products will be referred to as the controller.



Depending on the type of controller, the software version and the presence of a Duco Connectivy Board, some items may be missing from the display menu.

<u>Control</u>

The display on the DucoBox Energy has 3 buttons: up (\blacktriangle), down(\triangledown) and enter (\blacksquare). The arrow keys can be used to scroll through the menu. If the display has not been used in the normal operating mode, it will be deactivated after 1 minute. Press any button at random on the display in order to reactivate it. Press enter (\blacksquare) to retrieve the menu.

<u>Main screen</u>

The display will light up continuously when the DucoBox Energy starts up until calibration has been completed. Then the following main screen is visible:





up (🔺)

enter (

see page 13

see page 13

see page 13

02 Menu structure DucoBox Energy

The chart below contains all the menus in the DucoBox Energy.

Menus with a padlock (**i**) are only visible to the installer, after entering the installer's code **9876**.

The chart below may differ depending on the DucoBox Energy software version.

There are 4 visible main menus and 2 main menus visible after
entering the installer code, each with submenus:

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- INFO
- SETTINGS
- FILTER

FILTER

FILTER STATUS

REPLACE FILTER

- INSTALLATION
 CALIBRATION
- ADVANCED

Each of the submenus is explained in more detail in the following chapters.

INFO	see page 3
TEMPERATURE SENSORS	see page 3
PRESSURE SENSORS	see page 3
BOX SENSORS	see page 3
ERROR LOG	see page 3
DUCO SERIAL NUMBER	see page 4
SOFTWARE VERSION	see page 4
SOFTWARE UPLOAD	see page 4
SERVICE CODE	see page 4
DEVICE INFO	see page 5

WIZARD 🔒	see page 15
INSTALLATION	see page 14
FILTER LIFETIME	see page 13
CLEAN FILTER	see page 13

see page 15
see page 15
see page 15

	see page 15
WIZARD	see page 15
CALIB BY CODE	see page 16
VERIFY HIGH LEVEL	see page 17

ADVANCED / CLOSE ADVANCED

¹ Not visible with DucoBox Comfort FR.

- ² Only visible with the DucoBox Energy Sky.
- ³ Only if at the first start-up, when choosing the country, "the Netherlands" was selected.

SETTINGS		see page 5
COMFORT TEMPERATU	RE	see page 5
CONTROL ON DEVICE		see page 5
PROGRAM ¹		see page 6
BYPASS		see page 7
DATE & TIME		see page 7
LANGUAGE		see page 7
SCREEN ORIENTATIO	N ²	see page 7
LAN SETTINGS		see page 8
MODBUS	8	see page 9
CONFIG	8	see page 9
FROST PROTECTION	8	see page 12
NIGHTBOOST	8	see page 12
BUILDING TYPE ³	8	see page 12

03 Submenu INFO

03.A INFO

> TEMPERATURE SENSORS

The DucoBox Energy features 4 temperature sensors, which measure the temperature at each duct connection. The values of these temperature sensors are indicative. When an error occurs, "---" appears on the display.





The measured pressure in the device relative to the atmosphere is displayed. These values give an indication about the performance of the system calibration. The upper value is the SUP pressure sensor, the lower is the EHA pressure sensor. When an error occurs, "---" appears on the display.



03.C INFO > BOX SENSORS BOX SENSORS This menu displays the measured values of a CO₂ Box sensor, Humidity Box BOX SENSORS CO2 : 654 ppm RH Sensor or a Humidity Sensor: 45 X TEMP TEMP °C 19 19 • CO₂: xx ppm BACK BACK RH: xx % • Temp: xx °C



If the fault symbol **A** is shown on the main display, you will find in this menu an overview of error messages and/or warnings that you can report to the DUCO Service Team. You can use the up (\blacktriangle) or down (\triangledown) buttons to scroll through the list, 1 error at a time. Errors are displayed on the screen in groups of 2. As long as "**BACK**" is not on the screen, there is a next screen.



Service instruction Error codes DucoBox Energy

Errors or warnings regarding the DucoBox itself

The items increase, based on the first number (XX) of the error code (XX.YY.ZZ).

ERROR LOG		ERROR LOG
1. extract fan		2. sup temperature sensor
	error: 1.4.1	error: 30. 1. 1
BACK		3. replace filters
		warning: 31.19, 1

Errors or warnings regarding the components in the DucoBox network

Node numbers (increasing), e.g. error on paired component 4 (= type 10) with error code 3.17.3

ERROR LOG	ERROR LOG
3. replace filters	4. user control rh
4. user control rh	error: 4-10: 3.12. 3 BACK
ernor: 4–10: 3.17, 3	

03.E INFO

> DUCO SERIAL NUMBER

Here you will find info on the serial number of the DucoBox as well as the circuit board:

DUCO SERIAL NUMBER
DUCO SERIAL NUMBER:
P0123456-012345-012
BOARD:
PS01234567890

|--|

In any communication with DUCO, you may be asked to state the software version of your DucoBox Energy. Please keep this number to hand for any communication. Please keep this info to hand.

If you retrieve the info from a component other than the DucoBox itself, an LED on this component will light up blue.

SOFTWARE VERSION	SOFTWARE VERSION
DUCOBOX ENERGY	SW: 19156.5.1.0
COMMUNICATION PRINT	15071.10.1.0
VALVES	SN: PS1234567890
USER CONTROLS	Jan 1 2022

 Sw xxxxx This indicates the software product type of the component. The software version of a component is a combination of the version numbers Release.Revision.Test, which leads to e.g.19156 4.3.0.

• **[sn xxxxx**] This displays the serial number and manufacturing date of the printed circuit board.

03.G INFO > SOFTWARE UPLOAD

This functionality displays the status of the software update as a percentage (for the benefit of the DUCO Service Team).

Both the controller software and the underlying components in the network are updated.

During the update, the controller's LED flashes magenta (≈ purple). The update is complete as soon as the LED lights magenta continuously. During updating, it is possible that the controller restarts and the LED lights yellow temporarily.



|--|

This code lists the components in the network and their software version and provides insight into the system for service purposes. Note that the code is case-sensitive! The code can consist of several pages, allowing scrolling with the arrow key.

Example: 2221Cc137c12ae21Ab12fc12

In any communication with DUCO, you may be asked to provide unit details such as correct name, type, country setting.

Some examples:

DEVICE INFO	DEVICE INFO	DEVICE INFO	DEVICE INFO
DB Energy Premium	DB Energy Premium	DB Energy Comfort	DB Energy Comfort Plus
TYPE: 325-12H-R	TYPE: 400/570-228-L	TYPE: 325-R	TYPE: 450-H-R
BELGIUM	THE NETHERLANDS	THE NETHERLANDS	UNITED KINGDOM
DEVICE INFO	DEVICE INFO	DEVICE INFO	
DB Energy Comfort Plus	DB Energy Comfort FR	DB Energy Sky	
TYPE: 550-42-L	TYPE: 325-H-L	TYPE: 275-32-R	
BELGIUM	FRANCE	THE NETHERLANDS	

04 Submenu SETTINGS

04.A	SETTINGS	>	COMFORT	TEMPERATURE
• • • • •				

The DucoBox Energy will seek to maintain the temperature in the house at the set value (default 21°C – min. 10°C – max. 25,5°C) (in AUTO mode). The DucoBox Energy also features a smart algorithm which will automatically adjust the comfort temperature depending on the outdoor temperature. This will maintain the temperature in the house at the most comfortable level possible for the occupants.

With zoned control, a comfort temperature can be set for each zone.

DucoBox Energy without zoned control



Multi-zone DucoBox Energy Comfort (Plus):

COMFORT TEMPERATURI	Ξ
ZONE 1	
21,5°C	









04.B SETTINGS > CONTROL ON DEVICE

The DucoBox Energy has the option to view and change the ventilation position via the display menu. If this option is active, the main screen will show the ventilation position and using the arrow keys will enable changing the ventilation position. The selected ventilation position on the unit is permanent (indicated in purple on the controls) until the user activates another mode. A user controller is needed if you want to set temporary manual positions. DUCO recommends the AUTO position for an optimal and energy-efficient operation.







Caution: an activated clock programme can only work in AUTO mode.



⁴ Not visible with DucoBox Comfort FR.

Default: inactive

A set timetable can be programmed into the ventilation unit.

This is desirable when there are no CO_2 and/or humidity sensors in the ventilation system. With the timer program, the DucoBox Energy Comfort will increase or decrease the ventilation in the house.

There are 2 possibilities:

1. DucoBox WITHOUT zone control

You immediately enter the programming menu.



Select ADD to insert a new time point (max. 8) into the program.



2. DucoBox WITH 2-zone or Multi-zone configurations

The timer program can be set differently for each zone.

PROGRAM	PROGRAM	PROGRAM	PROGRAM
ZONE 1	MODE	MODE	MODE
ZONE 2	BACK	WORKWEEK	PROGRAM
ZUNE 3 BACK			BACK
DHUN		DHUN	

Select ADD to insert a new time point (max. 8) into the program.





Default bypass settings:

• MODE = Auto

BACK

• ADAPTIVE = On

The system is able to partially or completely deactivate heat recovery if the temperature in the house rises too high, e.g. due to solar heat gain in hot summer weather.

In this case, the bypass will direct the air extracted from the house either partially across the heat exchanger or not at all. Fresh outdoor air will therefore not be heated up by warm stale indoor air. This relatively cooler outdoor air entering the house will be used to reduce the temperature in the house as far as possible down to the desired temperature.

STATUS: the current bypass status (informative)

0%	bypass shut	(= l act	heat exchange :ive)
100%	bypass open	(=) exc	no heat change)
BYPASS			
STATUS	;	40 %	
MODE	-	DPEN	
ADAPT	IVE	ON	

MODE: with this submenu the bypass can be set manually

- AUTO (= standard): automatic operation based on measured temperature and comfort temperature setting
- OPEN: heat exchange at no time
- SHUT: heat exchange all the time



ADAPTIVE*

ON, the system will automatically seek the most pleasant-feeling temperature thanks to a smart comfort temperature control. The system will adjust the desired indoor temperature based on the outdoor temperature and the season of the year.

* This is only visible if the MODE is set to AUTO



	04.E	SETTINGS	>	DATE & TIME
--	------	----------	---	-------------

The DucoBox Energy has an inbuilt clock which is required for the time-dependent controls.

During the initial installation, carried out by the installer, the date and time will be set correctly. Each DucoBox Energy will remember the date and time for a number of hours after a power interruption.

DATE & TIME TIME: 08:05 DATE: 07/01/2020 TIMEZONE: +01 GMT

If the date and time have nevertheless been set incorrectly, they can be corrected manually via this menu by pressing the up- or down-button and to press enter to confirm or to move to the next line.

04.F	SETTINGS	>	LANGUAGE		
------	----------	---	----------	--	--

Default: ENGLISH

The menu language can be changed to match the user's language. The following languages are available: Dutch, English, French and German. All important installer settings (e.g. Wizard menus) will always appear in ENGLISH. Despite other language choice selected.

04.G SETTINGS

> SCREEN ORIENTATION⁶

⁶ Only adjustable with a DucoBox Sky.

Depending on the positioning of the device, the display can be oriented differently. The options are STANDARD or UPDATED.



04.H	SETTINGS	5	>	LAN	SETTING	S	
This platforn	n is only active v	when a Duco Connectivi	ty Bo	ard is c	onnected, ANI) there is a positive	LAN SETTINGS
The Duco Co Under this s	MODIFY WIFI AP BACK						
INFO : the n name	etwork connect is displayed.	ion is read here. Inform	ation	about t	he IP address	MAC address and HOST	LAN SETTINGS IP : 172.16.138.73 MAC : xx:xx:5F:00:50:03 HOST: duco001.local
 MODIFY: this is where the network connection is set. <u>DHCP</u>: Is set to ON by default. If this option is activated, the IP address of the DucoBox is retrieved automatically . Depending on the DHCP setting (ON/OFF), the following settings are visible: <u>STATIC IP</u>: (If DHCP = OFF) The static IP address of the DucoBox can be changed here. <u>DEFAULT GATEWAY</u>: (If DHCP = OFF) The default Gateway can be changed here. <u>HOSTNAME</u>: Only visible when an "old" Communication Print is connected. Default: duco.001.local. This indicates the web address that can be surfed to via the web browser on the local network to read or change the parameters of the DucoBox . This web address is http://ducoxxx.local, with xxx = the entered number in this narameter 							LAN SETTINGS HOSTNAME duco 003.local
WIFI AP: W	-Fi Access Poir	nt - only visible when a [Duco	Installa	tion Kit or Duo	o Connectivity Board is	WIFI AP
co • <u>AP INFO</u> • <u>MODE</u> : T can swite	nnected. : this menu prov his menu provio :h to the Wi-Fi /	vides information about des information about th Access Point functionali	the s ne ne ty.	erial nu twork c	umber and Wi- onnection. By	Fi key pressing any button you	INFO MODE MODIFY BACK
WIFI AP		WIFI AP	WIF	'I AP		WIFI AP	AP INFO SSID: DUCO-PO00000
ET	HERNET	WIFI CLIENT		WIF	TI AP	NONE	-220517-001 KEY: 1234ABCD
MODIFY: WIFI AP START 0 BACK	adjust the netv IFI AP	vork mode WIFI AP STOP WIFI AP BACK					
Select ye WIFI AP START 6	s or no to modi IFI AP ES / NO	fy the network mode. WIFI AP STOP WIFI AP YES / NO					
While the WIFI AP START 6 Please	e command is p IFI AP e Wait	rocessing you will see t WIFI AP STOP WIFI AP Please Wait	he fol	llowing	screen:		

04.1	SETTINGS	>	MODBUS		
n this platfor 3oard is conn • <u>ADDRESS</u> : • <u>REGISTER</u> • <u>SPEED</u> : Ad • <u>PARITY</u> : Ad	m, external Modbus-links can be set up ected, AND there is a positive response The Modbus address of the controller c <u>OFFSET</u> : Addresses start counting from justable only with a Communication Bo justable only with a Communication Bo	. Th to t an t 1 b ard i ard	is is only active when a Duco Connectivit he Modbus address query. be set here (default = 1). y default. instead of Duco Connectivity Board. instead of Duco Connectivity Board.	ty	MODBUS ADDRESS REGISTER OFFSET SPEED PARITY

		_	
04.J	SETTINGS	>	CONFIG

This menu provides an overview of all possible components, regardless of whether these components are actually present in the network or not. The LED button of each component whose settings are currently being changed turns blue. Thus, the component selected in the menu is identified with the physical component in the ventilation system.

In the following submenus, the parameters of the respective component can be configured: BOX (DucoBox), EAV (valves or 2-zone configurations), UCRH/UCCO₂ (User controllers), BOX SENSOR LIST (box sensors) and SWITCH LIST (switch sensors).

BOX (DucoBox Energy)

This submenu displays the various configuration parameters of the controller.

- **AUTO MIN**: Minimum ventilation position in automatic mode (default = 10%).
- AUTO MAX: Maximum ventilation position in automatic mode (default = 100%).
- UC ERROR MODE: Indication selection of error (red) or warning (orange) within the DUCO network:
- <u>DISABLED</u>: the user controller or room sensor does not show an LED indication.
- <u>AUTO</u>: the LED indication of the user controller or room sensor continues to show the error or warning.
- <u>ON INPUT</u>: when changing a manual action on the user controller or room sensor, the LED will flash.



EAV (valves or 2-zone valve)

This submenu displays any multi-zone valves.

- AUTO MIN: Minimum ventilation position in automatic mode (default = 10%).
- AUTO MAX: Maximum ventilation position in automatic mode (default = 100%).

With the DucoBox Energy Comfort (Plus):

MULTIZONE VALVE LIST	2 - EAV	2 - EAV
2 - EAV 3 - EAV 4 - EAV BACK	AUTO MIN AUTO MAX BACK	AUTO MIN

With the DucoBox Energy Premium:

2-ZONE VALVE	67 - ZONE 1
67 - ZONE 1	AUTO MIN
68 - ZONE 2	AUTO MAX
BACK	BACK

UCRH/UCCO₂ (Controls (humidity/CO₂)

For the various user controllers in the network, the various possible configuration parameters are shown here, preceded by their node number, e.g. Node 4, Node 5 ...



Remote controls have the following settings:

- MANUAL 1: Ventilation flow rate for manual mode with 1 wave (standard = 10% for extraction and 0% for window ventilator)
- MANUAL 2: Ventilation flow rate for manual mode with 2 waves (standard = 50%)
- MANUAL 3: Ventilation flow rate for manual mode with 3 waves (standard = 100%)
- MANUAL TIME: Time before a sensor/ remote control returns to automatic setting (default = 15 min. for extraction and 8 hours for supply)
- **RH SETPOINT**: Setpoint for the relative humidity sensor, if present (default = 60% max = 90%)
- **RH DELTA**: Possibility to activate delta control (on/off default = off). This delta control increases the ventilation if there is a certain increase in the moisture content over a period of time (e.g. 10% in 5 seconds). Because this may cause the ventilation system to overreact, it is off by default.
- **CO**, **SETPOINT**: Setpoint for the CO, sensor, if present, in the user controller (default = 800 ppm max. 2000 ppm)
- CO₂ TEMP. DEP. CONTROL: Temperature-dependent ventilation (ON/OFF) (default = ON). This function limits nuisance from cold air for people present in the building by making the system react less quickly to high CO₂ values in the current zone. This is done by dynamically compensating the CO₂ setpoint.
- SENSOR VISU LEVEL: Sensor visualisation level When the ventilation system detects a CO₂ or humidity level that is too high (based on the set CO₂ or RH setpoint), the system will start ventilating at a certain percentage. By setting a percentage in Sensor Visualisation Level, the AUTO button LED will light up blue (for Humidity Room sensor) or purple (for CO₂ Room sensor) when the ventilation level is ventilating at or above this percentage. This is useful to detect why the ventilation system is revving up high in a particular zone. For example: when Sensor Visualisation Level is set to 50%, the AUTO button LED on the CO₂ Room sensor will light up purple when the ventilation system starts running at 50% or more due to a CO₂ concentration that is too high.
- UC ERROR MODE: Indication selection of error (red) or warning (orange) within the DUCO network:
- <u>Disabled</u>: the user controller or room sensor does not show an LED indication.
- Auto: the LED indication of the user controller or room sensor continues to show the error or warning.
- <u>On Input</u>: when changing a manual action on the user controller or room sensor, the LED will flash.



BOX SENSOR LIST

In this submenu, the setpoint for any CO_2 sensor or relative humidity sensor (box sensor) can be determined. Default RH = 60%; max = 90%.

BOX SENSOR LIST	58 - UCRH	58 - UCRH
58 - UCRH BACK	RH SETPOINT RH DELTA BACK	RH SETPOINT

SWITCH LIST (Dry contacts)

De-energised contacts are inputs that detect when a connected on/off component, e.g. a relay, switches . An action can be linked to this circuit via the display menu . The menu displays the various configuration parameters for the different de-energised contacts in the network . Eg: Node 4, Node 5,... A dry contact on the controller printed circuit board can also be set. If a dry contact does not appear in the menu, it must be closed once to be registered on the controller.

SWITCH LIST	134 - SWITCH	135 - SWITCH
134 — SWITCH 135 — SWITCH BACK	SWITCH MODE SWITCH VALUE BACK	SWITCH MODE SWITCH VALUE SWITCH ZONE BACK

Dry contacts have the following settings:

SWITCH MODE: Indicates what the dry contact is used for (default = PRESENCE)

- <u>PRESENCE</u>: (e.g. toilet detection): indicates which ventilation position should be used to extract air in the toilet (default SWITCH VALUE = 100%)
- <u>HEATPUMP</u>: (heat pump): indicates to which ventilation level the flow rate must be increased depending on the connected heat pump (default SWITCH VALUE = 150 m³/h)
- <u>OVERRULE</u>: (e.g. alarm): indicates the ventilation level at which the system is being overruled (0-250% / 'MAX'). If set to 'MAX', the fan revs up to maximum and the valve opens fully (default SWITCH VALUE = 100%)

Examples:



• DucoBox Energy Premium – Zone

135 - SWITCH	135 - SWITCH	135 - SWITCH
SWITCH ZONE	SWITCH ZONE	SWITCH ZONE
BOTH ZONES	ZONE 1	

• DucoBox Energy Comfort (Plus) – Zone



04.K SETTINGS > FROST PROTECTION

Default: ON (cannot be switched off)

There is a possibility at low outdoor temperatures that the moisture in the exhaust air will condense in the heat exchanger. The DucoBox Energy is equipped with a mechanism to prevent freezing of this condensate.

The unit will adjust air flow rates in such a way that freezing will be prevented (= temporary imbalance method).

The frost symbol (*) will be shown on the display whenever frost protection is in operation.

- STATUS: informative: current status of frost protection
- <u>STANDBY</u>: frost protection not in operation
- <u>ACTIVE</u>: frost protection in operation

HEATER: only with a DucoBox Energy Premium with Heater

- AUTO: use heater to heat air
- <u>OFF</u>: do not use heater

PASSIVE HOUSE: only with DucoBox Energy Premium 325

- ON: deactivate imbalance method as frost protection
- OFF: normal frost protection operation (including allow imbalance method)

EXTERNAL HEATER: adjustable parameter only with DucoBox Energy Comfort (Plus)

- <u>PRESENT</u>: Pre-Heater connected to DucoBox
- <u>ABSENT</u>: Pre-Heater not connected to DucoBox

FROST PROTECTION	FROST PROTECTION	FROST PROTECTION	FROST PROTECTION
STATUS STAND-BY	HEATER	PASSIVE HOUSE	HEATER EXT CONFIG
BACK AUTO		ON	PRESENT

DucoBox Energy Comfort without heater:

FROST PROTECTION	FROST PROTECTION		
STATUS STAND-BY	STATUS ACTIVE		
HEATER EXT ABSENT	HEATER AUTO		
BACK	HEATER EXT PRESENT		
	BACK		

DucoBox	Energy	Premium	n without	heater:



04.L	SETTINGS	>	NIGHTBOOST	

Default = Off

With DUCO's NightBoost function, the ventilation system is deployed during summer to support the cooling of warm indoor temperatures. The NightBoost function works zonally . This function is mainly aimed at homes and uses small flow rates (= basic ventilation).

Caution: for the Nightboost function to work correctly, the time must be set correctly.

- MODE: ON or OFF
- **START MONTH & STOP MONTH**: Start and end month of the period in which the Nightboost function may be active (default = May to September)
- START TIME & STOP TIME: Start and end time when the Nightboost function can be active (default = 1:00 to 6:00)

NIGHTBOOST	NIGHTBOOST	NIGHTBOOST
MODE	START MONTH	START TIME
ON	Jan	<u>20</u> :00

04.M SETTINGS

> BUILDING TYPE

Only visible in "ADVANCED MODE" and if the country is set to "the Netherlands"!

SET BUILDING TYPE: Choice of parameter HOUSE (ground-based) or FLAT (non-ground-based).



NIGHTBOOST

TEMPERATURE

STOP MONTH

START TIME

ON

FILTER

BACK

FILTER STATUS

FILTER LIFE CONFIG

05 Submenu FILTER

If the filters of the DucoBox Energy need to be replaced, the system itself indicates this by means of an alert on the display: "**REPLACE FILTER**". The display stays lit up until the user takes action. This alert appears once. On the display, the warning symbol does remain on the display, even if the warning itself was deleted. The filter indicator shows 0%.

The estimated remaining service life of the filters is indicated in two ways:

- 1. At the top right of the display is the filter indication (100% = new filter, 0% = filter replaced)
- 2. The estimated remaining life of the filter (expressed in days) can be read in the menu **FILTER STATUS**.



06 Submenu ADVANCED

Gaining access to menus only intended for installers requires the advanced mode to be activated. When the advanced mode is active, additional items will appear on the menu, which enable the unit to be put into operation.

06.A	ADVANCED	>	CLOSE ADVANCED

Activate/deactivate advanced mode to make functions with a lock (**i**) visible/invisible: enter installer code **9876** and press Enter. Now additional items are available in the menu. The padlock () on the display menu indicates that the advanced mode is active.

ADVANCED	MENU
Enter code:	SETTINGS
0070	FILTER
9876	ADVANCED 8
_	BACK

After 30 minutes of inactivity or after restarting the DucoBox Energy, the menu will leave the advanced mode. The advanced mode can also be closed down manually using the **CLOSE ADVANCED** menu command.

07 Submenu INSTALLATION

07.A **INSTALLATION**

> WIZARD

Follow this wizard to pair components to the system . (See also the installation manual of the relevant DucoBox Energy)

DucoBox Energy Comfort (Plus) + DucoBox Energy Premium + DucoBox Sky without zones

WIZARD Number of components linked to DUCOBOX :5 Components can be added. Press 🗆 to continue.

DucoBox Energy Comfort (Plus) with multi-zone valves

WIZARD	WIZARD	WIZARD	WIZARD	WIZARD
Create multizone SUPPLY	Add external air valve for	Number of components	Number of components	Number of components
network with external air	SUPPLY ZONE 1	linked to ALL ZONES : 3	linked to ZONE 1 : 2	linked to ZONE 2 :
valves?	Zones: 0 (min 2 / max 4)	Components can be added.	Components can be added.	Components can be added.
YES / NO		Press □ to continue.	Press 🗆 to continue.	Press 🗆 to continue.

DucoBox Energy Premium with 2 zones

WIZARD	WIZARD	WIZARD
Number of components	Number of components	Number of components
linked to BOTH ZONES: 4	linked to ZONE 1 : 2	linked to ZONE 2 : 1
Components can be added.	Components can be added.	Components can be added.
Press 🗆 to continue.	Press 🗆 to continue.	Press 🗆 to continue.

WIZARD > ERROR

Too few or too many multizones were paired to the DucoBox. Follow the relevant installation manual.

WIZARD	WIZARD
ERROR	ERROR
Illegal configuration	Illegal configuration
Too few external valves	Too many external valves

07.B	INSTALLATION > RESET NETWORK	
This remove work.	s all registered control components (user controllers and/or room sensors) from the net-	RESET NETWORK YES / NO
07.C	INSTALLATION > FACTORY RESET	
Resets the e	ntire system (= DucoBox Energy + paired components) to factory settings. The calibration	FACTORY RESET

YES / NO

08 Submenu CALIBRATION

With DucoBox Energy Premium and DucoBox Energy Comfort FR:

VERIFY HIGH LEVEL appears if the WIZARD has been completed correctly.

CALIBRATION	CALIBRATION
Wizard Back	WIZARD VERIFY HIGH LEVEL BACK

With DucoBox Energy Comfort (Plus):

VERIFY HIGH LEVEL appears if the WIZARD or CALIB BY CODE has been completed correctly.

CALIBRATION	CALIBRATION
WIZARD	WIZARD
CALIB BY CODE	VERIFY HIGH LEVEL
BACK	CALIB BY CODE
	BACK

08.A CALIB	RATION	>	▶ WIZARD
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The order and whether or not the messages appear in the display depends on the type of DucoBox Energy. Follow the wizard to set the flow rates correctly according to the installation manual provided.

WIZARD DucoBox Energy without zones:

WIZARD	1/3	WIZARD	2/3	WIZARD	3/3	WIZARD
Extract flow :		Adjust all <u>supply</u>	valves.	Adjust all <u>extra</u>	<u>ict</u> valves.	
325 m³/h		Press≜or♥to pressure: 92F	change the a (72%)	Press ▲ or ♥ to pressure: 135	change the Pa (85%)	Calibration complete
Press 🗆 to continue.		Wait until stable.		Press 🗆 to cont	tinue.	

WIZARD DucoBox Energy Comfort FR



WIZARD DucoBox Energy Premium 2 zones (except if country selection = NL)

WIZARD 1/4	WIZARD 2/4	WIZARD 3/4	WIZARD 4/4	WIZARD
Supply flow for ZONE 1:	Supply flow for ZONE 2:	Adjust all supply valves.	Adjust all <u>extract</u> valves.	
150 m³/h	75 m∛h	Press ▲ or ♥ to change the pressure: 92Pa (72%)	Press ▲ or ♥ to change the pressure: 135Pa (85%)	Calibration complete
Press 🗆 to continue.	Press 🗆 to continue.	Press 🗆 to continue.	Wait until stable	

WIZARD DucoBox Energy Premium 2 zones (if country selection = NL)

WIZARD 1/6 Supply flow for ZONE 1:	WIZARD 2/6 Supply flow for ZONE 2:	WIZARD Extract flow :	3/6	WIZARD 4/6 Adjust ZONE 1 supply valves	WIZARD 5/6 Adjust ZONE 2 supply valves
150 m¥h	75 m³/h	325 m³/h		Press A or V to change the pressure: 120Pa (63%)	Press ▲ or ♥ to change the pressure: 65Pa (38%)
Press 🗆 to continue.	Press 🗆 to continue.	Press 🗆 to continue.		Wait until stable	Press 🗆 to continue.
WIZARD 6/6 Adjust all <u>extract</u> valves.	WIZARD				
Press ▲ or ♥ to change the pressure: 135Pa (85%)	Calibration complete				
Press 🗆 to continue.					

WIZARD DucoBox Energy with multi-zone (except if country selection = NL)

WIZARD 1/6	WIZARD 2/6	WIZARD 3/6	WIZARD 4/6	WIZARD 5/6
Supply flow for ZONE 1:	Supply flow for ZONE 2:	Adjust all <u>extract</u> valves.	Adjust <u>ZONE 1 supply</u> valves	Adjust <u>ZONE 2 supply</u> valves
150 m³/h	75 տ∛հ	Press ▲ or ♥ to change the pressure: 135Pa (85%)	Press ▲ or ♥ to change the pressure: 120Pa (63%)	Press▲or▼to change the pressure: 65Pa (38%)
Press 🗆 to continue.	Press 🗆 to continue.	Wait until stable	Wait until stable	Press 🗆 to continue.
WIZARD 6/6 Calibration active	WIZARD 6/6 Calibration active	WIZARD		
Measuring all zones open	Calculations ongoing	Calibration complete		
Wait until stable	Wait until converged			

WIZARD DucoBox Energy with multi-zone (except if country selection = NL)

WIZARD 1/7 Supply flow for ZONE 1:	WIZARD 2/7 Supply flow for ZONE 2:	WIZARD 3/7 Extract flow :	WIZARD 4/7 Adjust all extract valves.	WIZARD 5/2 Adjust ZONE 1 supply valves
150 m∛h	75 m∛h	325 m³/h	Press ▲ or ♥ to change the pressure: 135Pa (85%)	Press ▲ or ♥ to change the pressure: 120Pa (63%)
Press 🗆 to continue.	Press 🛛 to continue.	Press 🗆 to continue.	Press 🗆 to continue.	Wait until stable
WIZARD 6/7 Adjust <u>ZONE 2 supply</u> valves	WIZARD 7/7 Calibration active	WIZARD 7/7 Calibration active	WIZARD	
pressure: 65Pa (38%)	neasuring all zones open	calculations ongoing	Calibration complete	
Press 🗆 to continue.	Wait until stable	Wait until converged		

WIZARD > CALIBRATION ABORT

The Wizard cannot start due to action not performed correctly in **INSTALLATION > WIZARD**. Go to **INSTALLATION** and Reset Network. Read the installation manual to pair correctly.

WIZARD

calibration abort

		1			
08 B	CALIBRATION	>	CALIB	BY	CODE
00.0		-			

To copy the calibration from an existing system to another unit, a code can be requested or read in.

WIZARD

Calibration complete

GET CODE: Note the code on the display. There is a code per installed zone. If the code equals 0, the DucoBox has not yet been calibrated.

GET CODE	
Calibration code:	
0	

Calibrated DucoBox without zones:

GET CODE Calibration code: 325092135

Calibrated DucoBox with zones:

GET CODES	1/3	GET CODES	2/3	GET CODES	3/3
Calibration code 1:		Calibration code 2 :		Calibration code 3 :	
2325135		2150120		1075065	
Press 🗆 for next code	e	Press 🛛 for next co	de	Press 🗆 to finish	

ENTER CODE: Enter the code on the display. The number of codes to enter depends on the number of zones installed.

ENTER CODES 1/3	ENTER CODES	2/3	ENTER CODES	3/3
Enter Calibration code 1:	Enter Calibration cod	e2:	Enter Calibration co	de 3 :
000000	2150 <mark>0</mark> 00		107506	

CALIB BY CODE > ERROR

The last code entered is not compatible with the configuration of the DucoBox on which the code was entered. Recalibrate the DucoBox via the Wizard.

CALIB BY CODE	CALIB BY CODE
Calibratino Please wait.	ERROR
	Entered code does not match with current installation

$\bigcup \otimes \bigcup $ CALIBRATION > VERIFY HIGH LEVEL
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This temporarily sets the system to high mode so that the calibrated flow rates can be controlled.

Only active if calibration (according to the wizard) has been performed.

DucoBox without zones

The set flow rate is displayed.

VERIFY HIGH LEVEL Check flow on the valves. Extract flow: 150 m³/h

Press 🗆 to continue.

DucoBox with zones (except if country selection = NL)

The set flow rates of both or all zones are displayed.

VERIFY HIGH LEVEL	OR	VERIFY HIGH LEVEL	VERIFY HIGH LEVEL
Check flow on the valves.		Check flow on the valves.	Check flow on the valves.
Flow ZONE 1: 150 m³/h		ZONE 1/3: 25 m∛h ▲	ZONE 2/3: 100 m³/h ▲
Flow ZONE 2: 25 m³/h		ZONE 2/3: 100 m∛h ▼	ZONE 3/3: 125 m³/h ▼
Press 🗆 to continue.		Press 🗆 to continue.	Press 🗆 to continue.

DucoBox with zones (if country selection = NL)

The set flow rates are shown separately per zone.

VERIFY HIGH LEVEL 1/3	VERIFY HIGH LEVEL 2/3	VERIFY HIGH LEVEL 3/3
Check flow on the valves.	Check flow on the valves.	Check flow on the valves.
Flow ZONE 1: 150 m∛h	Flow ZONE 2: 75 m³/h	Flow DUCOBOX 325 m∛h
Press 🗆 to continue.	Press 🗆 to continue.	Press 🗆 to continue.