INSTALLATION INSTRUCTION FOR DX-ULTRA PG EC

COOKER HOOD

DX-ULTRA-PG EC cooker hood is used as a general extraction valve in the kitchen and its controls control the power of the inlet and outlet fans.
In a dwelling-specific ventilation system, the resident itself adjusts the air change as needed.

According to regulations, ventilation must be constant operation. Soiled and moist air is removed and replaced with clean, healthy outdoor air, thus avoiding moisture damage.

Ventilation must be able to be adjusted appropriately and suitable operating positions can be found according to experience. When you come from outside to inside you have the feel that indoor air is clean and fresh.

Intake air supply must always be ensured.

The hood PG EC is equipped with;

- rubber sealed channel connection d 125 mm
- direct current fan control 0-10 Vdc
- working light LED fluorescent lamp G23 4W
- metallic grease filter
- 60 min timer in the closing damper

DX-ULTRA PC EC FRONT PANEL BUTTONS

WORKING LIGHT SWITCH

CLOSING DAMBER SWITCH
- timer 60 min
- signal light when closing damper is open

FAN SPEED CONTROL
- more efficient

ooo signal lights for fan speeds

FAN SPEED CONTROL
- lower

SIGNAL LIGHTS FOR FAN SPEEDS

no light THE FANS ARE STANDING
- not in use if the minimum speed function is programmed

o (1) OUT OF HOUSE USE
- avoiding moisture damage

oo (2) NORMAL OPERATING POSITIONS
ooo (3) - continuous air condition operation ; at least 0,5 times per hour

oooo (4) BOOSTED USE
- during efficiency positions ; e.g. for saunas, cooking, peoples

USE OF THE COOKER HOODS CLOSING DAMPER

- When the damper switch in pressed, the closing damper opens, the indicator lights up and the timer keeps the damper open 60 min.
- The damper can also be closed by pressing the switch again
- When the damper is open, the fan speed may also be changed more efficiently, the fan speed will return to the basic change when the damper closes and the enhanced ventilation remains in memory for the next use.

There is a function in the cooker hood that checks the damper activity once a day by opening the closing damper.

MINIMUM SPEED FUNCTION

(Force switching)

According to regulations, ventiltaion must be constant operation.
If the ventilation of the whole apartment is controlled form the hood, the cooker hood must be continuous.
The cooker hood is programmed for continuous operation so that fans can not be switcher off from the hood.

If the cooker hood is only used as a kitchen extractor, the minimum speed function can be removed if necessary.

The programming can be done on the cooker hood controls
1. Closing damper closed
2. Selected for fan speed 2 (two LEDs are on)
3. The selection is acknowledged by pressing and holding the switch of closing damper on the bottom 15 s., after which the closing dampers LED flashes briedly and ja thereafter the programming has been completed.

MEASUREMENT OF AIR VOLUME

The basic ventilation (closing damper closed) is adjusted by measuring the closing damper underpressure from air flow measuring nipple and covering the required number of adjusting holes.

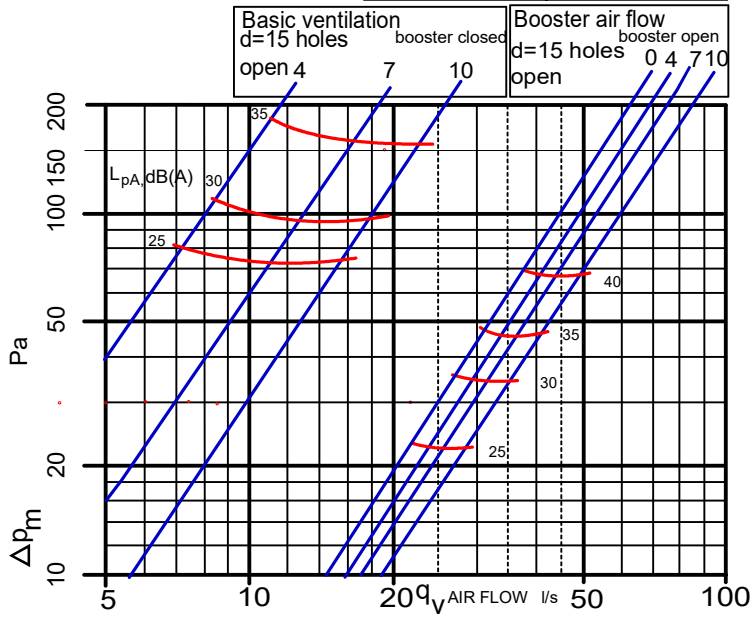
If the cooker hood controlls the ventilator which has a separately own channel for kitchen removal (past heat recovery) must all holes be covered and in the kitchen is needed separate exhaust valve which is connected to the exhaust air duct.

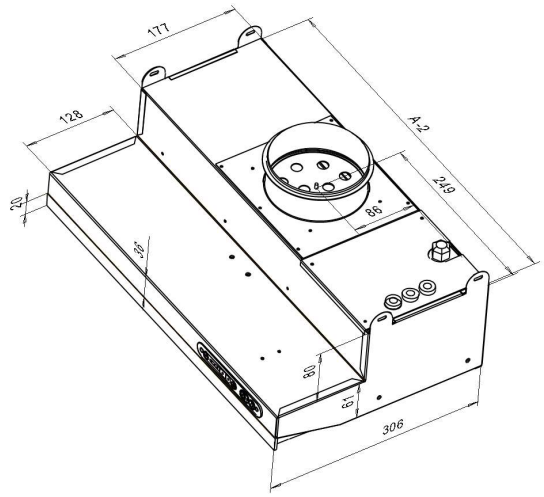
Booster air flow (closing damper open) air flow is seen accordingly on the open holes - on the graph.

$q_V = k \times \sqrt{\Delta p_m}$

Basic ventilation	
holes open	k-factor
4	0,8
5	1,0
6	1,2
7	1,3
8	1,5
9	1,6
10	1,8

Booster air flow	
holes open	k-factor
0	4,6
2	4,8
4	5,0
5	5,2
6	5,3
7	5,4
8	5,6
9	5,8
10	6,0





Attach the hood (A= 500 or 600 mm) to the furniture with installation accessories. The installation height between the cooker hood and hob level should be at least 490 mm.

Make sure that the mount does not twist the hood, as this may cause a malfunction.

Connect the ductwork with a steel threaded duct to secure and seal the connections.

Check the exhaust air flow with measurements and adjust if necessary, see exhaust air flow diagram on front page.

The right adjustment values also enable a good sound result.

ELECTRICAL CONNECTIONS

Electrical work can be done by an installer with rights.
Cooker hood is only suitable for 0-10 Vdc fans control.

The supply of electricity to the ventilation device must be supplied from its own fuse (10 A) of the electric center.
In case of potential damage, the warranty will be void if the unit is used in common sockets or "light group".
The cooker hood has a plug.
The wiring between the cooker hood and the machine is done according to the regulations following the switching instruction.

COOKER HOOD CONTROL, CHANGING THE VOLTAGE

There is 4 speeds in the cooker hood. When adjusting the ventilation system, any speed can be changed, if necessary.

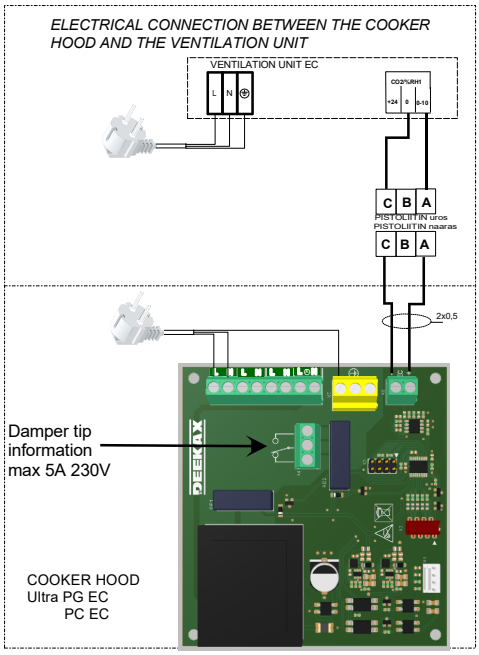
Factory settings: 1. 4 Vdc I 2. 6 Vdc I 3. 8 Vdc I 4. 10 Vdc

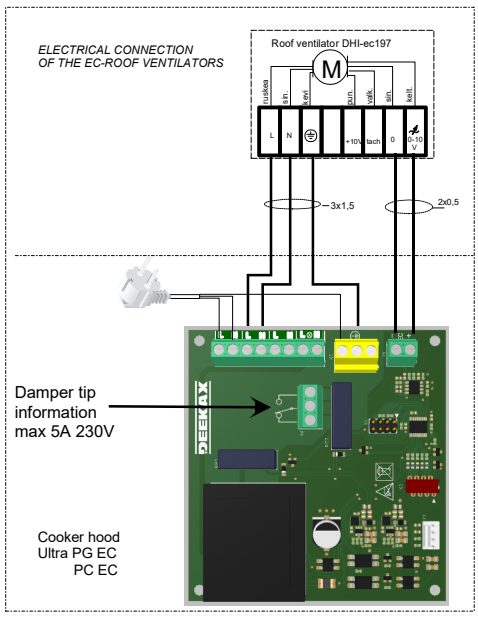
Adjustment:

- *closing damper is closed*
- Select fan speed 4 (light on four LEDs)
- Hold the closing damber swithch down15 s., after which the 1st speed LED blinks calmly
- The +/- buttons adjust the voltage in 0,2V steps
- The damper button moves to the next speed.
- RECORDING: Press the light switch on the bottom for 5 seconds, the damper LED blinks for 5 seconds to indicate recording.
- NO RECORDING: press the closing damber to the bottom for 5 seconds

Note!

The speed voltages have a difference of 1 volt.
If, for example, the 2nd speed voltage is increased to 7.2 volts then the 3rd speed voltage can be adjusted to a minimun of 8.2 volts.





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