

## INSTALLATION INSTRUCTION FOR DX-ULTRA PG AC

### COOKER HOOD

DX-ULTRA-PG AC 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 AC is equipped with;

- rubber sealed channel connection d 125 mm
- electrical connection with plug connector
- transformer controller (350 W) for ventilation
- working light LED fluorescent lamp G23 4W
- metallic grease filter
- 60 min timer in the closing damper

### DX-ULTRA PG AC FRONT PANEL BUTTONS



WORKING LIGHT SWITCH



CLOSING DAMPER 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, ventilation must be constant operation. If the ventilation of the whole apartment is controlled from the hood, the cooker hood must be continuous.

The cooker hood can be programmed for continuous operation so that fans can not be switched off from the hood.

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 briefly and ja thereafter the programming has been completed.

### MEASUREMENT OF AIR VOLUME

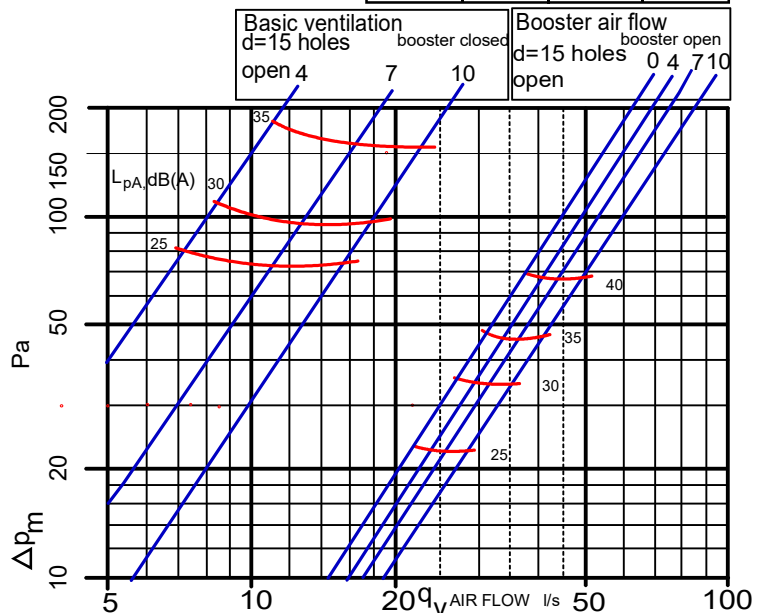
The basic ventilation (closing damper closed) is adjusted by measuring the closing damper underpressure from air flow measuring nipple and covering the required number of adjusting holes.

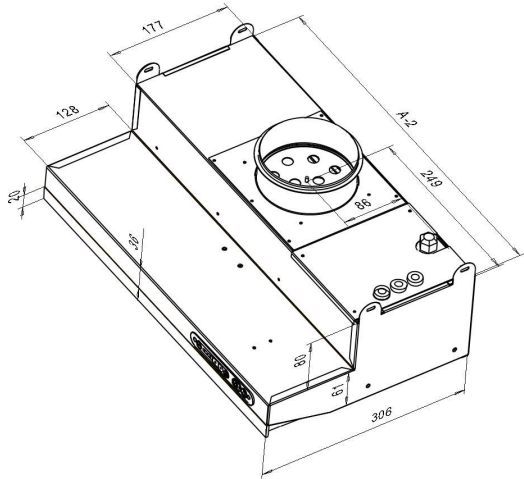
If the cooker hood controls the ventilator which has a separately own channel for kitchen removal (past heat recovery) must all holes be covered and in the kitchen is needed separate exhaust valve which is connected to the exhaust air duct.

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

$$q_v = k \sqrt{\Delta p_m}$$

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

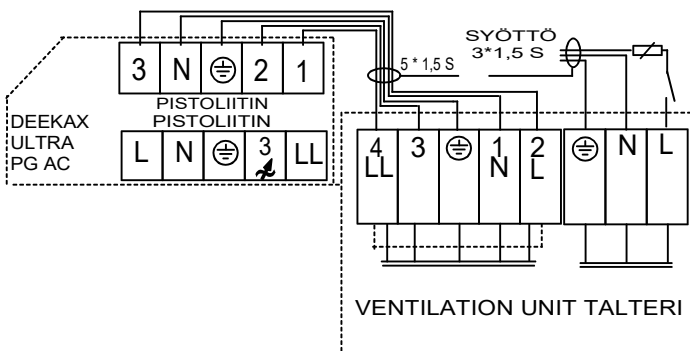
Make sure that the mount does not twist the hood, as this may cause a malfunction.

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 CONNECTION BETWEEN THE COOKER HOOD AND THE VENTILATION UNIT



#### ELECTRICAL CONNECTIONS

Electrical work can be done by an installer with rights.

The supply of electricity to the ventilation device must be supplied from its own fuse 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".

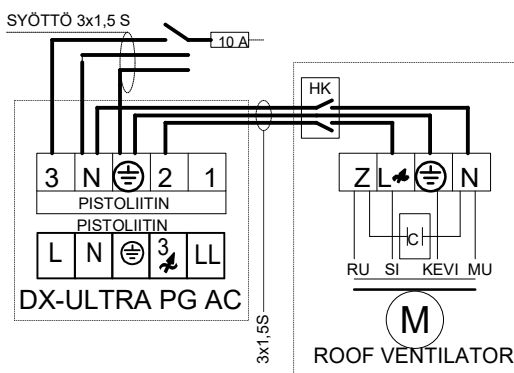
The wiring between the cooker hood and the machine is done according to the regulations following the switching instruction.

The cooker hood has a protective fuse (max 2A) on the circuit board.

In the event of a malfunction, first check the fuse and replace the burnt one.

When using the DTT-200 house fan as an exhaust fan, install it directly on top of the hood. The electrical connections are then made with the plugs already connected. The fans of the fans are attached to the cover of the fan housing with their electrical equipment. The cover can be taken for service as a whole when its two fixing screws are opened.

#### ELECTRICAL CONNECTION BETWEEN THE COOKER HOOD AND ROOF VENTILATOR



#### CHANGING THE VOLTAGE OF COOKER HOOD

The cooker hood has an 8-speed transformer, of which 4 speeds have been introduced. Speed voltages can be changed by moving the wires to different terminals.

The figure shows the factory-installed voltages.

The supply cable (L) has a branch Abiko and it must be in the 230 V connector.

The transformer is located below the cooker hood under the cover plate.

