

THE QUALITY GOALS OF AIR CONDITIONING COME TRUE WITH THE RECOVERY SYSTEM

TALTERI removes used air from interior and brings in fresh air. Humidity and impurities are exhausted through thermal recovery unit that heats the filtered ambient air cost-effectively. The fresh warm air is channelled draught-free and noise-free into the premises in necessary quantities.

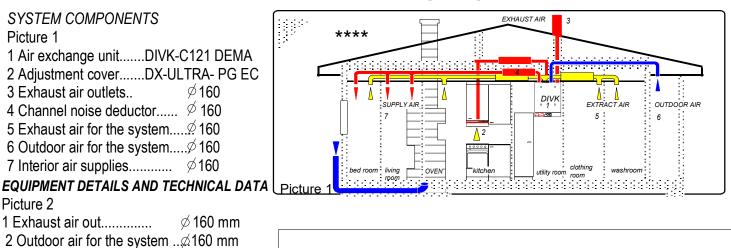
ENSURE THE QUALITY OF AIR EXCHANGE!

DEEKAX Air Oy

Patruunapolku 4 Te 79100 LEPPÄVIRTA ww

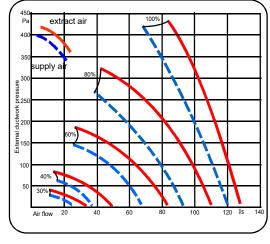
Tel. 0207 912550 www.deekaxair.fi

Talteri heat recovery system

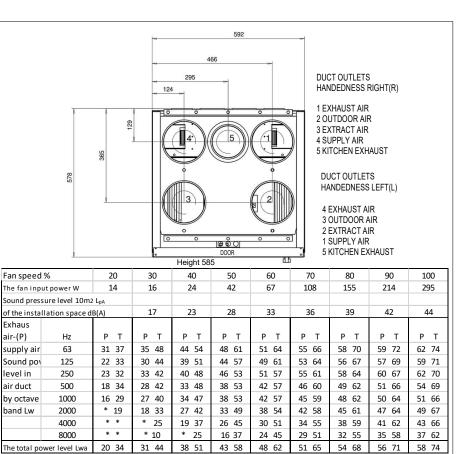


In the picture right handed model(R)	(15)

EQUIPMENT DETAILS AND TECHNICAL DATA Pic
Picture 2
1 Exhaust air out ϕ 160 mm
2 Outdoor air for the system 160 mm
3 Exhaust air for the system
4 Interior air supply
5 Kitchen exhaust
6 Door switch
7 Supply fan, adjustableEC 166 W
8 Extract fan, adjustableEC 166 W
9 Heat exchanger
10 Postheater, adjustable 500 W
11 Preheater, adjustable1000 W
12 Extract air filter (G4) ISO Coarse>75%
13 Supply air filter (F7) ISO ePM1
14 Supply air filter (G4) ISO Coarse>75%
15 Operating panel
16 Preaheater manual overheat protection
17 Afterheater manual overheat protection
18 Summer bypass appliance
19 Exhaust of condensing water
20 Humidity transmitter



Adjusting Kitch voltage	nen exhai	ust air	volu	imes		
voltage	%	40	60	80	100	
Kitchen exhaus air volumes	dm ³ /s	25	35	45	51	



INSTALLING THE CHANNELLING

The channels for exhaust air and incoming air should be installed, if possible, in a warm space below the vapour barrier to suspended ceilings or casing. The vapour barrier remains intact and the channels do not need heat insulation. This also ensures that the airflow in the channels will not freeze due to poor heat insulation as well as there will be no condensing.

Cleansing of channels also becomes easier. The outside air and exhaust air channels are isolated under warm conditions, see the instructions.

The channels are compiled of type-approved, rubber gasket parts and winded joint channel. Disconnections will be removed for sealing and noise reasons. Connections will be secured with closing drawstrings and channels attached securely to the framework with mounting strings so it will persist also cleaning.

Measuring- and regulation equipment of airflow are installed to exhaust channels after noise deductors and inflow channels before the deductors. For cleansing, a cleansing hatch should be installed.

Remember, that a good functioning channel is: measured correctly, hermetic, carefully attached, properly isolated and with hermetic inlets!

CHANNEL ISOLATION

Since the channels are mounted to the upper base, it must be carefully isolated so that:

humidity will not condensate on pipe surfaces, the air will not freeze before heat has been stored, the heated incoming air will not freeze before it is blown into interior.

The two main rules of channel isolation are:

The warm air channels are always isolated in outer conditions with at least 10 cm of mineral wool and windscreen plating. The cold air channels are always isolated in inside premises with 10 cm of mineral wool and steam barrier plating, for instance AE-chase or AIM-mat.

CHANNELS OF OUTSIDE AND EXHAUST AIR

The outside air will be obtained through grate without an insect net. The air inlet will be situated to as clean space as possible, far from the refuse discharge, smokestack, ventilation outlet and exhaust air tube. The air inlet will be located to a height of at least 2 meters from ground on the northern side of the building, opposite side to the traffic. Due to warm summer weather, the outlet channel has to be thermally isolated in a loft space. Outgoing exhaust air will be channelled above the rooftop through well-isolated channel and by 700-900mm high isolated roof duct. (Figure 5).

Fireplaces like hearths, ovens and sauna heating systems must have a separate isolated combustion air channels with slide coping.

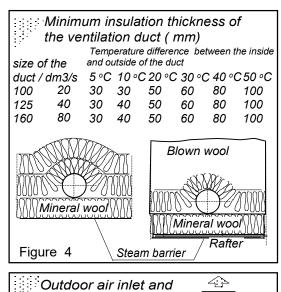
INSTALLATION OF VENTS

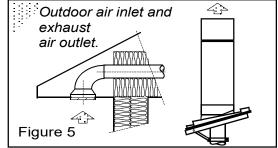
Income and outlet vents are installed according to the plan. Special attention is needed while installing income vents since a wrong vent in a wrong place and wrong mounting will affect the air draught and reduce satisfaction. Steam barriers are well tightened.

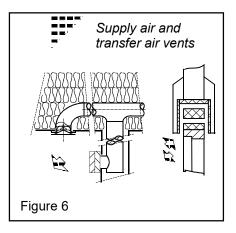
In saunas, the income air is channelled above the sauna stove and outlet will be taken from underneath the sauna platform. The sauna fans are manually adjustable.

In kitchens, the outlet appliance should be the stove hood with adjustment plate of three positions and an airflow gauge. The exhaust vent is operated by the means of the adjuster. The kitchen exhaust will be attached to the air exchange unit.

In case sound isolation is needed between the separate rooms, cushioned air transfer vents are used, figure 6. Air transfer routes in doorways and under the doors will greatly reduce the privacy.







TALTERI DIVK-C121 INSTALLATION

The air exchange unit is meant for warm inner facilities. Suitable installation spots are, among others, office, dressing or household facilities and technical or warm storages. In case the temperature of the installation location is lower than room temperature, the factory settings of the appliance must be changed to obtain faultless functioning. The unit can not be installed into cold outer premises or garages.

UPPER BASE DUCT

The channelling is usually mounted to the upper base thermal insulation. The steam barrier puncture must be carefully sealed. While installing the unit to channels, steel steam barrier plate, supplied as extra, will come handy. The steam barrier plate is attached securely between the roof trusses, 10 mm smaller hole must be cut into the gasket mat and channels are installed through the plate. The steam barrier must be hermetically taped.

The unit can be attached right to the steam barrier plate with four M8 thread bars at desired height. Note the measurements of the steam barrier plate during the installation process.

The bolts and thread bars are purchased separately.

WALL ATTACHMENT

The wall mounting kit includes a ceiling mounting plate, a wall-mounting plate and 15 mm thick insulation pieces. A wall-mounting plate is installed about 25 mm below the roof surface.

The wall attachment plate will be fixed to the wall and then the unit lifted up to the attachment plate, checked into perfectly horizontal position and then drill holes for the metal screw through the mounting plate in to the bottom of the machine. Roof moldings can be put around the machine.

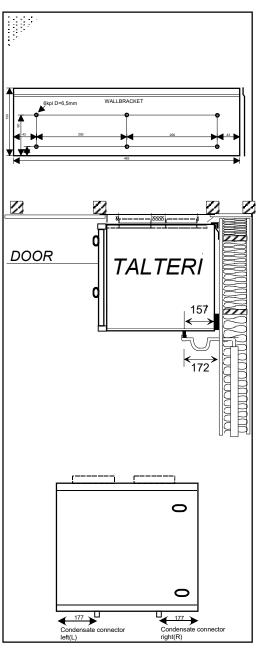
KITCHEN EXTRACT DUCT

The channel output (5) in intended for extract channel of the cooker hood. If the extract channel of the cooker hood is not in use, it must be closed.

If the cooker hood is connected to the kitchen extract duct (heat recovery bypassed),must close all the basic ventilation holes of the cooker hood closing damper and in the kitchen it is needed a separate extract valve which is connected to the extract air duct.

CONDENSATE

The condensate drain pipe is connected to the condensate connection on the machine (3/8 "male thread). The condensate pipe can be made of copper pipe or rigid hose at least 10 mm in internal diameter. To the water pipe is made about a 10 cm long water trap and pipe are connected to the floor drain. The water pipe must not be connected directly to the drain



DIVK-C 121 INSTALLATION TO A SUSPENDED CEILING

THE FRONT EDGE OF THE

MOUNTING PLATE BINDING

BELOW THE ROOF SURFACE

UPPER SURFACE IS

INSTALLED 5 mm

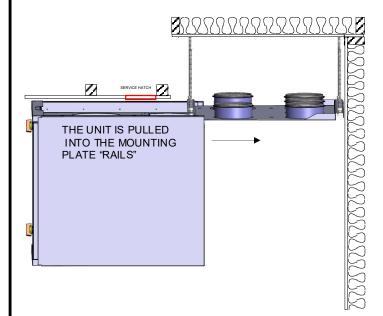
The ceiling-mounting plate is attached

to the roof with M8, thread bars (not included in the LEAVE A 40-50MM GAP delivery).

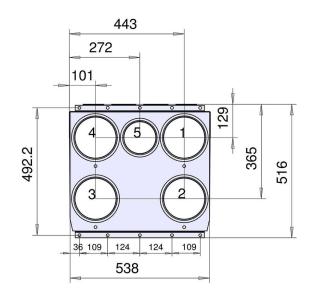


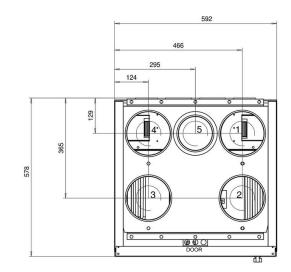
The head of the threaded bar can not reach below the bottom of the plate.

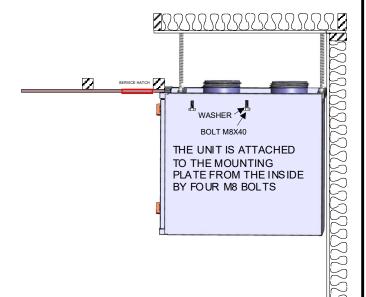
The unit will be pushed to the mounting plate and tightened with four M8 bolts against the mounting plate so that the cover seal of the unit is evenly sealed against the mounting plate, not tighter.



MEASURES OF THE MOUNTING PLATE







M8 THREADED BAR

RUBBER SILENCER

WASHER

BACKUP NUT

NÚT

ELECTRICAL CONNECTIONS

Electrical connections must be done following the installation manual and wiring diagram.

ELECTRICAL CONNECTIONS CAN BE DONE ONLY BY AN ENTREPRENEUR WITH RESPECTIVE INSTALLATION RIGHTS.

The electrical connection box opens from the bottom of the machine (from below) by removing the screws.

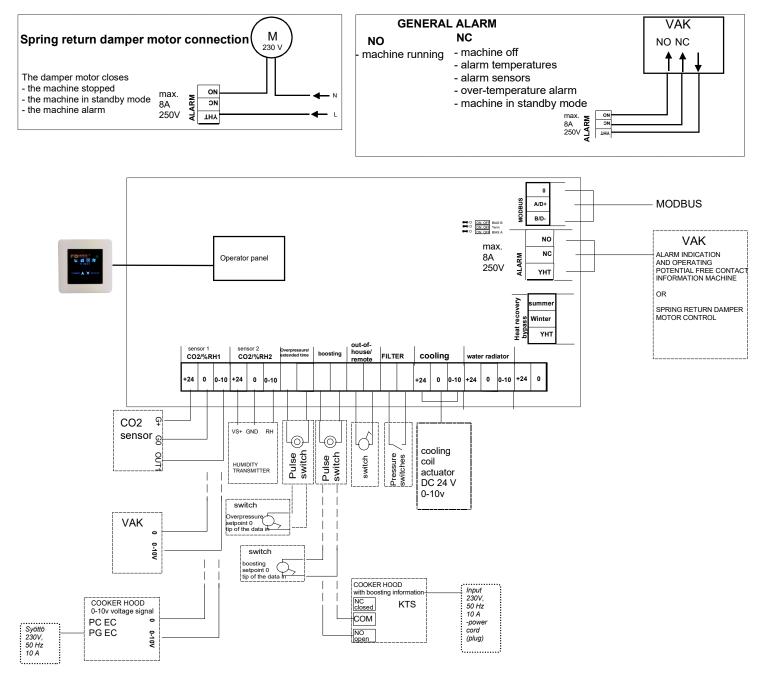
The electrical connection box is displayed by pulling it up to its limit. Supply voltage can be connected by contact plug.

The control panel is connected to the control card with a modular connector.

The following can be connected as accessories:

- Carbon dioxide transmitter;
- Humidity transmitter;
- Separate overpressure or Extended time switch (pulse switch);
- Separate Boost switch (pulse switch);
- or setting off as pre-data (for instance, sauna oven, stove hood);
- Remote control or out-of-home switches (pre-data);
- Differential pressure switches for filters;
- External speed control 0-10V.
- Modbus.

The functions can be operated through maintenance – and setup menus of the operating panel.

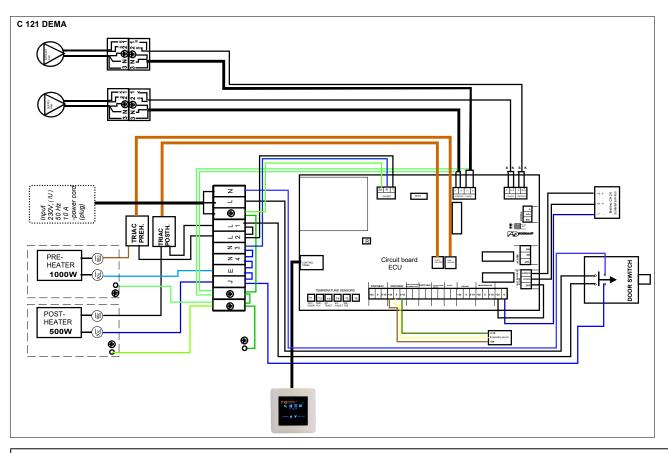


The fan speed of Talteri ventilation unit can be controlled with Ultra PC EC, PG EC, DS-600 EC and DSA-900 EC cooker hood or 0-10 V voltage signal from Control panel. The voltage signal connected to CO2/%RH1 terminal. Sensor 1(EXT) can be operated through maintenance menu of the operating panel.

The boosting of Talteri ventilation unit can controlled with Ultra KTS cooker hood.

There is a control panel and when the closing damper of the cooker hood is open the fan speed is enhanced.

Maintenance menu is used to set boost 0, there can be operated the level of boost too.



INTRODUCTION OF THE AIR EXCHANGE SYSTEM

BEFORE OPERATING YOUR AIR EXCHANGE SYSTEM, MAKE SURE THAT:

- There are no loose objects within the unit or the air impeller;
- The coverings of construction-time are removed from the outlet- and exhaust air holes;
- All isolations and steam barriers are in order;
- The heat transfer and fans are in their places;
- The condensing water outlet is installed and the water is drained out;
- The air impellers and their adjusters are in working order;
- Afterheating is regulated and working.

USAGE DURING INSTALLING

The air exchange unit should be started as soon as installation permits.

Efficient air exchange promotes drying of the constructions and prevents damage.

In case channelling has not been completed, fans and adjustments are missing,filter paper must be used in place of fans to keep the channels clean andprovide sufficient counterpressure for preventing overload. The unit must be used with full power and check the drainage of the condensing water.

The appliance, filters and heat exchangers must be cleaned and the systemadjusted after the construction works are completed.

BASIC ADJUSTMENT OF AIRFLOW

The unit alone can not produce good interior ear in case the channels and fans are installed carelessly and main adjustments are not made.

Regulate the inlet and outlet fans to the planned positions and start the unit

at design power speed. Measure the airflow in outside- and exhaust air channels.

The outlet must be 5-15% higher than inlet. Check the pressure level of thechannels by checking from the fans and adjust it accordingly to obtain the pressure level of 20-30 Pa for fans; adjust and lock the pattern.Draw measuring- and adjustment records!

USAGE AND CORRECT LEVEL OF AIR EXCHANGE

The air exchange level is regulated by changing the working speed of the air impeller from the operating panel. Airflow of different adjustable positions can be seen from table 2.

Adjustable position 1 is for basic air exchange for an empty house. Adjustable position 2 and 3 are normal working positions. Adjustable position 4 and 5 are efficiency positions (i.e. for saunas). The correct usage positions will be found by experience; observing the purity of the air or sultriness when coming in from outside, observing moisture on the windows or drying of the sauna.

AFTERHEATING AND SUMMER BYPASS OF INLET AIR

The unit is equipped with 500 W electrical battery operated by the means of triac-adjuster operated by the operating device for afterheating the heat recovered inlet air.

The temperature of inlet air is usually regulated to +17C. The temperature may be adjusted to higher during winter so there would be no draught like feeling. In case of severe frost and efficiency mode the heating power might turn out insufficient – in such circumstances, the air exchange should be reduced. The overheating protection launched during malfunctioning must be annulled manually.

During summertime, the Ito-exchanger element on the bypass plate will be closed so the exhaust air will not warm up the inlet air.

CONDENSING WATER AND FREEZING PREVENTION

Exhaust air heat exchanger cools the moisture exchanger condenses into water, Which flows the condensation water in the pool and from there through a hose through a water trap open sewer. In freezing temperatures the water to Prevent freezing of the exchanger with double-acting blocking That first frost the preheater is switched on and the temperature rises over the set value switched off. If the preheater resistor power It is not enough, and the exhaust air temperature drops less than a "waste of cold air" limit-value power supply fan stepwise dropped until the threshold is reached.

THE SUMMER BYPASS OF THE UNIT MUST BE IN THE WINTER POSITION WHEN THE AIR FLOWS ARE BEING ADJUSTED

INTEGRATED HUMIDY TRANSMITTER

DIVK-C121 DEMA has an exhaust air humidity trasmitter. The fan speed is automatically enchanced when the humidity exceeds the limit value.

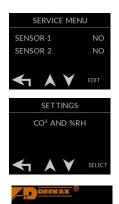
The humidity transmitter is active when SENSOR 2 RH is selected in the service menu

The limit value, the adjustment interval and ON/OFF can be selected in the SETTINGS menu under CO2 and %RH

The humidity transmitter also has an on-off switch

The humidity percentage is displayed on the main menu screen.





RH%

60%

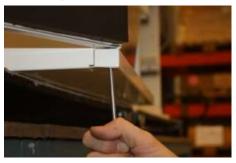
ASETUK

DOOR REVERSAL EXHANGE

Door reversal can be changed by pushing the hinge pin e.g with narrow tip screwdriver from the machine below or from above

.Note;

If the hand of the door is turned so that hinged side is on the supply air filter side note that the door has room to turn 180 degrees.





REMOVING THE FAN

The fans can be removed for cleaning or replacement. Before removing the fan, remove the HR cell and filters. When moving supply fan remove side support (1) and resistor case (2) of the HR cell from the side wall and cover plate (3) in the front of fan.

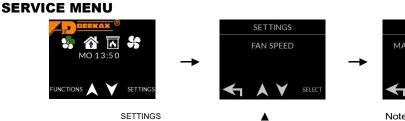
When moving exhaust fan remove cover plate (4) in the front of fan.

Unplug the fan plug connector. The fan is pulled out of the machine.



INTRODUCTION OF THE AHU CONTROL PANEL

Settings are applied via the service menu



0-10V external control (0-10V hood,remote monitoring) select the deployment SENSOR 1 "EXT" or SENSOR 2 "EXT"

External control controls the basic speed , replaces the fan speed set in the menu. Out-of-home, overpressure and boost are in use normally.

The main screen shows the fan speed at REMOTE CONTROL and below of it is the speed of the inlet fan.

Fan speed preselection is performed from the control panel service menu.



Note: swipe right at the top of the screen



External control fan speeds 0-2V fan 0

2-5V	fan 2
5-7V	fan 3
7-9V	fan 4
9-10V	fan 5

EC SPEEDS

 \mathbf{A}

DEFAULT SETTINGS 1. 30 % 2. 40 % 3. 60 % 4. 80 % 5. 100 %



PR.COMP.TIME

PR.COMP.LEVEL

INLET TEMP

SETPOINT

٨

Factory setting 10 min

3

Factory setting 10 min

Factory setti

Factory setting 17 °C

1



 \mathbf{A}

SERVICE MENU CO² 1200 PPM %RH 50% CO² EDIT



SERVICE MENU SAVE FACTORY SETUP

BOOSTING FROM THE COOKER HOOD WITH CONTACT TIP INFORMATION.

Inlet and outlet fans can be individually adjusted for five different speeds with fan speeds of 20-100%

Intensification time settings 0 and 5...120 min. In 0 position with different pre-data Intensification limit settings 1...4 (the air impellers higher than basic speed)

SEPARATE FIREPLACE SWITCH OR PRESSURE COMPENSATION

Overpressure duration specification 0 and 5...20 min. In 0 position with different pre-data Overpressure limit regulation 1...4 (inlet air impeller higher than outlet air impeller)

REGULATION of the INLET AIR TEMPERATURE Inlet air temperature range 5...30 °C, can be adjusted via SETTINGS menu

CO2 AND/or RH SENSORS ACTIVATION

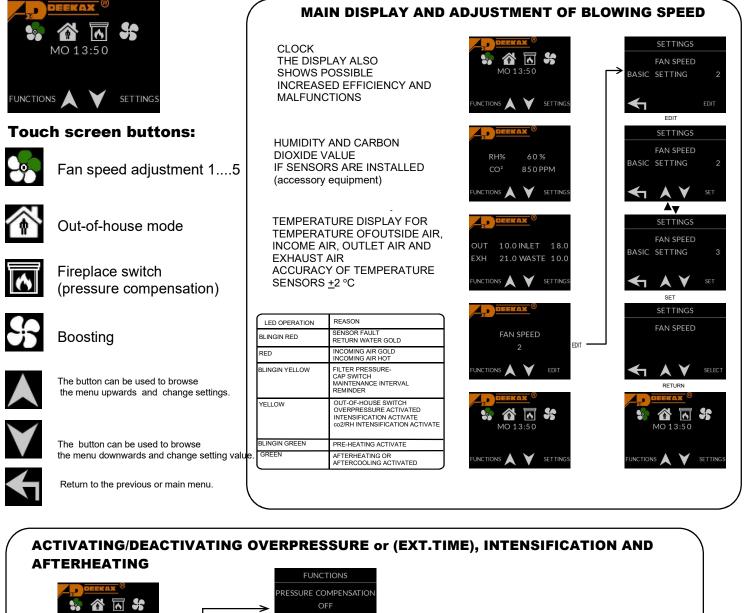
FAN SPEED PRIORITY

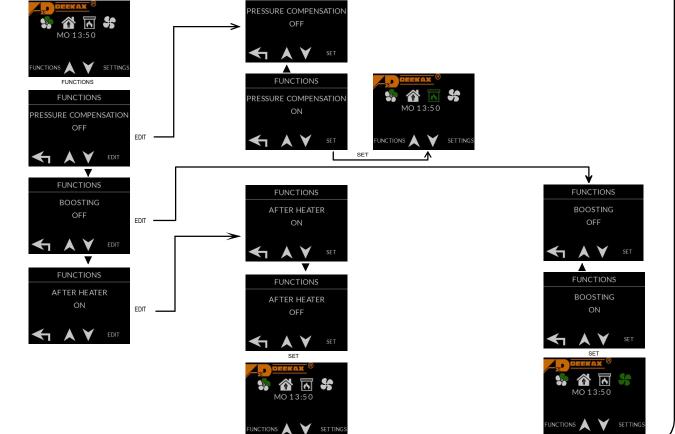
 \mbox{CO}_2 AND HUMIDY PERCENTAGE SETTING Note: set the sensor on in the settings menu

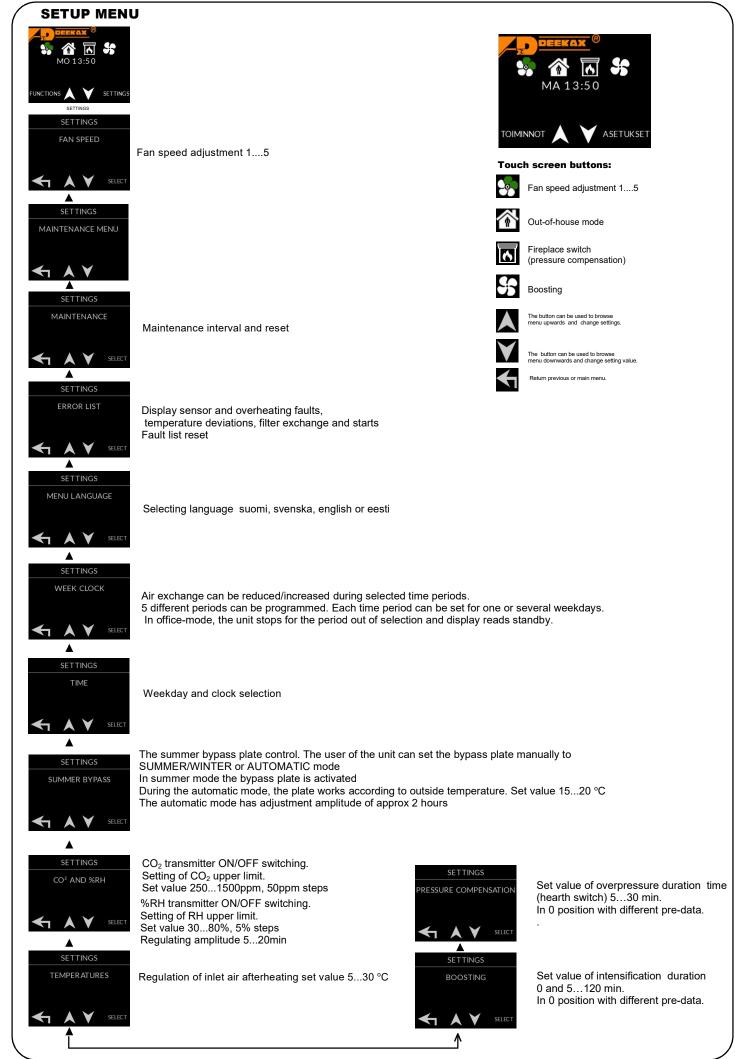
MODBUS MENU Check the separate Modbus manual

THE CHANGES OF THE SERVICE MENU SETTINGS ALWAYS HAVE TO BE SAVED

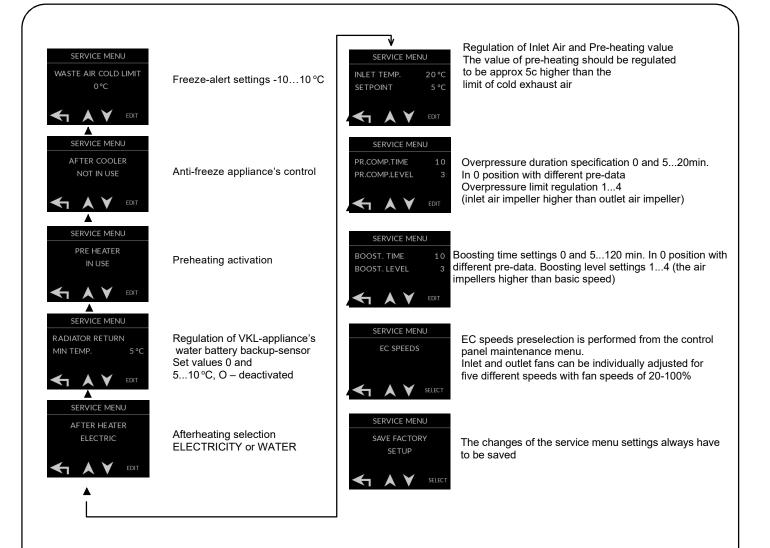
OPERATING PANEL USER INSTRUCTION







MAINTENANCE	MENU	
FUNCTIONS A V SETTINGS		рееках ^Ф Ф М Ф МА 13:50
SETTINGS FAN SPEED		TOIMINNOT A V ASETUKSET
SELECT		Touch screen buttons: Fan speed adjustment 15
SETTINGS MAINTENANCE MENU		Out-of-house mode
		Extended time(office mode)
SWIPE RIGHT AT THE TOP OF THE SCR	REEN	Boosting
OPERATING MODE HOME	HOME overpressure activated OFFICE continuation time activated	The button can be used to browse menu upwards and change settings.
		The button can be used to browse menu downwards and change setting value.
SERVICE MENU		Return previous or main menu.
RECOVER FACTORY SETUP	Return to default settings. Note VLK's units post-heating fuction must be switched on from the service menu	
SAVE FACTORY SETUP	Changes of the SERVICE MENU settings always have	to be saved
SELECT		
SERVICE MENU SW VERSION: 1.10 UI SW VERSION: 1.00		SERVICE MENU INLET AIR COLD LIMIT 5 °C Inlet air cooling temperature -1015 °C
← 1 ▲ ¥		
SERVICE MENU MODBUS ID 1 19200 8E1	Modbus	SERVICE MENU INLET AIR HOT LIMIT 35 °C Inlet air heating temperature 3040 °C
SERVICE MENU REMOTE CONTROL NOT IN USE	Startup with remote control or separate switch; "remote control ON" the unit operates only if pre-data is switched on OR Out-of-house mode	SERVICE MENU SENSOR 1 NO SENSOR 2 NO CO ₂ and/or RH sensors activation The external control 0-10 V activation
	"Remote control off" the unit operates on minimum speed with pre-data switched on	
SERVICE MENU FILTER PRESSURE NOT IN USE	Usable if the differential-pressure switch is present	SERVICE MENU CO² 1200 PPM %RH 50% CO2 and humidity percentage setting
SERVICE MENU MAINTENANCE PERIOD 3 MONTHS	Maintenance interval reminder settings 0-12 months	SERVICE MENU Office-mode continuation time setting EXTENDED TIME 30120 min. Usable with a separate 60 MIN pulse-switch if the weekly clock is used in office-mode.
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BACKLIGHT BRIGHTNESS AND STANDBY SCREEN



Press and hold the FUNCTIONS for about 5 seconds



DISPLAY SETTINGS



Adjustment of backlight



Options : not in use, time and temperatures

OPERATIONAL DESCRIPTION

1. Operating panel

The operation is directed according to settings inserted by the user or installer/manufacturer through the operating panel as well as according to temperature sensors and set periods.

The operating panel returns from processing state to basic state 2 minutes after the last button pressing. The return time from normal position is 2 minutes.

Maintenance menu – for setting suitable parameters for the installation. Maintenance menu is hidden from the end-user. "Restoring factory settings" option is also present in the maintenance menu that can be used for turning all settings to default settings.

The user can use four different selections on the operating panel: weekday and time with the shortcut icons, blowing speeds, temperatures and air quality values in case there are sensors for these functions.

2. Operating card

The controller card controls the operation of the device user's choices and measurement data from the sensors Received by. The controller card is

in addition to two transmitter inputs Which can be connected% RH or CO_2 transmitter. The card has an additional 4 pcs switch data inputs and two

EC - a five-speed fan outputs. The control panel is connected to the controller card, a modular six-pole.

3. Controlling of the air impellers

3.1. Speed controlling in default state

The supply and exhaust air controlled 5 speed. Maintenance menu can be selected fans (20-100%) are suitable for speeds of the subject. The fan speeds are individually user selectable. At speeds in the service menu is the default setting which the machine starts.

3.2. Overpressurization

Overpressurization state selectable from the outer switch or operation panel. Outlet impeller runs at basic speed, inlet impeller is set to value of the maintenance menu. The intensifications have no impact at this point. The duration of overpressurization in minutes is selectable by the user. New push from the switch launches overpressurization from the beginning. Overpressurization can be shut down also from operating panel. Anti-freeze is deactivated when overpressurization is switched on.

3.3. Intensification

Intensification of air exchange can be activated from the operating panel or stove hood. Activation from the panel sets the durability of intensification in minutes (5...120min). Maintenance menu is used to set the quantity and default time. In this case, CO2/%RH intensification has no impact. Intensification is activated also according to external data.

3.4. CO₂- and %RH- intensification

 CO_2 – transmitter or data given by the transmitter is the basis for air exchange intensification in regulating intervals. The CO2 maximum limits are set from the panel by the user (250...1500ppm, 50ppm steps). CO₂ measuring values can be seen on the operating panel. The air exchange is periodically intensificated by data of %RH – transmitter or transmitters. The maximum limits of relative humidity are set from the panel by the user (30...80%, 1% steps). %RH measuring values can be seen on the operating panel. The card has two transmitter inputs that can be chosen separately for CO₂ or %RH activation and deactivation. Regulation interval is a parameter set through the maintenance menu that determines how often the impeller speed can change in intensification. Set value 5...20 minutes by 1 minute. The regulation interval is same for both CO₂- and % RH intensification.

3.5. Out-of-house function

The "out-of-house" function can be selected from the external switch or from the operating panel. The impellers are set on minimum speed. However, previously set intensification or overpressurization will be completed before the impeller speed is reduced or stopped altogether.

3.6. Weekly clock

The program selectable by the user enables to reduce/increase air exchange during selected periods of time. 5 different time periods can be programmed at the same time. Each time period can be set with one or several weekdays.

3.7. Office mode

The installer can select the office mode from the maintenance menu – this is useful in case the air exchange system is installed into an office where activities take place mostly during daytime. The speeds are controlled by the weekly clock. The mode is equipped with continuation switch that enables persons who remain in the office for longer to prolong the functioning of the appliance by set interval. Intensification and out-of-house mode functions are not usable in the office mode. Remote control mode can also be selected from the maintenance menu that enables to switch the unit on and off by the mean of pre-programmed data and weekly clock functions are deactivated.

4. Setting the temperature

Temperature is measured from four different sources: temperature outside, inlet temperature, outlet temperature and exhaust air temperature. The temperatures are displayed on the operating panel. The precision of measurement is +/- 1 degree.

4.1. Afterheating

The thermostat leads the afterheater located in the inlet channel. The heater can be electrical or water heater and is selected by the installer from the maintenance menu. The heater keeps inlet air at the exact temperature selected by the user. The desired temperature can be set from the operating panel. Set values are between 5 - 30 degrees.

4.2. Preheating

Preheater is an electric heater located in the outlet channel. The preheater's thermostat is driven based on the temperature of exhaust air. Preheating is meant for prevent freezing of the recovered heat. The temperature setting of the thermostat can be selected by the installer from the maintenance menu with limitations of 0 - 10 degrees.

4.3. Summer cassette function

The unit is equipped with summer cassette for heat exchange during summertime. The user can select the function manually or let the functioning be determined automatically according to the temperature outside. During the Summer-mode, the bypass plate of the cassette is activated.

The automatic functioning can be set with external temperature between 15-20 degrees.

5. Alarms and reminders

5.1. Activation of overheat protection

Information on activation of overheats protection connected to electrical afterheater and preheater is received from the heater. In case the protection launches, the impellers are automatically set on minimum speed, red indicator light blinks on the operating panel and the display informs about malfunctioning.

5.2. Inlet air too cold

Inlet air minimum temperature must be set from the maintenance menu. When the air temperature is lower than set, the information will be displayed on operating panel and red indication light is turned on. The inlet impeller is stopped and the speed of outlet impeller is reduced to minimum. These actions prevent the water-circulation battery from freezing.

5.3. Income air too hot

Maximum limit of income air temperature must be set from the maintenance menu. When the air temperature exceeds the set limits, respective information will be displayed on operating panel and red indication light is turned on. The inlet impeller is stopped and the speed of outlet impeller decreased to minimum.

5.4. Exhaust air too cold

The exhaust air temperature minimum limits must be set from the maintenance menu (-10 ... 10 degrees). When the air temperature is lower, warning is displayed on the operating panel and red indication light is turned on. The temperature is attempted to keep above the set value by reducing the speed of inlet air impeller (see also preheating) by regulating it one-step at a time. In case the air temperature does not rise over the alarm limit even when the impeller is completely stopped, the red indication light starts to blink and freezing alert is displayed. In case the temperature is restored to normal, normal functioning will be also restored by increasing the impeller speed one-step at a time.

5.5. Danger of water battery freezing

In VKL machines can be set the temperature of the water radiator from the service menu "radiator return min temp" and when the value falls down, a notification is displayed and the red indicator lights up in the control panel. The inlet fan is stopped.

5.6. Alarms for remote monitoring

General alerts may be taken into the remote control from potentially free relay. Alarms are obtained inlet air hot or cold, danger of water battery freezing, overheat protectors and if the machine is stopped.

5.7. Maintenance interval reminder

When the maintenance interval is complete, the respective information is displayed on the operating panel and the indication light blinks green. The user can reset the reminder after the filters have been changed. The maintenance interval counter is reset and the new alert will be transmitted after the period has been completed again. The maintenance interval can be set between 3 - 12 months.

5.8. Filter-dirty notice

Differential pressure switch can be installed to the equipment that measures dirtiness of the inlet air filter by monitoring its differential pressure. When the switch runs, the display transmits the necessity of filter-change and the indication light blinks yellow. Differential pressure switch is taken into use through the maintenance menu and it deactivates maintenance interval reminder



DEEKAX *pure joy from indoor air !*

For producing good indoor climate continuously, the air exchange systems require regular maintenance. The metallic grease filter of stove hood must always be kept clean for fire safety reasons. Cleansing with hot water dishwasher once a month is necessary. Substances suitable for machine washing may darken the aluminium parts of the filter.

The inlet and outlet filters of Talteri must be cleansed at least twice a year.

In summertime the summer cassette plate will be set to summer mode when the external air should come in fresh and clean.

The heat recovery cell will be pulled out of the unit and washed thoroughly in autumn just before the heating season begins –the heat recovery will then be at its best. Check the condition of sealing and push the heat recovery cell back to its place.

The inner painted walls of the unit are easy to clean. Check the condition of sealing, clean the outlet hose of condensing water and make sure the water flows freely and without any obstructions.

The impellers, air exchange adjusters and thermostats are components that do not require regular maintenance. Electrical works can be carried out only by a qualified electrician.

During the frosty period the heat recovery cell is defrozen by using the preheater. The power of the preheater is mainly adequate to keep the heat recovery cell defrozen. In extreme conditions, if the power of the preheater is not sufficient, the supply fan power will be reduced or stopped by the freezing protection thermostat when the exhaust air temperature drops below the set value (0°C). The supply fan starts when the exhaust air temperature rises above the set value.

Under extreme conditions (humidity /harsh cold) the Ito-element may freeze over and the anti-freeze protection series are not able to defrost it. If such a case occurs, the machine has to be stopped, opened and the cold flow stopped and the ice given the necessary time to melt. Check the drainage of condensing water! In case the water-lock dries out and makes pulping noise, you can pour a drop or two of cooking oil.

In really cold weather, the head recovery unit heats the preheated inlet air with afterheating. The functionality can be proved by comparing the temperature of inlet air to the set value of the inlet air afterheating.

The overheat protection has been activated in case the temperature has risen +90°C (for instance, in case of power failure). Reset the overheat temperature by pressing the switch under the threaded contact protection.

The channels must be checked if the impeller works but the air exchange is inadequate or the temperature changes in the channels between the interior and the machine. Temperature changes and humidity concentration in channels must be prevented by improving the isolation.

DEEKAX Air Oy