



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

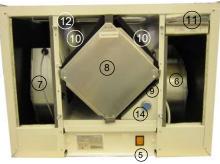
Patruunapolku 4 Pu 79100 LEPPÄVIRTA wv

Puh. 0207 912550 www.deekaxair.fi

MACHINE PARTS AND TECHNICAL INFORMATION

1 Exhaust air.....ø 125mm 2 Outdoor air.....ø 125mm 3 Extract air.....(2x)ø 125mm 4 Supply air(2x)ø 125 mm 5 Main switch 6 Supply fan EC 118 W 7 Extract fan EC 118 W 8 Heat exhanger 1000 W 9 Postheater 10 Extract/supply air filter (G4) ISO Coarse>75% 11 Supply air filter (F7) ISO ePM1 12 Summer bypass 13 Touchscreen control panel 14 Manual overheat protection Measurements of the machine:





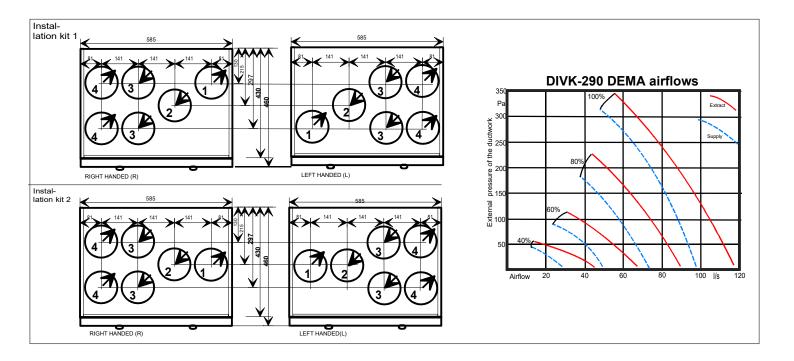
height435 mm width......585 mm

depth.....460 mm weight......38 kg

LEFT HANDED MODEL (L)



Fan speed %		2)	30		40		50		60		70		80		90		100	
Fan input power w		14	4	16		23		32		47		67		96		135		186	
Sound pressure leve	el [∟] pA																		
of the installation space dB(A)		18	3	23		30		32		36		38		43		45		48	
Extract air (E) and supply air (S)	Hz	Ρ	Т	Ρ	Т	Ρ	Т	Ρ	Т	Ρ	Т	Ρ	Т	Ρ	Т	Ρ	Т	Ρ	Т
Soundpower level in the air ducts by octave bands L _w	63	36	29	39	34	43	42	49	46	54	50	58	54	60	56	64	60	65	62
	125	32	25	37	33	42	40	49	45	53	50	58	53	60	56	64	59	65	60
	250	26	28	34	31	42	36	47	41	52	46	56	50	60	55	63	58	65	61
bands L _w	500	22	32	30	32	37	38	41	43	47	47	50	52	55	56	57	60	60	63
	1000	0	12	15	23	22	32	27	38	31	43	34	47	37	50		53	41	56
	2000	0	0	0	20	23	30	28	36	33	42	37	48	41	51		54	46	57
	4000	0	0	0	0	0	19	17	26		32			29	42	32	46	35	49
	8000	0	0	0	0	0	0	0	14	0	21	15	27	18	33	21	37	24	41
Total sound power level L _{WA}		22	27	28	30	36	37	40	43	44	48	46	53	52	56	56	60	58	63



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!

THE SYSTEM IS AS GOOD AS ITS WEAKEST PART!

CHANNEL INSULATION

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. Insulation examples are show in figure 4.

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.

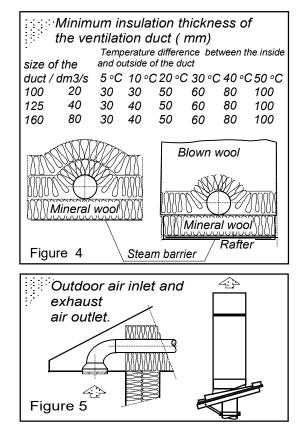
INSTALLATION OF VENTS

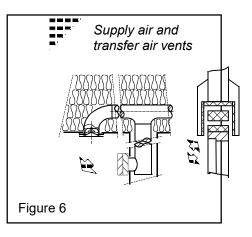
Income and outlet vents are installed according to the plan. Special attention is needed while installing income vents since a wrong vent in a wrong place and wrong mounting will affect the air draught and reduce satisfaction. Steam barriers are well tightened.

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-290 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. Exhaust of condensing water proceeds through a water-sealed joint hose into a washing basin or "dry" floor well. Check the horizontal position of the unit and free flow of the condensing water.

UPPER BASE DUCT

The channelling is usually mounted to the upper base thermal insulation. The steam barrier must be hermetically taped.

MOUNTING OF TALTERI

The machine can be raised on top of a boiler or a cabinet. A flexible mat installed under the machine acts as sound insulation. The condensate hose and the electrical connections must be installed at the same time. Another way is to mount the machine to the ceiling: with four M8 threaded rods the machine can be mounted through its ceiling mounting plate using rubber dampers. When using a steam barrier assembled on the roof trusses, the machine can be suspended from it with four M8 threaded rods using rubber dampers.

The third way is to mount the machine on the wall with a wall mounting bracket. After installing the wall mounting bracket, the machine is lifted onto the bracket, the horizontal plane of the machine is checked and adjusted. If necessary, the lower part of the machine can be secured. After removing the locking screw, the bottom metal sheet of the machine is released by first bending the sheet off one and then the other guide.

INSTALLATION OF THE COVER PLATE OF THE COVER

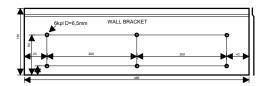
The cover plate is installed above the exhaust fan before installing the machine.

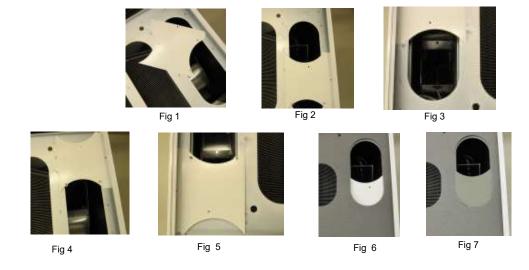
1.Remove the cover insulation.

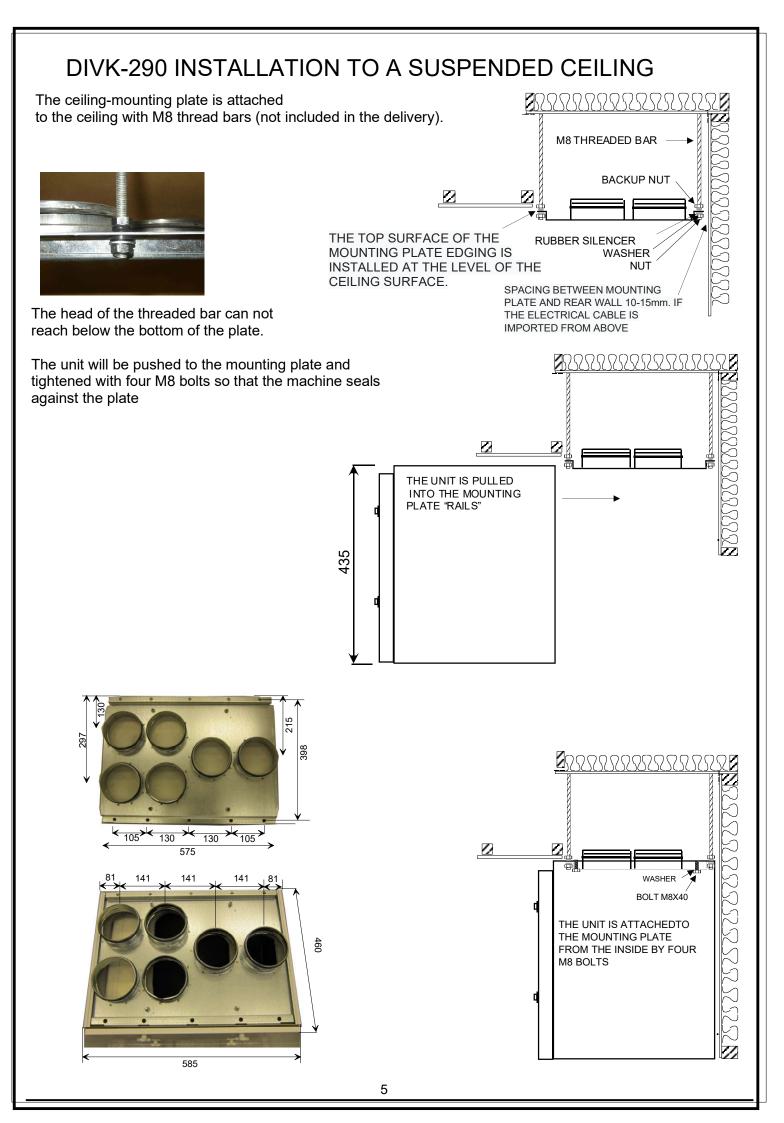
2. Turn the cover plate into the hole with the screw heads down, the screw heads below the edges of the hole (Fig.1)

3. Move the cover plate according to the different cover options mounting kit 1 right-handed (Fig. 2) - mounting kit 1 left-handed (Fig. 3) - mounting kit 2 right-handed (Fig. 4) - mounting kit 2 left-handed (Fig. 5)

- 4. Install the cover insulation.
- 5. Glue the additional insulation to the cover plate







CONSENSATE WATER

DIVK heat exchanger units have a water trap built from a condensate hose located under the base plate (Fig 1). If a condensate trap outside the machine is used, the machine's own water trap must be removed and care must be taken to ensure that the condensate hose is downsloping.

If the water hose is connected to a 32 mm sewer pipe located inside the wall, the connection must be sealed to prevent any water vapor entering to the electrical connection space located under the machine.In this case, the supply of intake air must be ensured by a separate branch made in the pipe (Fig 2).

If the water hose is connected to the sink drainage ring, a water trap must be made next to the sink water trap (Fig 3). It is not recommended to lead the condensate hose to a water trap or floor drain where hot wash or shower water is led. After installation, check the drainage of water from the condensate tank.

Door of the u TAI TER 1911 TALTERI has a built-in condensate TAI TER water trap. The drain hose directs the water directly downwards from the rear wall of the machine to the floor drain. If a separate wat trap is installed. the water trap inside the machine must be removed. Fig 2 Fig 1

ELECTRICAL CONNECTIONS

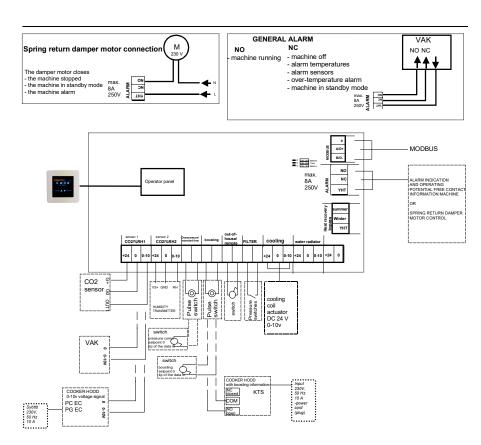
Electrical connections must be done following the installation manual and wiring diagram.

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.

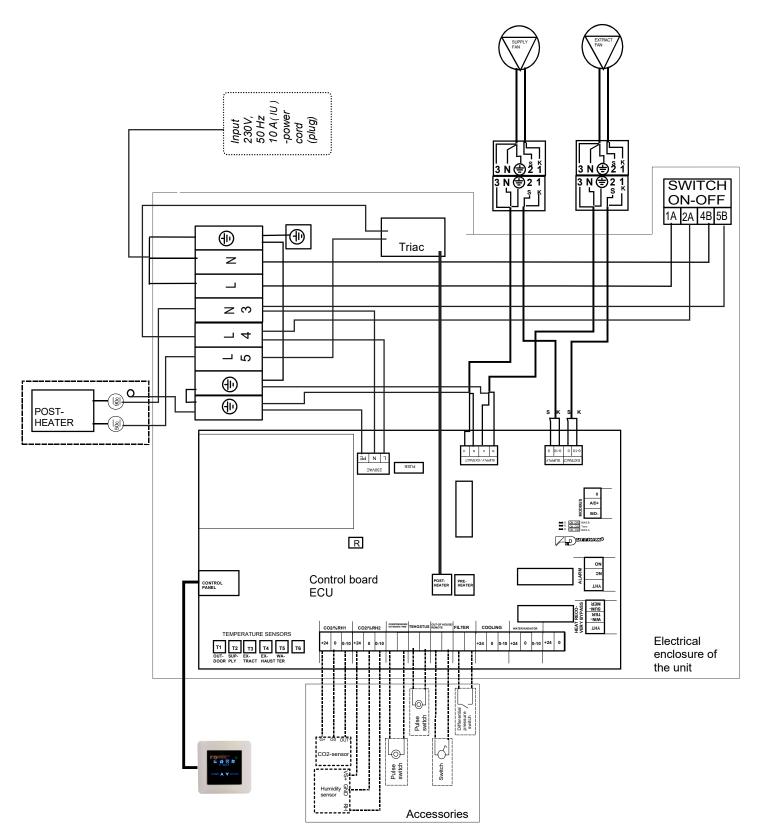


The fan speed of Talteri vertiliation unit can be controlled with Ultra PC EC, PS EC, DS-800 EC and DSA-900 EC cooker hood or 0-10 V voltage signal from Control panel. The voltage signal connected the OC22/nR*II terminal. Sensor (EXT) can be operated through maintenance menu of the operating panel. The 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 guantity of boost too.

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 INTRODUCTION OF A VENTILATION UNIT

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 5-10 % 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 selection of the speed is performed from the control panel maintenance menu. The fans can be adjusted for five different speed settings between 20-100%

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 1000 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 +16C. 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.

For the summer time, heat exchanger cell is closed by the bypass plate, so that the extract air does not heat the outside 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 weather, water would freeze in the heat exchanger unless the frost protection reduced the speed of the supply fan during the defrost cycle. In severe frosts, defrost cycles are frequent.

Under abnormal conditions (humidity / cold), the heat exchanger may freeze and the defrost cycles will not have time to defrost it. In this case, the machine must be stopped, the door opened, if necessary, the cold air flow must be prevented and let the heat exchanger to defrost. In the service menu under WASTE AIR COLD menu, the frost protection setpoint can be changed 0-10°c. The default setting is 5 °c, if freezing occurs, the setpoint is increased. In dry conditions, the setpoint can be decreased.

Check the condensate drain from the machine.

THE SUMMER BYPASS OF THE HEAT RECOVERY UNIT MUST BE IN THE WINTER POSITION WHEN THE AIRFLOWS ARE BEING ADJUSTED.

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.



Note: swipe right at the top of the screen



External control fan speeds

0-2V	tan 0
2-5V	fan 2
5-7V	fan 3
7-9V	fan 4
9-10V	fan 5

SERVICE MENU EC SPEEDS

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



PR.COMP.TIME

PR.COMP.LEVEL

AV

Factory setting 10 min 3

Factory setting 10 min 1



Factory setting 17 °C







SERVICE MENU MODBUS ID 1 19200 8E1

SERVICE MENU SAVE FACTORY SETUP

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

FAN SPEED PRIORITY

Fan speed preselection is performed from the control panel service menu. Inlet and outlet fans can be individually adjusted for five different speeds with fan speeds of 20-100%

BOOSTING FROM THE COOKER HOOD WITH CONTACT TIP INFORMATION.

Intensification time settings 0 and 5...120 min. In 0 position with different switch 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 switch pre-data. Overpressure limit regulation 1...4 (inlet air impeller higher than outlet air impeller)

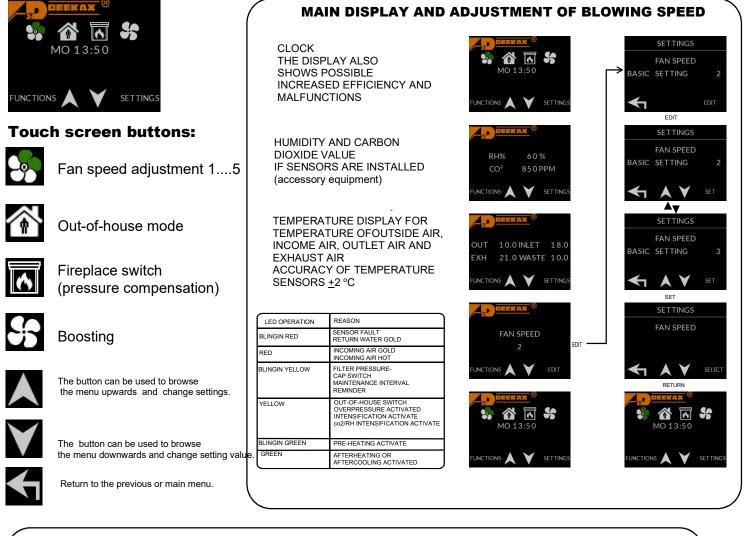
REGULATION of the INLET AIR TEMPERATURE Inlet air temperature range 5...30 °C, can be adjusted via SETTINGS menu

CO2 AND/or RH SENSORS ACTIVATION

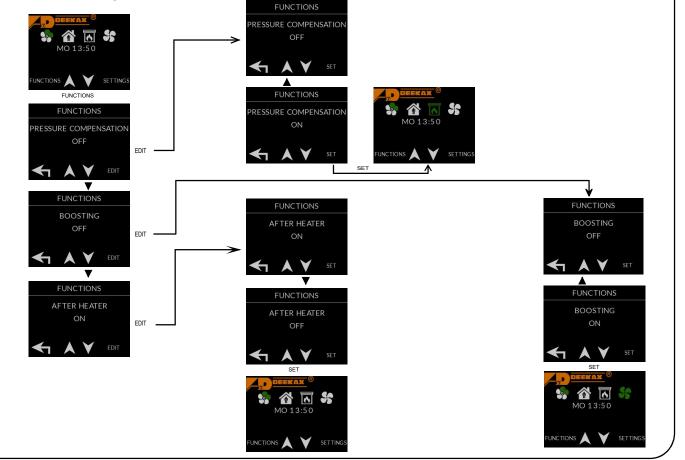
CO₂ AND HUMIDY PERCENTAGE SETTING Note: set the sensor on in the settings menu

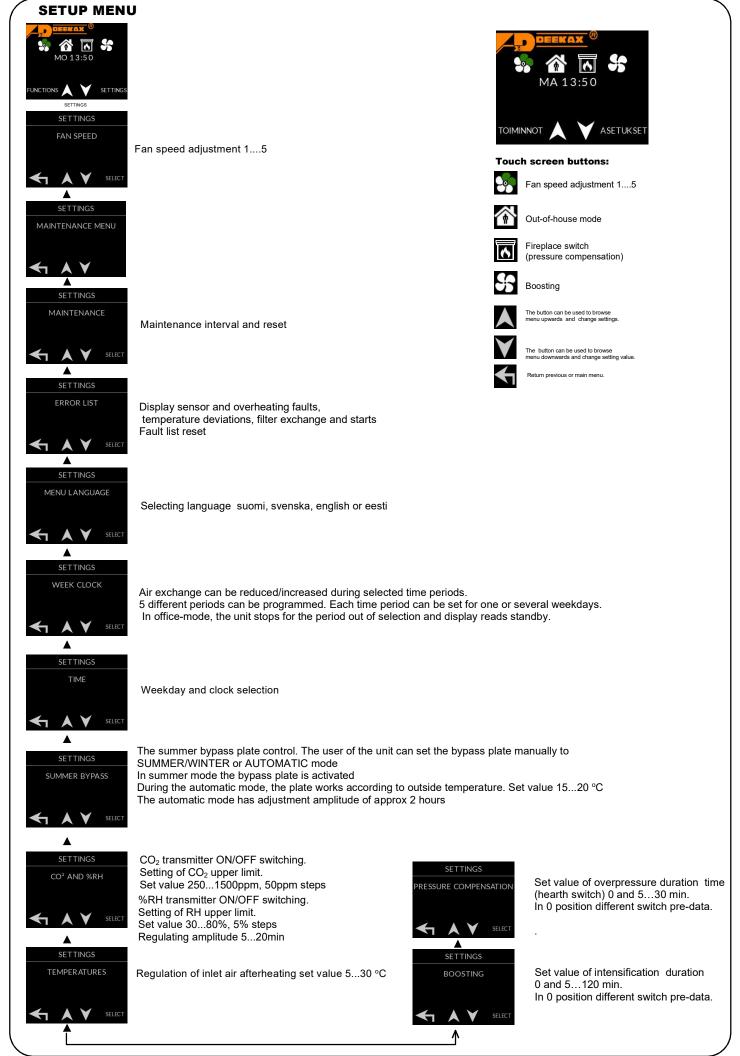
MODBUS MENU Check the separate Modbus manual

OPERATING PANEL USER INSTRUCTION

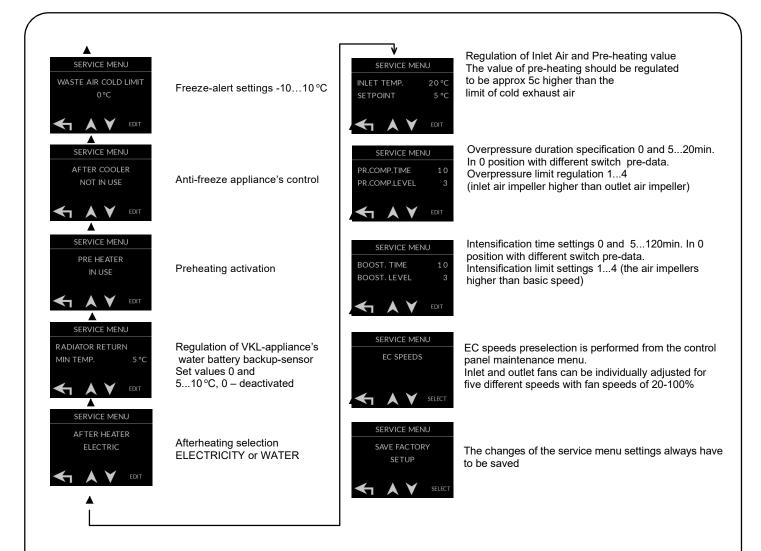


ACTIVATING/DEACTIVATING OVERPRESSURE or (EXT.TIME), INTENSIFICATION AND AFTERHEATING





	MENU	
	MENU	
		MA 13:50
SETTINGS FAN SPEED		TOIMINNOT A V ASETUKSET
		Touch screen buttons: Fan speed adjustment 15
SETTINGS MAINTENANCE MENU		Out-of-house mode
← 1 ▲ ¥		Extended time(office mode)
SWIPE RIGHT AT THE TOP OF THE SCRI	EEN	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.
RECOVER FACTORY SETUP	Return to default settings. Note VLK's units post-heating fuction must be switched on from the service menu	
SERVICE MENU		
SAVE FACTORY SETUP	Changes of the SERVICE MENU settings always have	e to be saved
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
MODBUS ID 1 19200 8E1	Modbus	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	SERVICE MENU SERVICE MENU SENSOR 1 NO SENSOR 2 NO CO ₂ and/or RH sensors activation The external control 0-10 V activation
	Out-of-house mode "Remote control off" the unit operates on minimum speed with pre-data switched on	
	Usable if the differential-pressure switch is present	CO ² 1200 PPM %RH 50% CO ₂ 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 pulse-switch if the weekly clock is used in office-mode.



BACKLIGHT BRIGHTNESS AND STANDBY SCREEN



Press and hold the FUNCTIONS for about 5 seconds



Adjustment of backlight



, ,



 \mathbf{A}

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.

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



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.

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.

Under abnormal conditions (humidity / cold), the heat exchanger may freeze and the defrost cycles will not

have time to defrost it. In this case, the machine must be stopped, the door opened, if necessary, the cold air flow must be prevented and let the heat exchanger to defrost.

In the service menu under WASTE AIR COLD menu, the frost protection setpoint can be changed 0-10°c. The default setting is 5 °C, if freezing occurs, the setpoint is increased. In dry conditions, the setpoint can be decreased.

Check the drainage of condensing water!

In case the water-lock dries out and makes pulping noise, you can pour into it 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 insulation.



The heat recovery cell in the winter position





The heat recovery cell in the summer position, the bypass plate is turned in the front of the cell, the outdoor air passes behind the heat recovery cell.

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