

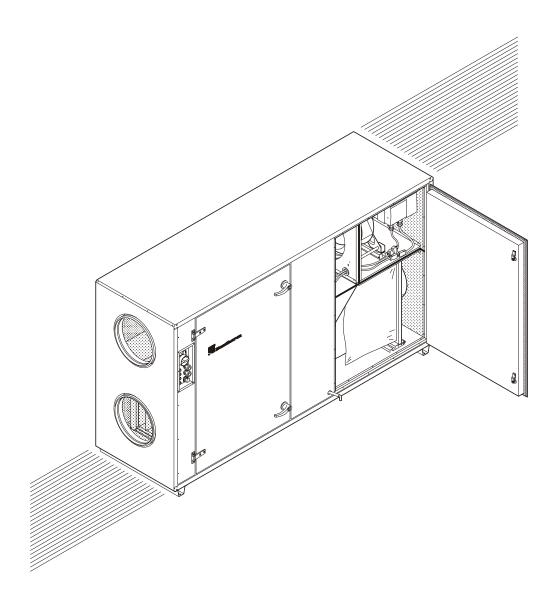


Installation and service manual

Vent R/C 2/4/6

English

Version 2.5 - 971763



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1. General

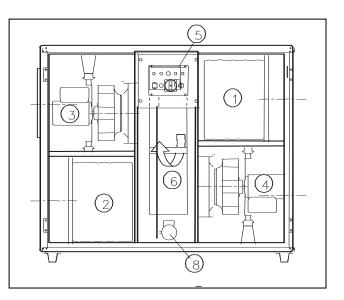
Dantherm heat recovery units type VentR/C are complete ventilation units with frequency-controlled rotary heat exchanger or cross flow heat exchanger with by-pass, frequency-controlled plug fans, supply air filters and exhaust air filters as well as a complete, integral electronic control.

Various accessories are offered such as reheat coils for hot water or electricity, multi-leaf dampers, and roof covering for outdoor installation. This manual is intended for the technician in charge of the commissioning of the ventilation plant.

1.1 Unit construction

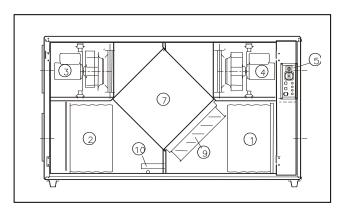
Vent R (pos. left)

- 1. Fresh air filter F7
- 2. Exhaust filter F5
- 3. Supply air fan
- 4. Exhaust fan
- 5. Electrical panel and STXC2 print
- 6. Rotary exchanger
- 8. Motor for rotary exchanger



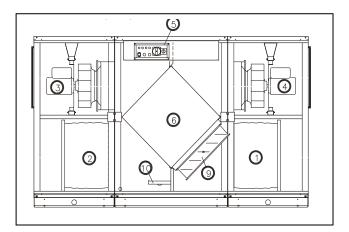
Vent C 2/4 (pos. left)

- 1. Fresh air filter F7
- 2. Exhaust filter F5
- 3. Supply air fan
- 4. Exhaust fan
- 5. Elec. panel
- 6. STXC2 print
- 7. Crossflow heat exchanger
- 9. By Pass
- 10. Drip tray with outlet



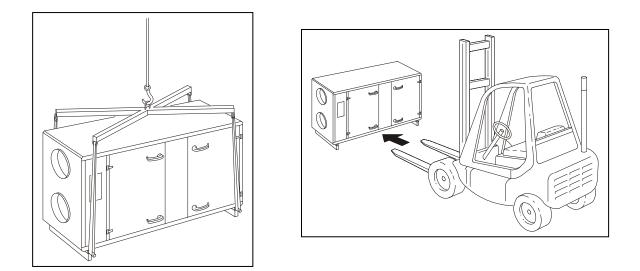
Vent C 6 (pos. left)

- Fresh air filter F7 1.
- Exhaust filter F5 2.
- Supply air fan 3.
- 4. Exhaust fan
- Elec. panel and STXC2 print Crossflow heat exchanger 5.
- 7.
- 9. By Pass
- Drip tray with outlet 10.

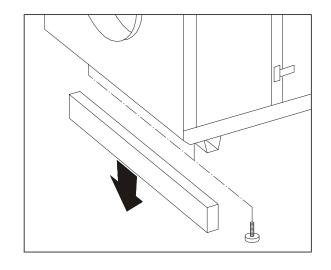


2. Transport

All Vent units are supplied as complete units. On request, the biggest models Vent R/C 6 can be separated into three parts, allowing easy transport into plant rooms with limited access.



On delivery the unit is placed in upright position on two crossbeams, allowing the use of a forklift truck, a pallet lifter or a crane for lifting and transporting the unit. If a crane is used, ensure that the unit remains in balance. Before placing the unit in its final position, remove the crossbeams and fit the height-adjustable feet to the base frame.



IMPORTANT:

Adjustable feet, which are delivered with the unit, must be fitted before the final positioning! Once the feet are fitted, the unit must not be pushed any more, only lifted, otherwise the feet will bend or break off.

3. Installation of the unit

3.1 General

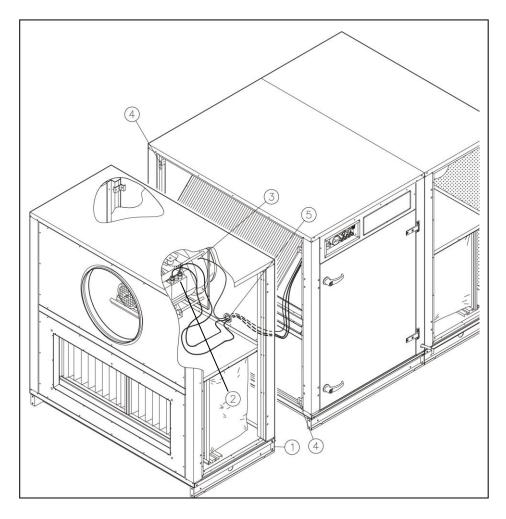
To avoid vibrations being transmitted to other objects in the room, the unit should be placed on a hard, level and stable surface.

Make sure that there is a free access to the inspection doors and that they can be fully opened.

3.2 Moving in Vent C/R 6 units

The Vent R/C 6 is delivered as ready-mounted units. If it proves necessary to dismount part of the unit to get it through the door opening, the following procedure is recommended:

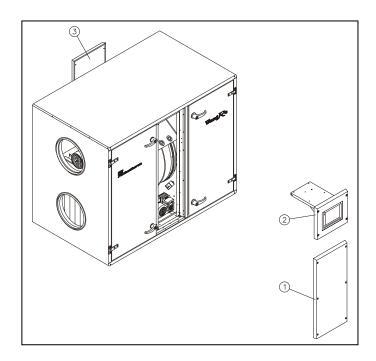
- Loosen the screws of the base frame (1)
- Remove the cables from the fans (2)
- Remove the measuring hoses from the fans (3)
- Loosen the fixing screws in the four corners of both fan modules. (4)
- Remove measuring hoses, electric cable and rubber entry from fan section (5)



To reassemble the unit follow the same procedure in the opposite order.

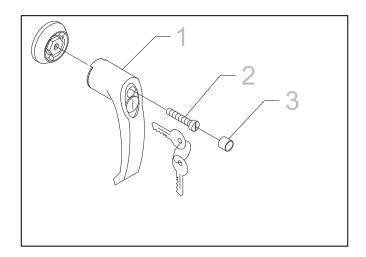
3.3 Moving in Vent R 4 units

If the overall dimensions of VentR 4 are too big to allow transport through the door opening, the cover panels in front of and behind the rotary heat exchanger can be temporarily dismounted thus reducing the overall width of the unit to less than 890 mm.



3.4 Fitting of handles

For transport reasons the handles are not fitted from the factory. Fit one handle with lock and one without in each door. The handle (1) is fixed to the lock with the screw (2), and the plastic blinder (3) is pressed into the handle.



3.5 Duct connection

The duct connections are marked with descriptions of the four airflows for easy and unproblematic connection.

Circular duct connections are supplied with rubber sealing gaskets, allowing connection of a duct direct on the connecting piece of the unit. The Vent R/C 6 unit must be supplied with a duct transition piece on the filter side, as the duct connection on this side of the unit is rectangular in order to provide the best possible air distribution through the filter. Rectangular ducts can be used as an alternative.

For the sake of pressure drop and air velocity in the duct it is recommended that ducts have the same dimensions as the connecting pieces of the unit. The dimensions of the connecting pieces are:

- Vent R/C 2 Ø 315 mm
- Vent R/C 4 Ø 400 mm
- Vent R/C 6 Ø 500 mm

3.6 Condense drain Vent C

If the exhaust air from Vent C units with cross flow heat exchanger has a high relative humidity, condense water may be created during the passage of the air through the heat exchanger. Therefore a condense tray is fitted under the exhaust side of the heat exchanger for collection of condense water. The water tray has a 12-mm drain pipe, which is located on the inspection side of the Vent C unit. A water trap must be fitted in the drainpipe to allow the water to run off.

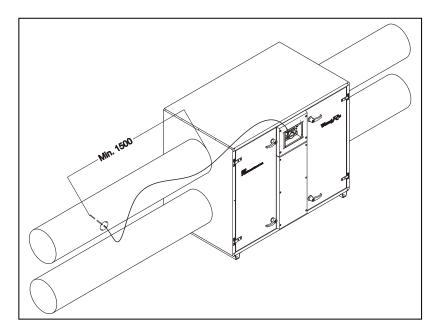
3.7 Fitting of accessories

The Vent unit can be supplied with various accessories. The accessories (except for the supply air sensor) are delivered together with the unit, but separately packed.

3.7.1 Supply air sensor

The supply air sensor (black) is ready-mounted in the unit when delivered from the factory. The sensor is led out of the unit next to the main switch. The sensor is to be fitted in the supply air duct at a distance of min. 1,5 m from the Vent unit. If the unit has a reheat coil the sensor must be fitted at a distance of min. 1,5 m from the reheat coil. To fit the sensor, proceed as follows:

- Mark the wanted position on the duct and drill a 10 mm hole.
- Fix the sensor by means of four self-cutting screws.



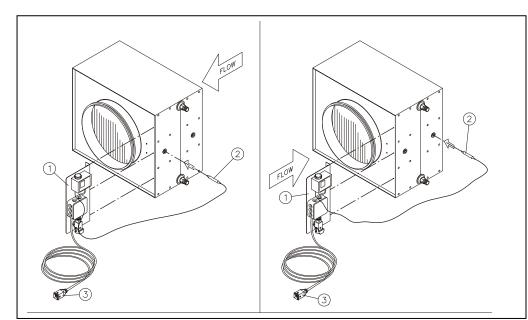
3.7.2 Electric reheat coil

If an electric reheat coil is delivered with the unit, the connecting dimensions of the reheat coil are the same as the connecting dimensions of the Vent unit. Thus the reheat coil can be connected direct on the supply air duct. Make sure that the arrow of the reheat coil is pointing in the same direction as the airflow.

Then connect the control cable to the socket in the Vent unit's control panel. Please also see Section 5.

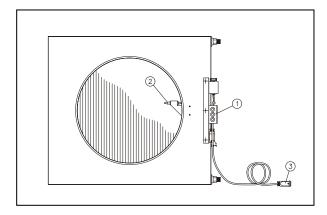
If a reheat coil for electricity is fitted, dipswitch No. 6 must be set to position ON. The dipswitch is found on the STXC2 print circuit board of the unit. (For further information's see 4.2)

3.7.3 LPHW reheat coil



If a reheat coil is delivered with the unit, the connecting dimensions of the reheat coil are the same as the connecting dimensions of the Vent unit. Thus the reheat coil can be connected direct on the supply air duct.

For transport reasons the frost thermostat with connection box (1) is not fitted from the factory. It is fixed to the water heating coil by the enclosed screws. Then fit the capillary sensor of the frost thermostat (2) by means of the enclosed fittings, so that the sensor is placed behind the heating coil (in the air direction).



Finally fit the heating coil onto the Vent unit and plug the control cable (3) into the control panel of the Vent unit. Please also see Section 5.

Valve motor for control of the hot water quantity may now be connected to the terminal strip under the frost thermostat (1). Please also see the wiring diagram.

3.7.4 Multi-leaf damper

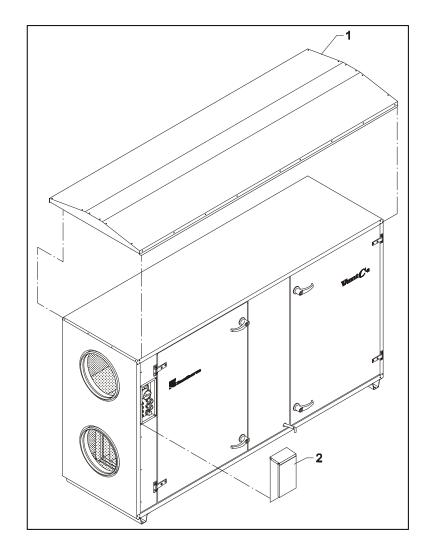
If a multi-leaf damper is delivered with the unit, the connecting dimensions of the multi-leaf damper are the same as the connecting dimensions of the Vent unit and therefore the damper can be connected direct on supply and exhaust air ducts, respectively.

The rectangular multi-leaf damper, which is available as an extra accessory for the Vent 6 units, is mounted directly on the suction spigot of the unit by means of four machine screws. The electrical connection is described under point 4.1

3.7.5 Roof covering

If the unit is to be placed outdoors, it has to be supplied with a roof covering (1) and a shielding for protection of the electrical control panel (2). The roof covering is supplied in one piece and is fitted to the unit with the delivered machine screws.

The shielding of the control panel is fixed to the unit by means of the same four screws keeping the control panel in place.



4. Electrical connection

The mains power supply is connected direct to terminal (X1) in the control panel of the ventilation unit in the following way:

VentR:

Loosen the four screws keeping the control panel and remove it. Take the connection cable through the PG gland and connect it to the terminal X1.

VentC 2/4:

To gain access to terminal X1 open the door beside the control panel. It is now possible to remove the side cover panel which is fastened by four screws. Take the connection cable through the PG gland and connect it to the terminal X1.

VentC 6:

The six screws holding the cover beside the control panel are loosened and the cover is removed. Take the connection cable through the PG gland and connect it to the terminal X1.

The mains connection can be $1N \sim PE 230V$ or $2N \sim PE 400V$. The standard ventilation unit from the factory has a mains power supply of $2N \sim PE 400V$.

Maximum consumption in a VentR ventilation unit

	1	N~ PE 230	V	2N~ PE 400V		
VentR	P I Fuse		Р	Ι	Fuse	
	[kW]	[A]	[A]	[kW]	[A]	[A]
2	1,2	9,8	10	1,2	4,9	10
4	2,3	16,8	20	2,3	8,4	10
6	3,1	24,0	25	3,1	12,0	16

Maximum consumption in a VentC ventilation unit

	1N~ PE 230V			1N~ PE 230V 2N~ PE 400V		
VentC	P I Fuse			Р	Ι	Fuse
	[kW]	[A]	[A]	[kW]	[A]	[A]
2	1,1	8,8	10	1,1	4,9	10
4	2,2	15,8	20	2,2	8,4	10
6	3,0	23,0	25	3,0	12,0	16

Earth Leakage Circuit Breaker

If an earth leakage circuit breaker (ELCB) is used as additional protection, it must be of the type that trips out when earth fault currents with DC content (pulsating DC) occur. The earth leakage circuit breakers must be marked with the following symbol:



Connection of protected earth

Concerning resistance to static electricity it is recommended that the cabinet of the MMI STCU be connected to a protected earth. Possibly the same for the flow-chart cabinet STLD.

NOTE: Observe local power supply company regulations!

4.1 Electrical connection of accessories

The electrical connection of accessory control current is done directly on the STXC2 print in the Vent unit (except for the reheating coils, which are connected by plug). In the VentR 2/4/6 and VentC 6 the STXC2 print is located behind the control panel, and in the VentC 2/4 under the exhaust filter (see Section 1.1).

4.1.1 Analogue cooling signal

If a cooling coil is connected to the ventilation unit, this can be controlled from the unit controller (2-10 V control signal).

The control signal disconnect (0 V) if the outdoor temperature is below 14 °C or if the supply air temperature is below set point for minimum supply air temperature.

4.1.2 ON/OFF signal for external cooling plant

The controller is equipped with an ON/OFF output for external cooling plant. 24 V AC at calculated cooling demand above 20 %. At decreasing cooling demand, the output deactivate again, when the cooling demand hass decreased to below 5 %.

4.1.3 Fan runs signal

ON/OFF output for external use. This output (24 V AC) will be activated when the fans run and there are no error messages.

4.1.4 Start/stop signal for circulating pump

ON/OFF signal (24 V AC) for circulating pump for reheating coil. On when operation is needed. The circulating pump will be activated when there is a need for reheating. The pump will also be activated 5 minutes once per month.

4.2 Electrical connection of accessories

In the VentR 2/4/6 and VentC 6 the STXC2 print is located behind the control panel, and in VentC 2/4 under the exhaust filter. From the factory the DIP-switch on the STXC2 control print inside the unit has the following **pre-settings**:

DIP-switch	DIP-switch position	Function
1	OFF	No compressor
	ON	Compressor installed (Not used in Vent units)
2	OFF	Rotating heat exchanger (Vent R)
	ON	Crossflow heat exchanger (Vent C)
3	OFF	Vent fan control
	ON	Not used in Vent units
4	OFF	Vent fan control
	ON	Not used in Vent units
5	OFF	LPHW preheat or no preheat connected
	ON	El-preheater connected
6	OFF	LPHW afterheating or no afterheating connected
	ON	El-afterheating coil connected
7-8		Not used
8		

The potentiometer XP for the temperature control's XP band on the STXC2 control print is factory set to the maximum (equal to 50°C). The setting can be changed between 5 and 50°C according to demand.

The potentiometer PREHEAT for control of a pre-heating coil may be set between -10 and $+10^{\circ}$ C. If no pre-heating coil is used, the setting of the potentiometer is irrelevant.

5. Start-up

The unit can be started when all installations and connections have been made. Close all inspection doors and start the unit on the main switch (1). Then choose operational mode on the functional switch (2).

"0" In this position the unit is closed

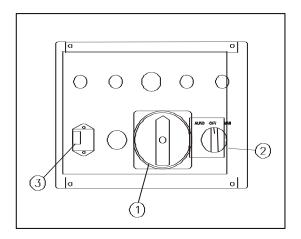
"MAN" In this position the unit can work without the control unit and without any pre-programming. The unit then works according to a so-called emergency program. Please see the User's manual.

"AUTO" In this position the unit works in accordance with the settings of the control unit. Use the "AUTO" position for normal operation.

Further instructions about start up and especially about programming and control of the required running parameters can be found in the "User's Manual", which is delivered packed together with the unit.

The socket (3) is for connection of the control current of the electric and water heating coils. Please also see Section 3.7.2 and 3.7.3.

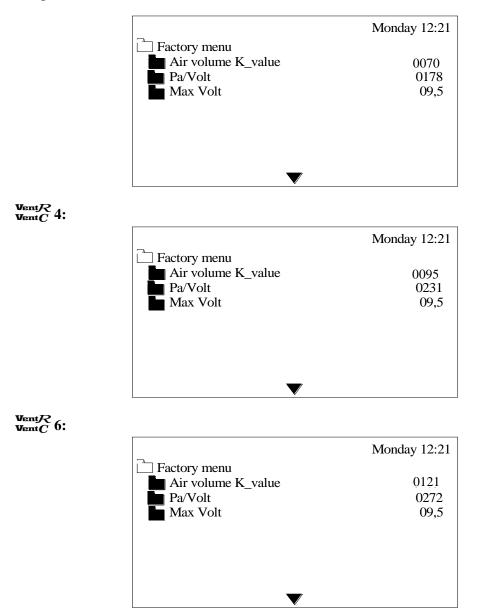
The remaining start-up, especially the programming of the control of the required operational parameters, is described in the "User's Manual", delivered together with the unit.



5.1 Factory settings

By pressing the **Man**, **Auto** and **Enter** buttons at the same time and holding for 10 seconds the factory default settings for the control system are reverted to. Default values for the ventilation units are as follows:

VentR VentC 2:



Air volume K_value: Pa/Volt: Max Volt: A factor for the installed EC fan.

A factor used for air filter condition monitoring.

Maximum control signal (0-10V), where the fan motor has reached it's highest RPM.

5.2 Configuration settings.

By pressing the keys **Man** and **Auto** at the same time and holding for 5 seconds the configuration settings for the control system are selected.

Monday 12:21
100
YES
YES
YES
А
NO
0-10V
$\mathbf{ abla}$

Exhaust volume:

Choose a value between 80 and 120 [%] for the extract air volume as a proportion of the supply air volume. If the communication module STIO is connected, the potentiometer adjustment *DIF EXH FAN* on the module will override the setpoint for the extract air volume.

Humidity sensor:

- YES: A humidity sensor is connected. If the humidity sensor senses humidity above the set point, more fresh air is a supplied (damper equipped with modulating damper motors 0-10V). The fan speed rises.
- NO: No humidity sensor is connected.

Automatic filter surv .:

- YES: Software checks filters dirty condition. Automatic filter monitoring.
- NO: No software check. No filter monitoring. Se User's guide section 2.4 *Filter configuration* for further information.

Low temp. reduc.:

YES: Reduction of ambient air volume when the supply air temperature is below the minimum supply temperature setpoint (5 - 40°C).
 NO: No reduction.

Temp. Ctr. sensor:

A:	Automatic temperature shift.
	Winter: Ambient air temperature below 14°C. Control as a function of the supply sensor.
	Summer: Ambient air temperature above 15°C. Control as a function of the return air sensor.
R:	Temperature control related to the return air sensor - constant room temperature.
S:	Temperature control related to the supply sensor - constant supply air temperature.

Preheat:

NO:	No pre-heater coil is connected.				
YES:	A pre-heater coil is connected.				
Fresh air damper:					
NONE:	No damper motor is connected.				
ON/OFF:	An ON/OFF damper motor is connected.				
0-10V:	Modulating (0-10V) damper motor is connected.				

Important! After changing a parameter, press Enter to save the new value.

5.3 Running condition

The actual running condition can at any time be read in the MMI STCU. From the main menu the sub menu *Technical data* is selected. The sub menu *Processor* is selected.

Main menu	Monday 12:21
Technical data	
Processor	
Run time	00023
Comm error %	034
STCU CpuVer	017
STXC CpuVer	015
STPT CpuVer	011
STHP CpuVer	
STIO CpuVer	021
Mode	9
\blacksquare	

The menu point *Mode* provides information about the actual running condition as a number between 0 and 9:

- 0: The ventilation unit is stopped.
- 2: The ventilation unit runs with the function cooling at summer nights.
- 4: Auto, ventilation unit controlled by the MMI STCU.
- 5: Man., ventilation unit controlled by the function switch S1 in position MAN.
- 6: After run on fans.
- 7: Fan failure.
- 8: Fire thermostat failure.
- 9: Frost thermostat failure.

6. Service and maintenance

The Vent unit must be stopped on the breaker contact on the control panel and then on the main/service switch on the Vent unit itself before carrying out any service. Do not open the inspection doors before the fans have stopped completely!

Component	Every 6 month	Every 12 month	Section
Filter	Inspection, replacing, if necessary	Inspection, replacing, if necessary	6.1
Rotary heat exchanger Inspection of rotor, cleaning if		Cleaning of rotor	6.2
	necessary	Inspection of sealing	
		Inspection of drive	
Cross flow heat	Inspection of heat exchanger,	Cleaning of heat exchanger.	6.3
exchanger	cleaning if necessary	Inspection of by-pass damper	
Fan	-	Cleaning of running wheel	6.4
		Checking up on imbalance	

In general service has to be carried out at following intervals:

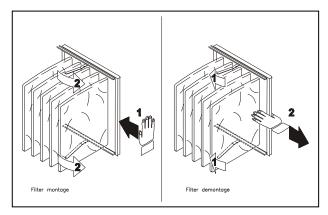
6.1 Filter

If the automatic filter guard is activated in the control system, the filter has to be changed when the filterwarning lamp is on. If the automatic filter guard is not activated, filters have to be checked and perhaps replaced every 6 month.

Always replace filters with another filter of the same quality, i.e. filter class F7 on the fresh air side and filter class F5 on the exhaust air side.

To replace filters, proceed as follows:

- Open the filter inspection doors
- Open the eccentric clamping mechanism using the blue handles at top and bottom on the filters. Pull out the filters.
- The filter module can be cleaned on the inside with a vacuum cleaner if it is dirty.
- Insert new filters. Check that the vertical frames of each filter have a seal.
- Squeeze the filters slightly and close the eccentric clamping mechanism using the blue handles.



6.2 Rotary heat exchanger on Vent R units

The rotary heat exchanger must be checked for dirt and damage every 6 month. The rotary heat exchanger is cleaned as follows:

- Remove fresh air and exhaust air filter (please see section 6.1)
- It is now possible to vacuum clean the rotary heat exchanger from the filter cassette. Use a smooth mouthpiece to avoid damage on the rotary exchanger.
- If the rotary exchanger is very dirty, it can be cleaned by compressed air. This has to be done against the airflow, which means that it must be done from the fan section side. To do this, the fans must first be dismounted. Please see section 6.4.
- Put the filters and any dismounted fans back in their place again.

The packing of the rotary heat exchanger and the belt drive has to be checked at least once a year. Proceed as follows:

- Remove the cover panel in front of the rotary heat exchanger
- Check the brush packing on both sides of the rotary heat exchanger for damage. If the brush packing is damaged, replace it.
- Check the belt tension. If the belt is loose or damaged, replace it. Cut the belt and mount the spare belt, which is fixed to the rotary heat exchanger on the motor pulley.
- Put the cover panel back in place again.

6.3 Cross flow heat exchanger in Vent C units

Check the cross flow heat exchanger for dirt and damage every 6 months. The heat exchanger is cleaned as follows:

- Remove fresh air and exhaust air filter (please see section 6.1)
- It is now possible to vacuum clean the rotary heat exchanger from the filter cassette. Use a smooth mouthpiece to avoid damage on the rotary exchanger.
- If the rotary exchanger is very dirty, it can be cleaned by compressed air.
- Check the drain from the drip tray on the exhaust side. Clean the drip tray if necessary.
- Put the filters back in place again.

Check the damper function at least once every 12 months.

6.4 Fans

Check the fans for dirt at least once every 12 months. The fans are cleaned as follows:

- Vacuum-clean the fan wheels if they are only a little dirty.
- Wash the fan wheels in soapy water if they are very dirty. If necessary, demount fans and motor in advance.

This is done as follows:

- Loosen the two finger screws at top and foot of the fan cabinet
- Pull out the two cable plugs from the motor
- Pull out the measuring hose from the connecting piece
- Pull out the motor from the unit
- Reassemble in the opposite order.

7. Finding errors on frequency inverter for heat wheel

Finding errors with help from indications on the display on the frequency inverter for the heat wheel.

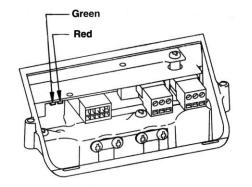
The display will show an error as a numeric code like "ERR.XX". A warning will be shown in the display until the error has been corrected, while an alarm will be shown blinking until [STOP/RESET] has been activated.

The table shows the different warnings and alarms and whether the error locks the frequency converter or not. After a *trip locked* the power must be disconnected and the error must be corrected. Reconnect the power and reset the frequency converter. The frequency converter is now ready. A *Trip* can manually be reset via the key [Stop/Reset].

No.	Description	Warning	Alarm	Trip locked	Solution
8	Undervoltage	X	X	X	Undervoltage can occur when the connected mains voltage is too low. Check if the mains voltage is correct.
10	Motor overload	X	X		The motor is too hot according to the electronic termic motor protection. The motor is close to overloading for too long time. Control that the rotor can rotate freely and that the transmission is okay.
14	Earth error		X	X	There is earthing from the output phase either in the cable between the frequency converter and the motor or in the motor. Turn off the frequency converter and remove the earth error
16	Short circuit		X	X	Short circuit on the motor clamp or in the motor. Disconnect power to the frequency converter and remove the short circuit

8. Indicator lights and fault signal output

Two indicator lights and a fault signal output are placed in the terminal box. The function of the indicator lights and the fault signal output is shown in the following table. Furthermore, the fault signal output will signal possible faults.



Indicator lights		Contract monition of			
Fault (red)	Operation (green)	Contact position of signal relay	Description		
Off	off Off C NONC		The electricity supply has been switched off.		
Off	Permanently on		The motor is operating.		
Off	Flashing	C NONC	The motor has been set to stop.		
Permanently on	Off	C NONC	The motor has stopped because of a fault. Restarting will be at- tempted (it may be necessary to restart the motor by resetting the fault indication).		
Permanently on	Permanently on	C NO NC	The motor is operating, but it has been stopped because of a fault.		
Permanently on	Flashing		The motor has been set to stop, but it has been stopped because of a fault.		

9. Commissioning diagram

Unit type: Vent	Serial number		
Adjusted by:	Company:		
	Name		
	Date:	· · · · · · · · · · · · · · · · · · ·	
	Function	Factory setting	Set point
1. Basic settings of control system	Exhaust volume	100	
(Push MAN + AUTO buttons simultaneously	Humidity sensor	NO	
for 5 sec.)	Auto filter surv.	YES	
	Low temp. reduc.	NO	
	Temp Ctr. Sensor	А	
	Preheat	NO	
	Fresh air damper	NONE	
		·	
2. Main menu – technical data – language	English		
(Push ENTER button)	Danish	Danish	
	Swedish		
3. Main menu - Adjustment/Clock	Day		
Ŭ	Time		
	Date		
	Month		
	Year		
4. Main menu – technical data - Overriding set	Min supply	16	
Point	Vent overriding	50	
	Humidity % *	60	
	* only shown if humid	ity sensor YES	
	·	•	
5. Main menu – technical data – filter	Check at m3/h		
configuration	Accepted d/Pa		
		·	
6. Main menu – Adjustment/clock – Manual overriding	Temp. Set point °C	20	
	Ventilation m3/h	2000	
	Manual time timer	2	
7. Main menu - Adjustment/clock –	Program step No.	1 - 20	1
Programme step	Ventilation m3/h		
~ •	Day (E)		
	Time	-:-	
	Temp. Set point °C	20	
	Night cooling	NO	

Program step 1 -18

Program step No.	1	2	3	4	5	6
Ventilation m3/h						
Day (E)						
Time						
Temp. Set point C						
Night cooling						

Program step No.	7	8	9	10	11	12
Ventilation m3/h						
Day (E)						
Time						
Temp. Set point C						
Night cooling						

Program step No.	13	14	15	16	17	18
Ventilation m3/h						
Day (E)						
Time						
Temp. Set point C						
Night cooling						

Notes:

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CE	CONTROL YOUR CLIMATE
Dec	laration of Conformity
Dantherm Air Handling A/S Marienlystvej 65 DK - 7800 Skive	
Tel.: +45 96 14 37 00 Fax: +45 96 14 38 00	
Declaration of following product	i i i i i i i i i i i i i i i i i i i
Product name:	VentC 2, VentC 4, VentC 6, VentR 2, VentR 4, VentR 6
Product no.:	342022 342026 342030 342043 342047 342051 342023 342027 342031
The product is in conformity with	the following directives:
2006/42/EC	Directive on the safety of machines
2014/35/EU 2014/30/EU	Low Voltage Directive EMC Directive
2014/30/EU 2011/65/EU	RoHS Directive
2009/125/EC	ErP Directive
- and is manufactured in conf	formity with the following harmonised standards:
EN 12100	Safety of machinery General principles for design
EN 60204-1	Risk assessment and risk reduction Safety of machinery – Electrical equipment of machines – Part 1: General requirements
Skive, 01-01-2016 Julia Mollo Product manager	Managing director Jesper Holm Thorstensen