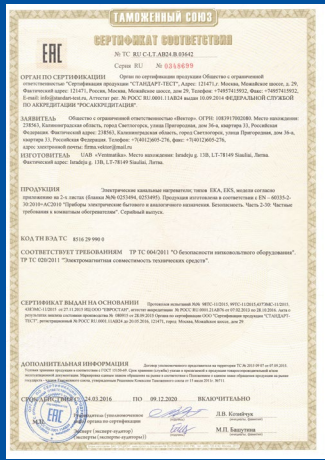
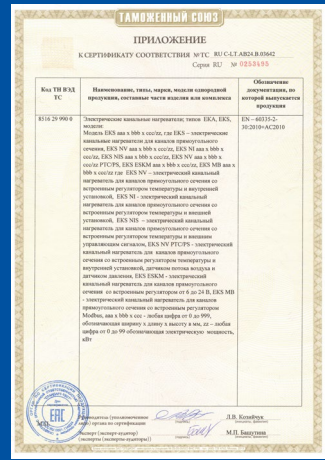
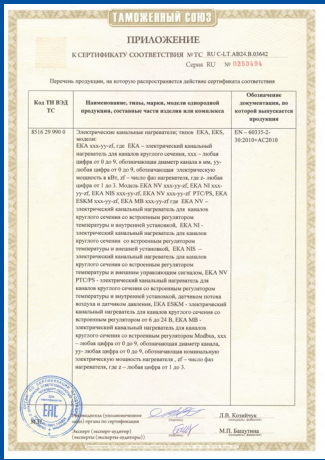
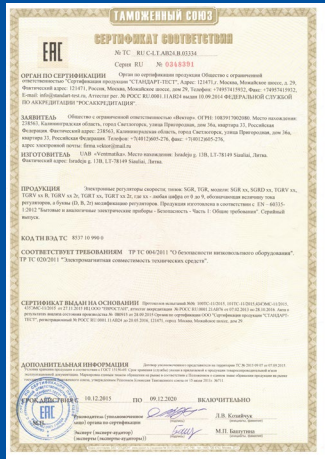
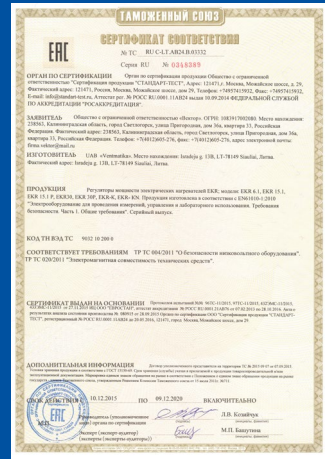
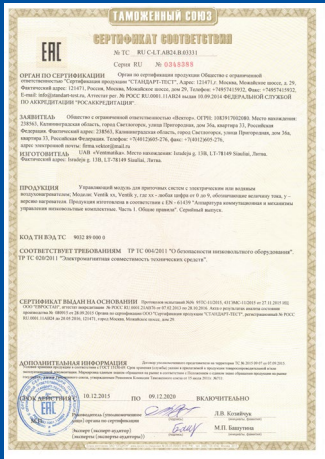
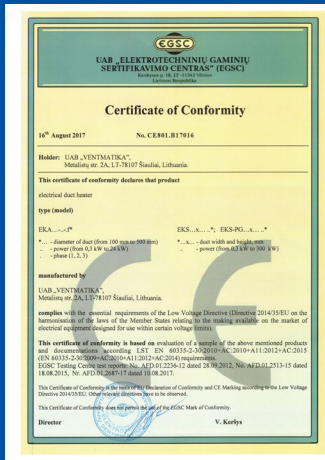
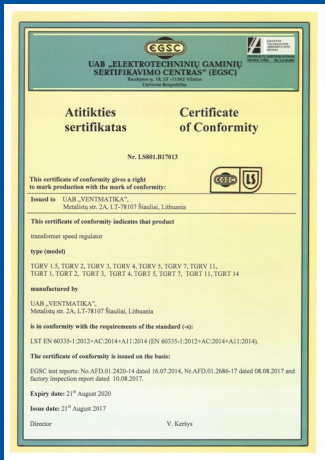
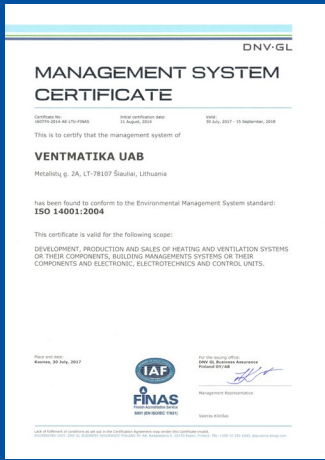
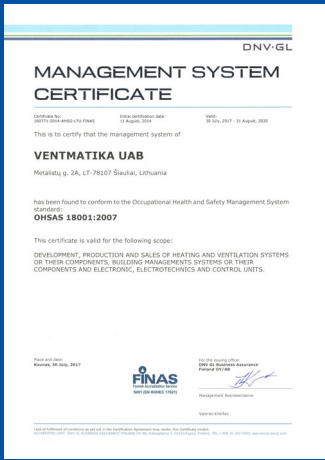




Catalogue of duct heaters and HVAC controls



About us

VENTMATIKA UAB have been counting the success of its activity since year 2003. Company's main focus is designing and manufacturing of electronic and electrotechnical components for manufacturers and distributors of ventilation equipment. As a component producing company, being a reliable part of end product is vitally important to us. We strive to satisfy ventilation market demands by providing optimum, innovative, long-lasting products and bespoke technical solutions.

Human resources is a key to success in this demanding market, as forward thinking and innovative ideas lead the company growth. Our team of specialists are always up-to-date on current trends and demands of the industry as their knowledge and qualifications are constantly improved by technical seminars, trainings and challenging tasks from our clients.

During these years we won confidence and loyalty of top brands in the ventilation industry. As a result, we export products to most European and CIS countries.

VENTMATIKA Mission

- ★ Be the best choice for heating, controls and accessories for ventilation industry
- ★ Continue applying knowledge and experience of VENTMATIKA specialists
- ★ Keep using advanced technologies and strive to apply even more
- ★ Keep investing and improving manufacturing machinery and processes
- ★ Keep and assure product quality

VENTMATIKA Vision

- ✔ Lead the industry with innovative solutions
- ✔ Remain a loyal and reliable partner
- ✔ Create more value for customers.

Export countries

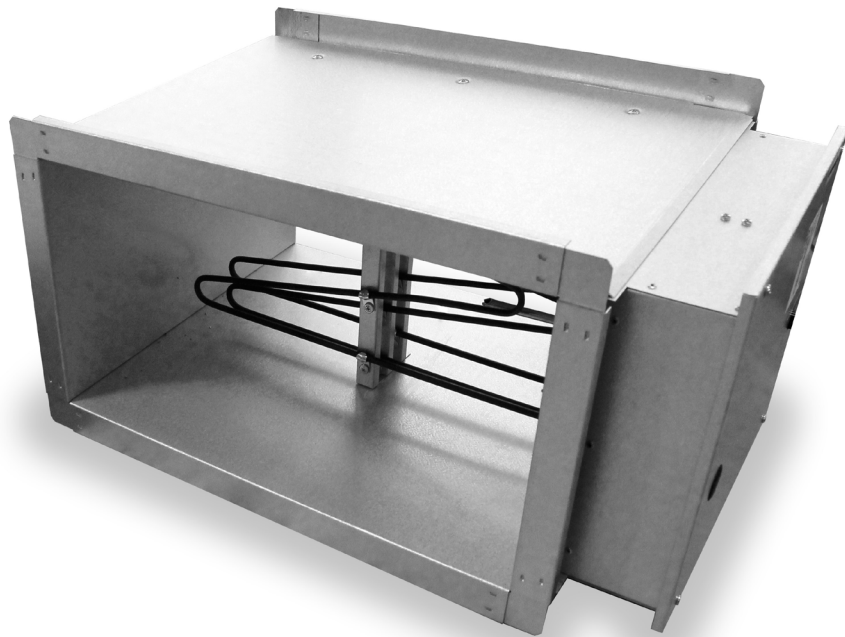


Electric heaters

- ▶ Using precision machinery and experience acquired through years of designing and manufacturing we offer durable electric heaters with various control options. This allows flexibility and creativity in offering tailor made solutions for our clients.
- ▶ There are no moving parts in the heater as the load is controlled by a triac, which ensures a long product lifetime. Aluzinc coating provides protection from rust for up to 15 years!
- ▶ The standard range of electric heaters consists of circular and rectangular duct mounted electric heaters with various control options.

Circular heaters standard sizes, ø in mm:										
100	125	150	160	200	250	315	355	400	450	500

Rectangular heaters standard sizes, mm:							
400x200	500x200	500x250	500x300	600x350	700x400	800x500	1000x500



- ▶ Bespoke heaters developed by provided requirements - size, shape, power output, control options. R&D will always work close with a client to achieve the best result.
- ▶ Power output starting from 0.3kW. Various combinations available.
- ▶ Pricelist of standard sizes and outputs provided upon request.
- ▶ Warranty – 2 years. 100% of products are checked by QA before leaving the factory.

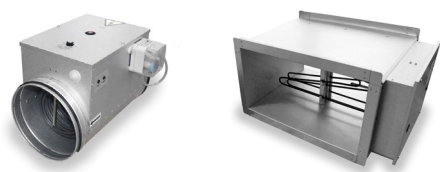
- 1 Manual reset 50°C
Automatic reset 100°C
- 2 Possible accessories:
Differential pressure switch,
air flow sensor, contactors
- 3 LED fault indication
- 4 Standard- AluZinc

Possible options: Galvanized or
Stainless steel (only for
rectangular heaters)
- 5 Rubber seals for duct
connection
- 6 Heating elements made from
Stainless steel AISI304



Electric heaters

Control options



► **Type ON/OFF**
Heater is controlled by external ON/OFF switch.



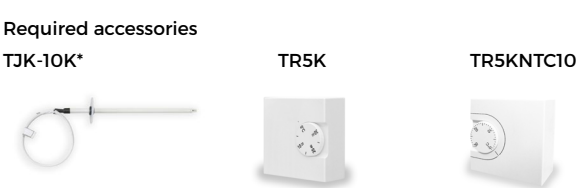
► **Type NV**
Setpoint (0...30) on casing.
Heater works autonomously.



► **Type NV PTC/PS**
Setpoint (-10...50) on casing.
Equipped with an airflow sensor & a differential pressure switch.
Heater works autonomously.



► **Type NI**
Requires external temperature setpoint (0...30): TR5K, TR5KNTC10 (with internal sensor)
Heater works autonomously.



► **Type NIS**
External 0...10V control

► **Type ESKM**
External 6...24V PWM control. Additional automatic thermostat of 70°C for ESKM module protection.

► **Type ModBus**
External control via ModBus RTU protocol. RS485 connection.

- All heaters may be equipped with extra accessories:
- Differential pressure switch – measures differences in pressure and protects the heater from working when there is no airflow due to risk of overheating.
 - Airflow sensor – if measured air velocity does not reach 1,5 m/s the heater will not work due to risk of overheating. Airflow sensor only available for heaters with internal controls.
 - Contactors – can be mounted inside the connection box of the heater if required.
 - Protection thermostats – standard 50°C and 100°C thermostats may be replaced upon request.
 - Setpoint range – possible to have a custom setpoint range upon request. (for example: -40°C...-10°C; -5°C...0°C)
 - Control options – if your required control option is not mentioned, please contact our team and we will offer a solution with your preferred control option.

*Included in price of the heater

EKR series

For single and two-phase duct heaters

For three-phase duct heaters

EKR 6.1



- ▶ **EKR 6.1** is a PWM controller for electric heater control.
- ▶ Has a built in and a possibility to connect a duct mounted sensor to control supplied, or room temperature.
- ▶ Setpoint can be chosen 0...30°C or 0...60°C.
- ▶ Operation modes are chosen with help of jumpers.
- ▶ When working by room air temperature supply air temperature MIN,MAX values must be set with help of potentiometers inside the controller.
- ▶ Timer (NIGHT FUNCTION) – possibility to reduce heating setpoint at night up to 10°C with externally connected timer.

Type	Controlled load [kW]	Max. controlled current [A]	Voltage [V]
EKR6.1	3,2/230V 6,4/400V	16	1x230/2x400

EKR 15.1
EKR 15.1P



EKR 30
EKR 30P



- ▶ **EKR15.1, EKR30** are PWM controllers for electric heaters.
- ▶ **EKR15.1P, EKR30P** are PWM controllers for multistep (up to 5 steps) electric heaters
- ▶ Setpoint can be chosen 0...30°C or 0...60°C
- ▶ Operation modes are chosen with a help of jumpers.
- ▶ When working by room air temperature. (external potentiometer with NTC sensor must be used) Supplied air temperature MIN, MAX must be set with a help of potentiometers inside the controller.
- ▶ Timer (NIGHT FUNCTION) – possibility to reduce heating setpoint at night up to 10°C with externally connected timer.
- ▶ All above mentioned controllers can be controlled by external 0...10V signal. In this case temperature must be measured and heating demand is determined by external controller.
- ▶ There are two ways to control additional steps: **Binary or Sequential**.
- ▶ **EKR 15.1P**
 - Using Sequential code for step control each step must be equal. 15kw+15kw+15kw+15kw. Total controlled load 75kw.
 - Using Binary code for step control each step must be twice bigger than previous one. 15kw+30kw+60kw+120kw. Total controlled load 240kw.
- ▶ **EKR 30P**
 - Using Sequential code for step control each step must be equal. 30kw+30kw+30kw+30kw. Total controlled load 150kw.
 - Using Binary code for step control each step must be twice bigger than previous one. 30kw+60kw+120kw+240kw. Total controlled load 480kw.

Type	Controlled load [kW]	Relay output	Voltage [V]	Max load
EKR15.1	(9) 15	1x5A/230V	(3x230) 3x400	30kw
EKR15.1P	(9) 15	4x5A/230V	(3x230) 3x400	240kw
EKR30	(18) 30	1x5A/230V	(3x230) 3x400	60kw
EKR30P	(18) 30	4x5A/230V	(3x230) 3x400	480kw

CWH

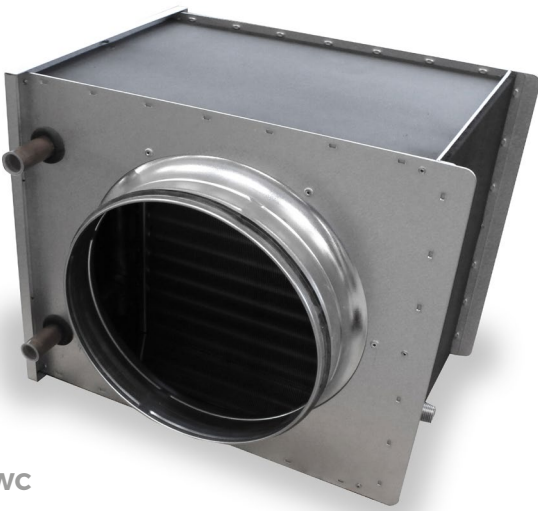
Circular Water Heater

CWC

Circular Water Cooler



CWH



CWC

- ▶ 6 standard sizes
- ▶ Hot water coil with 2 or 3* tube rows
- ▶ Duct connection with rubber seals
- ▶ Air tightness class D to EN 15727
- ▶ Removable cover for inspection and cleaning
- ▶ Aluzinc coated steel casing, AZ 150



- ▶ Max operating temperature: +110 C°
- ▶ Max operating pressure: 1.0 MPa (10 bar)
- ▶ The coils are tested for leakage

CWH size table, 2 and 3* tube rows, Ø in mm	
CWH 100-2	CWH 100-3
CWH 125-2	CWH 125-3
CWH 160-2	CWH 160-3
CWH 200-2	CWH 200-3
CWH 250-2	CWH 250-3
CWH 315-2	CWH 315-3
CWH 400-2	CWH 400-3

* 3 tube rows made from hydrophilic aluminum



Selection software is available



- ▶ 6 standard sizes
- ▶ 3 tube rows, made from hydrophilic aluminum
- ▶ Stainless steel condensate tray
- ▶ Duct connection with rubber seals;
- ▶ Air tightness class D to EN 15727
- ▶ Removable cover for inspection and cleaning
- ▶ Aluzinc coated steel casing, AZ 150

- ▶ Max operating temperature: +110 C°
- ▶ Max operating pressure: 1.0 MPa (10 bar)
- ▶ The coils are tested for leakage

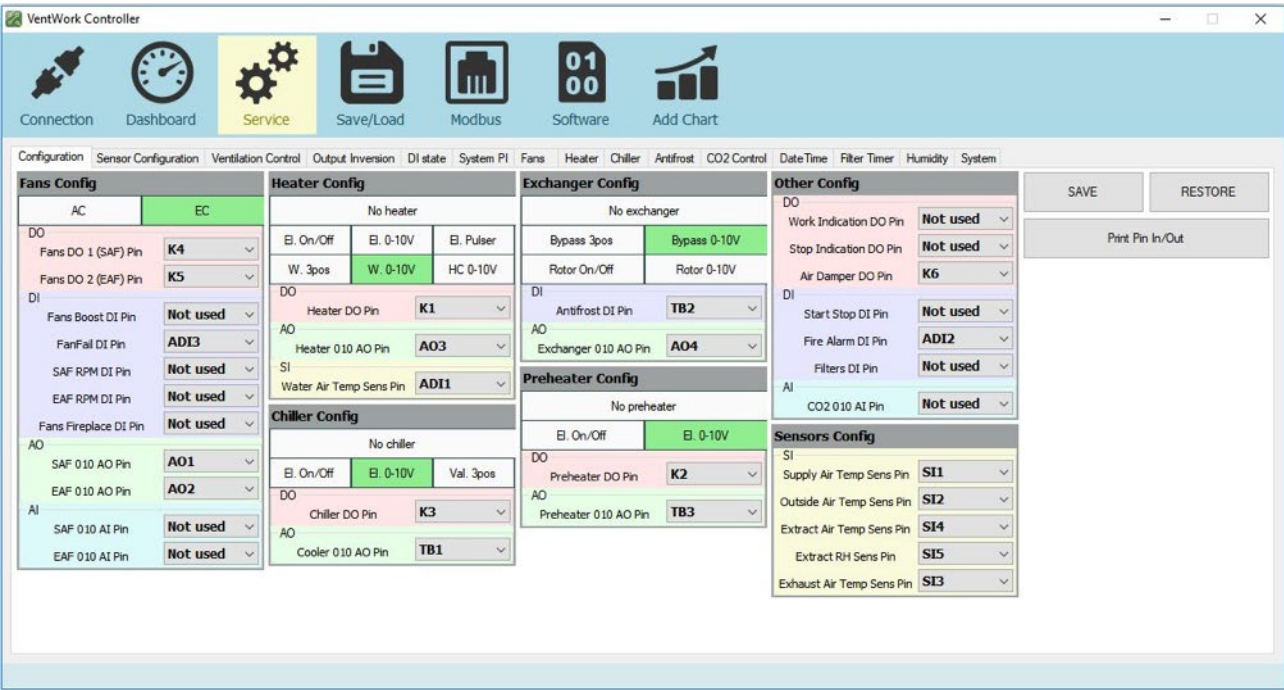
CWC size table, 3 rows, Ø in mm:	
CWC 100-3	
CWC 125-3	
CWC 160-3	
CWC 200-3	
CWC 250-3	
CWC 315-3	
CWC 400-3	



Selection software is available

VentWork Controller software

- ▶ Easily connect a ReguLite or ReguLar controller to your computer via USB using our software “VentWork Controller”.
- ▶ The software is a great tool for manufacturers, service and end-users of ventilation units.



- ▶ Complete control of Your ventilation unit
- ▶ Create charts for temperature, humidity, CO2, pressure changes. Data is saved for a year.
- ▶ Live state screen
- ▶ Software updates

Controllers ReguLite, ReguLar

Heat recovery and air handling unit controls

- ▶ ReguLite and ReguLar units are meant to control a HRU – heat recovery unit.
- ▶ ReguLite – with only electric heating as an option, it is perfect for small, compact heat recovery units. Possibility to add various accessories of choice makes the controller versatile.
- ▶ ReguLar - can control water and electric heaters. It has more inputs and outputs than ReguLite, which help it satisfy a demand for bigger, more complex and accessory ridden units. Possibility to connect a CO2 sensor, pressure transmitters – can control fan speeds by pressure. With its sleek and compact design it will fit in any unit.
- ▶ Both units have a different amount of inputs and outputs, shown in „Inputs/Outputs Table“. Both have pre-set possible choices for accessory control, which may be manually configured with our PC software „PRV Controller“ and installed to a PCB in a matter of minutes. One controller for all units!

Configuration options for inputs and outputs are listed in next page.

Feature	ReguLite/ReguLar
Ambient temperature	0...50 °C
Relative humidity	Max. 90 % RH
Storage temperature	-20...70 °C
Protection class	IP00



ReguLite

Dimensions, mm:	
ReguLite	125x51x26
ReguLar	159x65x28



ReguLar

Inputs/Outputs Table:	ReguLite	ReguLar
Fixed Outputs	8	4
Configurable Outputs	3	11
Sensor Inputs	4	6
Analog Inputs (0-10v)	3	3
Analog Outputs (0-10v)	4	7
0-3V Inputs (RH trasnmittter)	1	1
Digital Inputs	3	3
Digital Outputs	0	3
Relay Outputs	4(1-16A; 3-5A)	7(2-16A; 5-5A)

Controllers

ReguLite, ReguLar

Configuration options for inputs and outputs

Functions of ReguLite, ReguLar controllers

Both controllers ReguLite and ReguLar have 2 analog outputs(0..10V) for supply air and extract air fans which are not listed here. List contains only inputs and outputs which may be configured by the user to customize the controller to specific HRU with pre-set options.

Analog outputs (0...10V)	Available options
ReguLite - 2 ReguLar - 5	Rotary heat exchanger motor control
	By-pass damper control
	Preheater control
	Heater control
	Water Heater control
	Freon cooler control

Relay outputs	Available options
ReguLite - 4 ReguLar - 7	Rotary heat exchanger motor control(on/off)
	By-pass damper open (3-pos.)
	By-pass damper close (3-pos.)
	Preheater control(on/off)
	Heater control(on/off)
	Freon cooler control(on/off)
	Air damper actuator open
	Fans (system)
	Fault (alarm)

Analog input(0...10V)/ Digital input	Available options
ReguLite - 3 ReguLar - 2 +1(return water temperature sensor)	Start/Stop (NO/NC)
	Boost/Fireplace
	Low fan speed
	Medium fan speed
	High fan speed
	Fire alarm
	Filter pressure switch
	Fan fault
	Fan RPM
	Heater overheating
	Antifrost protection pressure switch
	CO2 sensor
	Pressure sensors - x2
	Return water temperature sensor

- ▶ Three working modes: manual, schedule(+vacation) and stand-by:
 - Manual - controller responds to direct commands from remote controller or ModBus
 - Schedule - controller works according to pre-set schedule, 8 events/day
 - Vacation - set how the unit will work during your vacation
 - Stand-by - the unit is shut down, night cooling and water heater antifrost protection is active
- ▶ Fan control by: percentage(0...100%), pressure:
 - You may assign percentage values to low/medium/high speeds
 - May work with one or two pressure sensors
- ▶ Boost- activated by remote controller or external switch:
 - Boost timer is 0..255min. If set to zero, only switches off manually
- ▶ Humidity level control:
 - Adjusts fan speeds to increase or decrease humidity level inside
- ▶ CO2 level control:
 - Constantly reads CO2 levels, reacts by controlling fan speeds
- ▶ Air dampers - 10s fan start delay lets air dampers open.
- ▶ Filter pollution timer/pressure relay.
- ▶ Fire alarm - NC contacts.
- ▶ Temperature control by: supply air sensor; extract air sensor.
- ▶ Overheating indication for electric heaters.
- ▶ Water heater frost protection:
 - Calculates risk of frost by outside air and return water temperature sensors
- ▶ Water/DX cooling.
- ▶ Heat exchanger control:
 - Plate - 0...10V, 3-position control for by-pass damper
 - Rotor - 0...10V, on/off control for rotor motor
- ▶ Heat exchanger frost protection - 3 stage:
 - Pre-heater control
 - By-Pass control (possible to switch off)
 - Supply air fan motor speed reduction (possible to switch off)
 - Differential pressure switch on heat exchanger for frost risk indication
- ▶ Night Cooling (free cooling) - provides fresh cool air from outside in stand-by mode.
- ▶ Fault log - logs faults, possible to see on remote controller or connected to PC software „PRV Controller“.



- ▶ Ventik is a plug-and-play control system for a simple AHU without heat exchanger with electric or water heater.
- ▶ All components come built in plastic electrical box as shown in picture. Ventik set includes everything required to run the unit.
- ▶ Additional components (e.g.frequency inverter, antifrost thermostat, etc.) can be built inside the unit upon request.

Technical specifications/control options:

Feature	VENTIK-6	VENTIK-15	VENTIK-W
Dimensions, (L x W x H) mm	248x198x106	328x239x129	248x198x106 328x239x129
Controller power supply, VAC	1-230 / 2-400	3-400	1-230
Fan power supply	230VAC, 50Hz		
Fan (AC) control with autotransformer			
Max fan current, A	1,5 / 4	4 / 7	1,5 / 4 / 7
Fan voltage for speed 1, VAC	120		
Fan voltage for speed 2, VAC	170		
Fan voltage for speed 3, VAC	230		
Fan (EC) control with analog 0-10V output (ordered separately)			
Max fan current, A	10		
Fan speed 1, %	20-100		
Fan speed 2, %	20-100		
Fan speed 3, %	20-100		
Fan (AC) control with frequency inverter (ordered separately)			
Max fan current, A	Depending on the fan motor power		
Fan speed 1, %	20-100		
Fan speed 2, %	20-100		
Fan speed 3, %	20-100		
Heater	Electrical		Water
Heater power	3,2kW / 6kW	15kW	-
Heater power supply	1-230VAC / 2-400VAC	3-400VAC	
Heater control signal	PWM	PWM	0-10V
Cooler control signal	-	-	ON/OFF(+24VDC)
Air damper control	ON/OFF 230VAC		

- ▶ Start/stop by remote controller:
 - When switched on, fans turn on after 90 seconds, allowing air dampers to open.
- ▶ Ventik-W „Fan low ON/OFF“ and „Fan type AC/EC“ functions:
 - Fan low ON/OFF“ - when supply air temperature drops down in „Fan low ON“ while heating at 100% capacity - depending on „Fan Type AC/EC“ controller reacts accordingly:
 - Fan type AC - reduces speed by one step and supply air temperature is regulated by water valve actuator;
 - Fan type EC - reduces fan speed gradually while maintaining supply air temperature, water valve actuator fully open;
- ▶ When user switches off the unit, fan runs at low speed for 60 seconds to cool the electric heater, then stops the fan and closes the air damper;
 - Ventik-W version switches off fan and shuts damper immediately.
- ▶ Schedule - schedule function is in remote controllers:
 - RCW - 8 events/day;
 - TPC - 4 events/day.
- ▶ Ventik can control single-phase AC, single and three-phase EC fan motor. Available option to add frequency inverter to control three-phase AC fan motor.
- ▶ Electric heater control(PWM):
 - Single-phase - up to 3.2kW;
 - Two-phase - up to 6kW;
 - Three-phase - up to 15kW.
- ▶ Water heater control.
- ▶ Water heater valve - 0-10V control;
 - Three way water valve actuator power supply - 24VDC;
 - Water circulation pump is controlled by a relay output 230VAC, max. 16A;
 - Return water sensor is connected for heater frost protection.
- ▶ DX cooler control- 24VDC ON/OFF - only available for Ventik-W.
- ▶ Air damper actuator control - 230VAC ON/OFF.
- ▶ Inputs:
 - Fan motor protection - NC contacts intended for connection to fan motor thermo contacts;
 - Protection against overheating of the heater - NC contacts to connect to heaters' thermostat contacts;
 - Fire alarm - NC contacts for connection to fire alarm system;
 - Filter pressure switch - NO contacts for differential pressure switch;
 - Supply air temperature sensor;
 - Return water and outside air temperature sensors for Ventik-W version. Antifrost thermostat by request.
- ▶ ModBus - communication via ModBus RTU, protocol connection RS485.

Control systems and components for AHU

Remote controller 3S

► Simple way to smart control.



3S

Remote controller 3S:

- Capacitive touch screen
- Start-up wizard – personalized comfort in 5 easy steps
- 7 preset modes – including boost and fireplace!
- 24/7 schedule
- Alarm display
- 3 second touch for a manual

Technical data:

Data transfer	RS485 (ModBus RTU)
Diamensions, mm (WxHxL)	138x90x16
Protection class	IP20

Control systems and components for AHU

Remote controller TPC, RCW



TPC

Main screen display and functions:

- Touch screen LCD display
- Manual mode
- Display of alarm signals
- Date and time display

Technical data:

Data transfer mm	RS485
Dimensions (WxHxL)	104x93x17,5
Protection class	IP20



RCW

Main screen display and functions:

- Operation mode setting and display,
- 24/7 schedule
- Display of alarm signals,
- Date and time display,
- Fast button

Technical data:

Data transfer	RS485
Dimmensions	86x86x16
IP class	IP20

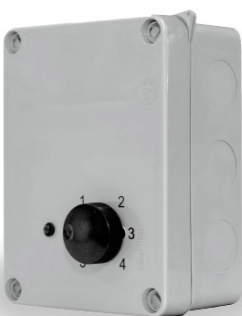
Fan speed controllers

TGRV and TGRV B series

TGRV 2r and TGRT 2r series



TGRV



TGRV B



TGRV 2r



TGRT 2r

Transformer fan speed controllers are designed to change motor rotating speed by changing voltage. Controllers are supplied with power supply fault protection. After power supply failure, controller must be switched OFF and ON to desired step.

Transformer fan speed controllers with 2 knobs for a higher and lower fan speed adjustment. Switching between the high and low settings is done by an external change-over contact, which could be a time relay or other device. The steps are adjusted manually, using the control knobs on the front of the unit. Controller is reset by turning the switch to "0" position for 10 seconds, after which the unit restarts.

Type	Max. Current [A]	Type	Max. Current [A]	Voltage [V]
TGRV 1.5	1.5	TGRV B 1.5	1.5	230V/50Hz
TGRV 2	2.0	TGRV B 2	2.0	230V/50Hz
TGRV 3	3.0	TGRV B 3	3.0	230V/50Hz
TGRV 4	4.0	TGRV B 4	4.0	230V/50Hz
TGRV 5	5.0	TGRV B 5	5.0	230V/50Hz
TGRV 7	7.0	TGRV B 7	7.0	230V/50Hz
TGRV 11	11.0	-	-	230V/50Hz
TGRV 14	14.0	-	-	230V/50Hz

Type	Max. Current [A]	Voltage [V]	Type	Max. Current [A]	Voltage [V]
TGRV 1.5-2r	1.5	230V/50Hz	TGRT 1-2r	1.0	400V/50Hz
TGRV 2-2r	2.0	230V/50Hz	TGRT 2-2r	2.0	400V/50Hz
TGRV 3-2r	3.0	230V/50Hz	TGRT 3-2r	3.0	400V/50Hz
TGRV 4-2r	4.0	230V/50Hz	TGRT 4-2r	4.0	400V/50Hz
TGRV 5-2r	5.0	230V/50Hz	TGRT 5-2r	5.0	400V/50Hz
TGRV 7-2r	7.0	230V/50Hz	TGRT 7-2r	7.0	400V/50Hz
TGRV 11-2r	11.0	230V/50Hz	TGRT 11-2r	11.0	400V/50Hz

TGRV built in full motor protection, re-set is locked through thermal contacts lead out of the motor

TGRV B version without built in thermal contacts

Technical data:

- Input 230V / 50 Hz
- 5 fixed steps: 230V / 170V / 140V / 120V / 80V
- Casing protection rating - IP 44
- Enclosure: Plastic
- Max. ambient temperature +40C
- Auto-transformer completely impregnated with resin, insulation class F(155)
- Voltage indication LED
- Additional connection for servo motor, air dampers and etc 230V / 50Hz, 0,5A

Technical data:

- 2 knobs for different fan speed adjustment
- 5 fixed steps: 230V / 170V / 140V / 120V / 80V (TGRV) • Input 230V / 50 Hz
- 5 fixed steps: 400V / 270V / 220V / 170V / 130V (TGRT) • Input 400V / 50 Hz
- Enclosure: Plastic (TGRT 1-4) / steel sheet, powder coated (TGRT 5-14)
- Max. ambient temperature +40°C
- Auto-transformers completely impregnated with resin, insulation class F(155)
- Voltage indication LED
- Additional connection for servo motor 230V / 50Hz, 0,5A
- Full motor protection, re-set is locked through thermal contacts lead out of the motor

Fan speed controllers

TGRT and TGRT EX series

SGR

TR5K on/off



- ▶ **TGRT** three phase transformer fan speed controller
- ▶ **TGRT EX** three phase transformer fan speed controller version for explosion proof fan motors

Type	Max. Current [A]	Type	Max. Current [A]	Voltage [V]
TGRT 1	1.0	TGRT 1ex	1.0	400V/50Hz
TGRT 2	2.0	TGRT 2ex	2.0	400V/50Hz
TGRT 3	3.0	TGRT 3ex	3.0	400V/50Hz
TGRT 4	4.0	TGRT 4ex	4.0	400V/50Hz
TGRT 5	5.0	TGRT 5ex	5.0	400V/50Hz
TGRT 7	7.0	TGRT 7ex	7.0	400V/50Hz
TGRT 11	11.0	TGRT 11ex	11.0	400V/50Hz
TGRT 14	14.0	TGRT 14ex	14.0	400V/50Hz

- Technical data:**
- Input 400V / 50Hz
 - 5 fixed steps: 400V / 270V / 220V / 170V / 130V
 - Casing protection rating - IP 44
 - Enclosure: Plastic (TGRT 1-4) / steel sheet, powder coated (TGRT 5-14)
 - Max. ambient temperature +40°C
 - Auto-transformers completely impregnated with resin, transformers insulation class F(155)
 - Voltage indication LED
 - Additional connection for servo motor 230V / 50Hz, 0,5A
 - Full motor protection, re-set is locked through thermal contacts lead out of the motor



- ▶ Modern and universal design: flush or surface mounting.
- ▶ **SGR** electronic speed controllers are designed to be used in combination with an electric motor which is suitable for speed control. Several motors (also motors with different ratings) may be connected to one controller. However, the total load of current must not exceed the nominal output current of the controller.

Type	Max. Current [A]	Voltage [V]	Dimensions [mm]	Current fuse A
SGR10	1.0	230V/50Hz	82x60x56	1.25 A-H
SGR15	1.5	230V/50Hz	82x60x56	2.00 A-H
SGR20	2.0	230V/50Hz	82x60x56	2.50 A-H
SGR25	2.5	230V/50Hz	82x60x56	3.25 A-H
SGR40	4.0	230V/50Hz	82x60x56	5.00 A-H

- Casing protection rating - IP 44
- Enclosure: Plastic
- Luminaires of insulation class II
- Max. ambient temperature +35°C

- ▶ **TR5K on/off** is used for EC fan control with 0...10V. On/off switch on casing.

Type	Setpoint range	Output signal	IP Class	Dimensions
TR5K on/off	0...100%	0...10VDC	IP20	71x71x25 mm

Electronic room humidistat HPE, TPE

HPE



Room humidistat is used to measure and control room humidity with help of relay output. Hysteresis can be selected.

Type	IP Class	Relay output	Hysteresis	Range
HPE	IP20	6A/230V	2...10%	0...100%

TPE



Electronic room thermostat is used to control heating or cooling with help of relay output. Temperature can be measured with internal or external sensor. Set point range and hysteresis can be selected.

Type	IP Class	External temp. sensor	Range	Hysteresis	Relay output
TPE	IP20	TJK10K (NTC10K, 10 kΩ at 25 °C)	0...30 °C or 0...60 °C	1...3 °C	6A/230Vac

Pressure transmitter SK2000

SK2000



Pressure transmitter SK2000 is used to measure air pressure difference and convert data to analog 0..10VDC signal output and 0..20mA (load R=250 Ω). Pressure range can be selected : 0-250Pa, 0- 500Pa, 0-1000Pa, or 0-2000Pa.

Type	Power supply	Current consumption	Output	Measurement range	Accuracy	IP Class	Dimensions (LxWxH)
SK2000	15..24VDC/ VAC	MAX 45 mA	0..10VDC and 0..20mA (load R=250 Ω)	0 ... 2000 Pa.	2,5%	IP20	125x82x56

Room temperature transmitter KPT

KPT

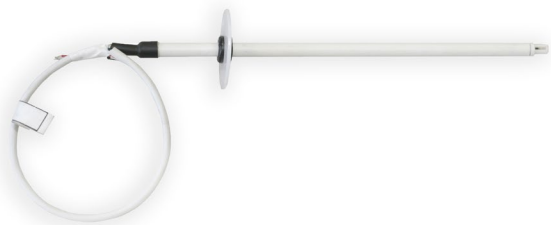


Room temperature transmitter is used for room temperature measurement and data conversion to analogue signal output. Temperature range can be selected 0...30 °C or 0...60 °C. Measurement can be selected with internal or external sensor.

Type	Power supply	Temp. external sensor	Output	Measurement range °C	Accuracy	IP Class
KPT	15...24 VDC	TJK10K (NTC10K, 10 kΩ at 25 °C)	0...10 VDC	0...30 °C or 0...60 °C	0,5 °C	IP20

Temperature sensors TJK

TJK



► Used for air temperature measurement in ventilation system ducts. Duct temperature sensors are delivered with installation flange. Insertion length can be adjusted with flange.

Type	Thermistor	Measurement accuracy	Sensor tube	Length	Diameter	Cable length	IP class
TJK10K	NTC10K (10K @ 25°C) range 30..105°C	± 1°C (NTC10K)	Plastic	200 mm	7,5 mm	1500 mm	IP20
TJK PT1000	PT1000 (1K @ 25°C) range 30..105 °C	± 0.5°C (PT1000)	Plastic	200 mm	7,5 mm	1500 mm	IP20

Temperature sensors TJK

TJP



► Used for surface (water pipe) temperature measurement.

Type	Thermistor	Measurement accuracy	Sensor tube	Length	Diameter	Cable length	IP class
TJP10K	NTC10K (10K @ 25°C) range 30 to 105°C	± 1°C(NTC10K)	Metallic	55 mm	7,5 mm	1500 mm	IP65
TJP PT1000	PT1000 (1K @ 25°C) range 30 to 105 °C	± 0,5°C(PT1000)	Metallic	55 mm	7,5 mm	1500 mm	IP65

Accessories: remote temperature potentiometers for controllers EKR

TR1K, TR5K,
TR1KPT1000, TR5KNTC10

TR1K
TR5K



► Wired remote set points TR5K and TR1K are used for external temperature set point using them together with heating controllers EKR15.1, EKR15.1P, EKR30, EKR30P and electrical heaters type NI.

Type	Potentiometer	Setpoint range	Thermistor	IP Class	Dimensions
TR1K	1KΩ	0..30°C.	IP20	IP20	71x71x25 mm
TR5K	5KΩ	0..30°C.	IP20	IP20	71x71x25 mm

TR5KNTC10
TR1KPT1000



► Wired remote set points TR5KNTC10 and TR1KPT1000 are used for external temperature set-point and temperature measurement using them together with heating controllers EKR15.1, EKR15.1P, EKR30, EKR30P and electrical heaters type NI.

Type	Potentiometer	Setpoint range	Thermistor	IP Class	Dimmensions
TR1KPT100	1KΩ	0..30°C.	PT1000 (1000Ω at 25°C)	IP20	71x71x25 mm
TR5KNTC10	5KΩ	0..30°C.	NTC10K (10KΩ at 25°C)	IP20	71x71x25 mm



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