



CALOR SRL

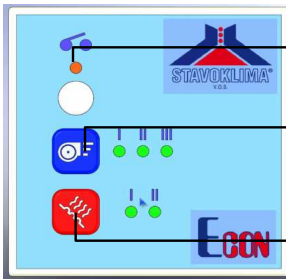
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REGULATOR AND SYSTEM DESCRIPTION



Regulator Econ is intended for air curtains control eventually other air conditioning units. The regulator is intended only for wall mounting for basic environment without a humidity.



Indicator of activated door switch or external switch

Button for fan switch

Button for heating switch

Technical conditions for the regulator running:

max. environment temperature 10-35°C / degree of protection IP 20

running voltage of the regulator 10V DC

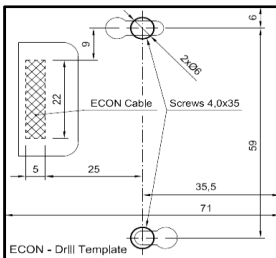
running unit voltage 230V(400V) - 50Hz (if not ordered differently)

REGULATOR UNPACKING, MOUNTING

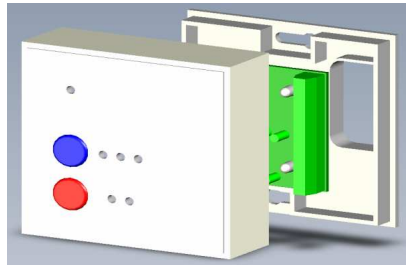


The regulator Econ is delivered as a set with the user manual and mounting accessories (connectors, screws). Firstly check the correctness of the cable, afterwards demount the plastic cover from the regulator front and consequently the small screw. Enclose the lower part of the regulator on the wall into the required mounting position and pass through the cable. Drill the holes $\varnothing 4$ for connectors and fit the connectors with screws and fasten the regulator rectangularly on the wall. Connect the cable according to the wiring diagram on the right terminals. Then connect the flat cable on the cover of the regulator box. Finish the assembly with covering up of the box, screw up the cap screw and blinder.

pic. 1 - model



pic. 2 - placement of the controller on the wall



Attention !!! Before regulator connection (connection under voltage) check the rightness of all cables in the unit electronic. Also check the rightness of the preliminary element according to the project documentation.



FAN

Regulator Econ is intended for water heated or electro units. With the button "Fan" you choose the fan speed 0-3. In state "0" = OFF - there is no signalisation of green LED FAN. Pushing the button will cause speed change in higher speed grade up to max. fan speed 3. Further push of the button change it to "0". Then again to fan speed "1" etc.



UNITS WITH ELECTRO HEAT EXCHANGER

Electro heater can't be running without a fan. Electro heater can be switched on in any grade. Grade "I" = 50% of capacity, grade "II" = 100% of capacity (*according to the type, the heater can be only as 1-grade). If the heating is in first grade without a fan run, the fan starts to run automatically in first grade (this is valid only for the first heating grade. In reality as first starts to run the fan and the heating afterwards with delay. That means first heating grade = at least first fan grade or higher). If the heating is in second grade without a fan run, the fan starts to run automatically in third grade (in reality as first starts to run the fan and the heating afterwards with delay, that means first heating grade = at least first fan grade or higher). If the fan is switched from higher grade into first grade, the heating is switched over automatically also into first grade (if it was in second grade). The heater runs only under the condition, that the contact for thermostat in unit electronic is connected or there is a bridge.



UNITS WITH WATER HEATED HEAT EXCHANGERS

The heating grades are controlled only via relay "heating 1 grade" in pulse:

0 = outlet switched OFF

1gr. = outlet is cycling, 2 minutes ON, 2 minutes OFF; cca 50% of capacity

2gr. = outlet ON. 100% of capacity.

The heating can be controlled independently also without fan run, when switched off there is no fan delay. Use always for connection the gear without tension opened! The heater runs only under the condition, that the contact for thermostat in unit electronic is connected or there is a bridge.



DOOR - SWITCH

Door switch allows to switch on the fan, without connected door switch you can't run the fan or change the speed grades.

If the fan was ON earlier and the door switch goes OFF, the fan will switch OFF after 30 seconds from the setted speed grade. If the door switch goes ON again, the fan starts to run in the setted speed grade. If together with the fan was earlier switched ON also the heating, so the heating will switch OFF immediately after door switch will be OFF and the fan with time delay of 60 seconds (this is valid for the electro version). Signalisation of the door switch in the position OFF on the regulator = symbol of contact blinks yellow LED. This is valid only if the fan grade was setted before and the grade was higher than "0". If you don't want to run the unit with this contact, then it is necessary to make a bridge on the terminals for this contact.



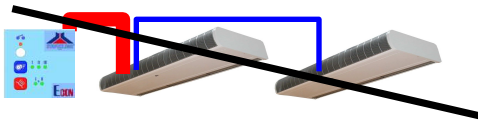
THERMOSTAT

Thermostat allows to switch ON the heating, without connected thermostat you can't run the heating or change the grades. The heating is switched ON via thermostat only if the fan is running (this is valid for the electro version). If the heating was switched ON earlier and the thermostat goes OFF, the heating goes OFF immediately (this is valid for the electro version). Thermostat is connected on the terminals of the regulator.

MASTER-SLAVE SYSTEM



Regulators Econ don't support the possibility of chaining other parallel units.



SAFETY NOTICE

All electrical work should be carried out in accordance with current regulations in given country and according to ČSN 12 2002 and other linked rules. At any service intervention the unit must be disconnect. Connection and earthing of electric unit or its parts has to correspond especially with ČSN 332190, 332000-5-51, 33 2000-5-54. All electrical investigations must be performed by a qualified electrician according to the notice §6 ČBU No.50/78 law.

Electro investigations must be performed by a qualified person according to ČSN 34 3205 and notice No. 50-51/1979 law. Electro connections make exactly according to the delivered wiring diagrams. Don't forget to do the corresponding protective earthing. Always think over the suitability of recommended cable connections with regard to fire section of the building, protective distance, fuse and stage of the building electro installation.

Do all connections of prepared cables to the grips according to the applied electro documentation, afterwards check the connections, earthing and finally switching on the power supply.



SERVICE - BRIEFLY

Before all maintenance on the unit it is necessary to switch off the power supply. Current injury danger.

Corresponding wiring diagram you will find in the unit. Wiring diagram for individual delivered product is valid, but it can be modified as optional or from production causes according to the specified request.

Mounting and all electrical investigations must be performed by a qualified electrician according to the notice §6 ČBU No.50/78 law or according to the valid regulations and normatives in given country. Also the medium connection must be performed by a qualified company.

If the regulator Econ will be eventually damaged, it is not necessary to disconnect the unit. Disconnect only the current supply of the unit and demount the regulator from the wall. Afterwards disconnect the cable connector and make the reverse connection. If the electronic is eventually damaged, it is always necessary to disconnect all voltage. Demounting of the control unit you can make after disconnection of all wires and earth wires.

Make inquiries at the producer or distributor about the servicing contract. You will achieve by this a regular service and a perfect care of your bought unit.

All the units are tested and carefully checked by the producer before the expedition. The most common faults come from misunderstandings of the function or wrong connection. That's why keep exactly the producer regulations, you will prevent a difficult faults searching. Don't try to run the unit under different connections - the unit can run in a short-time as you want and expect, but this may cause irreversible losses and damages. There is no guarantee due to this operation.