



BASIC FEATURES

AirGENIO BASIC EC controller is designed to control the air curtains and heating units with electric or water coils, using manual heating control and manual stepless fan speed control. Controller allows to connect up to two external switches (one to affecting the heat and one to affecting the fan speed)

The control unit shall be installed in dry indoor areas with an ambient temperature of +5°C up to + 40 °C and relative humidity of up to 90%. The electric IP rating of the controller is IP20.

PRIMARY PARAMETERS

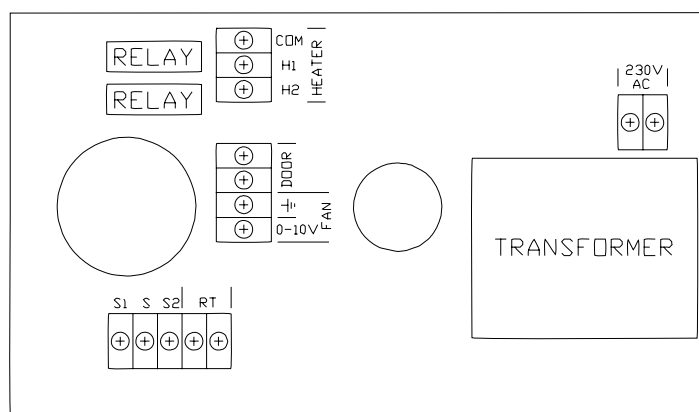
Type	Controller power supply [V/Hz]	Fans*	Max. control output current [mA]	Fan control [VDC]	Heater control [V]	Electrical protection [IP]
AGBA1-M-ECx-xx-S0	230 / 50~60	25	10	0-10	-	20
AGBA1-M-ECx-xx-V1	230 / 50~60	25	10	0-10	1x 230	20
AGBA1-M-ECx-xx-E2	230 / 50~60	25	10	0-10	2x 230	20

* Maximum number of connected EC fans to one control unit

** When designing, it is necessary to take into account the length of the control signal line due to voltage drop

**Description of AirGENIO BASIC EC control**

- Control EC motors by stepless 0-10V output
- Control the power of the heating in range OFF/1st stage/2nd stage, by potential free relay outputs with maximum load of relay 230V/5A.
NOTE: Not available for ambient version of controller
- Connect door contact or external switch (turning OFF whole product after contact opening)
- Connect the room thermostat (turn OFF the heater after contact opening) - NOTE: Not available for ambient version of controller

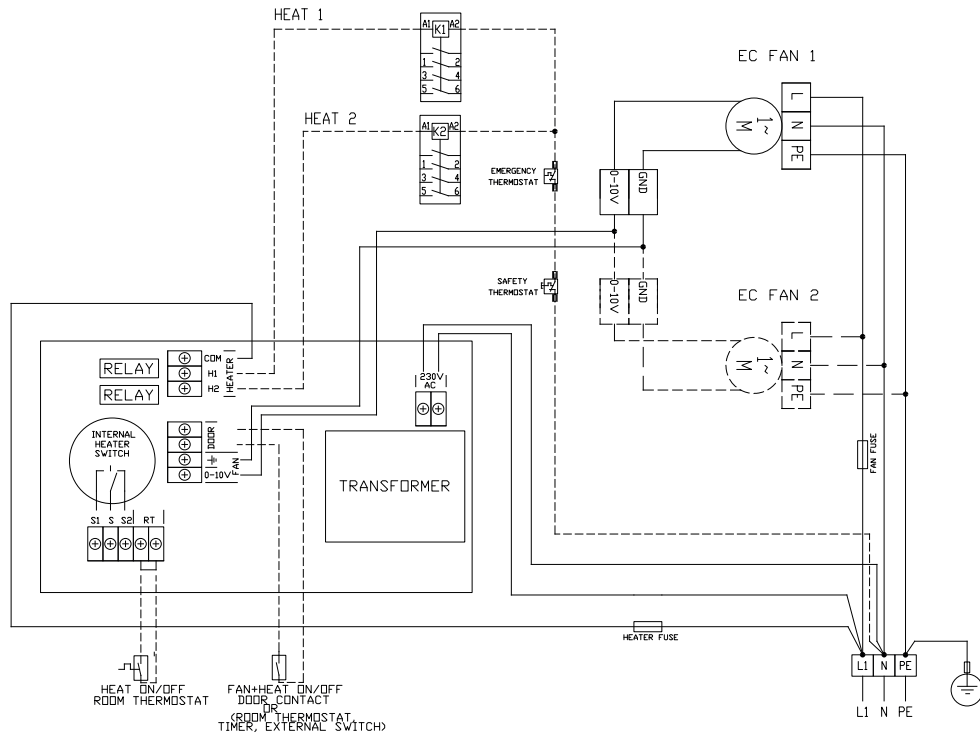


Terminal	Functionality	Description
S1	INPUT FOR INTERNAL HEAT SWITCH OF CONTROLLER	SWITCH FOR 1ST HEAT STAGE (FACTORY CONNECTED)
S		COM OF INTERNAL HEAT SWITCH (FACTORY CONNECTED)
S2		SWITCH FOR 2ND HEAT STAGE (FACTORY CONNECTED)
RT	ROOM THERMOSTAT	DI SWITCHING ON/OFF HEAT OUTPUTS ONLY (FACTORY CONNECTION = EL. BRIDGE)
COM	COM HEATING	INPUT FOR HEAT. CONTROL SIGNAL (MAX. LOAD 230V/5A)
H1	1ST HEATING STAGE	OUTPUT OF 1ST HEATING STAGE
H2	2ND HEATING STAGE	OUTPUT OF 2ND HEATING STAGE
DOOR	DOOR CONTACT (EXT CTRL, ROOM THERMOSTAT)	DI SWITCHING ON/OFF WHOLE CONTROLLER (FAN AND HEATING)
0-10V DC	0-10V FAN SPEED	OUTPUT FOR FAN SPEED CONTROL (MAX. 10PCS)
GND	GND FAN SPEED	
~230V	L - 230VAC	POWER SUPPLY 230V
	N - 230VAC	

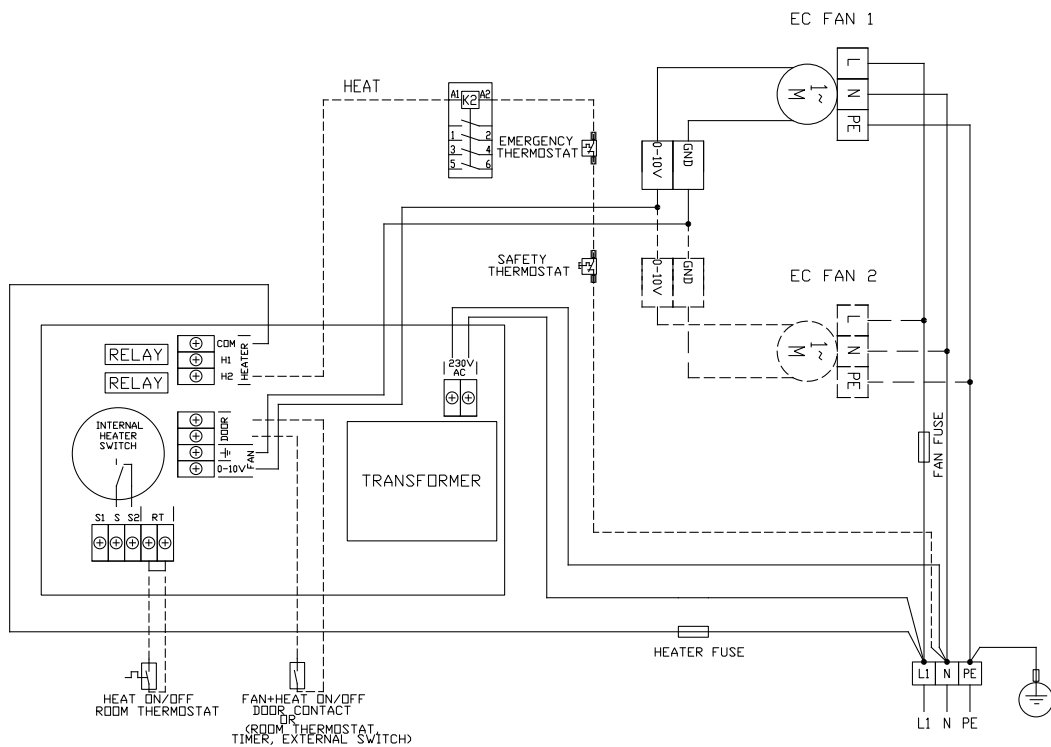


WIRING DIAGRAMS

BASIC EC (AGBA1-M-ECx-xx-E2) with two EC fans and electric heater with two steps of heating:



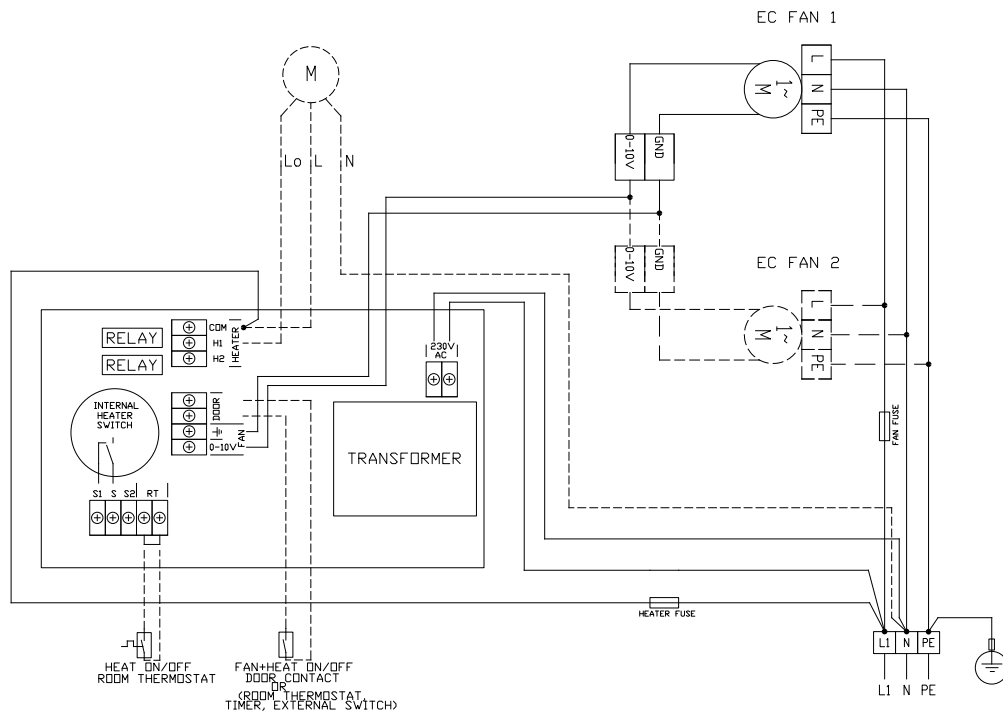
BASIC EC (AGBA1-M-ECx-xx-V1) with two EC fans and electric heater with one steps of heating:



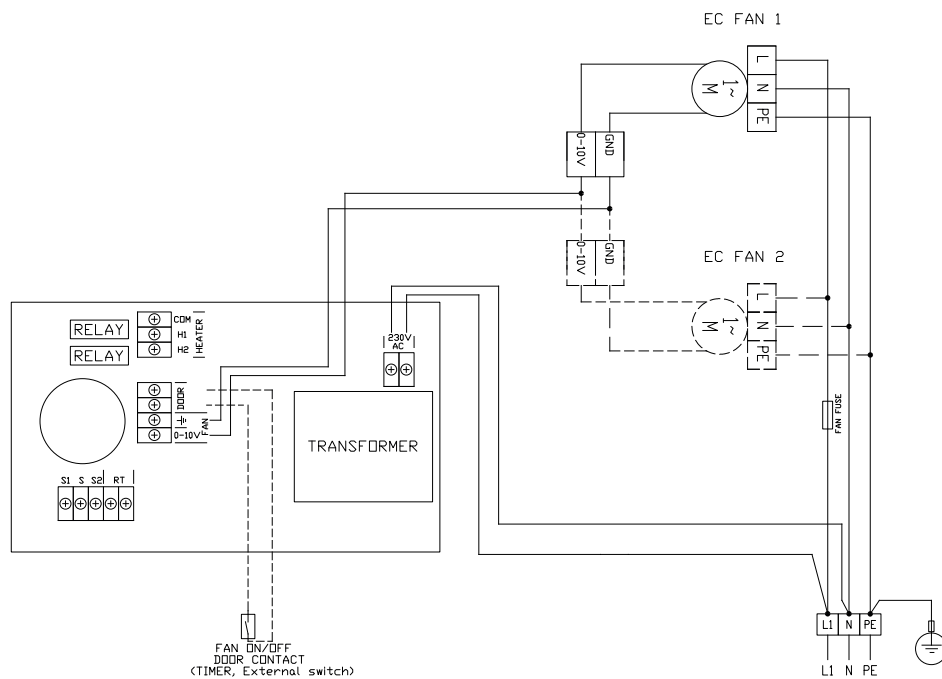


WIRING DIAGRAMS

BASIC EC (AGBA1-M-ECx-xx-V1) with two EC fans and water heater:



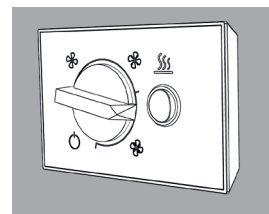
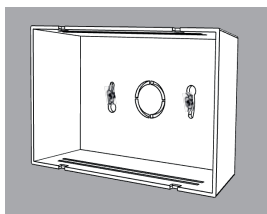
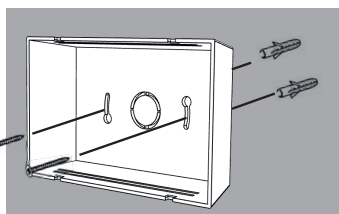
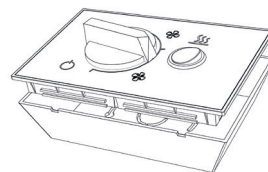
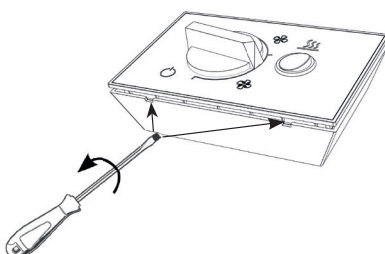
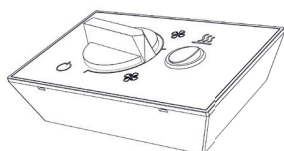
BASIC EC (AGBA1-M-ECx-xx-S0) with two EC fans:



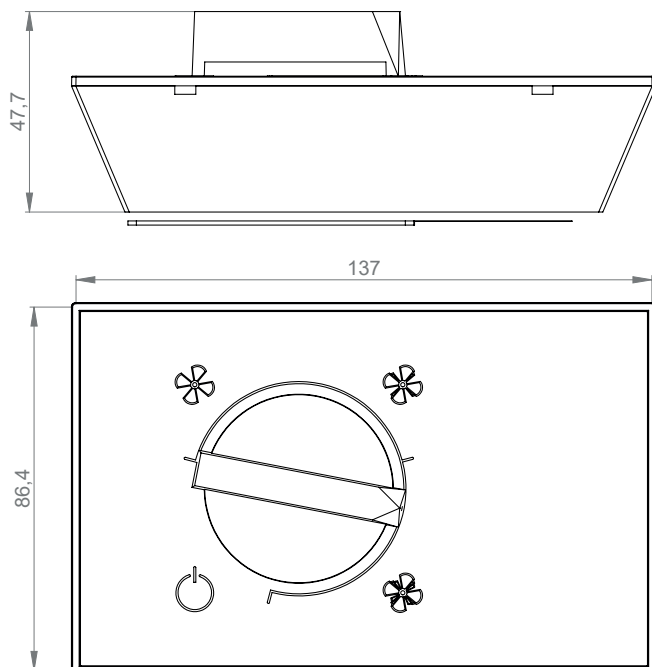


INSTALLATION AND ASSEMBLY

- The controller can only be installed on a wall or on a solid non-portable object.
- The cable must be secured against being pulled out from controller.



DIMENSIONS





ACCESSORIES

More details can be found on the relevant page in catalog

2-way or 3-way valve with servo drive

ZV2-230-xx,x-xx (230V, ON/OFF)

ZV3-230-xx,x-xx (230V, ON/OFF)



3-way valve with servo drive

RTxx – 3-way valve necessary for controlling the water heater output.



Contactor

STYKAC-20-LC2 – three-phase contactor, 400V, max. resistance load 20 A, necessary for switching electric heaters.



Door contact

DK-B-3



Door switch

DS



Room thermostat

TER-P



KEY TO CODING

AGBA1-M-ECx-xx-V1-0A0

S0 - Without heating

V1 - Water heating (ON/OFF)

E2 - Electric heating (2steps)

EC - For EC fans

AGBA1-M - BASIC EC control unit