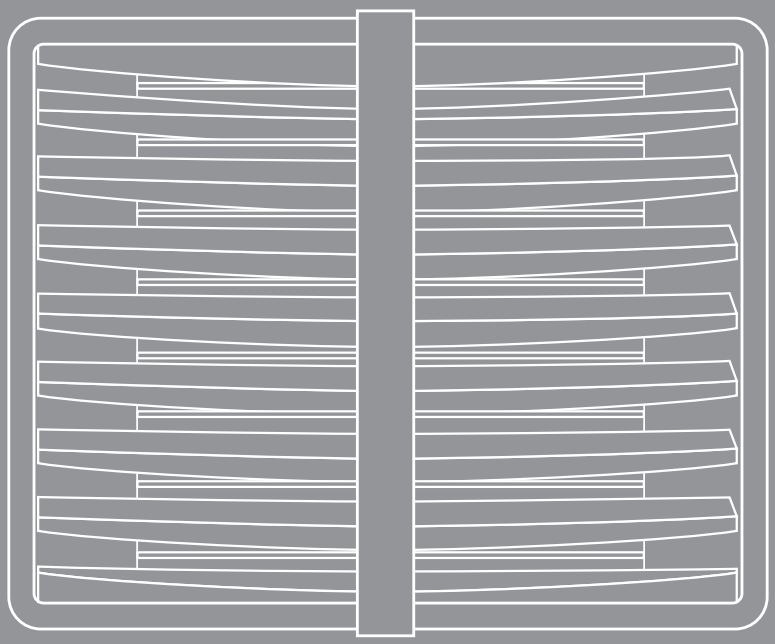
Solano® Eco

Smith's
A Swan Group Company

Installation, commissioning and user manual



Unit heater

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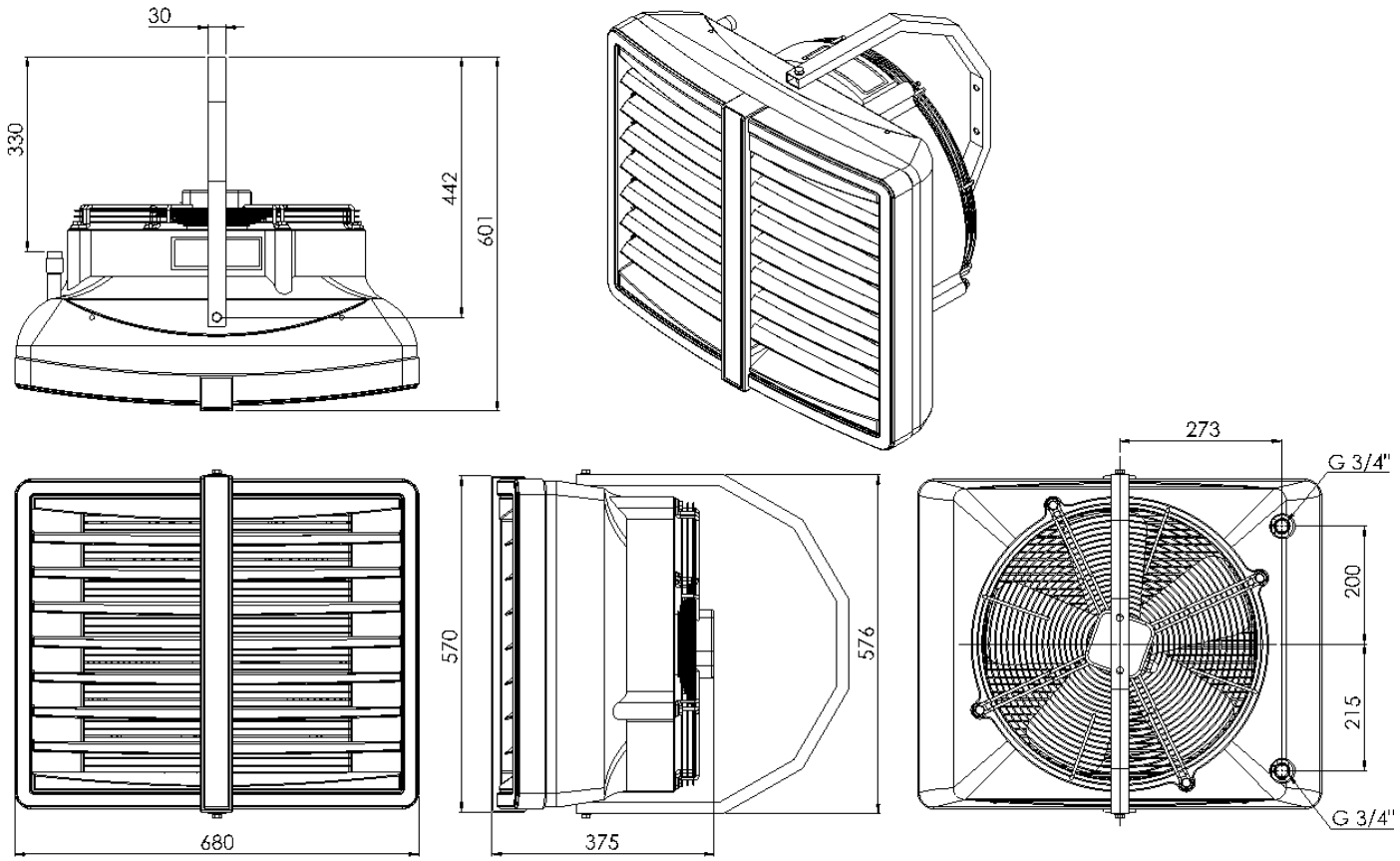
Contents

1. Overall information

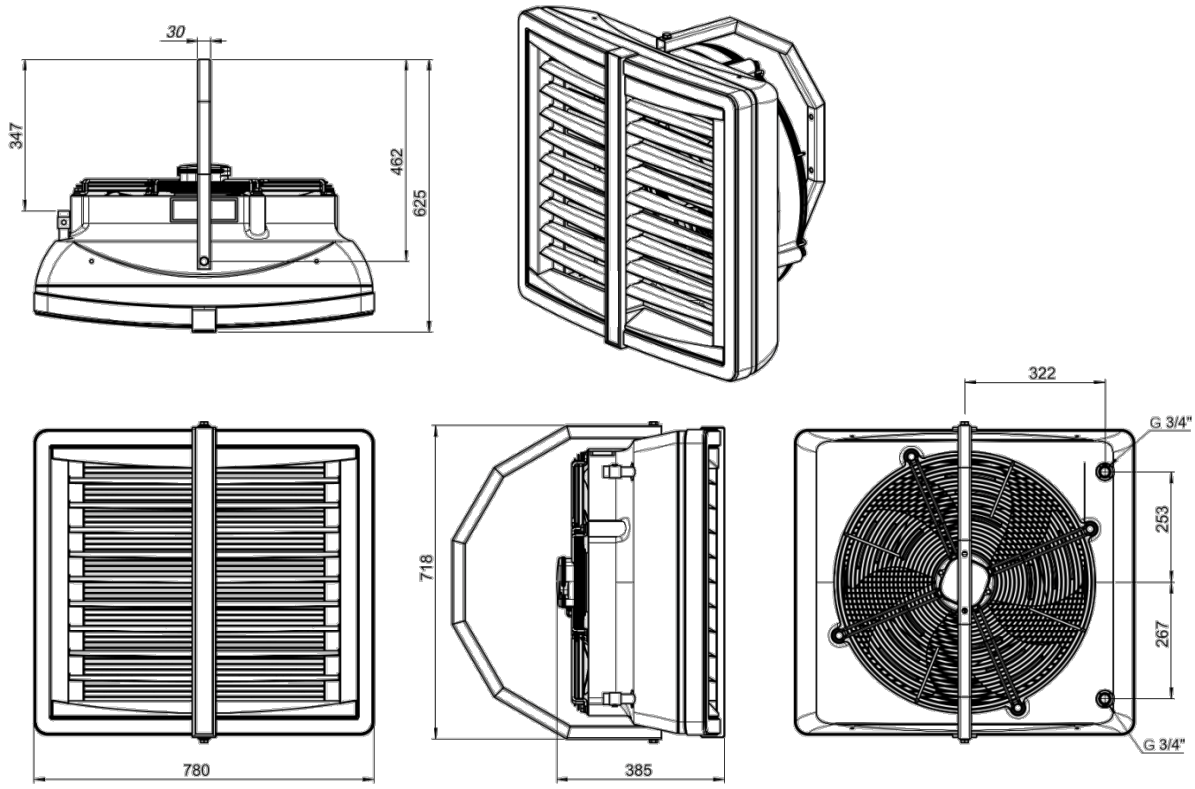
SOLANO ECO heating and ventilation units are designed for use in small and medium sized indoor spaces, such as production halls, warehouses, car showrooms, service stations, sports halls, sacral buildings and churches, retail stores and wholesale outlets, agricultural facilities and exhibition spaces. SOLANO ECO is a special, dedicated solution for low water temperature heat sources in addition to more traditional heat sources. The main advantages of SOLANO ECO are that warm air generated by the low temperature water supplied to the unit by maximising the coil surface with a new design of coil construction (enhanced fins size, lower space between fins) and optimised airflow exhaust – in effect high air exhaust temperature generated on every fan speed.

2. Dimensions

Solano Eco 1, 2, 3 and Mix 1



Solano Eco Max 1, 2, 3 and Mix 2



Elements of the Solano devices

- Casing made of highly resistant EPP (expended polypropylene) material
- Regulated louvres
- 3 step axial fan 350 mm, 450 mm or 550mm dimension; protected from direct access to revolving elements with safety netting
- Heat exchanger – (Cu/AL) made of copper tubes placed in an aluminium lamellar exchanger/block with stub connection ½", ¾". Stub connections are equipped with air-release valves and water agent release

		Heater Eco 1	Heater Eco 2	Heater Eco 3	Heater Eco MAX 1	Heater Eco MAX 2	Heater Eco MAX 3	Heater Eco MIX 1	Heater Eco MIX 2
Heat output range*	kW	10-35	15-50	20-70	25-70	35-95	40-120	-	-
Heat output (90/70°C) / ΔT air temperature increase**	kW/°C	23kW/18°C	39kW/33°C	50kW/48°C	55kW/30°C	74kW/49°C	94kW/60°C	-	-
Heat output (70/50°C) / ΔT air temperature increase**	kW/°C	16kW/13°C	26kW/22°C	35kW/34°C	40kW/22°C	53kW/35°C	68kW/44°C	-	-
Heat output (50/30°C) / ΔT air temperature increase**	kW/°C	9kW/8°C	13kW/11°C	20kW/20°C	25kW/14°C	32kW/21°C	42kW/27°C	-	-
Max air output - III speed	m^3/h	3900	3350	2950	5700	5600	5100	4800	7200
Sound level I/II/III speed****	dB (A)	44/52/62	41/50/60	39/48/60	41/50/59	40/48/58	40/48/58	36/44/54	31/42/49
Number of coil rows	-	1	2	3	2	3	3	-	-
Max working pressure	Mpa	1.6			1.6			-	-
Max airflow range*****	m	24	21	19	26	25	23	13***	16***
Diameter of connection nozzles	inches	3/4"			3/4"			-	-
Power supply	V/Hz A	230/50 1.08A			230/50 2.2A			230/50 1.08A	230/50 2.2A
Motor power	W	250			520			250	520
Motor speed	rpm	1350			1380			1350	1380
Protection class IP	-	IP54			IP54			IP54	
Weight without water/with water	kg	10.8/11.9	12.7/14.8	14.5/16.9	23.6/25.2	25.2/27.4	25.5/28	9.2	15.8

* presented heat output for water agent temperature range 50/30°C – 120-90°C, air inlet temperature 0°C, III speed.
** for air inlet temperature 0°C
*** max height of installation for vertical airflow, max working area 380 m² for HEATER MIX 1 and 450 m² for HEATER MIX 2
**** measured in distance of 5m
***** Horizontal range of isothermal steam at velocity of 0,5m/s

3. General information

SOLANO ECO heating and ventilation units are manufactured in compliance with standards concerning quality, ecology, utility, and work comfort. SOLANO ECO devices are delivered ready to use in a cardboard package to protect from mechanical damage. The package consists of the unit, the Manual (Operation and Maintenance Documentation), and the Guarantee. If the optional automatic control is ordered, it shall be delivered in a separate package. Make sure all the aforementioned elements are in the package immediately after delivery. In the absence of any element, please fill in the suitable carrier documentation.

ATTENTION!

- Before mounting read the manual carefully and adhere to the rules concerning the mounting procedures. Non compliance may result in inappropriate functioning of the device and the loss of the guarantee rights.
- Pay special attention when working with the electrical elements of the unit.
- Any installation operations must be carried out by qualified persons with the appropriate authorisation.

4. Assembly

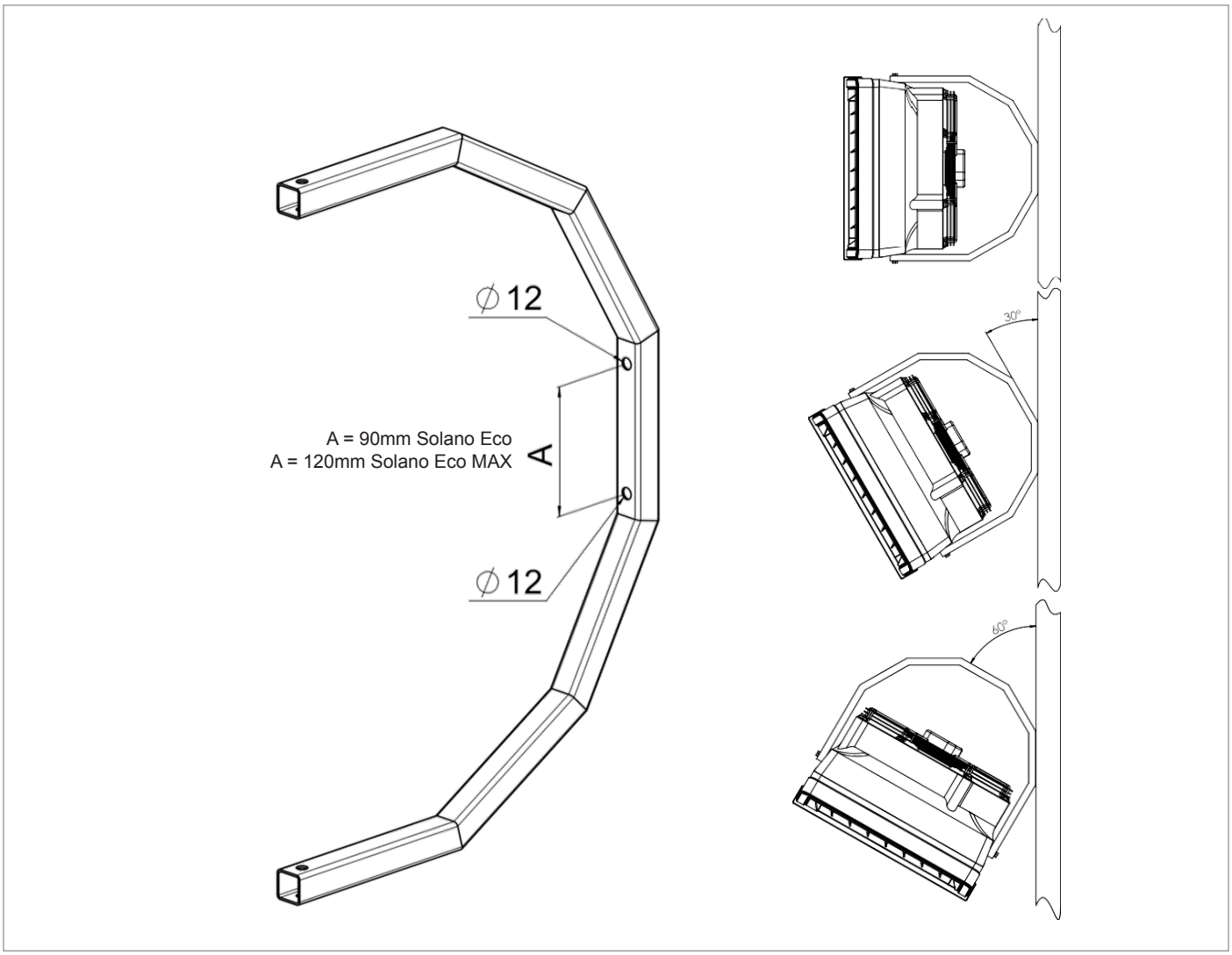
Before starting the installation of the unit, consider the following aspects: easy access for maintenance works, access to water and electrical installation, and appropriate air distribution in a room.

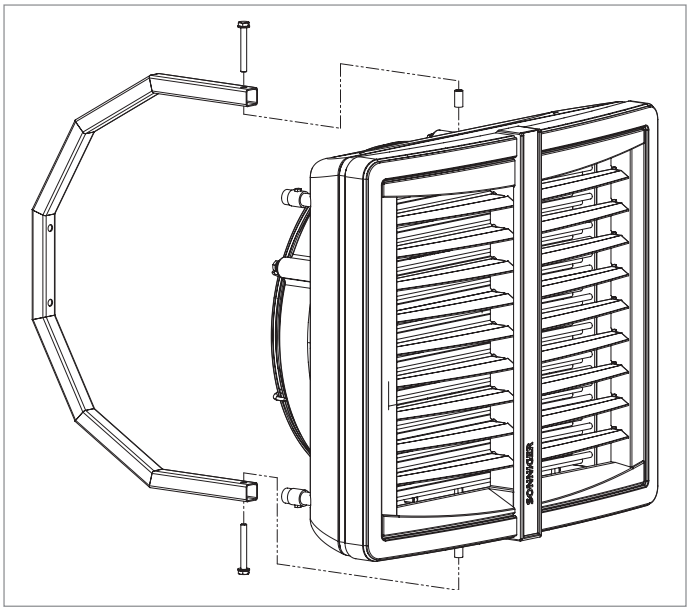
Each SOLANO ECO unit is equipped with a set of 2 interchangeable colour inserts; to change the colour, remove the insert from the front panel and replace with the desired colour insert.

It is advisable to mount the device on the wall or the ceiling on original mounting brackets, supporting mount pins (not delivered with the unit), or supporting brackets (shapes and dimensions of the supporting brackets may be individually designed in compliance with durability and strength requirements).

In case of mounting on the ceiling, pay attention to the fact that air-release/venting of the unit may be difficult so it is advisable to place the vent at the highest point of the pipework.

The unit may be mounted on the wall with the use of a mounting bracket at an angle of 0°, 30°, or 60°. The mounting bracket has a curved profile with two holes for vertical assembly. Assembly on the wall and/or to the ceiling is possible at different angles but it requires making additional necessary holes in the holder.





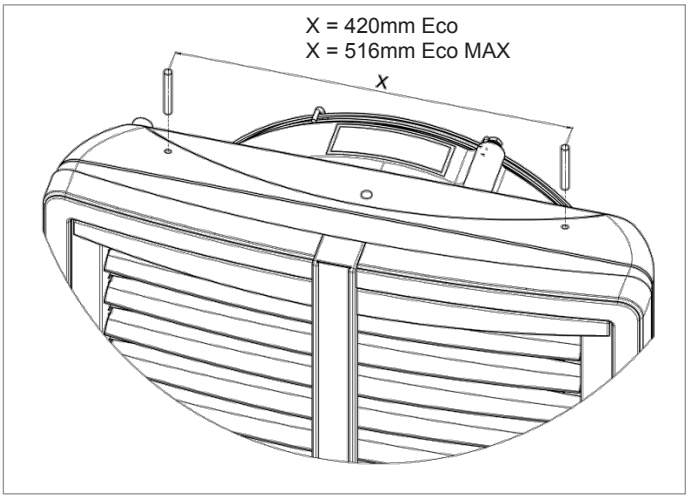
Mounting bracket to the Solano

The bracket set consists of: a holder, two sleeves, two M8 screws and washers.

To mount the bracket, drill two Ø12-13mm holes in locations visibly marked on the casing.

Insert sleeves into drilled holes and insert the bracket.

The included holder must be screwed with M8 screws and washers.



Installation of mounting pins

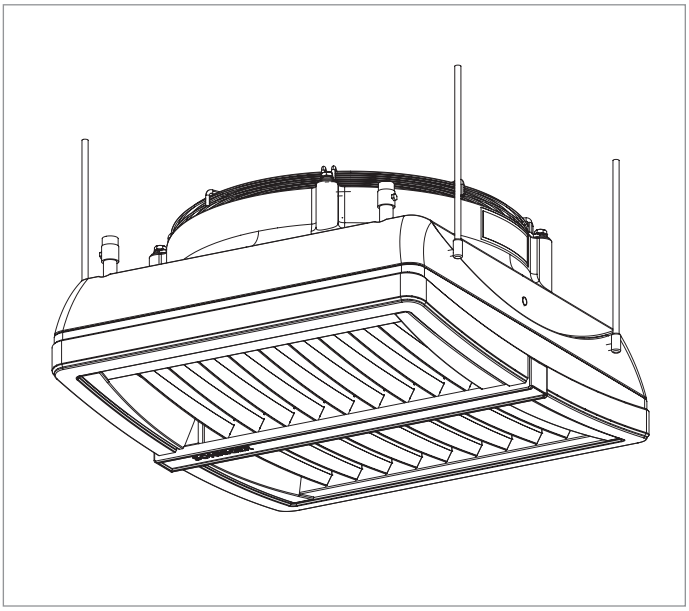
To mount the heater on the ceiling, use M8 mounting pins.

Drill two Ø8-9mm holes in locations visibly marked on the casing.

Mounting pins may be screwed into the frame not deeper than 20 mm

ATTENTION!

- While drilling the holes in marked places be careful not to damage the coil by going deeper than 20mm!



Assembly of Solano MIX air mixer

To mount SOLANO MIX air mixer onto the ceiling, use M8 mounting pins.

Drill two Ø8-9mm holes in locations visibly marked on the casing.

Mounting pins may be screwed into the frame of the heat exchanger to the maximum depth of 20 mm.

Mounting pins and connecting elements are not included with the unit.

NOTICE!

- To ensure that the unit operates correctly maintain at least a 200mm gap to the sides of the unit and a 300mm gap to the rear (from the fan) of the unit.

5. Electrical installation

The electrical installation and connection to the power supply must be done in compliance with the current regulations and standards for the building industry.

The fan motor is equipped with an internal temperature limit fuse protecting it from overheating.

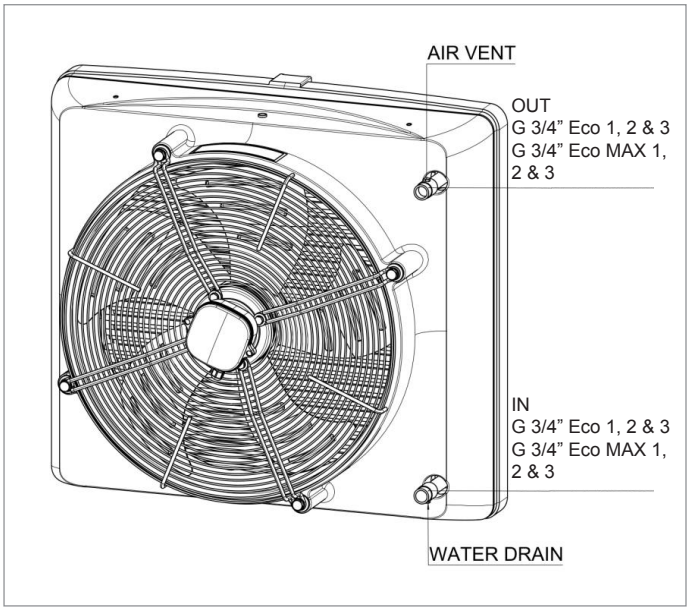
The unit set does not consist of: an electrical supply cable, or a master switch (see diagram)

The electrical installation must be done by an authorised person, in conjunction with the installation and operating manual. The connection of the electrical supply cable and master switch must be done in compliance with the electrical diagram (with or without the automatic control, depending on the option chosen). Any damages incurred as a result of the aforementioned causes are not provided with the Guarantee and the user will be charged with any costs to replace the unit. Connection of the automatic control should be carried out in accordance with the electrical diagram.

If the unit does not operate or if any assistance is required, disconnect the unit and connect Smith's Environmental Products.

6. Water installation

The installation of the unit should be done so that maintenance and servicing of the unit can be undertaken. Manual isolating valves should be installed on both stub pipes. The flow and return supply to/from the heater shall be connected following the symbols/marking on the casing (inlet/outlet). For the electromagnetic valve (with the option of the automatic control), it should be installed on the outlet pipe to avoid any potential damage. When the pipework is being connected to the exchanger, ensure that they are not over tightened, and that they are secured to prevent damaging the heat exchanger.



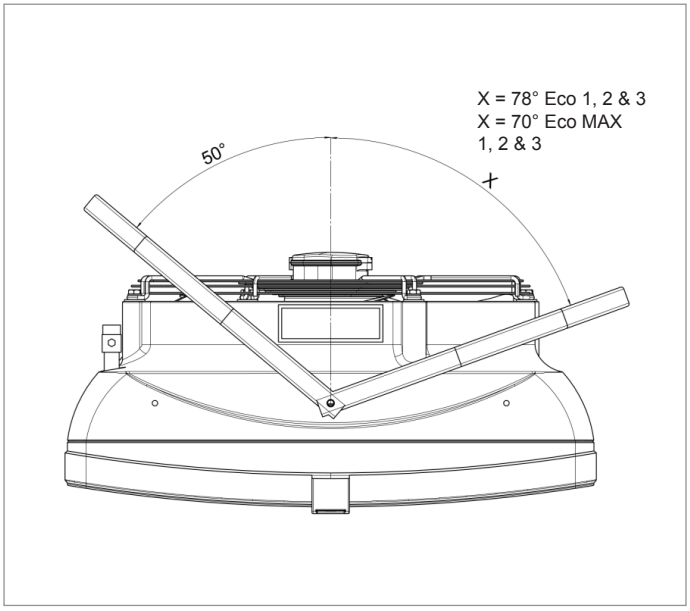
Connecting the heating medium

The connection ports are located at the rear of the unit.

When connecting hydraulic connections, the ports must be secured against torque.

It is also prohibited to load the ports with the weight of the pipeline.

The heating medium drain is located on the supply connector, while the vent is located on the return connector.



Use flexible connections to allow the heater to be rotated. Depending on the flexible connections, the maximum turn

is 70° - for SOLANO ECO MAX, 78° - for SOLANO ECO 1, 2, 3, to both sides.

Figure shows maximum angle to one side and 50° to the other with minimal distance left for connections.

7. Automatic control - installation

A set of automatic control may be used (powered 230V) that consists of the following:

- COMFORT NEW panel – including room thermostat and switch for regulation of 3 speeds of the fan. One COMFORT panel may regulate up to 3 pcs of SOLANO ECO 1, 2, 3 units or 2 pcs of SOLANO ECO MAX
- 2-way water valve with actuator; valve should be installed on a return stub of the heater
- INTELLIGENT electronic control panel with an automatic speed controller, weekly program, and BMS communication. One INTELLIGENT panel may regulate up to 2 pcs of SOLANO ECO units or for a single SOLANO ECO MAX Splitter
- MULTI 6 - control up to 6 pcs of SOLANO ECO, SOLANO ECO MAX unit from one COMFORT or INTELLIGENT Panel

The system is ready to start once the connections between the thermostat and the valve actuator are done, 230V power is supplied to the thermostat and the fan's motor is powered by the revs controller.

COMFORT NEW panel description

OFF-I-II-III - on/off switch switch and fan speed regulation

HEAT - the thermostat signals to the actuator and fan, the fan turns off when the set temperature is reached, the valve closes the water supply

FAN - device fan operation according to the thermostat, valves do not operate

COOL - the thermostat signals to the actuator and fan, the device starts to work when the set temperature is reached

8. First start

Check connections (electrical, water and automatic control), check for tightness of all connections done by an installer and air-release/vent the device then start the device in the following sequence:

8.1 Switch on the mains,

8.2 Set the requested speed of fan on the revs controller,

8.3 Set the requested temperature on the thermostat,

The fan operates continuously irrespective of whether the heater's valve is opened or not.

9. Turning off

To switch the device off do the following:

9.1 Set minimum temperature on the thermostat – after 7 seconds valve will be closed and the heating switches off.

9.2 Set the main switch to the "0" position (off); the fan will be switched off and the thermostat will be disconnected.

10. Operation

The motor and fan used in SOLANO ECO units are maintenance-free devices but regular check-ups are advised, especially motor and bearing (the fan's rotor should rotate freely, free from any axial and radial throws and undesired knocks/rattles).

NOTICE!

- In case of any metallic knocks, vibration or increase in sound level check to see if the unit has worked loose on its mounting. Also check that the fan has not become loose within the unit. Contact the installer or Smith's Authorised Service if required.

11. Maintenance

The heat exchanger requires systematical cleaning to remove any dirt and foreign objects. Before the start of the heating period the heat exchanger should be cleaned with compressed air directed at the air outlets; there is no need to dismantle the device. Pay special attention when cleaning the heat exchanger as the fins are delicate and are easily damaged. If fins are bent use a tool specifically designated to carry out such repairs. If the device has not been used for a longer period of time, unplug it before the next use. The heat exchanger is not equipped with any fire protection device. The heat exchanger may be damaged if the room temperature drops below 0°C.

Anti-freeze liquid must be added to the water circulation/system. Anti-freeze liquid must be appropriate for the material used in the unit. The heat exchanger and other elements of the hydraulic system are made from copper. The liquid must be diluted with water according to the solution recommended by the anti-freeze manufacturer.

12. Technical data

Heater Eco 1

inlet/outlet water temperature		water 50/30 °C					water 60/40 °C					water 70/50 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 3900 m³/h (speed 3)																
heat output	kW	8.7	7.1	5.4	3.6	1.7	12.4	10.8	9.3	7.7	6.1	16.0	14.4	12.9	11.3	9.7
outlet air temperature	°C	7.3	10.5	14.2	17.8	21.3	10.2	14.4	18.5	22.7	26.9	12.8	16.9	21.2	25.3	29.4
water flow	m³/h	0.4	0.3	0.2	0.2	0.1	0.5	0.5	0.4	0.3	0.3	0.7	0.6	0.6	0.5	0.4
pressure drop	kPa	2.8	1.9	1.2	0.6	0.2	4.8	3.8	2.9	2.1	1.4	7.1	5.9	4.8	3.8	2.9
Mid speed - Air flow 2500 m³/h (speed 2)																
heat output	kW	6.7	5.5	4.2	2.1	1.5	9.7	8.5	7.2	6.0	4.7	12.5	11.3	10.0	8.8	7.6
outlet air temperature	°C	8.8	11.6	15.0	17.6	21.8	12.4	16.3	20.2	24.1	28.0	15.6	19.5	23.3	27.2	31.1
water flow	m³/h	0.3	0.2	0.2	0.1	0.1	0.4	0.4	0.3	0.3	0.2	0.5	0.5	0.4	0.4	0.3
pressure drop	kPa	1.8	1.2	0.8	0.2	0.1	3.1	2.4	1.9	1.3	0.9	4.6	3.8	3.1	2.5	1.9
Low speed - Air flow 1850 m³/h (speed 1)																
heat output	kW	5.6	4.5	3.4	2.0	1.4	8.1	7.1	6.1	5.0	3.9	10.5	9.5	8.4	7.4	6.4
outlet air temperature	°C	9.9	12.4	15.5	18.2	22.3	14.0	17.8	21.5	25.1	28.6	17.7	21.4	25.1	28.7	32.3
water flow	m³/h	0.3	0.2	0.2	0.1	0.1	0.4	0.3	0.3	0.2	0.2	0.5	0.4	0.4	0.3	0.3
pressure drop	kPa	1.3	0.9	0.5	0.2	0.1	2.3	1.8	1.4	1.0	0.6	3.4	2.8	2.3	1.8	1.4

inlet/outlet water temperature		water 80/60 °C					water 90/70 °C					water 120/90 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 3900 m³/h (speed 3)																
heat output	kW	21.1	19.4	17.6	15.9	14.2	23.0	21.4	19.7	17.9	16.1	37.9	35.9	33.9	31.9	29.9
outlet air temperature	°C	17.2	21.7	26.3	30.8	35.5	18.0	25.8	30.7	35.5	40.3	30.7	36.0	41.3	46.6	51.9
water flow	m³/h	0.8	0.8	0.7	0.6	0.6	0.8	0.8	0.7	0.7	0.6	0.9	0.8	0.8	0.7	0.7
pressure drop	kPa	9.7	8.4	7.1	5.9	4.8	9.7	8.7	7.7	6.8	5.9	9.4	8.5	7.7	6.9	6.1
Mid speed - Air flow 2500 m³/h (speed 2)																
heat output	kW	16.4	15.1	13.8	12.4	11.1	21.0	19.5	18.1	16.6	15.2	29.6	28.0	26.5	24.9	23.4
outlet air temperature	°C	20.9	25.2	29.4	33.7	38.0	25.6	30.1	34.6	39.0	43.6	37.4	42.3	47.3	52.2	57.3
water flow	m³/h	0.7	0.6	0.5	0.5	0.4	0.8	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.5
pressure drop	kPa	6.3	5.4	4.6	3.8	3.1	8.0	7.1	6.2	5.3	4.5	6.0	5.5	4.9	4.4	4.0
Low speed - Air flow 1850 m³/h (speed 1)																
heat output	kW	13.8	12.7	11.6	10.4	9.3	17.6	16.4	15.2	14.0	12.8	24.8	23.5	22.2	20.9	19.6
outlet air temperature	°C	23.6	27.7	31.8	35.8	39.8	29.0	33.2	37.5	41.8	45.9	42.3	47.0	51.8	56.4	61.2
water flow	m³/h	0.5	0.5	0.5	0.4	0.4	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.4
pressure drop	kPa	4.6	3.9	3.3	2.8	2.3	5.9	5.2	4.5	3.9	3.3	4.4	4.0	3.6	3.2	2.9

Heater Eco 2

inlet/outlet water temperature		water 50/30 °C					water 60/40 °C					water 70/50 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 3350 m³/h (speed 3)																
heat output	kW	12.5	10.5	8.4	6.1	2.8	19.6	17.3	15.0	12.6	10.2	26.2	23.7	21.3	18.8	16.3
outlet air temperature	°C	10.7	14.3	16.9	19.5	21.9	16.6	19.0	21.2	23.5	25.8	22.1	24.6	27.1	29.5	32.0
water flow	m³/h	0.7	0.6	0.5	0.3	0.2	1.0	0.8	0.7	0.6	0.5	1.2	1.1	1.0	0.9	0.8
pressure drop	kPa	4.4	3.2	2.1	1.2	0.3	7.2	5.8	4.4	3.3	2.2	10.5	8.8	7.2	5.8	4.5
Mid speed - Air flow 2000 m³/h (speed 2)																
heat output	kW	9.1	7.6	6.0	4.2	2.4	14.2	12.6	10.9	9.2	7.4	19.0	17.2	15.5	13.7	11.9
outlet air temperature	°C	12.9	19.4	21.4	23.0	24.5	20.2	22.1	23.9	25.8	27.7	26.9	28.9	30.9	33.0	35.0
water flow	m³/h	0.5	0.4	0.3	0.2	0.1	0.7	0.6	0.5	0.4	0.4	0.9	0.8	0.7	0.6	0.5
pressure drop	kPa	2.5	1.8	1.2	0.6	0.2	4.1	3.3	2.5	1.9	1.3	5.9	4.9	4.1	3.3	2.6
Low speed - Air flow 1450 m³/h (speed 1)																
heat output	kW	7.3	6.1	4.8	2.9	2.1	11.5	10.2	8.8	7.4	6.0	15.3	13.9	12.5	11.1	9.6
outlet air temperature	°C	14.4	21.0	22.5	22.6	25.5	22.5	24.1	25.8	27.3	28.8	29.9	31.7	33.5	35.2	37.0
water flow	m³/h	0.4	0.3	0.3	0.2	0.1	0.6	0.5	0.4	0.4	0.3	0.7	0.6	0.6	0.5	0.4
pressure drop	kPa	1.7	1.2	0.8	0.3	0.2	2.8	2.2	1.7	1.3	0.9	4.0	3.4	2.8	2.2	1.8

inlet/outlet water temperature		water 80/60 °C					water 90/70 °C					water 120/90 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 3350 m³/h (speed 3)																
heat output	kW	32.5	30.0	27.5	24.9	22.4	39.3	36.7	34.0	31.4	28.8	53.4	50.7	48.0	45.3	42.6
outlet air temperature	°C	27.2	29.7	32.2	34.8	37.3	32.4	35.0	37.6	40.2	42.7	45.0	47.6	50.4	53.1	55.9
water flow	m³/h	1.5	1.3	1.2	1.1	1.0	1.7	1.6	1.5	1.4	1.2	1.5	1.4	1.3	1.3	1.2
pressure drop	kPa	14.1	12.2	10.4	8.8	7.2	18.2	16.0	14.0	12.1	10.4	13.6	12.4	11.2	10.1	9.0
Mid speed - Air flow 2000 m³/h (speed 2)																
heat output	kW	23.5	21.7	19.9	18.1	16.3	28.4	26.5	24.6	22.7	20.9	38.6	36.7	34.8	32.8	30.9
outlet air temperature	°C	32.9	35.0	37.1	39.2	41.3	39.2	41.4	43.5	45.6	47.8	54.5	56.7	59.0	61.2	63.4
water flow	m³/h	1.1	1.0	0.9	0.8	0.7	1.2	1.1	1.1	1.0	0.9	1.1	1.0	1.0	0.9	0.9
pressure drop	kPa	7.9	6.8	5.8	4.9	4.1	10.1	8.9	7.8	6.8	5.8	7.6	6.9	6.3	5.7	5.1
Low speed - Air flow 1450 m³/h (speed 1)																
heat output	kW	19.0	17.5	16.1	14.6	13.2	22.9	21.4	19.9	18.4	16.9	31.2	29.6	28.1	26.5	25.0
outlet air temperature	°C	36.6	38.4	40.2	42.1	43.9	43.5	45.4	47.3	49.2	51.1	60.6	62.5	64.6	66.5	68.4
water flow	m³/h	0.8	0.8	0.7	0.7	0.6	1.0	0.9	0.9	0.8	0.7	0.9	0.8	0.8	0.7	0.7
pressure drop	kPa	5.4	4.7	4.0	3.4	2.8	6.9	6.1	5.3	4.6	4.0	5.2	4.7	4.3	3.9	3.5

12. Technical data

Heater Eco 3

inlet/outlet water temperature		water 50/30 °C					water 60/40 °C					water 70/50 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 2950 m³/h (speed 3)																
heat output	kW	20.0	17.0	14.0	10.8	7.2	27.9	24.8	21.7	18.6	15.3	35.3	32.1	29.0	25.8	22.6
outlet air temperature	°C	20.1	21.5	22.8	24.0	24.9	27.2	28.8	30.2	31.6	33.0	34.2	35.8	37.3	38.7	40.2
water flow	m³/h	1.0	0.9	0.7	0.5	0.4	1.3	1.2	1.0	0.9	0.7	1.7	1.5	1.4	1.2	1.1
pressure drop	kPa	7.9	5.9	4.1	2.6	1.3	12.5	10.1	8.0	6.0	4.3	17.8	15.0	12.5	10.1	8.0
Mid speed - Air flow 1700 m³/h (speed 2)																
heat output	kW	13.5	11.5	9.4	7.2	3.9	18.7	16.7	14.6	12.6	10.4	23.6	21.5	19.5	17.4	15.3
outlet air temperature	°C	23.9	24.8	25.5	26.3	27.0	32.3	33.2	34.2	35.1	35.9	40.4	41.4	42.4	43.4	44.4
water flow	m³/h	0.7	0.6	0.5	0.4	0.2	0.9	0.8	0.7	0.6	0.5	1.1	1.0	0.9	0.8	0.7
pressure drop	kPa	3.9	2.9	2.0	1.3	0.4	6.1	5.0	3.9	3.0	2.1	8.6	7.3	6.1	5.0	3.9
Low speed - Air flow 1200 m³/h (speed 1)																
heat output	kW	10.4	8.8	7.2	5.4	3.4	14.4	12.9	11.3	9.7	8.0	18.1	16.6	15.0	13.4	11.8
outlet air temperature	°C	26.1	27.9	29.6	31.1	32.3	35.2	36.0	36.6	37.1	37.6	44.0	44.7	45.5	46.2	46.9
water flow	m³/h	0.5	0.4	0.4	0.3	0.2	0.7	0.6	0.5	0.5	0.4	0.9	0.8	0.7	0.6	0.6
pressure drop	kPa	2.4	1.8	1.3	0.8	0.3	3.8	3.1	2.5	1.9	1.3	5.4	4.6	3.8	3.1	2.5

inlet/outlet water temperature		water 80/60 °C					water 90/70 °C					water 120/90 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 2950 m³/h (speed 3)																
heat output	kW	42.5	39.4	36.2	33.0	29.8	50.1	46.9	43.6	40.4	37.2	67.1	63.8	60.5	57.2	54.0
outlet air temperature	°C	41.0	42.6	44.1	45.7	47.2	47.9	49.5	51.0	52.6	54.1	63.5	65.0	66.5	68.0	69.5
water flow	m³/h	2.0	1.8	1.7	1.5	1.4	2.3	2.1	2.0	1.9	1.7	2.0	1.9	1.8	1.7	1.6
pressure drop	kPa	23.6	20.5	17.6	14.9	12.4	29.9	26.5	23.3	20.3	17.5	22.5	20.6	18.7	16.9	15.2
Mid speed - Air flow 1700 m³/h (speed 2)																
heat output	kW	28.3	26.3	24.2	22.1	20.0	33.3	31.2	29.1	27.0	24.9	44.7	42.5	40.4	38.2	36.1
outlet air temperature	°C	48.3	49.3	50.4	51.4	52.4	56.2	57.3	58.4	59.4	60.5	74.6	75.6	76.7	77.7	78.7
water flow	m³/h	1.3	1.2	1.1	1.0	0.9	1.5	1.4	1.3	1.2	1.1	1.4	1.3	1.2	1.2	1.1
pressure drop	kPa	11.3	9.9	8.5	7.2	6.1	14.3	12.7	11.2	9.8	8.5	10.8	9.9	9.0	8.2	7.4
Low speed - Air flow 1200 m³/h (speed 1)																
heat output	kW	21.7	20.2	18.6	17.0	15.4	25.5	23.9	22.3	20.7	19.1	34.2	32.6	31.0	29.4	27.8
outlet air temperature	°C	54.2	53.3	54.0	54.8	55.5	60.4	61.1	61.9	62.7	63.4	79.6	80.4	81.2	81.9	82.7
water flow	m³/h	1.0	0.9	0.9	0.8	0.7	1.2	1.1	1.0	0.9	0.9	1.0	1.0	0.9	0.9	0.8
pressure drop	kPa	7.0	6.1	5.3	4.5	3.8	8.8	7.9	6.9	6.1	5.3	6.7	6.1	5.6	5.1	4.6

Heater Eco MAX 1

inlet/outlet water temperature		water 50/30 °C					water 60/40 °C					water 70/50 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 5700 m³/h (speed 3)																
heat output	kW	24.5	20.5	16.5	12.3	7.5	32.2	28.3	24.5	20.6	16.7	39.7	35.9	32.0	28.3	24.5
outlet air temperature	°C	13.7	16.8	19.8	22.7	25.0	18.0	21.1	24.2	27.3	30.2	22.3	25.5	28.6	31.7	34.8
water flow	m³/h	0.8	0.6	0.5	0.4	0.2	1.0	0.9	0.8	0.7	0.5	1.3	1.2	1.0	0.9	0.8
pressure drop	kPa	3.5	2.5	1.7	0.9	0.3	5.8	4.6	3.5	2.6	1.8	8.4	7.0	5.7	4.5	3.5
Mid speed - Air flow 3900 m³/h (speed 2)																
heat output	kW	19.6	16.4	13.1	9.7	4.4	25.7	22.6	19.5	16.5	13.4	31.7	28.6	25.6	22.6	19.6
outlet air temperature	°C	15.9	18.6	21.3	23.7	24.4	20.9	23.7	26.6	29.2	31.8	25.9	28.8	31.6	34.5	37.2
water flow	m³/h	0.9	0.8	0.6	0.5	0.2	1.3	1.1	1.0	0.8	0.7	1.6	1.4	1.3	1.1	1.0
pressure drop	kPa	5.1	3.7	2.5	1.4	0.4	8.5	6.7	5.2	3.8	2.6	12.3	10.2	8.3	6.7	5.1
Low speed - Air flow 2800 m³/h (speed 1)																
heat output	kW	15.9	13.3	10.6	7.7	4.0	20.9	18.4	15.9	13.4	10.8	25.6	23.2	20.7	18.3	15.9
outlet air temperature	°C	18.0	20.4	22.7	24.5	25.4	23.6	26.2	28.7	31.0	33.3	29.2	31.9	34.5	37.0	39.4
water flow	m³/h	0.8	0.6	0.5	0.4	0.2	1.0	0.9	0.8	0.7	0.5	1.3	1.2	1.0	0.9	0.8
pressure drop	kPa	3.5	2.5	1.7	0.9	0.3	5.8	4.6	3.5	2.6	1.8	8.4	7.0	5.7	4.5	3.5

inlet/outlet water temperature		water 80/60 °C					water 90/70 °C					water 120/90 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 5700 m³/h (speed 3)																
heat output	kW	47.5	43.6	39.8	36.0	32.2	55.0	51.1	47.2	43.4	39.6	72.4	68.5	64.5	60.6	56.8
outlet air temperature	°C	26.0	29.2	32.3	35.4	38.4	30.1	33.3	36.4	39.5	42.6	39.3	42.6	45.9	49.1	52.2
water flow	m³/h	1.5	1.4	1.3	1.2	1.0	1.8	1.7	1.5	1.4	1.3	1.6	1.5	1.4	1.3	1.3
pressure drop	kPa	11.3	9.7	8.2	6.8	5.6	14.5	12.7	11.0	9.4	8.0	10.9	9.8	8.8	7.9	7.0
Mid speed - Air flow 3900 m³/h (speed 2)																
heat output	kW	37.8	34.7	31.7	28.7	25.7	43.7	40.6	37.6	34.5	31.5	57.4	54.3	51.1	48.0	45.0
outlet air temperature	°C	30.2	33.1	36.0	38.7	41.5	34.9	37.8	40.7	43.5	46.3	45.8	48.8	51.9	54.8	57.7
water flow	m³/h	1.9	1.8	1.6	1.4	1.3	2.2	2.1	1.9	1.8	1.6	2.0	1.9	1.8	1.7	1.5
pressure drop	kPa	16.6	14.2	12.0	10.0	8.2	21.4	18.7	16.2	13.9	11.8	16.1	14.5	13.0	11.6	10.3
Low speed - Air flow 2800 m³/h (speed 1)																
heat output	kW	30.6	28.1	25.6	23.2	20.8	35.3	32.8	30.4	27.9	25.5	46.5	43.9	41.3	38.9	36.4
outlet air temperature	°C	34.0	36.8	39.3	41.8	44.2	39.3	42.0	44.6	47.1	49.7	51.5	54.5	57.2	59.9	62.5
water flow	m³/h	1.5	1.4	1.3	1.2	1.0	1.8	1.7	1.5	1.4	1.3	1.6	1.5	1.4	1.3	1.3
pressure drop	kPa	11.3	9.7	8.2	6.8	5.6	14.5	12.7	11.0	9.4	8.0	10.9	9.8	8.8	7.9	7.0

12. Technical data

Heater Eco MAX 2

inlet/outlet water temperature		water 50/30 °C					water 60/40 °C					water 70/50 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 5600 m³/h (speed 3)																
heat output	kW	31.9	27.0	22.2	17.2	11.8	41.6	36.8	32.0	27.3	22.5	53.0	48.0	43.1	38.2	33.3
outlet air temperature	°C	20.9	24.8	28.4	31.9	35.1	27.3	31.4	35.5	39.3	43.2	35.0	39.3	43.3	47.4	51.3
water flow	m³/h	1.4	1.2	0.9	0.7	0.5	1.7	1.5	1.3	1.1	0.9	2.2	2.0	1.8	1.6	1.4
pressure drop	kPa	10.5	7.8	5.4	3.4	1.7	15.9	12.7	9.9	7.4	5.2	23.7	19.8	16.3	13.1	10.2
Mid speed - Air flow 3800 m³/h (speed 2)																
heat output	kW	25.3	21.4	17.5	13.5	9.0	32.9	29.1	25.3	21.6	17.8	41.9	37.9	34.0	30.2	26.4
outlet air temperature	°C	24.2	27.6	30.8	33.8	36.0	31.6	35.3	38.9	42.3	45.6	40.4	44.3	47.9	51.5	55.0
water flow	m³/h	1.1	0.9	0.7	0.6	0.4	1.4	1.2	1.1	0.9	0.7	1.7	1.6	1.4	1.3	1.1
pressure drop	kPa	6.9	5.1	3.6	2.2	1.1	10.4	8.3	6.5	4.8	3.4	15.4	12.9	10.6	8.5	6.7
Low speed - Air flow 2750 m³/h (speed 1)																
heat output	kW	20.1	17.3	14.1	10.8	6.1	26.5	23.5	20.4	17.4	14.4	33.7	30.5	27.4	24.3	21.2
outlet air temperature	°C	27.2	30.1	32.8	35.2	35.5	35.5	38.8	41.9	45.1	47.8	45.3	48.8	52.1	55.1	58.2
water flow	m³/h	0.9	0.7	0.6	0.5	0.3	1.1	1.0	0.9	0.7	0.6	1.4	1.3	1.1	1.0	0.9
pressure drop	kPa	4.7	3.5	2.4	1.5	0.5	7.0	5.6	4.4	3.3	2.3	10.4	8.7	7.2	5.8	4.5

inlet/outlet water temperature		water 80/60 °C					water 90/70 °C					water 120/90 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 5600 m³/h (speed 3)																
heat output	kW	61.9	57.0	52.1	47.3	42.5	74.2	69.0	63.9	58.9	53.9	96.6	91.4	86.3	81.2	76.2
outlet air temperature	°C	41.0	45.5	49.9	54.1	58.2	49.1	53.5	57.9	62.2	66.4	63.2	68.1	72.6	77.2	81.8
water flow	m³/h	2.6	2.4	2.2	2.0	1.8	3.1	2.8	2.6	2.4	2.2	2.6	2.5	2.4	2.2	2.1
pressure drop	kPa	30.1	25.9	22.0	18.4	15.2	40.3	35.3	30.7	26.5	22.5	28.9	26.1	23.5	21.0	18.7
Mid speed - Air flow 3800 m³/h (speed 2)																
heat output	kW	48.9	45.0	41.1	37.3	33.5	58.4	54.3	50.3	46.4	42.4	76.2	72.1	68.0	64.0	60.0
outlet air temperature	°C	47.4	51.5	55.4	59.2	62.9	56.5	60.6	64.6	68.4	72.1	72.9	77.4	81.7	85.8	89.8
water flow	m³/h	2.0	1.9	1.7	1.5	1.4	2.4	2.2	2.1	1.9	1.8	2.1	2.0	1.9	1.7	1.6
pressure drop	kPa	19.6	16.8	14.3	12.0	9.9	26.1	22.9	19.9	17.1	14.6	18.7	16.9	15.2	13.6	12.1
Low speed - Air flow 2750 m³/h (speed 1)																
heat output	kW	39.3	36.2	33.1	30.0	27.0	46.9	43.7	40.4	37.2	34.1	61.3	58.0	54.7	51.4	48.2
outlet air temperature	°C	53.2	56.8	60.3	63.7	67.1	63.1	66.8	70.5	73.9	77.3	81.7	85.8	89.7	93.5	97.1
water flow	m³/h	1.6	1.5	1.4	1.2	1.1	1.9	1.8	1.7	1.5	1.4	1.7	1.6	1.5	1.4	1.3
pressure drop	kPa	13.2	11.3	9.6	8.1	6.7	17.5	15.3	13.3	11.5	9.8	12.6	11.4	10.2	9.2	8.1

Heater Eco MAX 3

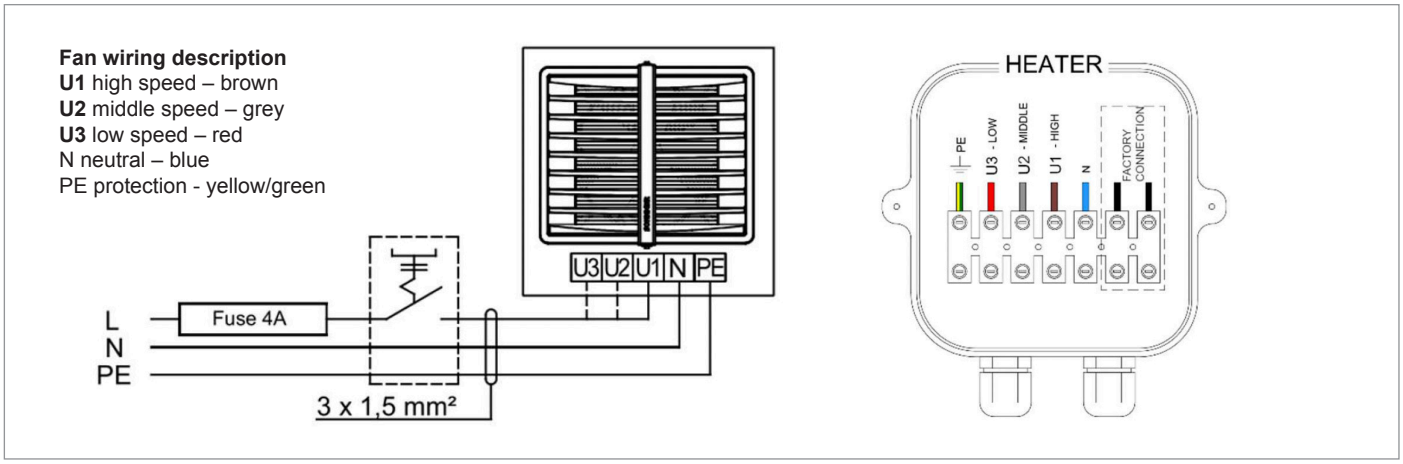
inlet/outlet water temperature		water 50/30 °C					water 60/40 °C					water 70/50 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 5100 m³/h (speed 3)																
heat output	kW	42.1	35.7	29.3	22.9	16.0	54.1	47.9	41.7	35.5	29.3	68.3	61.9	55.5	49.2	42.9
outlet air temperature	°C	26.9	29.8	32.6	35.3	37.6	34.7	38.1	41.2	44.3	47.1	44.1	47.5	50.6	53.8	56.8
water flow	m³/h	1.6	1.4	1.1	0.9	0.6	2.1	1.8	1.6	1.4	1.1	2.6	2.4	2.1	1.9	1.6
pressure drop	kPa	14.3	10.7	7.5	4.8	2.5	21.6	17.3	13.5	10.1	7.2	32.1	26.8	22.0	17.7	13.8
Mid speed - Air flow 3400 m³/h (speed 2)																
heat output	kW	32.3	27.4	22.5	17.5	12.1	41.4	36.7	32.0	27.3	22.5	52.2	47.2	42.4	37.6	32.9
outlet air temperature	°C	30.9	33.3	35.6	37.6	39.0	39.8	42.7	45.4	47.8	50.2	50.5	53.4	56.1	58.7	61.1
water flow	m³/h	1.2	1.1	0.9	0.7	0.5	1.6	1.4	1.2	1.0	0.9	2.0	1.8	1.6	1.4	1.3
pressure drop	kPa	8.9	6.6	4.6	2.9	1.5	13.3	10.7	8.3	6.3	4.4	19.6	16.4	13.5	10.9	8.5
Low speed - Air flow 2400 m³/h (speed 1)																
heat output	kW	25.3	21.5	17.6	13.6	9.0	32.4	28.7	25.0	21.4	17.7	40.7	36.9	33.1	29.4	25.7
outlet air temperature	°C	34.4	36.4	38.1	39.4	39.7	44.4	46.7	49.0	51.0	52.8	56.1	58.4	60.7	62.9	64.9
water flow	m³/h	1.0	0.8	0.7	0.5	0.3	1.2	1.1	1.0	0.8	0.7	1.6	1.4	1.3	1.1	1.0
pressure drop	kPa	5.7	4.2	3.0	1.9	0.9	8.6	6.9	5.4	4.0	2.9	12.5	10.5	8.6	6.9	5.4

inlet/outlet water temperature		water 80/60 °C					water 90/70 °C					water 120/90 °C				
inlet air temperature	**°C**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**	**0**	**5**	**10**	**15**	**20**
High speed - Air flow 5100 m³/h (speed 3)																
heat output	kW	79.5	73.1	66.8	60.6	54.4	93.9	87.3	80.8	74.4	68.0	121.6	115.0	108.4	101.9	95.5
outlet air temperature	°C	51.0	54.5	57.9	61.2	64.5	60.1	63.6	67.0	70.4	73.5	78.0	81.8	85.5	89.2	92.6
water flow	m³/h	3.0	2.8	2.6	2.3	2.1	3.6	3.4	3.1	2.9	2.6	3.1	3.0	2.8	2.6	2.5
pressure drop	kPa	40.8	35.1	29.8	24.9	20.5	54.3	47.5	41.3	35.5	30.2	39.2	35.4	31.8	28.4	25.2
Mid speed - Air flow 3400 m³/h (speed 2)																
heat output	kW	60.6	55.8	51.0	46.2	41.5	71.5	66.4	61.5	56.6	51.7	92.8	87.7	82.6	77.7	72.8
outlet air temperature	°C	58.3	61.3	64.3	67.0	69.8	68.5	71.6	74.5	77.3	80.0	89.1	92.5	95.8	98.9	101.9
water flow	m³/h	2.3	2.1	1.9	1.8	1.6	2.7	2.6	2.4	2.2	2.0	2.4	2.3	2.1	2.0	1.9
pressure drop	kPa	25.0	21.4	18.2	15.3	12.6	33.0	28.9	25.1	21.6	18.3	23.9	21.6	19.4	17.3	15.4
Low speed - Air flow 2400 m³/h (speed 1)																
heat output	kW	47.3	43.5	39.7	36.1	32.4	55.6	51.6	47.8	44.0	40.2	72.3	68.3	64.4	60.5	56.7
outlet air temperature	°C	64.6	67.3	69.8	72.2	74.4	75.8	78.4	81.0	83.4	85.6	98.8	101.8	104.7	107.3	109.9
water flow	m³/h	1.8	1.7	1.5	1.4	1.2	2.1	2.0	1.8	1.7	1.5	1.9	1.8	1.7	1.6	1.5
pressure drop	kPa	15.9	13.6	11.6	9.7	8.0	20.9	18.3	15.9	13.6	11.6	15.2	13.7	12.3	11.0	9.7

13. Electrical connection diagrams

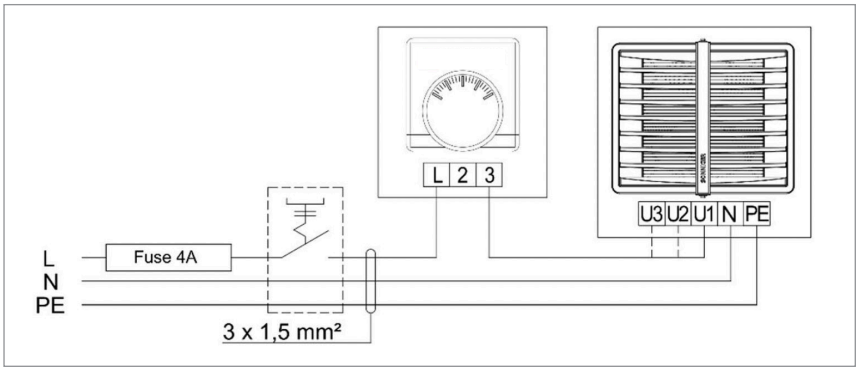
13.1. Connecting SOLANO ECO with no automatic control

* The unit set does not consist of: a master switch, a fuse, an electrical supply cable



13.2. Connecting ECO MIX with TR-010

* The unit set does not consist of: a master switch, a fuse, an electrical supply cable



13.3. Connecting several SOLANO ECO units with COMFORT panel, valves and actuators

* The unit set does not consist of: a master switch, a fuse, an electrical supply cable

One COMFORT panel may regulate up to:

- 3 pcs of SOLANO ECO 1, 2, 3
- 2 pcs of SOLANO ECO MAX

HEAT - the thermostat gives an operation signal to the actuator and fan, the fan turns off when the set temperature is reached, the valve closes the water supply

FAN - device fan operation according to the thermostat, valves do not operate

COOL - the thermostat gives an operation signal to the actuator and fan, the unit starts to work when the set temperature is reached

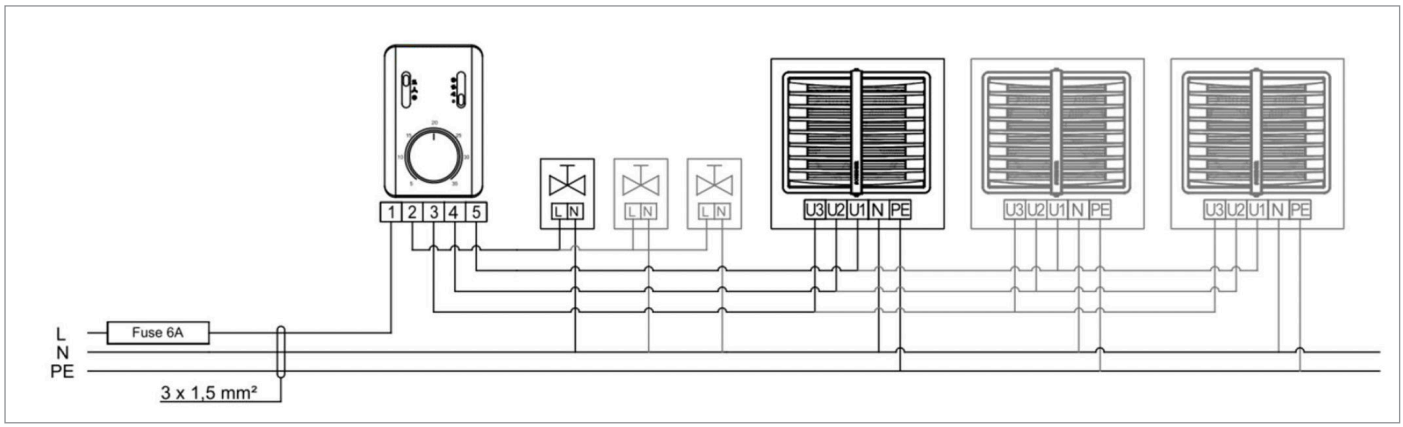
Attention! It is possible to use an additional change of the SR1 to SR1 CONST jumper position, in this case the fan can operate regardless of the thermostat.

Thermostatic operation is only for valves. In this case:

HEAT - fan operation regardless of the thermostat, valves operate up to the set temperature

FAN - device fan operation, regardless of the thermostat, valves do not operate

COOL - fan operation regardless of the thermostat, valves work from the set temperature



13.4. Connecting SOLANO ECO with panel INTELLIGENT WIFI

Panel Intelligent controls actuators/valves and automatically regulates fans' speed depending on the required room temperature.

Fan speed changes automatically at a lower rate when the temperature in a room gets closer to the set temperature.

Additional functions – weekly thermostat, availability of BMS communication signals

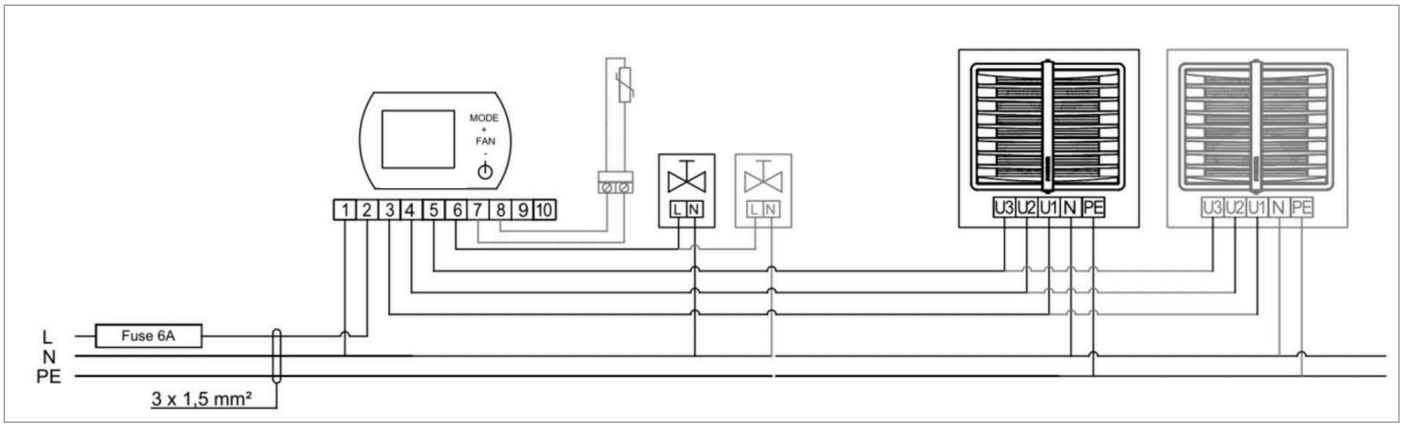
Possibility to connect outside temperature sensor NTC, supplied with cable length 5 m, max cable length 20 m.

For SOLANO ECO MIX1 and MIX2, You can use the INTELLIGENT Panel with sensor NTC and work mode COOL.

One INTELLIGENT panel may regulate:

- up to 2 pcs of SOLANO ECO
- only 1 pcs of SOLANO ECO MAX

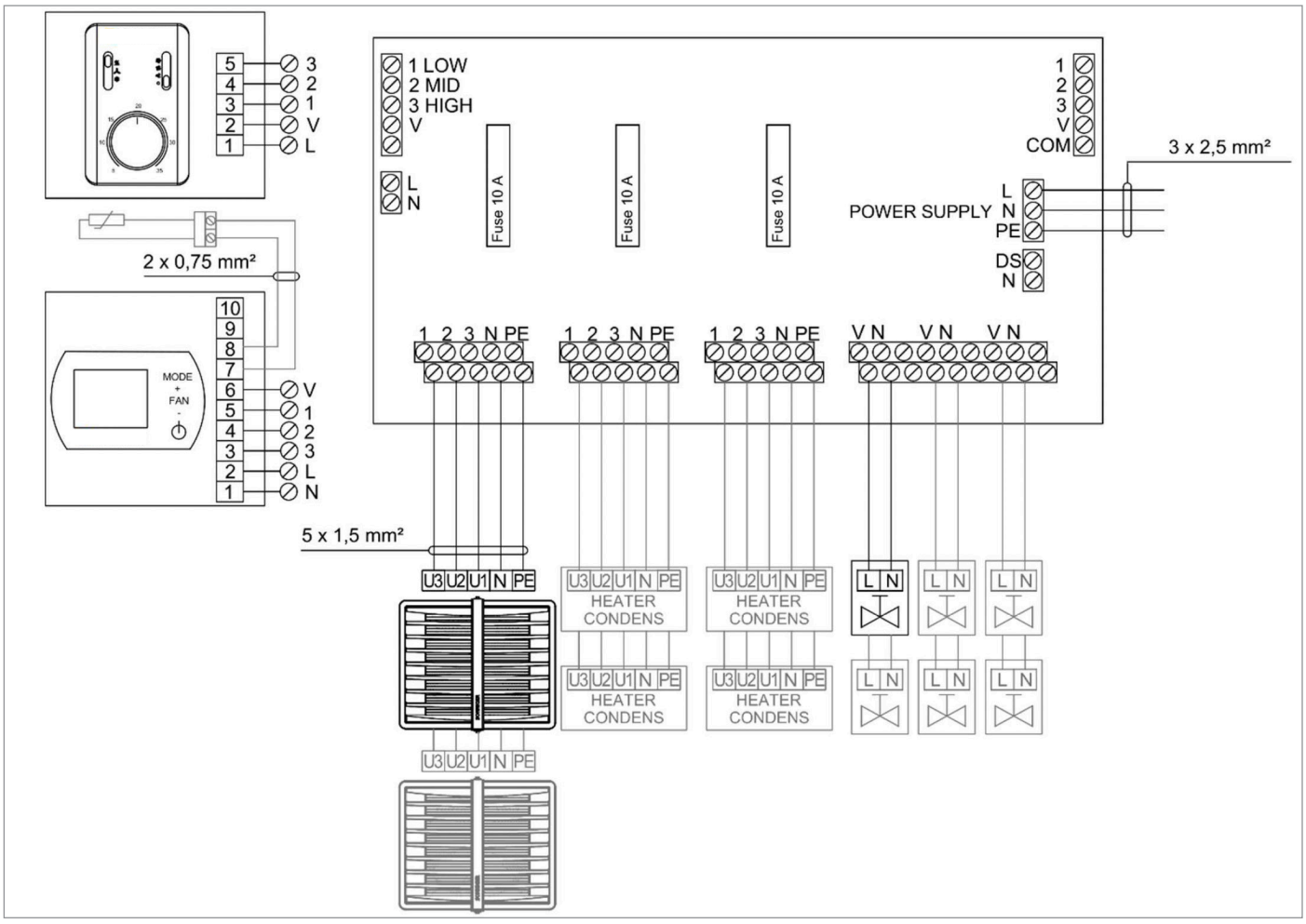
*The unit set does not consist of: a master switch, a fuse, an electrical supply cable



13.5. Splitter MULTI 6 - control up to 6 pieces of SOLANO ECO / SOLANO ECO MAX from one COMFORT or INTELLIGENT Panel

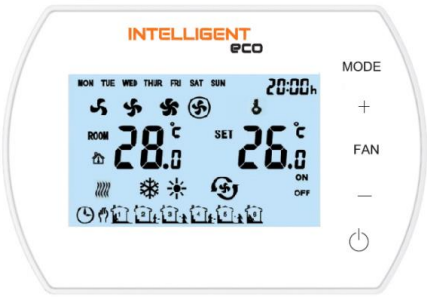
MULTI 6 Splitter allows to connect and control more fan heaters (up to 6/12 pcs.) and valves with actuators (up to 6/12 pcs.). Control of fans and valves is done using COMFORT or INTELLIGENT panel.

To connect more than 6 fans and valves, it is possible to connect Splitter MULTI 6 with each other (maximum extension of up to 10 MULTI 6 splitters). In such case, in the first Splitter MULTI 6 there should be connector DS-N left open, in other Splitters MULTI 6 (2...10) connector DS-N must be closed.



14. Panel intelligent - programmable controller manual

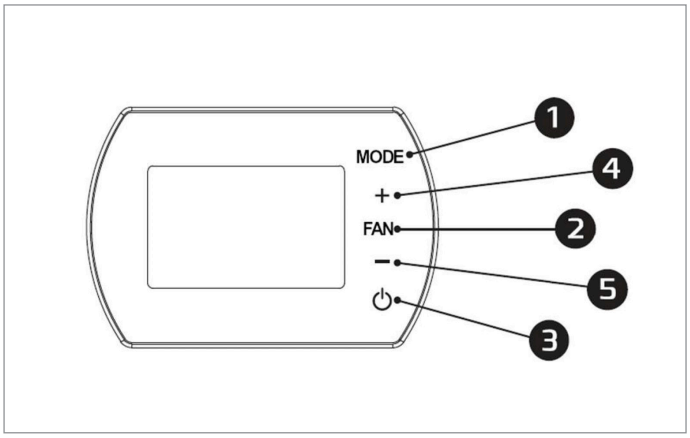
Panel Intelligent WIFI controls actuators/valves and automatically regulates the fan's speed depending on the required room temperature. The lower temperature in the room the higher the air output is set. Fan speed changes automatically at a lower rate when the temperature in a room gets closer to the desired one. Intelligent WIFI allows to manage work of the device via the mobile app TUYA SMART.

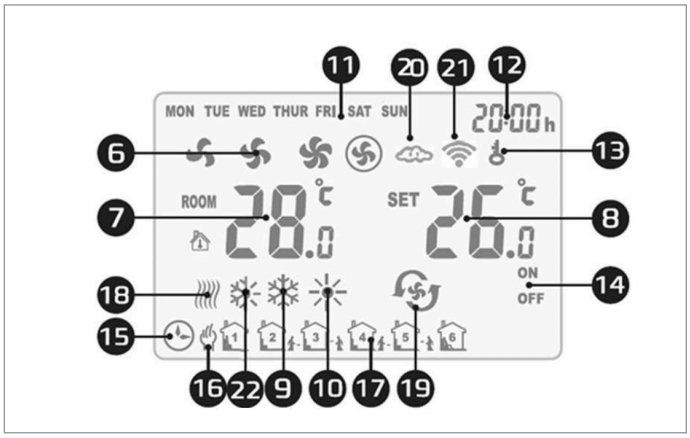


Functions

Panel INTELLINGENT is designed for the Smith's products

- Weekly thermostat (5/1/1 days)
- Automatic or manual 3-step fan speed adjustment.
- Control room temperature (by opening/closing the vale, or by adjusting air volume automatically).
- Antifreeze mode- protection against dropping room temperature below critical level 5 ~ 15 °C.
- Possibility to connect external NTC temperature sensor.
- BMS communication by MODBUS protocol
- Wireless control via TUYA SMART app
- Magnetic switch

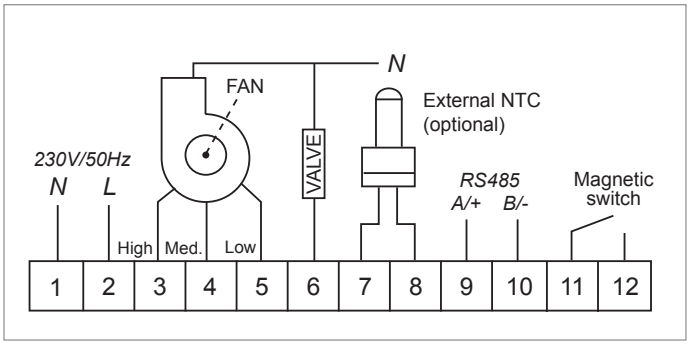




1. MODE - operation mode
2. FAN - fan operation speed
3. ON/OFF - switch
4. + - increase the set temperature
5. -. - decrease the set temperature
6. fan speed
7. room temperature
8. set temperature
9. cooling operation mode
10. operation mode heating
11. day of the week
12. time
13. controller lock
14. on/off in schedule
15. operation according to schedule
16. manual operation
17. schedule operation interval
18. antifreeze mode
19. ventilation mode
20. synchronization of settings with the application
21. connection to the Internet
22. weather mode

Technical parameters

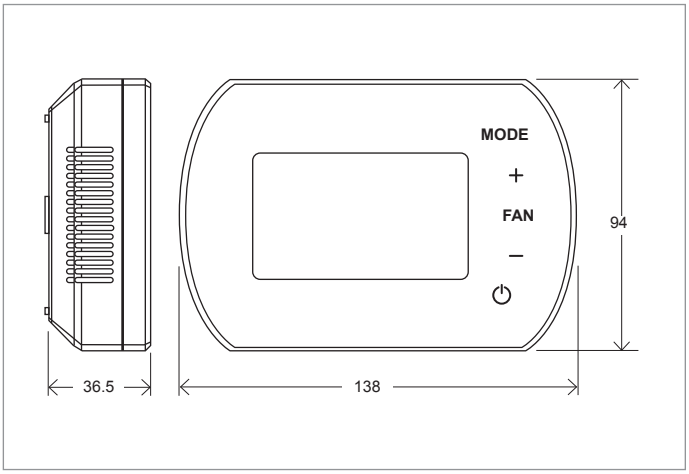
1	Power supply	230VAC/50Hz
2	Temperature setting range	5°C 40°C
3	Temperature working range	-10°C 60°C
4	IP class	20
5	Temperature sensor	Internal/external NTC (optional)



WARNING!

RISK OF ELECRICAL SHOCK. Disconnect power supply before making any electrical connections. Contact with components carrying hazardous voltage can cause electrical shock and may result in severe personal injury

Dimensions



Setting menu

When Panel Intelligent is switched off, press and hold MODE for 5 seconds

To change option use MODE button

To change value use +/- buttons.

Setting menu	Option	Value
1	Temperature calibration	–9°C ~ +9°C
2	Calibration of the temperature of the external sensor	–9°C ~ +9°C
3	Temperature difference built-in/external sensor	0,5~9°C (default 2)
4	EEPROM	0: no memory 1: memory
5	Fan status	C1: Thermostatic mode C2: Continuous mode
6	Temperature sensor	0: Internal Sensor 1: External Sensor NTC (optional)
7	Antifreeze	0: Off 1: On
8	Antifreeze range	+5°C ~ +15°C
9	Consent to operation of magnetic switch	0: not available 1: avaliable
10	Setting the consent to work contact	0: NO 1: NC
11	Speed change function when opening the door	0: available 1: unavailable (default)
12	Working speed high gear	0: Low (default) 1: Average 2: High
13	Working speed in weather mode	0: Low (default) 1: Average 2:High
14	MODBUS	0: not available 1: avaliable
15	BMS speed	0-2400 / 1-9600 / 2-19200
16	MODBUS ID	1~247 (01~F7)

Button lock/unlock

To LOCK buttons press and hold + and then – and hold both of them for 5 seconds
To UNLOCK buttons press and hold + and then – and hold both of them for 5 seconds.

Press MODE

Change on manual mode or automatic mode

Hold MODE for 5 seconds

Change to cool mode heating mode ventilation

Press FAN

Change the fan speed low medium high automatic

Hold FAN for 5 seconds

Manual callendar programming Monday – Friday, Saturday, Sunday 6 settings per day

BMS Functions

- Setting/Reading work parameters
- Work/Stop conditions
- Weekly program
- Temperature
- Fan speed
- Heating, ventilation, cool mode
- Antifreeze mode

No.	Setting	Parameters
1	Working Mode	RS485 Semi-duplex; PC or main controller is master; thermostat is slave
2	Interface	A(+),B(-), 2 wires
3	Baud Rate	0-2400 / 1-9600 / 2-19200
4	Byte	9 bits in total: 8 data bit + 1 stop bit
5	Modbus	RTU Mode
6	Transmission	RTU (Remote Terminal Unit) format (please refer to MOBUS instruction)
7	Thermostat address	1-247: (0 is broadcast address and stand for all thermostat without response)

WIFI Functions

- Setting/Reading work parameters
- Work/Stop conditions
- Weekly program
- Temperature
- Fan speed
- Heating, ventilation, cool mode

Connection of the Panel INTELLIGENT WIFI with the TUYA application

1. Download the Tuya Smart app (available at App Store and Google Play)
2. The Control panel connects to the power supply and device, Panel INTELLIGENT should stay off
3. Turn on the Tuya app and follow the instruction in the app
4. For the connection process, please enable the GPS and Bluetooth in the phone
5. To activate the paring mode in the INTELLIGENT Panel tap twice and hold the "+" symbol for 5 seconds until the "SA" symbol shows on the left side of the screen
6. Choose the „Add device" function, and the app should find the control panel automatically, press the "Add" button, and after completing the configuration process, press "Next" and "Finished"
7. In the absence of the "Add" function, select the "Small devices" tab and the "Thermostat (Wi-Fi)" function. After that enter the data to connect to the selected WiFi network and confirm, and then "Blink slowly".
8. A screen will be displayed with information about searching for a device. After detecting the driver, the connection process is automatic. after completing the configuration process, press "Next" and "Finished"

Registering your product

Thank you for purchasing a Smith's product. It has been designed and manufactured to the highest quality standards to ensure it gives you efficient and trouble-free service for many years. We are committed to achieving the highest standards and our faith is supported by a free parts and labour guarantee with every product.

For more information on the warranty period for this product please visit our website smithsep.co.uk/product-registration/

This gives you the peace of mind that in the unlikely event of product failure, we will repair or replace the product completely free of charge providing the product has been installed, used and maintained in accordance with the instructions. Your statutory rights are not affected by this warranty.

It is important to register as soon as possible online at: smithsep.co.uk/product-registration/.
This will ensure you will receive prompt and efficient service if your product requires attention within the warranty period. If you do not register your product, you will be required to produce proof of purchase prior to receiving service.

For more details please visit our website: SmithsEP.co.uk

SCAN HERE TO REGISTER YOUR PRODUCT

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Products with this symbol (crossed out wheelie bin) cannot be disposed as household waste. Old electrical and electronic equipment must be recycled at a facility capable of handling these products and their waste by-products. If you are purchasing replacement equipment your retailer may offer a 'take back' scheme, or will be able to give details of the nearest approved authorised treatment facility. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

WEEE Registered Code: WEE/ED0093VW

Approved CQS ISO 9001:2015

ISO 14001

After sales and spares

If you experience any problems with the use of your product, please contact our after-sales office +44 (0) 1245 324560.

For product information, customer services or sales support call us on +44 (0) 1245 324900

For the Republic of Ireland, contact MT Agencies on 01 864 3363

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