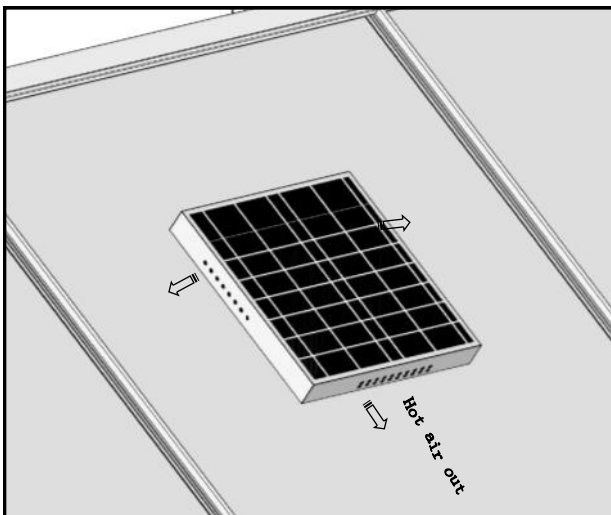
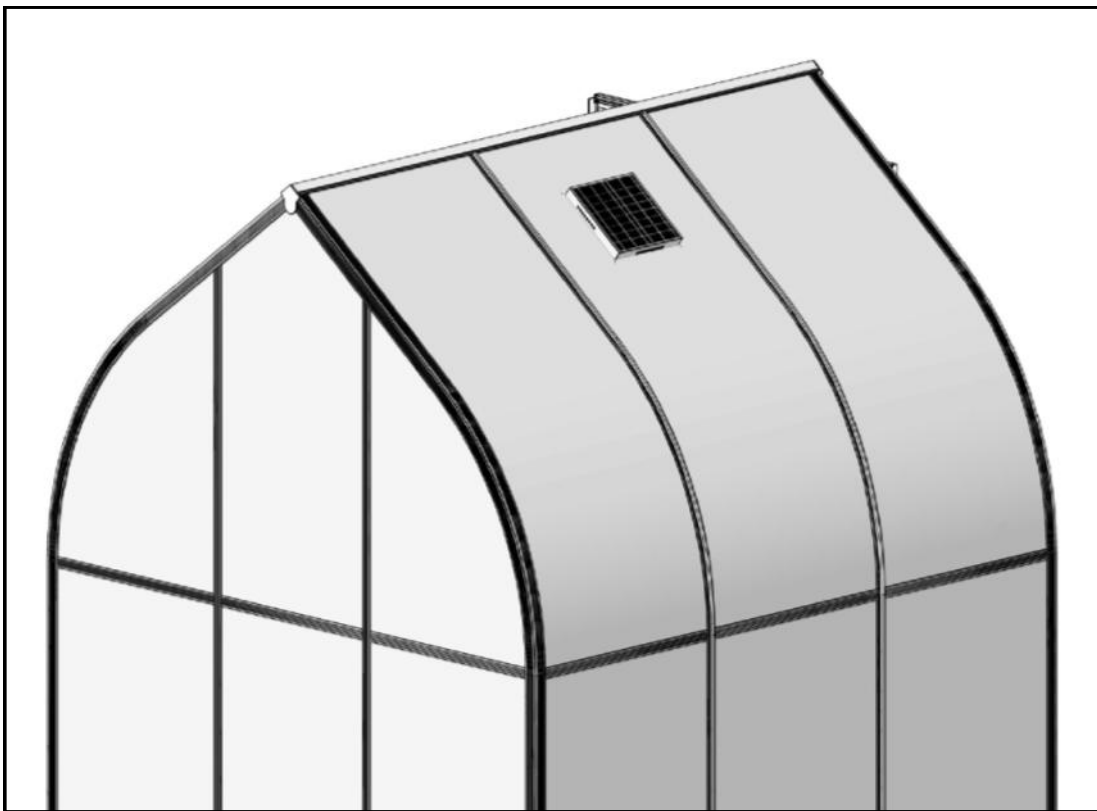




# CLIMA<sup>TM</sup> POD

## ASSEMBLY MANUAL

—SOLAR THERMOSTATIC VENTILATOR



## SPECIFICATIONS

Model: STV-8

Size: 275x275x80mm

(10 13/16" x 10 13/16" x 3 1/8")

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## DESCRIPTION

The solar thermostatic ventilator is suitable for automatic ventilation, air exhaust and cooling within small space. It will convert solar energy into electrical energy to meet the demand of small space's ventilation, air exhaust and cooling through setting up a working temperature by thermostat switch. Its key value is that it can be used for 3-5 year, or even longer by your one-time investment and little maintenance; you will never need to pay for the electric bill and worry about opening or switching off the ventilator.

The solar thermostatic ventilator need to be assembled at the place where have enough sun. it is suitable for small space around 5-7 m<sup>3</sup> (STV-8) and several sets can be used together to have a better ventilation and air exhaust. Besides being used in greenhouse, it can also be used in machine room, mobile toilet, poor ventilated and hot small room, as long as there is direct sunlight.

High reliability, stable performance, long life, easy assembly, automatic and easy operation are the main features of the solar thermostatic ventilator.

## COMPONENTS

	No.	Description	QTY
	①	Solar thermostatic Ventilator	1
	②	Support rod	2
	③	M6x25 mm bolt	4
	④	M6x10 mm Crop bolt	4
	⑤	M6 Nut	4
	⑥	M6 Spring Washer	4
	⑦	Washer	4
	⑧	PVC stripes (2 pcs of 190mm 7 1/2" and 2 pcs of 133mm 5 1/4")	4

## INSTALLATION

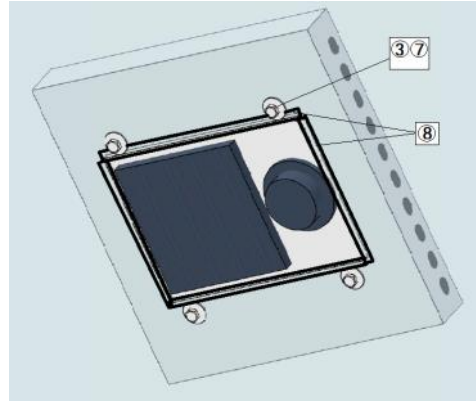
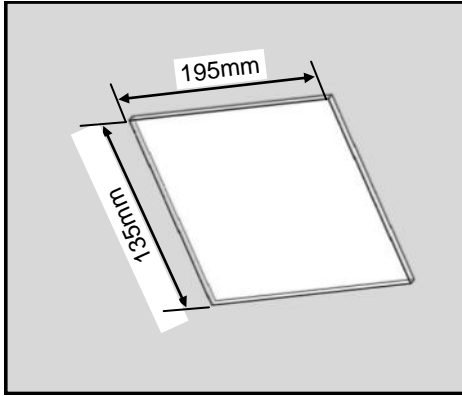
1. Install the Solar thermostatic ventilator at the place where has direct sunlight, try to keep the solar photovoltaic cell panel perpendicular to sunlight to receive the best light. There can't be any shading on the solar photovoltaic cell panel surface, and it can't be installed at low and concave place to avoid the rain water running into the ventilator through the air-bleed hole.

Make the installation holes or fixing support for the product at the suitable place, cut a square hole with size of **195\*175mm (7 11/16" L \* 6 7/8" W) or 195\*135mm (7 11/16" L \* 5 5/16" W)** (for the ventilator sitting in and the fan intake need to face inside of the room. Fix the solar thermostatic ventilator on the wall or support and then put silicone at each contact surface.

**OPTION 1 INSTALL THE FAN DIRECTLY ON POLYCARBONATE PANEL**

**MEASURE, MARK and CUT A POLYCARBONATE PANEL** to have a cut out opening

in size of 195mm x 135mm (7 11/16" L x 5 5/16" W) and install the solar fan at any preferred non-horizontal location on the greenhouse roof/side.

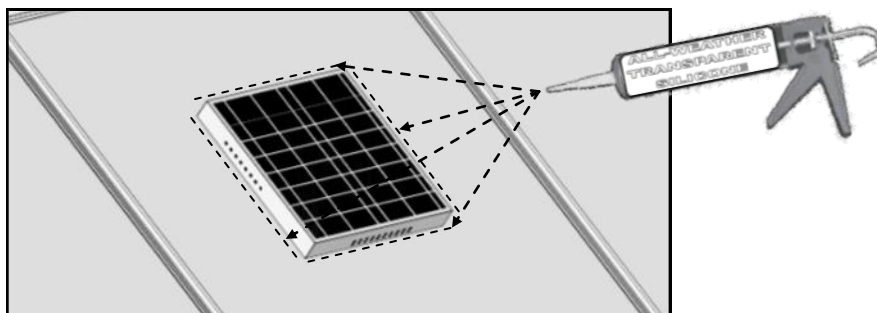
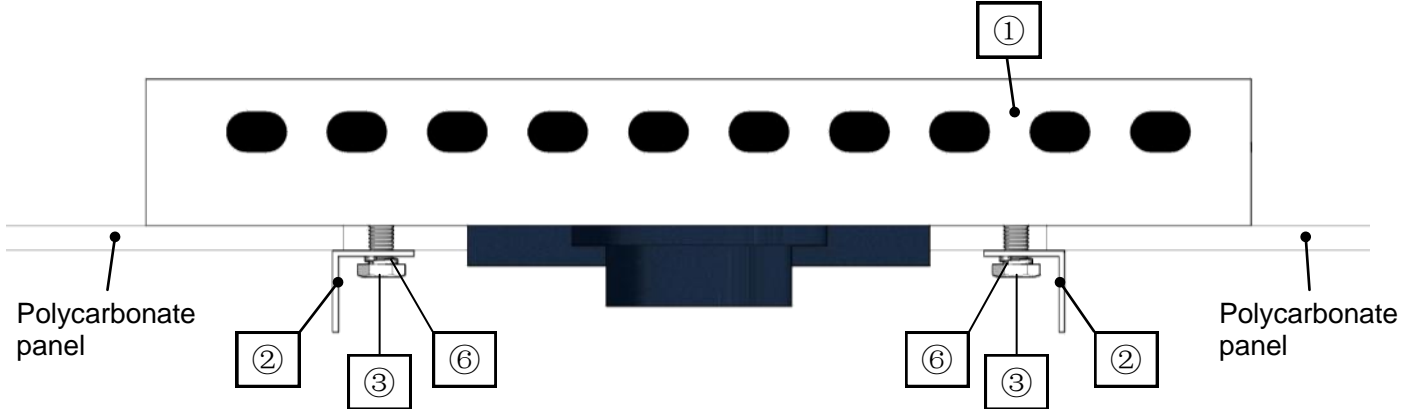
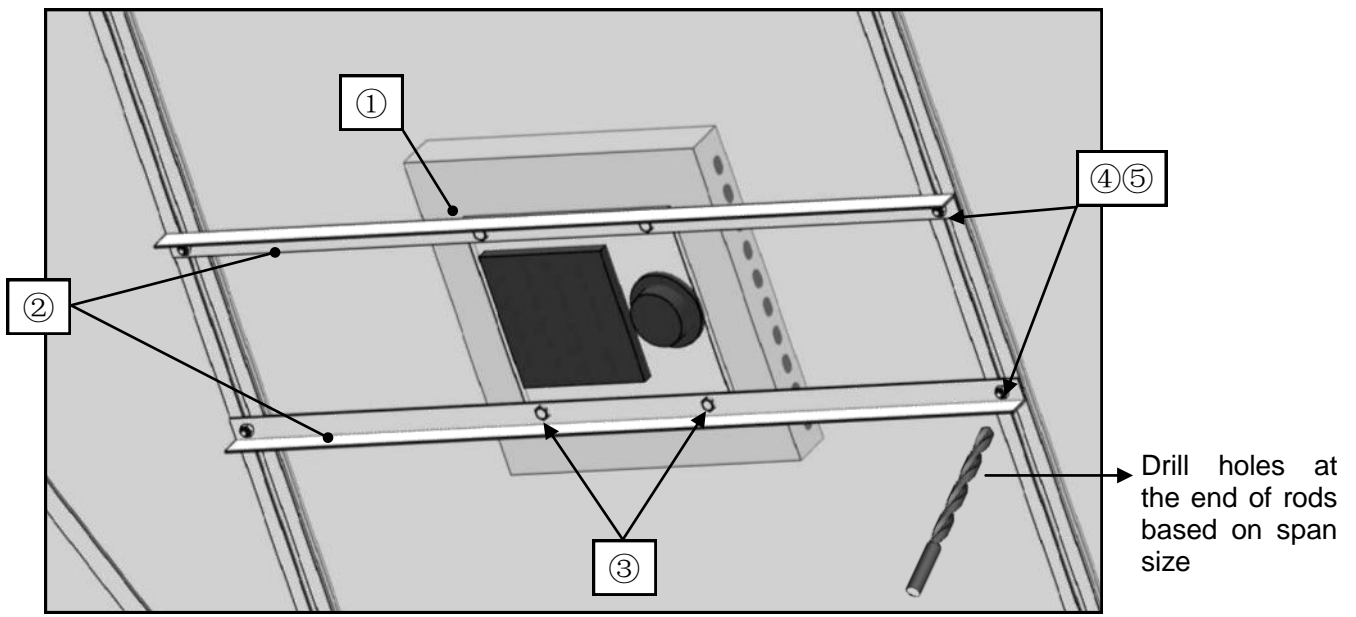


Recommended **2**

**OPTION 2: INSTALL THE FAN USING ALUMINUM SUPPORT STRIPS (may not be included)**

**MEASURE, MARK, and CUT POLYCARBONATE PANEL** to have a cut out opening

in size 195mm x 175mm (7 11/16" L x 6 7/8" W). Align the support strips to fit the channels of the side frames.



- When the sun blaze down on the solar photovoltaic cell panel, if you set the temperature lower than the surrounding, then the ventilator will work automatically; if you set the temperature higher than the surrounding, then the ventilator will stop working automatically. You can set the temperature to ventilate according to your own situation. If there is no sunlight on the solar photovoltaic cell panel, the ventilator will also stop working, like when evening or the surface is covered by light-proof objects, etc.

## MAINTENANCE

- Clean the surface of the solar photovoltaic cell panel regularly to get better ventilation, air exhaust effect.
- Add lubricating oil at pivot of the ventilator regularly.
- Wash anti-dust net regularly. If you don't need ventilation at all, you can cover the anti-dust net with a windproof product to stop the ventilation with outside, like plastic panel, etc.

## IMPORTANT WARNING

- Don't impact or compress with heavy or sharp objects.
- Don't throw objects into the ventilator, like thread and dust, etc.
- Keep it far away from high temperature and fire.
- Don't throw.
- Keep it far away from Corrosive, inflammable and explosive goods.

## COMMON PROBLEMS AND TEST METHODS

NO.	Problem phenomenon	Reason	Method
1	Slow fan speed	The solar photovoltaic cell panel surface is covered by lightproof objects	Remove the cover or clean its surface
		Sunlight isn't enough	Place it under enough sunlight
		Fan inner problem	Replace the fan
2	Fan stopped working	No sunlight on the solar photovoltaic cell panel	Place it under enough sunlight
		Fan inner problem	Replace the fan
		Ventilator inner problem	Check whether the wiring scheme is reliable
3	Thermostat loose control	Thermostat switch damaged	Replace Thermostat switch
		Tolerance in temperature control	Adjust temperature at Thermostat accordingly