

# AIR & SUNLIGHT

Plants need carbon dioxide to be able to grow and thrive.

In order to transport the air enriched with oxygen via photosynthesis and to evenly distribute new carbon dioxide-rich air in the greenhouse, efficient air circulation is critical.

When warm, humid and stagnant air is able to escape from the greenhouse, it prevents infestation by pests and diseases. In addition, fresh air protects your plants from too much heat. In the opinion of experts, the temperature inside a small greenhouse should be on average 6 degrees higher compared to the outside air temperature.

That is why windows are also an excellent solution for ventilation, as they do not significantly reduce the transfer of light. Among the various vents opened manually or automatically as presented below and other solutions such as the solarfan, there is a ventilation system that meets needs of every greenhouse plant and gardener.



01 02

## 01. ROOF VENT

With an additional roof vent you will not only increase the exchange between indoor and outdoor air, but the air circulation in the greenhouse. The plants will thank you – and you will also be happy working in a more comfortable greenhouse climate. The aluminum roof vents without glazing are available in different colours for all Vitavia greenhouses. Additional vents can quite easily be fitted at any time.

Material: anodised\* or powder coated aluminium | Product: without glazing | Colours: anodised aluminium\*, powder coated green or black | Suitable for: VENUS, ORION, SIRIUS, SATURN, JUPITER, CASSANDRA, NEPTUNE, IDA, ZEUS, POSEIDON



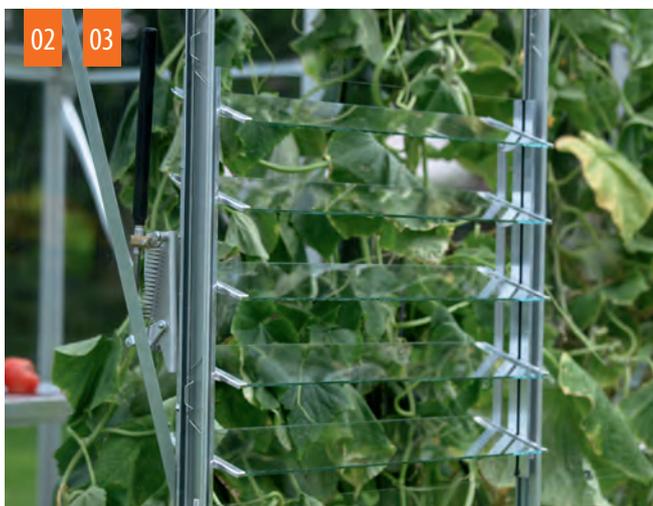
04

## 02. AUTO VENT OPENER

Temperature driven automatic ventilation | Special feature: works without electricity.

**For Roof Vents:** Opening temperature: between 16°C and 25°C | Opening height: 45 cm | Lifting force: approx. 7 kg

**For Louvre window:** Opening temperature: between 16°C and 25°C



02 03

## 03. LOUVRE WINDOW

Five continuously adjustable glass panels allow just as much outside air to flow into the greenhouse as your plants need. Mounted in an aluminum frame, the louvre window fits perfectly into your Vitavia greenhouse. Equipped with an automatic window opener, the louvre window can open automatically as the temperature increases and will retract as the temperature decreases – without electricity.

Dimension: B 61 x H 45 cm | Material: anodised\* or powder coated aluminium, 5 glass panels | Colours: anodised aluminium\*, powder coated green or black | Suitable for: VENUS, NEPTUNE, JUPITER, SATURN, IDA 5200 and 7800 | Special feature: continuously adjustable, multi-tiered, draught-free ventilation | Note: for toughened glass, an additional panel for side wall is needed available on request



#### 04. SIDE VENT

Side vents deliver an additional ventilation opportunity which “works” even in bad weather: the generous side vent can be set up in 5 different angles – and, being hinged at the top of the vent, lets no rain and snow into your well ventilated green oasis.

Material : anodised\* or powder coated aluminium | Glazing: with polycarbonate or full pane toughened glass or horticultural split glas | Colours: anodised aluminium\*; powder coated green, white, grey, black | Suitable for: FREYA, ZEUS, POSEIDON, APHRODITE, HERA, HELENA

#### 05. CURTAIN SHADING

Curtain shading protects plants against the so-called burning glass effect as it can damage your plants exposed to direct sunlight. Made of PE, the screens are characterized by their rugged texture, which without any problems, resist sun, dirt, wetness as well as regular folding in sun-poorer seasons.

Dimension: W 1.83 x L 2.59 m | Material: PE fabric | Shading effect: 50% | Colour: White | Special features: UV resistant, rot-resistant | Included: mounting fittings

#### 06. SOLARFAN

The solarfan circulates to 135 m<sup>3</sup> of air per hour and can thus replace the air in a 10 m<sup>2</sup> greenhouse three to four times per hour. In this process, humid air is also extracted, so that not only the internal temperature, but also the condensation is effectively reduced. The fan can be disabled at any time with the easy to use on/off switch. Available in five sizes, the solar fan fits in almost any Vitavia greenhouse. The Solarfan is simply mounted in place of glass in one of the roof vents NB! The Vitavia Solarfan can NOT be fitted in the following greenhouse models without special adaptation, which the customer must perform: ZEUS, POSEIDON, HERA.

Material: galvanized steel | Suitable for: IDA, NEPTUNE, JUPITER, SATURN, ORION, SIRIUS, CASSANDRA and HELENA

