

Climate

1. [Temperature](#)
2. [Humidity](#)

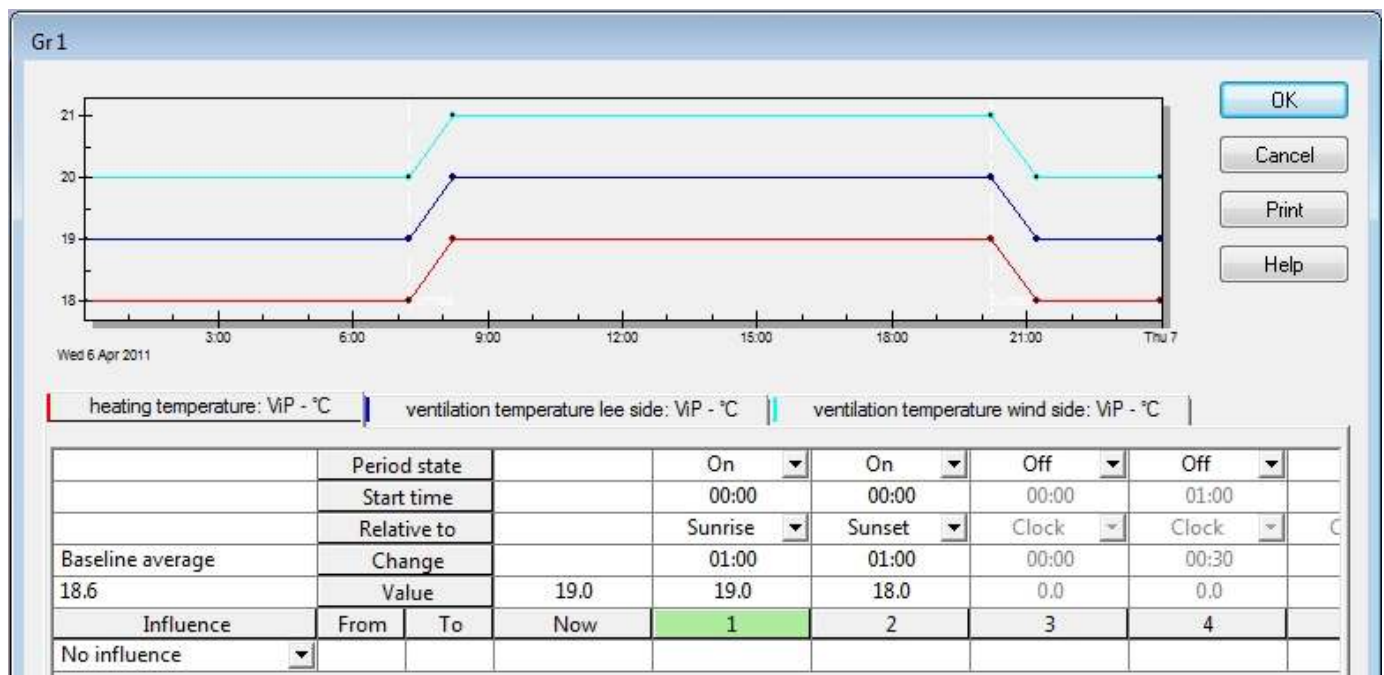
1. Temperature

The temperature is adjusted using a heating temperature and a ventilation temperature lee side and a ventilation temperature wind side.

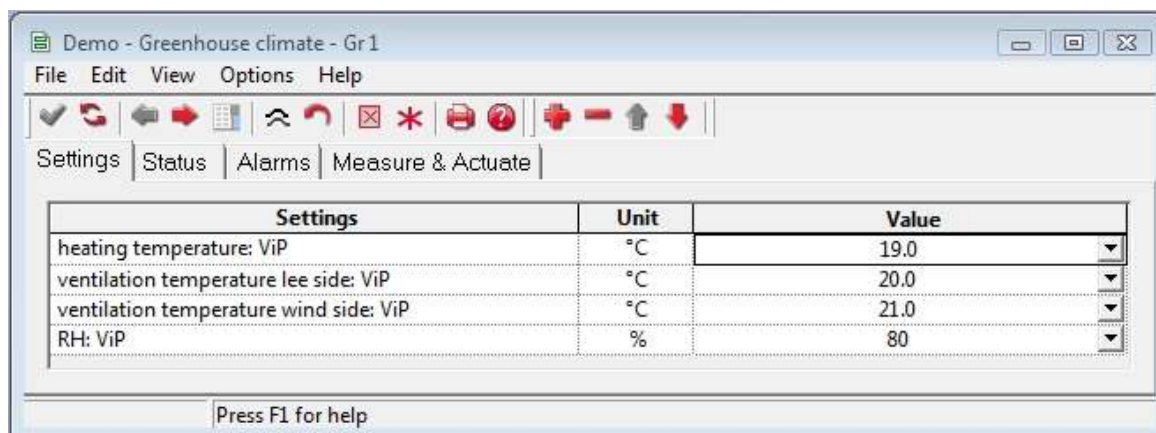
When the greenhouse temperature is below the heating temperature, there will be heated.

If the greenhouse temperature is above the ventilation temperature lee side, the vents on the lee side will be opened.

When the greenhouse temperature is above the ventilation temperature wind side, the vents on the wind side will be opened.



You can adjust the setting list of "Greenhouse climate" to the following list:

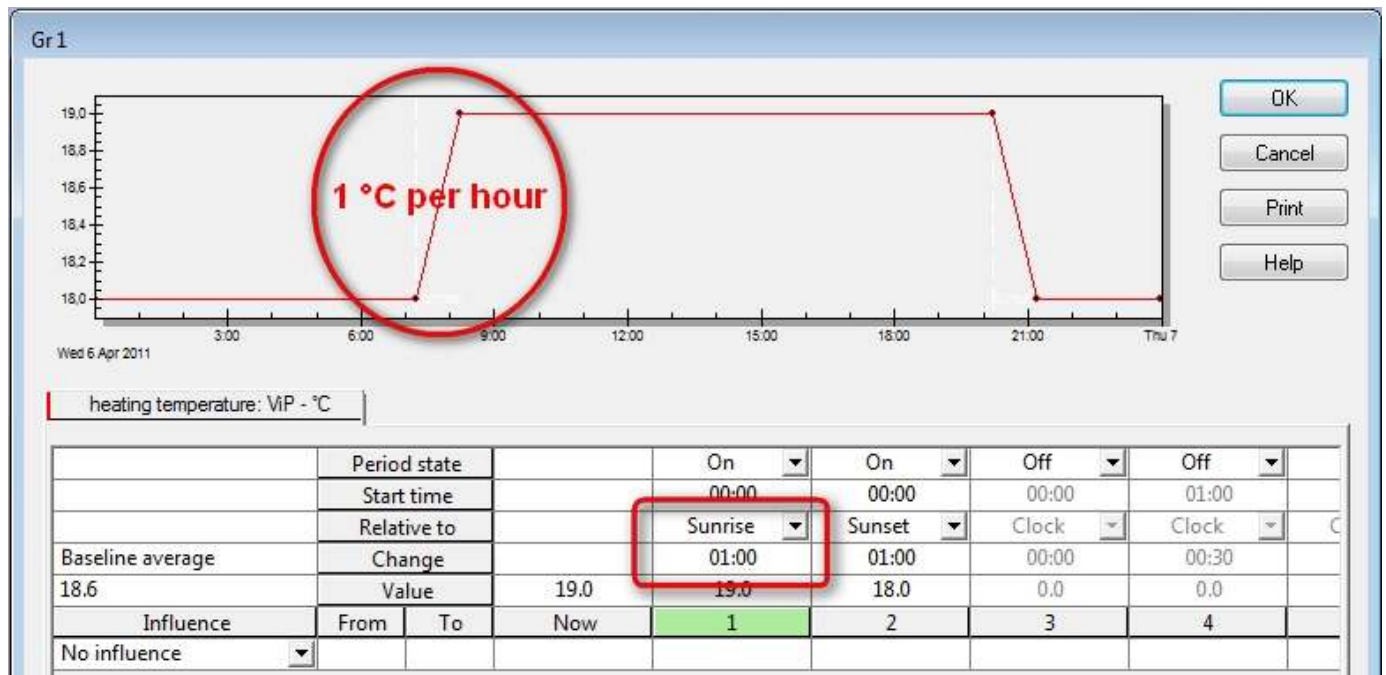


Example:

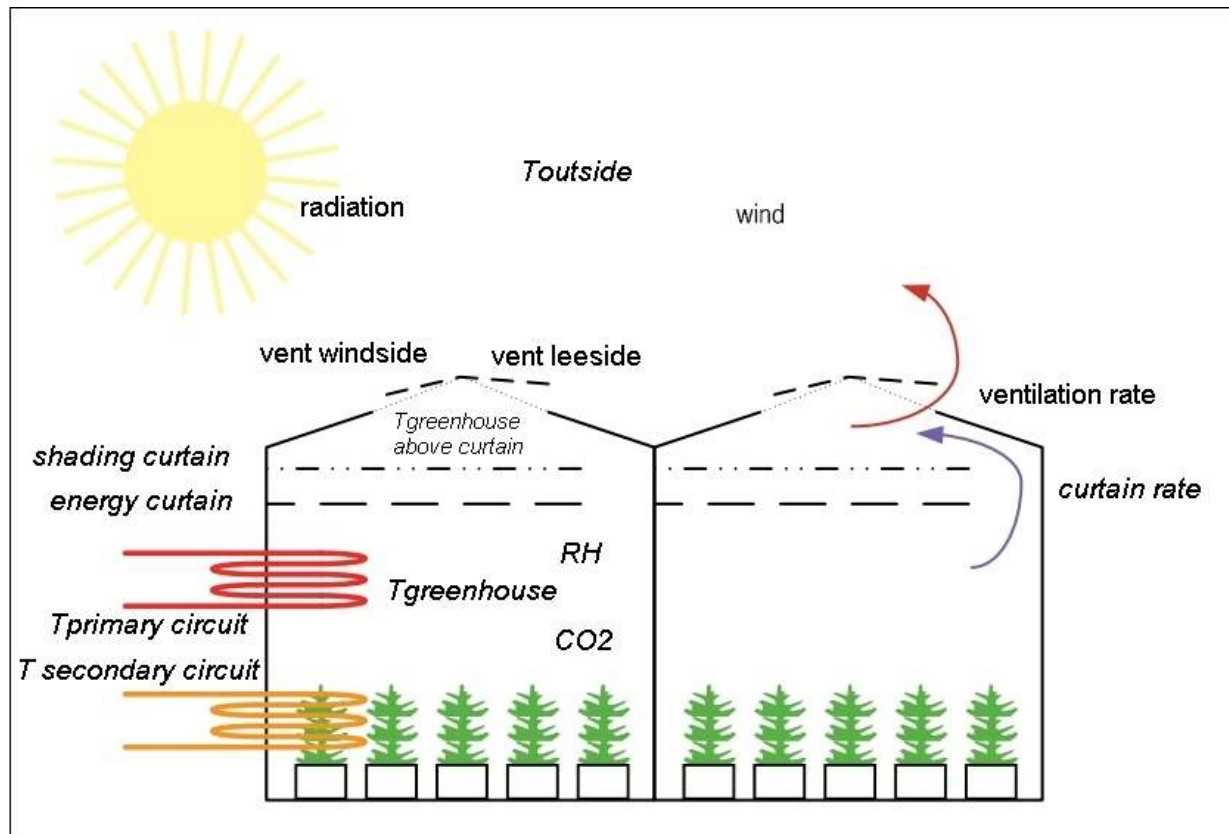
Research shows that the greenhouse temperature in the morning should be slowly increased.

If this happens too quickly, then the crop temperature stays behind and condensation can occur on the crop parts with increased risk of fungal disease.

Often 1 degree increase per hour is maintained.



2. Humidity



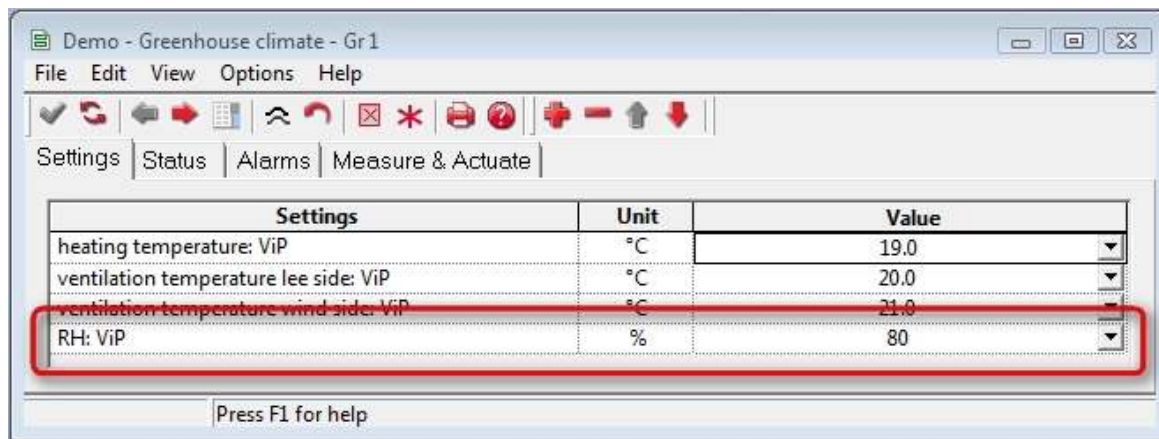
The moisture in the greenhouse is coming from the crop and/or pot evaporation. This evaporation can be affected by heat input, radiation and RH.

The moisture can be removed through:

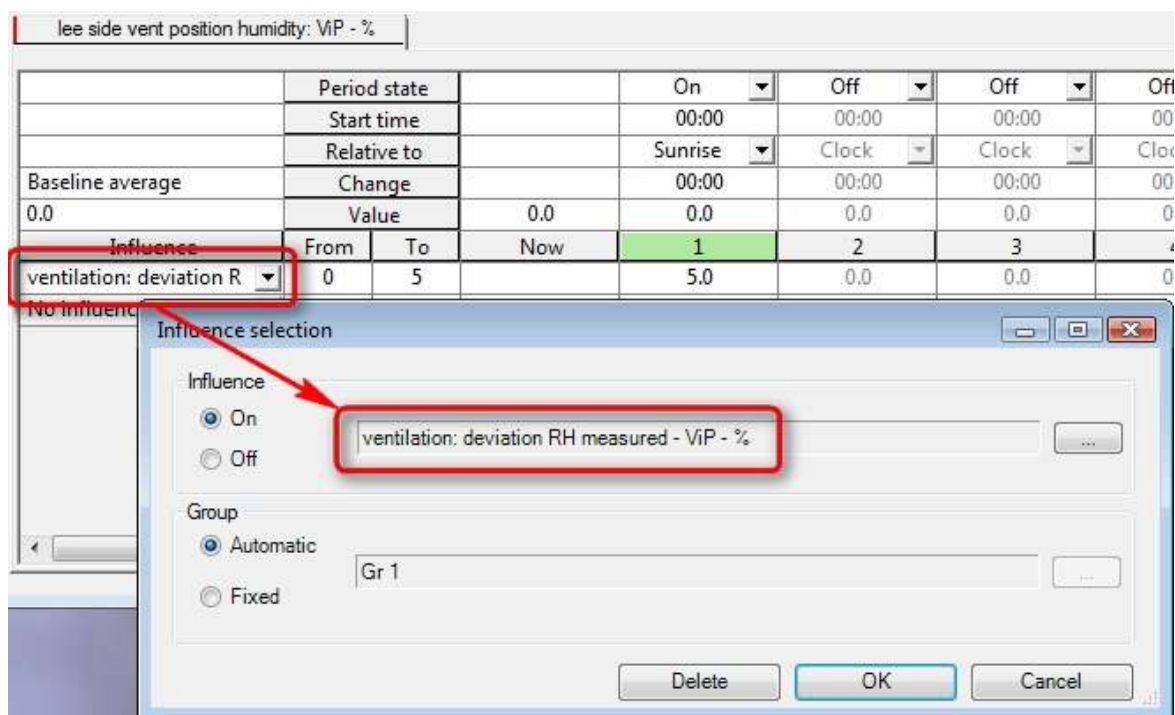
- natural ventilation
- condensation
- forced ventilation
- mechanical cooling below dew point

Example 1:

The base value of the RH is set at Greenhouse Climate:



If the RH is too high, for example, a vent position may be deployed or a minimum tube can be increased at an adjustable difference relative to the base value.



circuit pipe minimum: ViP - °C

	Period state		On	On	Off	Off
	Start time		00:00	00:00	00:00	00:00
	Relative to		Sunrise	Sunset	Clock	Clock
Baseline average	Change		01:00	01:00	00:00	00:00
20	Value	20	20	20	0	0
Influence (!)	From	To	Now (!)	1	2	3
heating: deviation RH m	5.0	10.0	-20	20	0	0
No influence						

Influence selection

Influence

On

Off

heating: deviation RH measured - ViP - %

Group

Automatic

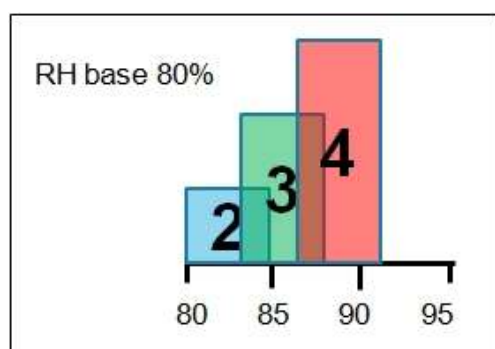
Fixed

Gr 1

Delete OK Cancel

In the example above, a vent position of 5% is used as the RH increases from 80 to 85%. The RH rises still further from 85 to 90%, then the minimum tube increases from 20 to 40 degrees.

Example 2:



The advice of a moisture control strategy is:

1. care for active micro climate by air movement (fans) and avoid unnecessary moisture production
2. first venting over completely closed curtain (if curtain is sufficient moisture permeability)
3. small crack in curtain up to 3%
4. heating only if the greenhouse is too cool