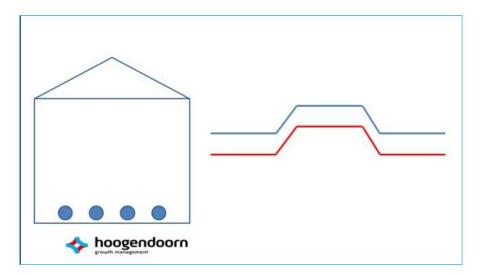




Example: Variable Heating and Venting strategy during day and night



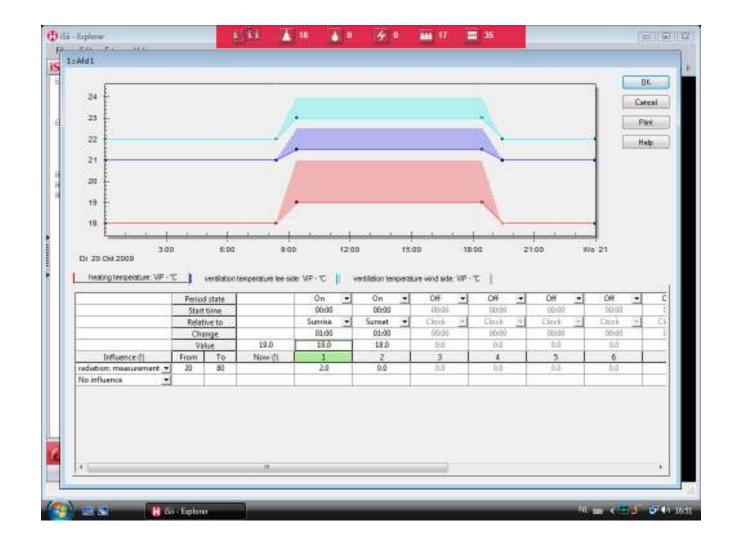


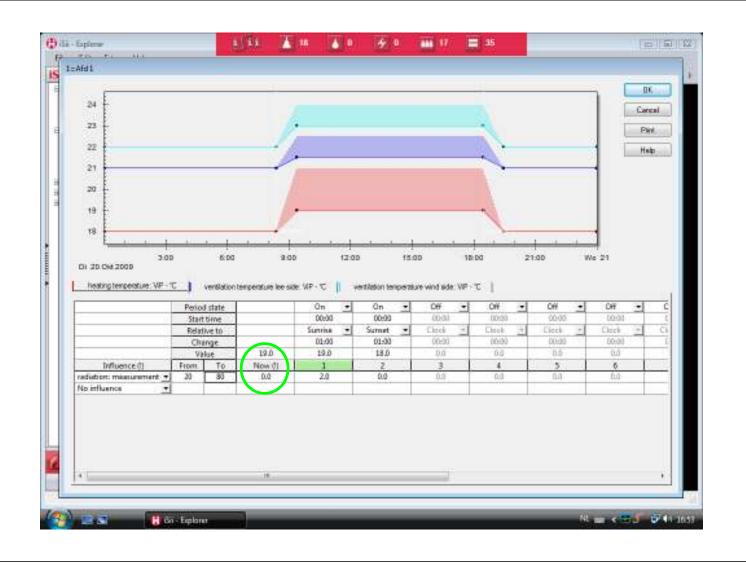


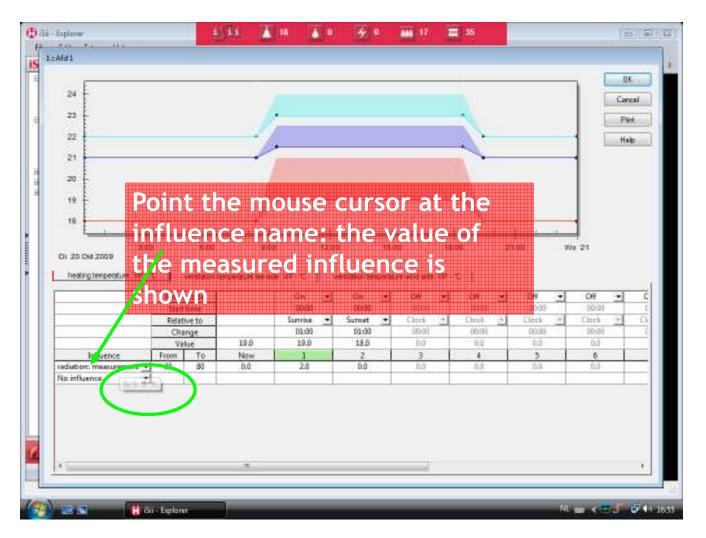
iSii ViPs and influences

- Function of iSii ViPs (Variable Influenceable Period Settings)
 - Easily Oversee and adjust a 24 hour Strategy in one single setting!
 - Example: control different temperatures setpoints during 24 hours , like a colder temperature during the night and a higher temperature during the day.
 - Visual mouse control: Drag and drop functionality.
- Function of influences
 - Always create an optimal growing climate regarding continuously changing inside- and outside conditions
 - Example: use a different greenhouse temperature strategy according to the available radiation levels outside









iSii ViPs and influences

- 1. You can set 10 periods in iSii
- 2. Start time of each period
 - 1. Start time hours, minutes and before/after
 - 2. Relative to one type of clock
 - 1. Astronomic sunrise and sunset
 - 2. Fixed 24-hour clock
- 3. There are set values for every period °C, % RH, gr/m³ HD, ppm CO2, etc.
- 4. Set values can be influenced
- 5. 9 influences are possible per ViP
- 6. Adjustments can differ between periods



Influences

- These mainly consist of measurements:
 - Radiation: W/m², %, J/cm², MSc, PAR, PARsum
 - Outside temperature
 - Greenhouse, heating, ventilation temperature
 - Windspeed/wind direction (dry, humid, cold, warm)
 - Universal-measurements and universal-ViP values

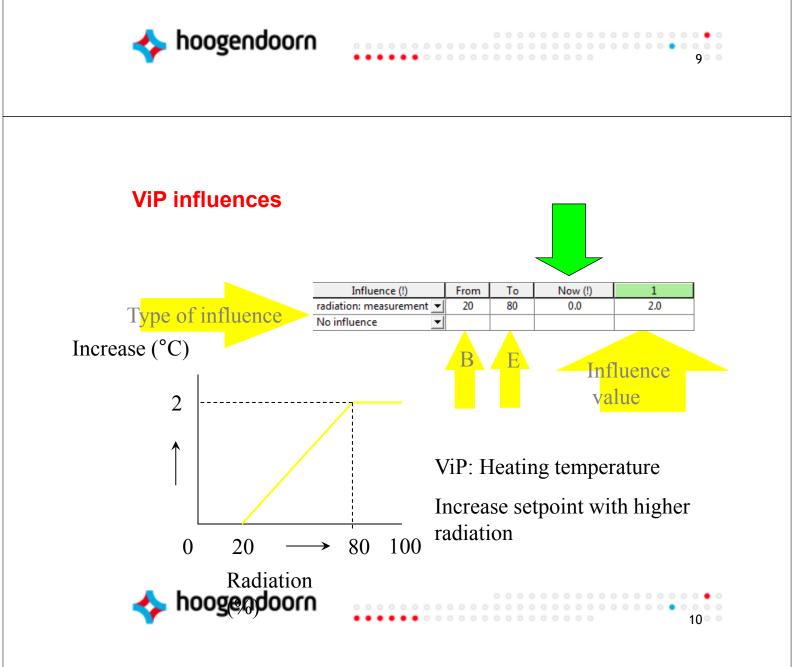


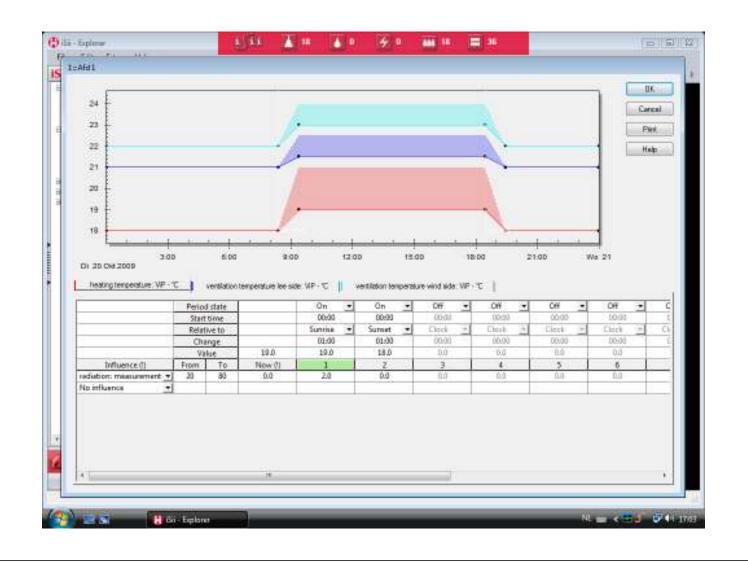


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Influences (continued)

- Deviation between measurement and setting
 - RH deviation
 - HD deviation
 - Between measured RH / HD and ViP RH / HD
 - Heating temperature deviation
 - Ventilation temperature deviation
 - Between measured greenhouse temp. and ViP heat. / vent. temp.
 - Outside temperature deviation
- Deviation between two measurements
 - Outside temperature deviation
 - Between greenhouse and outside temp.



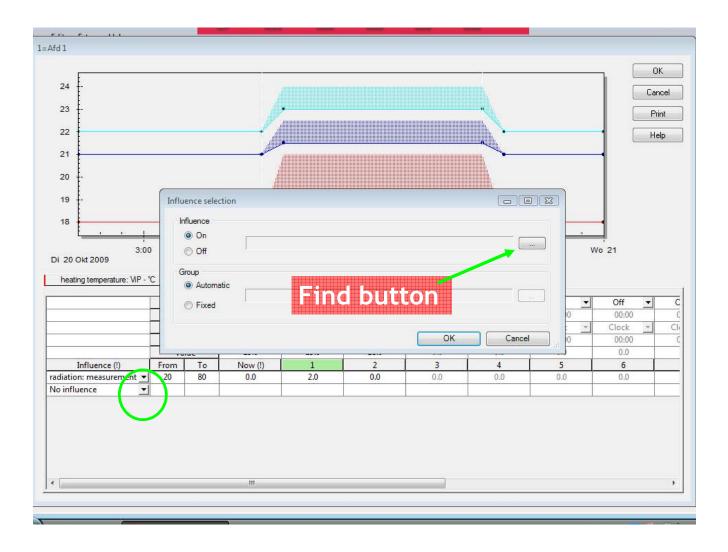


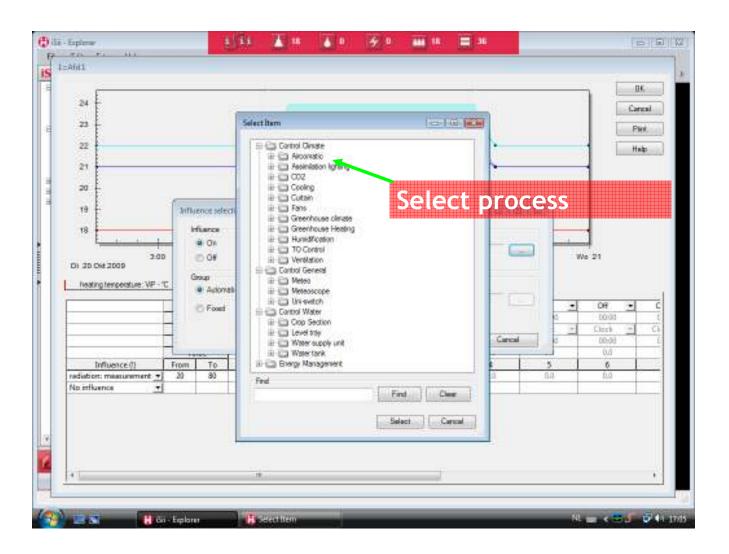
- Click on "no influence" in the control
- The "influence selection" screen appears
- There are two options:
 - Influence
 - On/off
 - Selection (freely selectable)
 - Group
 - Automatic: i.e. linked to the same group,
 - e.g. minimum pipe heating gr 1, and RH from climate gr 1

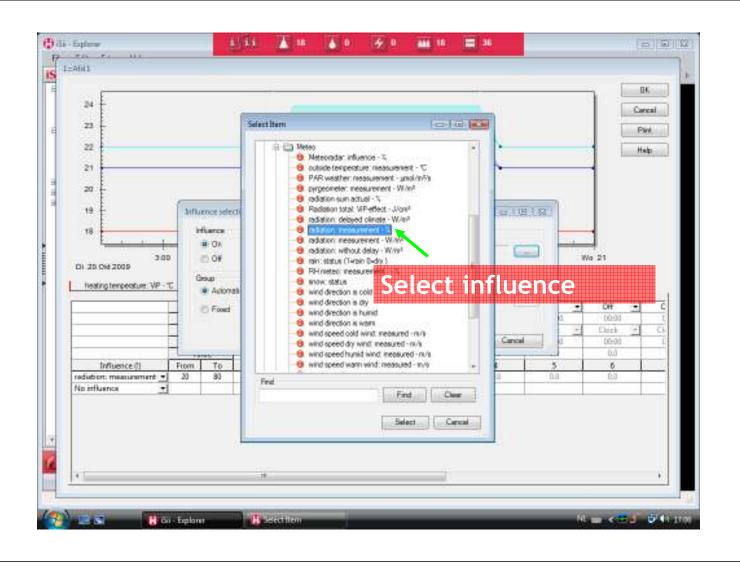
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- Fixed: i. e. select a group,
 - e.g. curtain gap control gr 1 on IR camera 3
 - e.g. curtain energy gr 1 on additional aspirator 4

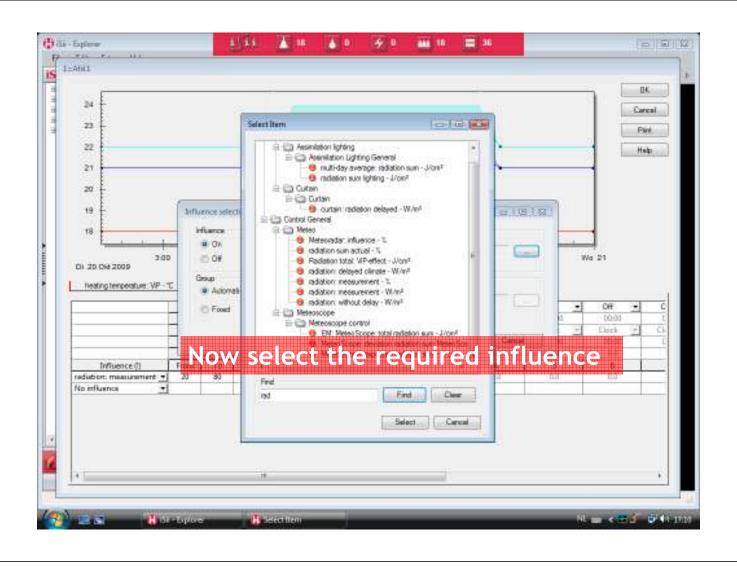


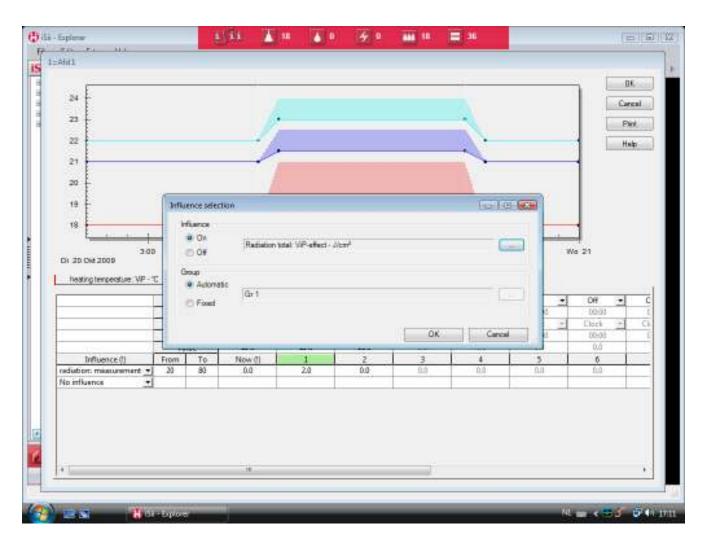


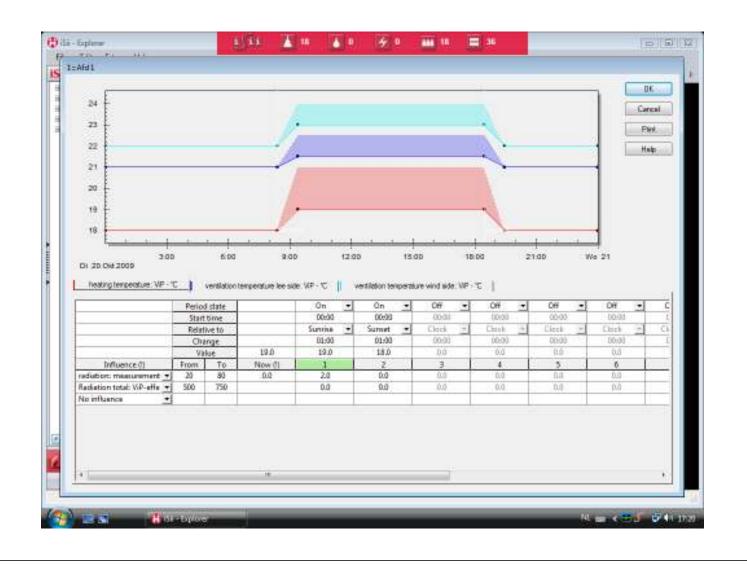




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23	Select Item	1 G2 (22)
22 21 20	El Control Dinate El Control Dinate El Control Dinate El Control Dinate El Control El	Нар
19 Juffuence selecti	If you don't know the exact	name, enter part of the
18 a On 3:00 Of Di 20 Ose2009 Of Reating temperature: VP - ℃ Influence (I) From To radiation: missuumment → 20 83 No influence ▼	In wetch Control Water Cop Section Dop Section Devel 10y	Click on Find
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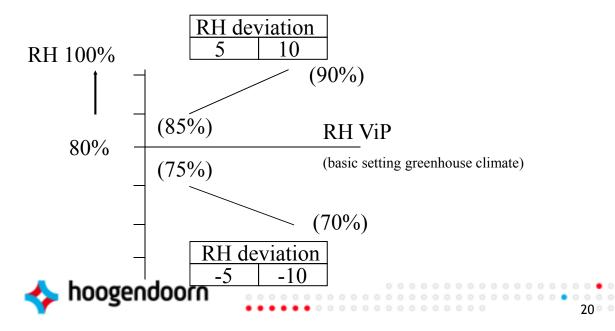






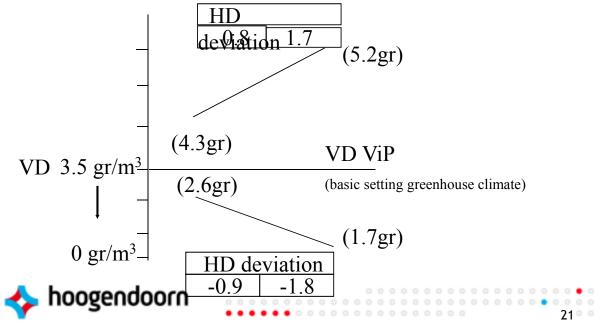
Influences RH / VD (1)

Influence based on the deviation between "basic" RH
ViP of greenhouse climate and RH measurement.



Influences RH / VD (2)

 Influence based on the deviation between "basic" HD ViP of greenhouse climate and measurement.



ViP influence rules

- 1. Up to 9 influences are possible for each ViP
- 2. Count increases and/or reductions
- 3. Add up influences, but no higher than the highest set influence
- 4. Deduct influences from each other, but no lower than the lowest set influence





Example 1 (minimum vent position on humidity or temperature)

Influence	From	То	Now	1
outside temperature: measurement - ° 💌	5.0	12.0		5
ventilation: deviation RH average - ViP	0	5		5

Base RH = 80%

RH	Outside temp.	Calculated
80	5.0	
82.5	5.0	
85	5.0	
80	8.5	
80	12.0	
82.5	8.5	
85	12.0	





Example 2 (minimum pipe responding to humidity and radiation)

40	Value			40	
Influence (!)	From	То	Now (!)	1	
radiation: measurement - W/m²	250	350		-20	
heating: deviation RH measured - ViP 💌	0.0	5.0		10	

Base RH = 80%

use IXII - 0070	RH	Radiation	Calculated	
	80	250		
	82.5	250		
	85	250		
	80	300		
	80	350		
	82.5	300		
hoogendoor	n 85	350		

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