Issue spring 2007

RELDAIR FOGSYSTEMS

SPECIALIST IN HUMIDITY CONTROL

- custom made high quality humidity control
- very fine and even fog
- cooling effect
- an even climate
- preventing dehydration
- odour control
- various solutions to your problems with humidity control
- servicing and feedback

RELDAIR: THE FOG SYSTEM FOR ALL CULTIVARS

Cultivation of orchids or anthurium is already unthinkable without humidification.

But other growers as well start to acknowledge the importance of humidification for their crops. Alstroemeria, Feverfew, Freesia and even carnivorous plants: every week we get new requests for quotes for different cultivars, the reason being that in a lot of cases humidity must be high without wetting the plants. A cooling effect is also a reason to purchase a ***RELDAIR***. The last addition to the already vast array of cultivars is MATRICARIA (camomile)

JB Matricaria Venlo

SATISFACTORY RESULTS IN DUST SUPPRESSION

dust suppression, KaRo

Waste-processing firms are getting more and more interested in ***RELDAIR.*** In the treatment of waste a cloud of very small particles of dust is released. This dust cloud creates a very unhealthy environment.

That is why these firms are looking for a way to suppress dust. It is of course possible to suppress dust with water but an additional requirement is that the floors and the waste disposal don't get wet.

Installer **KaRo** Zwaagdijk and ***RELDAIR*** found the solution: our High Pressure RT-system (1,000 P.S.I.) which has a slightly bigger droplet than our Super High Pressure RN-1800 System (1,800 P.S.I.) With this system the dust will descend according to acquired demands.

So far practical experience has been very satisfactory. Pipes with nozzles are attached to the ceiling of the hall, with 1 nozzle per 40 to 50 m2. On two sites of one of our waste processing customers the systems run already for more than a year. The results are quite satisfactory and this customer ordered an extension for a third site.Because of the poor water and air quality in this branche, **KaRo** has chosen for stainless steel parts.

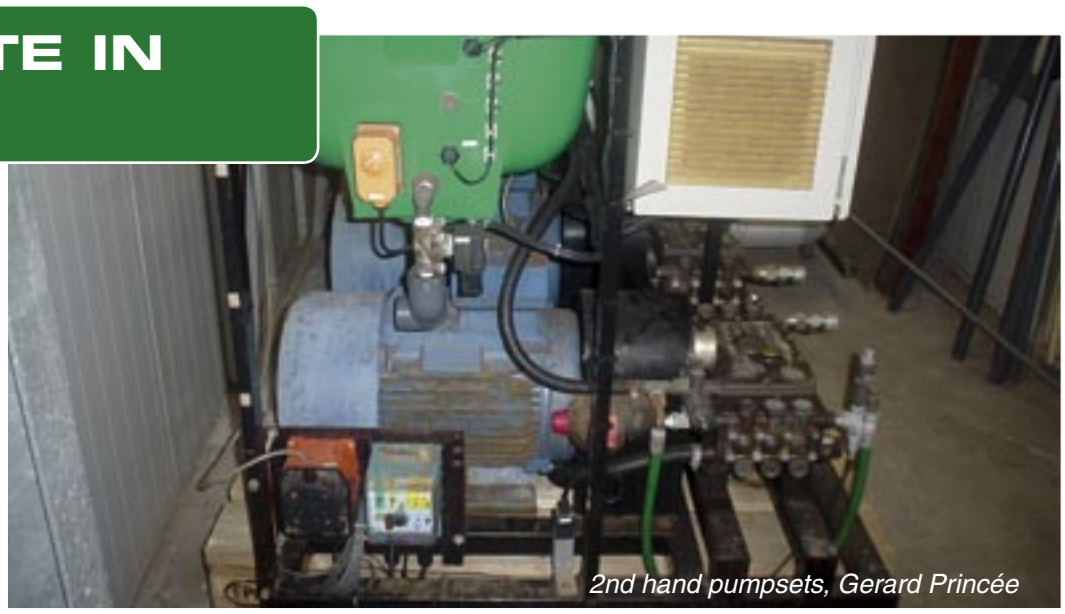
HORTICULTURAL SHOW RIJSWIJK 2007

Stand Rijswijk 2007, Gerard Princée

This year's show in Rijswijk was succesful. Regular customers told us that 2006 with it's extreme temperatures was a true ***RELDAIR*** year: cooling of six degrees was no exception. Growers of vegetables came by to tell us that they need our system for cooling. See below the article about humidification in biologically grown vegetables.

RELDAIR ALSO FAVOURITE IN SECOND-HAND MARKET

As a result of the growing demand of vegetable growers for the ***RELDAIR*** Fog Systems, the second-hand trade in our systems is growing. Even on internet (marktplaats.nl) we found ads for complete ***RELDAIR*** Fog Systems. Verdonk Brothers, grower of sweet peppers, Haarsteeg, bought a 7-year old system, which could be adapted to his particular situation with only a few minor adjustments : a double AD40 pumpset (in total 4800 litres per hour) complete with pipes and parts for 1000 nozzles.
Have a look at our site for interesting 2nd hand offers.


2nd hand pumpsets, Gerard Princée

Biological grower Frank de Koning

HUMIDIFICATION OF SWEET PEPPERS AND TOMATOES

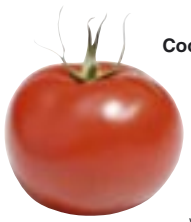
After the hot month of July 2006 growers, who are already using a humidification system, are enthousiastic about the cooling effect on their crop. Humidification or cooling: Frank de Koning has found out that the system does have a positive effect on the climate all year round. In the beginning of 2006 he installed a system in one of his warehouses. A year later he installed a second RELDAIR Fog System on another site.

When we visit Frank de Koning on his 3 ha site in Brielle, it is cold and empty.
" We are just now changing crops" , he tells us. On the other side of the road , the biological grower owns another glasshouse of 1,5 ha and in the village Tinte another one , sized 2,5 ha.
" As biological grower I must rotate crops 1:2. That means that this year I grow tomatoes in this house and next year sweet peppers. Because I own different glasshouses, I can grow both crops simultaneously"

Ron van Luijk en Frank de Koning

High RH
As biological grower Frank de Koning uses natural enemies. " It's a given fact that aphids in biologically cultivated sweet pepper are a huge problem ", he tells us, " We even lost two rounds. Because I knew that natural enemies, in this case gall midges, thrive on a high RH, we started with raising the humidity with a hose. When this seemed to be succesful, we installed a rainpipe . The result was satisfactory apart from the crop getting too wet and developing diseases as a result of that.
During this period Mr. De Koning visited a collegue, who had just installed a (***RELDAIR***) fog system. "When I noticed that this system raised the RH, without the crop getting wet, I was convinced that I too must have this system installed by Horticoop".

Better climate
After the fog system was installed, Frank de Koning cultivated sweet peppers. In this year it was empirically proven that aphids were effectively controlled by gall midges. But also for tomatoes, the crop that will be cultivated in this glasshouse this year, he has high expectations. " In tomatoes a high RH will contribute to the control of the red spider mite, but the cooling effect of the fog system will be effective as well. I do expect a better quality of the pollen and more activity of the bumblebees and, consequently, a better pollination."



Cooling effect
Ron van Luijk, technical advisor of Horticoop explains: A lot of growers, with standard growing methods, install a fog system for its cooling effect. The use of a fog system can lead to a drop in temperature of 4 to 5 ° C. "
Frank de Koning has experienced this drop in temperature as well: "Humidity control in my glasshouse with sweet peppers has contributed to a drop in temperature . Especially at the beginning and end of the day a cooling effect occured. This effect was intensified because I wasn't scared closing the windows to the maximum. That is why we could finish the production quite satisfactorily.
Closing the windows has the added advantage that CO2 is kept indoors." Ron van Luijk concludes : "The system does indeed help biological growers to finish the production. For standard cultivation it helps maintaining a strong crop."

The Fog System

The *RELDAIR* Fog System works as follows: a high pressure (1,800 P.S.I.) pump pumps water (usually rain water) through high pressure pipes to the compartments where it is spreyed through nozzles. In order to avoid clogging filters are installed. Pipes and break tank are opaque to avoid algae growth.

Effects of the system:
1) **Humidity control**
2) **Cooling effect**
3) **Keeping CO2 indoors**
4) **Improves biological pest control**

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