GREENHOUSES

- Reduction of crop loss
- Save of energy costs
- Greater control of relative humidity and temperature
- Reduction in usage of pesticides and fungicides due to less humidity related diseases

In greenhouses there's a tendency to have high moisture content during the day. This is because of high temperatures in the green house whereas at night the condensation rate of the moisture in the air is high due to low temperatures. As a result, condensate forms on cooler surfaces, creating a conducive environment for mildew and fungi such as botrytis which in turn damages the yield. Introduction of a dehumidifier to such an environment would regulate humidity and temperature within the green house.

In so doing it will ensure that condensation is avoided, and the threat of crop-robbing pests and diseases is greatly reduced. Furthermore, by regulating temperature and humidity, optimum climate conditions for plant growth can be achieved resulting in maximum yield.

Moisture control
The main challenge in commercial greenhouse is to remove excessive water and humidity. A common way to try and control the climate within greenhouses is by using ventilation systems. Ventilation allows the moist warm air in the greenhouse to be replaced by the fresh air from the outside. This is done by using a natural convection or mechanical ventilation. Both of these two alternatives are affected by the outside weather conditions and are not used when outdoor air is cold or damp.

Dehumidification solutions by DST
The best method to control humidity, irrespective of the prevailing weather conditions, is through the use of dehumidifiers. They allow growers to control climate inside the greenhouse while it is insulated (the doors and sides are not opened), thereby reducing energy cost associated with warming the greenhouse and limitation in the usage of fungicides and pesticides.

Want to know more? Visit us at www.dst-sg.com

World leaders in dehumidification.

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