

BARTLETT

— INSTRUMENT COMPANY —

DIF, DAY & NITE

When days get shorter and nights get colder, it is important to keep warm air stored in your greenhouse from the day, into the night. With the ClimateBoss, that is possible!

Controller Operations: Target Temperature

The figure below explains the workings of the stages, DIF, DAY, and NIGHT.

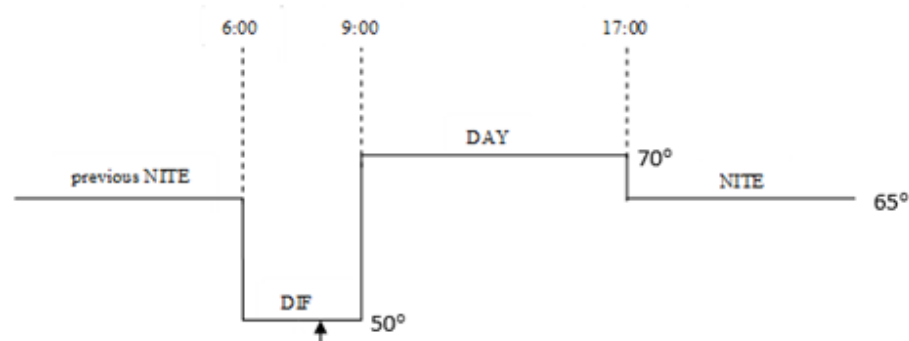


Figure 4: Target Temperature Changing With Time of Day

Figure 4 shows the controller programmed the DIF stage to start at 06:00 (6:00 am), the DAY stage at 09:00 (9:00 am) and the NITE stage for 17:00 (5:00 pm). The target temperatures for the DIF stage: 50°F, the DAY stage: 70°F, and the NITE stage for 65°F. As indicated by the arrow, at 8:00 am you are in the DIF stage and the target temperature is 50°F.

Keep your greenhouse warm and save energy with the NITE lock out feature on the ClimateBoss RWL and GHK.

The ClimateBoss has DIF, DAY and NITE Stages to help your greenhouse get to its target temperature and save energy.

DIF Stage - Allows you to adjust the temperature a few hours before sunrise to help control height.

DAY Stage- Allows you to take advantage of solar energy to increase the daytime temperature so you can maintain the correct average daily temperature to control crop maturity.

NITE Stage - Allows you to lower the temperature at night to save on heating.

If a customer has a their DAY stage set to 8:00AM and the NITE stage to start at 17:00PM (5:00PM), they could turn the NITE lock out on, and once the clock reaches 17:00PM it will shut down all cooling and allow it until the next day at 8:00AM. If the customer wants to "bank" the heat in the greenhouse, they can lower their NITE Stage time to 15:00 or 16:00 so the cooling locks out sooner, allowing the heat to be stored in the greenhouse before the sun goes down.



The ClimateBoss, our new touch screen technology controller, enables you to control either louver fan or natural vent greenhouses. It can be programmed for 1 or 2 zones and allows for programmable temperature settings in DIF, DAY & NITE stages.

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PODCAST

Listen to The Grower & The Economist podcast to hear Bartlett Instrument's own Dave Bartlett and Molly Dishman talk about keeping up with technology at an affordable price for growers.

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