



BARTLETT Instrument Company

Can DIF Make A DIF-ference For You?

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Looking for a way to naturally regulate the height of your greenhouse plants? Using the DIF technique can help control plant height and reduces the need for expensive growth regulators. By dropping temperature at the coldest time of the day it can save you both money and energy.

DIF can be used to help promote or inhibit stem elongation depending on where you set temperatures for DIF, Day, and Nite. Whichever you choose, using DIF can easily be accomplished using a Bartlett greenhouse controller.

For reduced stretch in your plants, try a formula similar to the one in Table 1. Using the DIF feature, you can lower the temperature an hour or two before daybreak and hold there for a few hours. However, keep in mind that different types of plants respond differently to DIF growing and it may take some adjusting to get the right formula for you.

Target Temperature			
Stage	DIF	DAY	NITE
Temperature	60 ⁰	70 ⁰	65 ⁰
Start Time	5:00 a.m.	8:00 a.m.	5:00 p.m.

Table 1

To program the data in Table 1 in your Bartlett GHK12x2 or RWL11x2 in single zone mode, perform the following steps.

1. Press the DIF key, then 5, 0, 0 for a start time of 5AM and press “**ENTER**”. The display flashes the target temperature and °F 1.
2. Press 6, 0 for a target temperature of 60° F and press “**ENTER**”.
3. Press the DAY key, then 8, 0, 0 for a start time of 8AM and press “**ENTER**”. The display flashes the target temperature and °F 1.
4. Press 7, 0 for a target temperature of 70° F and press “**ENTER**”.
5. Press the NITE key. Press 1,7,0,0 for a start time of 1700 hour (5PM) and press “**ENTER**” and the display flashes the target temperature and °F 1.
6. Press 6, 5 for a target temperature of 65° F and press “**ENTER**”.

If you would like additional information on the DIF growing technique, email us and we'll send more your way!

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