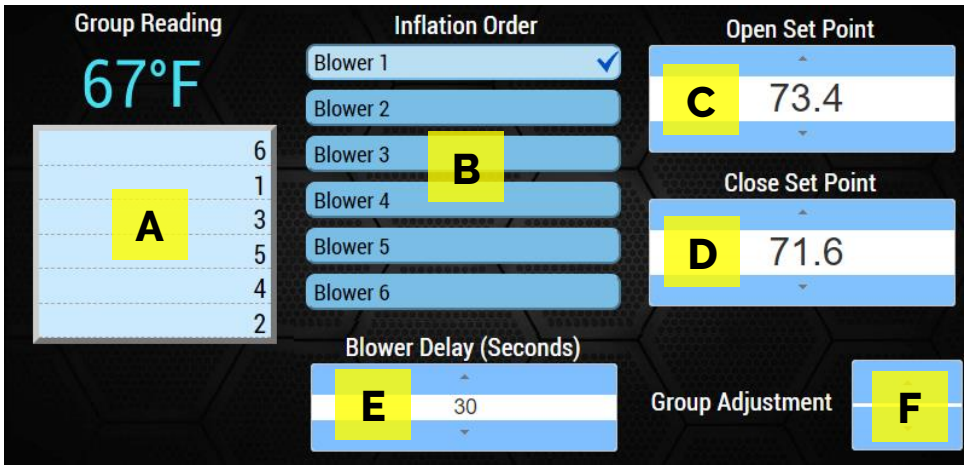
APP-011: Improved AutoFlex air curtain operation

AutoFlex air curtain operation has been improved. The information below describes the new layout and settings, as well as what happens when you update your AutoFlex.

The new air curtain settings



A. This is the status and physical order of the air curtain bags. The numbers correspond with blower numbers in item **B**.

B. This is the list of blowers, in the order they inflate. The blower button that is selected is the one that you can adjust the open and close set points for. The set points for blower 1 must be higher than the ones for blower 2, and so on.

C. This is the temperature at which the selected blower switches off and the airbag opens.

D. This is the temperature at which the selected blower switches on and the airbag closes.

E. This is the wait time after inflating or deflating a bag. Immediately after a relay switches on or off, the system waits for the blower delay before reading the temperature and deciding what to do next. This prevents all relays from switching on at the same time.

F. This adjusts the open and close set points for all blowers by the same amount.

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What happens to your previous settings

The previous method used a set point, idle band, and blower delay. In the new method, blower delay stays the same, but idle band is no longer required. The set point is used to calculate the **open set point** and **close set point** for each blower.

Here is how AutoFlex calculates the new set points. We will use a set point of 72°F from our previous method and six blowers as an example.

- The previous set point becomes the **open set point** for blower 1. AutoFlex subtracts 1.8°F (1°C) for the **close set point**.
- The **close set point** for blower 1 is the **open set point** for blower 2. AutoFlex again subtracts 1.8°F.
- The process repeats for all blowers.

Blower	Open set point		Close set point
1	72.0	– 1.8	70.2
2	70.2	– 1.8	68.4
3	68.4	– 1.8	66.6
4	66.6	– 1.8	64.8
5	64.8	– 1.8	63.0
6	63.0	– 1.8	61.2

How it works

- When the temperature is below the close set point for the last blower (6 in our example), all blowers are on and all airbags are closed.
- When the temperature rises above the open set point for blower 6, the blower shuts off and the airbag opens. AutoFlex then waits for the blower delay.
- After the blower delay, AutoFlex reads the temperature and then:
  - If the temperature is stable, leaves the blowers as they are.
  - If the temperature rises above the open set point for the next blower, that blower shuts off and the airbag opens.
  - If the temperature falls below the close set point, that blower switches on and the airbag closes.

Additional information

If you have questions or require any additional clarification, please contact your dealer or Phason customer support.

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