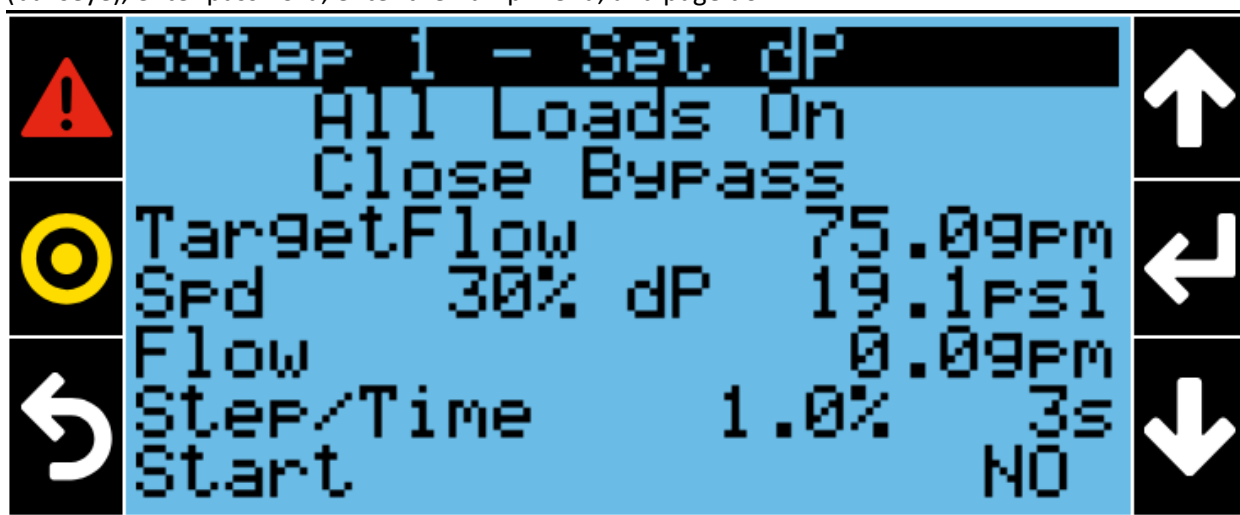




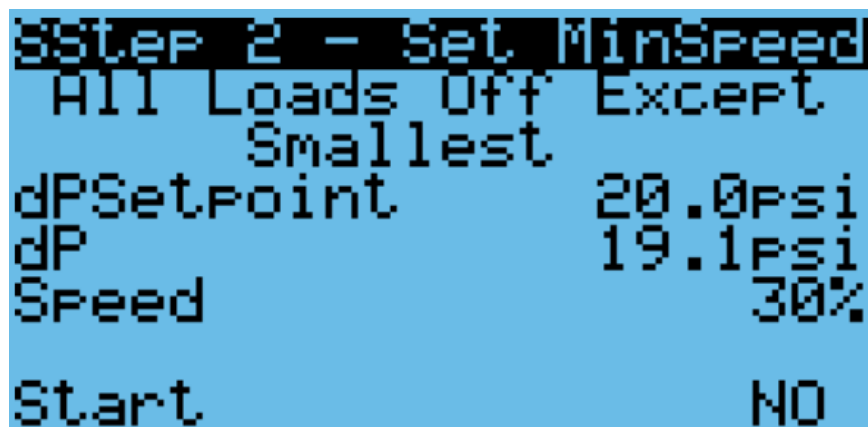
Setting Differential Pressure Setpoint and Bypass Valve

Secondary Glycol

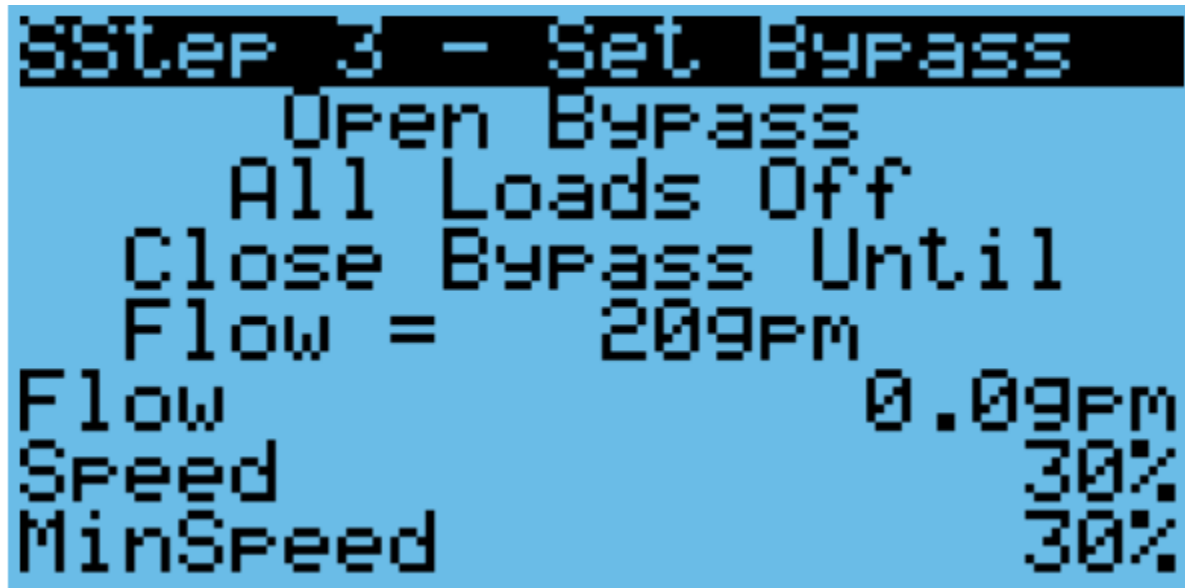
1. With all loads on, close bypass valve.
2. Within the Carel CpCO keypad display, navigate to the Step 1 – Set dP screen by pressing Menu (bullseye), enter password, enter the Pump menu, and page down.



3. Enter Target Flow based on the total flow requirement for attached loads.
4. Move the cursor to “Start” and change No to Yes, then Press Enter. Controller will progress through a sequence to find the Differential Pressure to provide correct flow rate to the refrigeration load. This will take a few minutes, and you won’t see the speed change for at least 30 seconds. This is normal.
5. When completed, the “Yes” will change back to “No”.
6. Turn off (close) all attached loads except for the smallest (by flow rate). Page down to Step 2 – Set MinSpeed.



7. Move the cursor to "Start" and change No to Yes, then Press Enter. Controller will progress through a sequence to find the minimum pump speed corresponding to the correct differential pressure through the smallest load. This will take a few minutes, and you won't see the speed change for at least 30 seconds. This is normal.
8. When completed, the "Yes" will change back to "No".
9. Open bypass valve and turn off (close) all attached loads. Page down to Step 3 – Set Bypass.



The screenshot shows a monochrome LCD display with a black background and white text. The text is arranged in several lines, with some lines indented. The first line is the title 'Step 3 - Set Bypass'. The subsequent lines are instructions: 'Open Bypass', 'All Loads Off', and 'Close Bypass Until'. Below these are two lines of data: 'Flow = 209PM' and 'Flow 0.09PM'. The last two lines show 'Speed 30%' and 'MinSpeed 30%'. The text is in a simple, pixelated font.

```
Step 3 - Set Bypass
  Open Bypass
    All Loads Off
  Close Bypass Until
    Flow = 209PM
  Flow 0.09PM
  Speed 30%
  MinSpeed 30%
```

10. This step will require two people in contact by radio or phone, or a way to remotely view the controller display from the location of the bypass valve. Slowly close bypass valve, watching the Flow and Speed decrease, until the Speed is equal to the Minimum Speed AND Flow is equal to the minimum flow displayed on the screen. Do not close the bypass valve beyond what makes the flow match the minimum flow.
11. Repeat process from Step 1 when new load is added.