Drum Vacuum System Manual Operation

Applies to

ThermoFlex

Background

Manual operation is performed to verify that the Drum Vacuum Drive (DVD) works and that it is wired correctly.

Tools and parts

- Allen Key – 2.5mm
- Wrench (any size)

Steps

1. After the system is integrated, turn on the power to the DVD.
2. To remove the DVD cover:
   - Use the 2.5mm Allen key to remove the 24 screws holding the cover to the DVD assembly.
   - Gently lift the cover off and away from the DVD assembly.
   - Carefully place the cover on a clean surface so that it does not get damaged.
3. Use the wrench to twist the bar clockwise on the DVD's power disconnect switch until the tiny handle on its end is completely vertical. The unit will turn on.
4. Press the Local/Remote button on the Magnetek Drive inside the DVD.
5. The two red LED's, located on the right side above the display, must not be illuminated.
6. Press "DSPL" button until frequency reference parameter appears. Using the arrow keys, scroll up to 60Hz and press "Enter".
7. Press the "Run" button. The red LED on the "Run" button should illuminate.
8. Verify that the pump activates.
9. Press the "DSPL" button once; the output frequency displayed must be 60Hz.
10. Verify that air is being sucked into the ThermoFlex machine's Drum. If air is being blown out:
    - Press the "DSPL" button until the Forward/Reverse parameter appears.
    - Press "Enter" and select the opposite direction from what is currently selected.
    - Press "Enter" once more to save the change.
11. Press the "DSPL" button until the frequency reference parameter appears.

Using the arrow keys scroll up to 80Hz and press “Enter”.

12. Subjectively determine that the pump speeds up.
13. Press the “DSPL” button once; the output frequency displayed must be 80Hz.
14. Press the “Stop/Reset” button.
15. The red LED on the “Run” button must not be illuminated and the pump motor should stop.

Notes

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