**Auto-Draft® Model VSAD with a UC1 Control**  
(Adjustable - Fixed Speed)

**WARNING**
Remove power to Universal Control when installing, servicing, or changing dip switch settings. Failure to do so may result in personal injury and/or equipment damage. LED #5 (RED) should not be on if power is removed from the control.

**NOTES:**
1. Verify that the input voltage matches the VFD’s nameplate BEFORE applying power or severe damage will result.
2. VSADs have a cooling fan, which is to be wired into F1 and F2 on the VFD terminal strip.
3. Verify that the VSAD rated voltage and the VFD rated output voltage are the same. If not correct, severe damage will result.
4. For vertical termination of the VSAD, connect to the orange wire and cap off the gray wire as shown.
5. All wiring must be in metal conduit.
6. DO NOT run input and output wiring in the same conduit.
7. For appliance interlock, use UC1 instructions.
8. To reverse rotation, move the gray jumper from S1 to S2.

**IMPORTANT:**
Perform a safety interlock and operational test as outlined in the installation manuals.

**PROJECT:**

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**LEGEND:**
- 5 VDC BOARD-GENERATED POWER
- DO NOT SUPPLY POWER!
- 24 VDC
- 115 VAC
- 115 VAC OR 230 VAC (See note 2)
- 230 VAC OR 460 VAC

**NOTE:**
Check motor rotation (See VFD instructions)

**VFD CONTROL BOX**

**TJERNLUND DRIVE MODEL**
`VFD-__________O3`
"O" means "Open Loop"

**VSAD WEATHERPROOF BOX AND WHIP**

- BLACK
- ORANGE
- GRAY
- GREEN
- VIOLET
- RED
- YELLOW

**WARNING**
All wiring must be in metal conduit or shielded cable. Maximum length 300’ (91m) @ 230 VAC and 100’ (30m) @ 460 VAC.