





## DN SERIES QUICK-START GUIDE


This unit should be started up for a brief period immediately after high and low-voltage wiring are complete. The purpose of the initial start-up is only to verify correct fan rotation direction and that the dampers are opening and closing properly. After the unit has been run for a brief period, it is to be shut back down until the entire installation is complete. **The unit is not to be used for building ventilation before the building has been completed.**

### PRIOR TO UNIT START-UP:

- The unit must be in its final location.
- The unit must have a complete set of filters in place.
- High-voltage supply wiring must be complete.
- All low-voltage wiring, to include sensors, must be completely wired.
- All debris or construction materials must be removed from the unit.
- All doors and access panels must be in place.
- Initial start-up should not be performed if the air is laden with construction dust. Filters will quickly become dirty and require changing for other subsequent testing.
- If this unit was purchased with a Remote User Terminal (RUT) for the controller, connect the RUT and perform start-up steps with the RUT. If there is no RUT, perform the start-up steps by using the buttons on the Integrated Programmable Controller.

 <b>WARNING</b>
<b>ARC FLASH AND ELECTRIC SHOCK HAZARD</b>
All DN models operate on high voltages that can cause severe electric shock. Some models use high voltages that are capable of causing dangerous arc flash. Whenever accessing any part or component of the DOAS, disconnect all electric power supplies, verify with a voltmeter that electric power is OFF and wear protective equipment per NFPA 70E when working within the electric enclosure. Failure to comply can cause serious injury or death.
<b>The unit disconnect switch contain live high-voltage.</b> The only way to ensure that there is NO voltage inside the unit is to install and open a remote disconnect switch and verify that power is off with a voltmeter. Refer to unit electrical schematic.
Follow all local codes.

 <b>CAUTION</b>
<b>RISK OF ELECTRIC SHOCK OR EQUIPMENT DAMAGE</b>
Whenever electrical wiring is connected, disconnected or changed, the power supply to the unit and its controls must be disconnected. Lock and tag the disconnect switch or circuit breaker to prevent accidental reconnection of electric power.

 <b>CAUTION</b>
<b>RISK OF CONTACT WITH HIGH-SPEED MOVING PARTS.</b>
Disconnect all local and remote power supplies, verify with a voltmeter that electric power is off and all fan blades have stopped rotating before working on the unit.
Do not operate this unit with any cabinet panels removed.

### UNIT START-UP:

**See the images on the following page.**

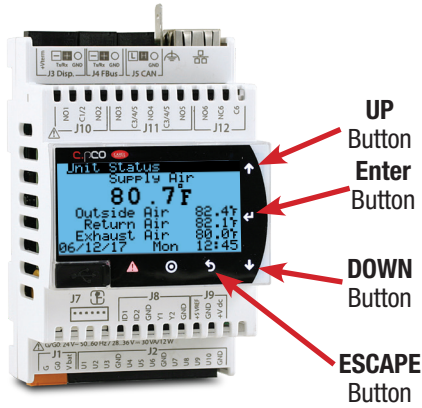
- Turn the main disconnect switch to "ON". The controller and RUT will immediately begin a boot-up sequence. When the boot-up sequence is complete, the Home Screen will appear.
- Push the Escape button on the controller keypad (or RUT) to go into the Main Menu.
- Use the UP and DOWN arrow buttons to highlight the UNIT ENABLE line.
- Click the ENTER button to go into the UNIT ENABLE sub-menu.
- Use the UP and DOWN arrow buttons to change the Unit Enable value to "ON"
- Click the ESCAPE button again to exit the menu screen and return to the Main Menu.

The DOAS is now powered up and the dampers should begin moving. Once the dampers are in their programmed positions, the fans will begin to run.

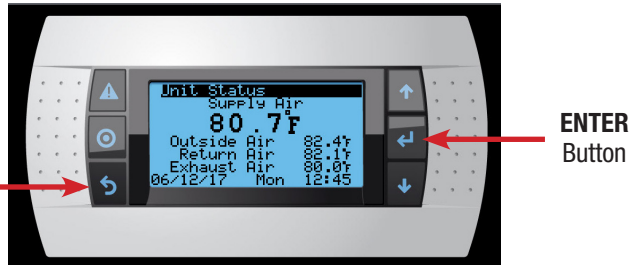
Fan speeds are set at the factory at a nominal 25% of maximum speed.

- Verify that fans are turning the correct direction and that dampers are functioning. If fan rotation is reversed, change any two of the three- phase high-voltage supply wires.
- Shut down the unit by switching UNIT ENABLE back to OFF and turning the disconnect switch to OFF.
- Secure all panels and doors to prevent accidental access to live high-voltage or to the fans.**

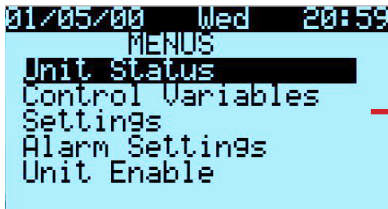
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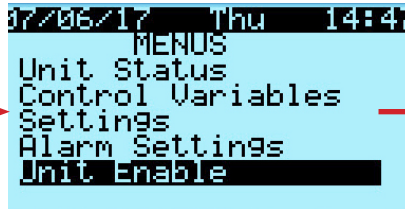
Integrated Programmable Controller



Optional Remote User Terminal (RUT)



Main Menu Screen



Highlight and Click on UNIT ENABLE



Click UP or DOWN Arrow Button to Change Status to ON.  
Click the ESCAPE Button to Return to the Main Menu.



NOTE: Access to the Main Menu does not require a passcode. If you wish to access the Service Menu, you will be asked for a passcode. Use "1000" for the passcode.



NOTE: To change setpoints and unit configurations, see the DOAS Integrated Programmable Controls User Manual furnished with the unit.