



## TQI Series Quick Start Manual

### A. Setup

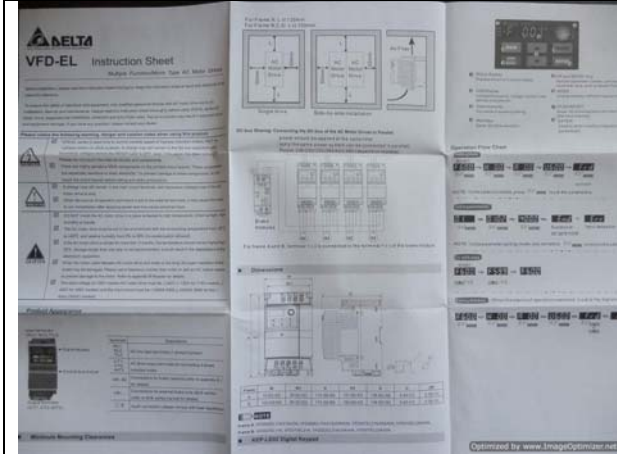


1. The TQI series comes in 2 separate packages, namely :
  - The AC Motor Drive (Inverter, or Variable Frequency Drive), as designated 1 of 2 on the box.
  - The pump, as designated 2 of 2 on the box.



- 2 Check the input power specification as listed on the nameplate of the AC Motor Drive to make sure it conforms with the user's application (either 1 $\Phi$  115V or 1 $\Phi$  230V)

**Caution : Failure to do so might result in personal injury and equipment damage.**



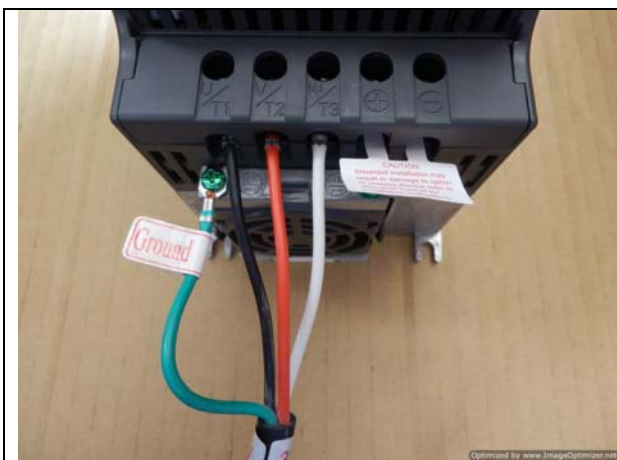
3. Mount the AC Motor Drive in a location with good ventilation as described in the "Delta" Instruction Sheet.



4. Wiring connection – Pressure Sensor

Connect the "Red wire" to the "+10V" terminal, and the "White wire" to the "AVI" terminal.

Check also that the dip switches are set at the "NPN" and "ACI" position.



5. Wiring connection – Pump Motor

Connect the pump motor power cables "Black", "Red", "White", and "Green" to the "U", "V", "W", and "Ground" terminals.



#### 6. Wiring connection – Pump Motor

Check the rotating direction to make sure it's spinning clockwise viewing from motor fan cover.

**Caution:** To correct the rotating direction, just swap any 2 of the 3 motor power cable connections.



#### 7. Wiring connection – Input Power

Connect the 1 $\Phi$  input power cables to the "L1", "L2", and the "Ground" terminals. (cables not included)



#### 8. Turn on the Input power, the display should show "3.0:0.0", "Frd", " 3.0", "H 0.0", "A 0.0", in sequence every time the "MODE" key is pressed once.

"3.0:0.0" – displays the preset and actual pressure in kgf/cm<sup>2</sup>. Default preset = 3.0 kgf/cm<sup>2</sup> (43 psi).

"Frd" – displays the rotation direction.

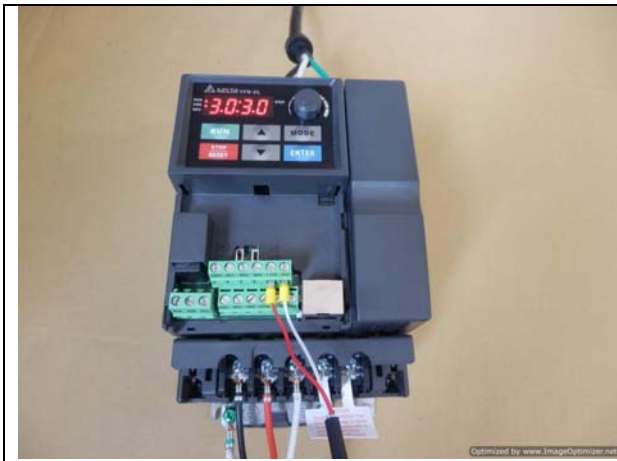
" 3.0" – with the right digit flashing, this is the mode where the user can adjust the preset constant pressure by the "Up" and "Down" keys.

"H 0.0" – displays the output frequency to the motor.

"A 0.0" – displays the output current.



9. Press the "RUN" key to run the pump. Press the "STOP" key to stop the pump.



10. The pump will start and stop automatically in accordance with the water demand. And the actual pressure will be kept constant at the preset value when water consumption is reduced.

Caution :

The "ENTER" key is for parameters programming only. Do not manipulate with this key unless you are familiar with the procedures.





## B. Adjustment of Preset Pressure



1. Press "MODE" to scroll the display to " 3.0" (with the right digit flashing)



2. Press the "Up" or the "Down" key to change the value to the desired value, e.g. 3.5 kgf/cm<sup>2</sup>.



3. Press the "MODE" key to scroll the display back to the "preset:actual" screen.