



## HV 3kw-7.5kw GD350-RAETTS Built in Inverter Unit

### INITIAL SETUP GUIDE

The full set of operating instructions and operating parameters is available on the Airtec website.

**Failure to comply with the instructions may lead to injury or death!**

#### 1) STEP ONE

- 1) Unpack the unit and inspect it for any damage.
- 2) Mount the fan unit in a suitable location.
- 3) **Ensure** that the supplied air filter is connected to the fan inlet.
- 4) **Ensure** the fan outlet is connected and not obstructed.
- 5) Remove the cover from the terminal box located on the rear of the fan unit.
- 6) Check to see if there is a link wire between the COM and S1 terminals on the input terminal block
- 7) **Remove link if present before proceeding!** (move the small orange bars to the right to release the wires)
- 8) Connect a Suitable 3 phase 415V power supply on to the R. S. T. terminals. + The Earth connection
- 9) Replace the cover and turn on the power supply. (display should show 0.0.0.0.0 flashing then change to show 600.0 flashing. **(this is the home screen)**).
- 10) Check the led indicator lamp above local/remote label on the display screen.
- 11) If the local/remote led is on or flashing, follow steps on Resetting the Keyboard
- 12) If the led is not illuminated or flashing go to Check Motor Direction

### RESETTING THE KEYBOARD

*Note; when changing the settings below the numbers that are underlined should be flashing*

- 1) Press PRG/ESC key the display should show P00
- 2) Press SHIFT key the display should show P00
- 3) Press DATA/ENT key the display should show P00.10
- 4) Press ^ ARROW the display should show P00.19
- 5) Press DATA/ENT key the display should show 0.0.0.0.0.0
- 6) Press ^ ARROW display should show 0.0.0.0.1
- 7) Press DATA/ENT key the display should show 1
- 8) Press v ARROW key the display should show 0
- 9) Press DATA/ENT key the display should show P00.20
- 10) Press v ARROW key until the display shows P00.12
- 11) Press DATA/ENT key the display should show 0020.0
- 12) Press PRG/ESC KEY the display should show P0.0
- 13) Press DATA/ENT key Use Arrow keys to select P00.01
- 14) Press DATA/ENT key
- 15) Use Arrow keys to select 0
- 16) Press DATA/ENT key
- 17) Press PRG/ESC key twice to return to the home screen

### CHECK MOTOR DIRECTION.

To check rotation of motor is correct as indicated by the arrow on the fan casing.

Look into the perforated guard on the rear of the motor Press the **green** Run key followed shortly after by the **red** stop key.

If The motor is running in the opposite directed follow these steps to reverse it.

- 1) Press PRG/ESC key
- 2) Use Arrow keys to select P0.0
- 3) Press DATA/ENT key
- 4) Use Arrow keys to select P00.13
- 5) Press DATA/ENT key
- 6) Use Arrow keys to select 1
- 7) Press DATA/ENT key
- 8) Press PRG/ESC key twice to return to the home screen

### AUTO TUNE MOTOR GUIDE

- 1) Press PRG/ESC key
- 2) Use Arrow keys to select P0.0
- 3) Press DATA/ENT key
- 4) Use Arrow keys to select P00.15
- 5) Press DATA/ENT key
- 6) Use Arrow keys to select 2
- 7) Press DATA/ENT key
- 8) Press green Run key (the motor should run for a short while, once complete the display will show -END- then it will revert to the home screen.

### RUN AND STOP

Now the basic set up is complete the unit can be used as required Using the **RUN** and **STOP** buttons on the key pad. Now the fan speed can now be changed if required.

### SPEED CHANGE GUIDE

*From home screen (the current speed in Hz should be flashing)*

- 1) Press PRG/ESC key display should show P00
- 2) Press DATA/ENT key display should show P00.10
- 3) Press DATA/ENT key should show current speed set in Hz
- 4) Use ARROW keys ^v <> to change the speed (min 0 -max 600Hz)
- 5) Press PRG/ESC key twice to return to the home screen (this should now show the new speed)

### REMOTE CONTROL OPERATION

If a remote start/stop is required the terminals COM and S1 will need to be linked using a latching switch or relay. The Input control setting will also need to be changed as follows .

Note: the keypad can not be used to run/ stop the fan at the same time as a remote control.

- 1) Press PRG/ESC key
- 2) Use Arrow keys to select P0.0
- 3) Press DATA/ENT key
- 4) Use Arrow keys to select P00.01
- 5) Press DATA/ENT key
- 6) Use Arrow keys to select 1
- 7) Press DATA/ENT key
- 8) Press PRG/ESC key twice to return to the home screen

### SCREEN DISPLAY INFORMATION

The information on the display screen can be changed by using the shift key to select the required information and then hold the shift key to store the change.