



# ECO-HOME

## Constant Pressure Inverter Booster Pump

*Your gratification to enjoy constant water supply  
at private home is our mission*

# ECO-HOME

## Constant Pressure Inverter Booster Pump

Constant pressure range: 1.5 bar -3.5 bar  
 Frequency range: 50Hz - 60Hz  
 Protection grade: IP 65

Constant pressure range: 1.5 bar -3.5 bar  
 Frequency range: 50Hz - 60Hz  
 Protection grade: IP 65

Max. Ambient temperature: 45C  
 Ambient humidity: Less than 90%

Power Supply Required: 220-240V +/-10%

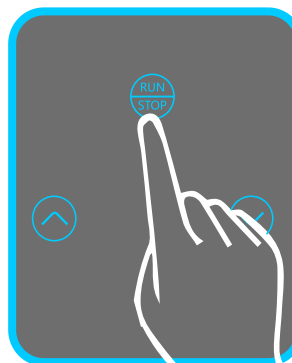
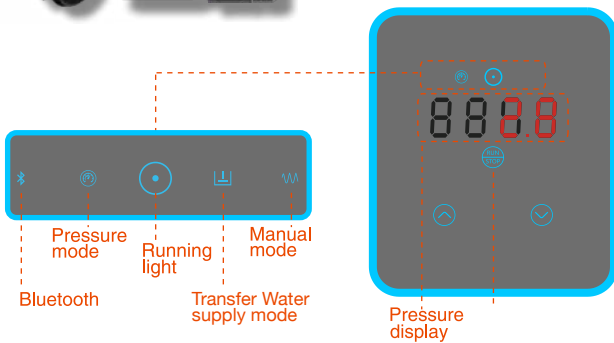
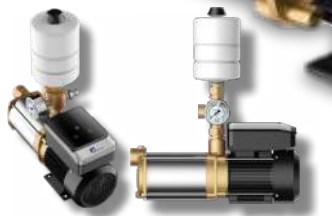
### Pump Specification

**Eco-Home 2-40**  
 Capacity: 1.5-3.5m3/hr  
 Head: 3.2-1.8 bar  
 Power Rating: 0.55KW

**Eco-Home 4-40**  
 Capacity: 2.0-7.0m3/hr  
 Head: 3.5-1.8 bar  
 Power Rating: 0.75KW

Release air by unscrew the priming nut before commence the operation

Single phase power supply: 220-240



- RUN/STOP
- UP/+    DOWN/-
- MANUAL MODE
- Enter the menu
- Current display
- Voltage Display

| MENU                             | SETTING RANGE  | DEFAULT |
|----------------------------------|--|---------|
| 00 Motor Running Direction       | 0/1 CW/CCW   | 0       |
| 01 Motor Working Frequency       | 35-65 Hz   | 50      |
| 02 Pressure Transmitter          | 10 bar   | 10      |
| 03 Carrier Frequency             | 5-16KHz  | 13      |
| 04 Motor Starting Acceleration   | 0-99sec  | 30      |
| 05 Motor Stop Acceleration       | 0-99sec  | 10      |
|                                  | The smaller, the easier to stop (Stop Delay time)                                  |         |
| 06 Starting Pressure Differences | 0.2-0.5bar   | 0.3     |
| 07 Anhydrous Judgement Pressure  | 0.2-1bar   | 0.4     |
| 08 Leakage Alarm                 | 0(Stop)/1(Bypassed) (For Current Protection Switch, 0 No protection, 1 Protection) | 1       |
| 09 Leakage Judgement Time        | 1-10min  | 2       |
| 10 Percentage Value P            | 1-99   | 8       |
| 11 Integral Time I               | 1-99   | 6       |
| 12 Differential D                | 0-50   | 1       |
| 13 Water Tower Mode Switch       | 0/1  | 1       |
| 14 Water Tower Mode Delay        | 0-99min  | 30      |
|                                  | Start the countdown when the pressure is lower than the starting pressure          |         |

| CONTENT                               | REASONS  |  |
|---------------------------------------|--|--|
| E01 Over voltage                      | NO   | Try to reset again after 1 minute and try again after 30 minutes |
| E02 Low Voltage                       | Rated Voltage -15%   |  |
| E03 Sensor Fault                      | Open Circuit, Short Circuit  |  |
| E04 Leakage Alarm                     | Pipeline Leakage   | Check pipeline leakage   |
| E05 Serial Communication              | Communication failure between panel and baseplate  | Check the wiring   |
| E06 IPM module protection             | Module Over current protection   | Check Motor Wiring   |
| E07 Overcurrent (Overload) protection | Stop (more than 2 times the rated current and 1.5 seconds), and stop (more than 1.5 times the rated current and 60 seconds)                                    | Check Motor and Pipeline   |
| E08 Overheating protection            | The IPM module was shut down after 5 minutes when the temperature was over 90 degree, Reset and start after 10 minutes, try to restart again after 30 minutes. | Check the inverter has any effect of heating dissipation         |
| E09 Pressure of Water shortage        | Run for 1 minute lower than water shortage pressure, stop for 1 hour.  | Check water inlet pipe, water tank                               |
| E10 Float Water shortage              | Tank without water   |  |
| E11 Motor out of Phase Protection     | Manual recovery  | Check Motor Winding  |





## Parallel Pump Setting

### Step 1

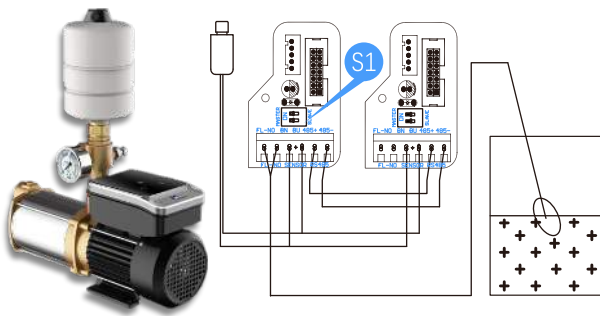
Hardware Setting - Set S1 switch that needs to be set as the **MASTER VDF** to the Master position, and all other **VFDS** to the SLAVE position.

### Step 2

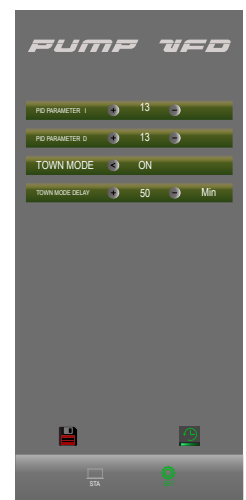
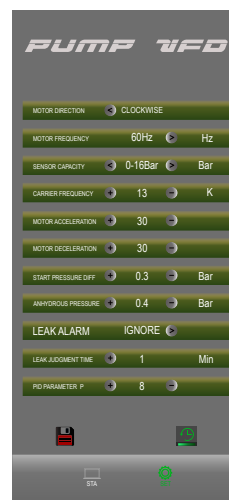
Software Setting - Set **MASTER, SLAVE** as A0, A1, A2, A3 respectively in order.

### SOFTWARE SETTING MENU WAY

**VDF** power on, **LED** light, then display **Version** number, Press **UP** button to display **A0**, Press **UP** an **DOWN** button to adjust the machine serial number as requires.



## Mobile Apps





**Authorized Dealer**

KEKALBOLEH SDN BHD  
(199901021248/496148-K)  
Lot No. 7, Lorong Perindustrian Kolombong Jaya,  
Pusat Perindustrian Kolombong Jaya,  
Mile 5.5, Jalan Kolombong,  
88450 Kota Kinabalu, Sabah.  
Tel/WhatsApp: 088-385555 / 013-8867570  
Website: kekalboleh.com