

ELECTRICAL INSTALLATION MANUAL

NUMBER 2 - April 2010

UltraClear

WASTE WATER TREATMENT SYSTEMS

MODELS - ST10, ST8 & Commercial Systems

ELECTRICAL CIRCUIT SPECIFICATIONS ULTRA CLEAR AWTS

IMPORTANT: This manual must be given to your electrical contractor with the control box and the alarm panel.

The Ultra Clear AWTS warranty will be void if these Specifications are not adhered to.

The power source circuit is to be connected to a dedicated single phase plus earth circuit, protected by a 16 amp MINIMUM circuit breaker of 8Ka or greater type suitable for motor start, such as Weber/Martec As168 type or Clipsal "U" type; and marked as **ULTRA CLEAR**. Minimum cable size 2.5mm. Connected to and run from an EXTERNAL building switchboard.

The alarm panel is a low voltage device (12 volt) that decodes a data signal from the main control box at the treatment tank. A two conductor cable with a minimum cross sectional area of 0.8mm per conductor is required to inter-connect the two. It is normal practice to use 1mm squared twin TPS if the alarm plate conductor is in the same conduit as the power feed. The two conductors are not polarity conscious, and may be connected any way around.

The alarm panel is fitted with a rechargeable backup battery which has been left disconnected from factory and must be activated before final installation in the wall. Two batteries are supplied in alarm. The battery link must be put in the on position for the battery backup to work after electrical connection has been completed.

The alarm panel has three LEDs. **Under normal operating conditions, the green power led will light.** If power supply to the treatment system fails, the power led will flash on briefly every 3 seconds, and the alarm will give a brief beep in sequence with the power led. This beep can be muted for 24 hours.

NOTE: Electrical work must be carried out in accordance with A.S. 3000 and Supply Authority Rules. A "Notification of electrical work" certificate must be lodged with the Supply Authority for your wiring.

Continuous running current is 0.6 amp with a maximum intermittent current up to 3.1 amps (dependent upon submersible pump size).

WARNING: Water resistant control box IP55. Power supply to be made on external points of control box only. The intrusion of control box will void warranty.

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UCEIM 75
Revision 2
12/01/2012

GREEN INPUT TERMINAL BLOCK

12 VOLT SUPPLY TO ALARM

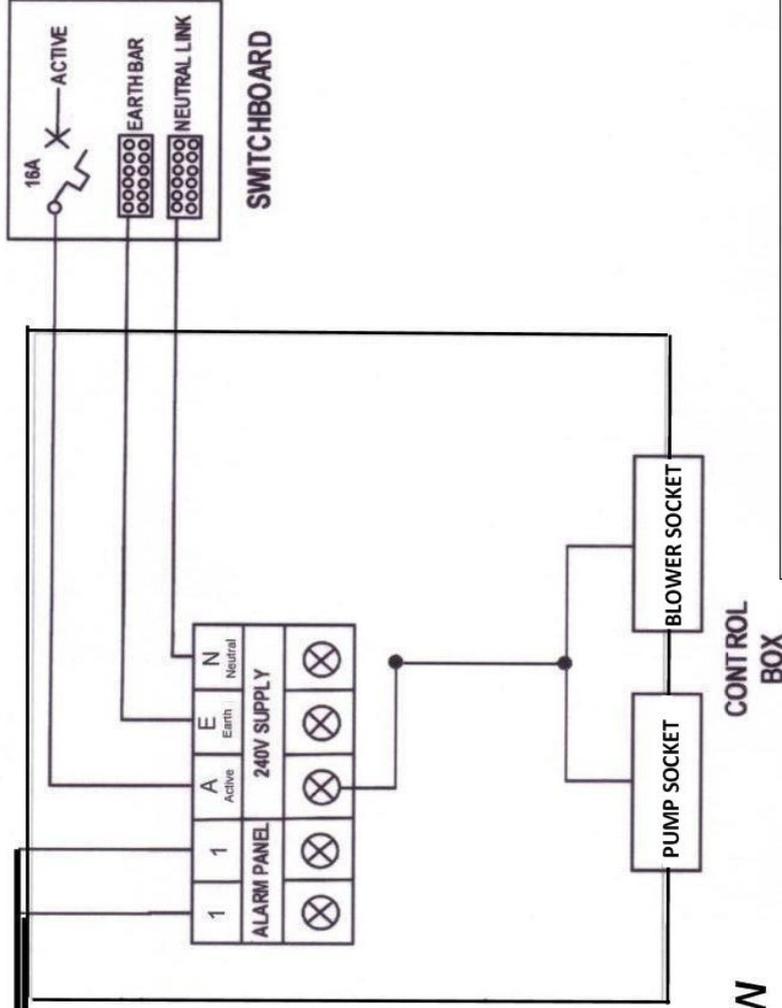


BACK VIEW



FRONT VIEW

ALARM PANEL FITTED IN HOUSE

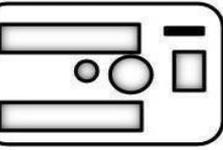


ALARM PLATE BACK VIEW

OFF POSITION



MOVE THE LINK FROM OFF TO ON POSITION



ON POSITION



Ultra Clear WASTEWATER TREATMENT SYSTEMS
DRAWING NOT TO SCALE
ELECTRICAL CONTROL SYSTEM
UCEIM 75
Revision 2
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