

# MINERALPLUS CHLORINATOR



SAFETY – IF IN ANY DOUBT ABOUT THE SAFETY OF THE UNIT OR IF THE UNIT MALFUNCTIONS THEN PLEASE TURN OFF POWER TO THE UNIT AT THE POWER POINT AND DISCONNECT THE POWERCORD AND CALL FOR SERVICE. PLEASE NOTE THAT DANGEROUS VOLTAGES ARE ALWAYS PRESENT INSIDE THE UNIT, IRRESPECTIVE OF THE SETTING OF THE FRONT PANEL SWITCHES OR TIME CLOCK.



SAFETY – STORAGE OF CHEMICALS

## **NEVER STORE CHLORINE & HYDROCHLORIC ACID IN THE SAME AREA!**

They are both very active chemicals and can react, if accidentally mixed, with explosive results.



SERVICING SHOULD ONLY BE ATTEMPTED BY TRAINED TECHNICIANS. UNTRAINED PERSONNEL SHOULD NOT ATTEMPT TO REMOVE THE COVER OF THE POWER PACK.

## LOCATION AND INSTALLATION

To ensure compliance with regulations, safety in operation and long term reliability please observe the following:

- Unit to be installed by qualified personnel.
- Power Pack to be installed according to AS/NZ 3000:2000 and located outside pool Zone 2 area.
- Warranty is null and void if it is installed in direct sunlight or enclosed in a hot area. Adequate ventilation must be provided around the Power Pack.
- Protection to be provided from inclement weather.

### 1. POOL WATER PREPARATION

- a. Ensure the conductivity level of the pool is at least 3500ppm.
- b. **The minerals must be dissolved completely before the chlorinator is turned on.**

### 2. MOUNT THE POWER PACK

- a. Screw mounting bracket to wall or post with slots facing upwards and within 1.5 meters of the power outlet and within 1.5 meters of the filter's return to Pool Line.
- b. Place back of Power Pack to mounting bracket and slot into place.
- c. **NOTE: DO NOT MOUNT IN DIRECT SUNLIGHT**

### INSTALLATION OF THE CELL

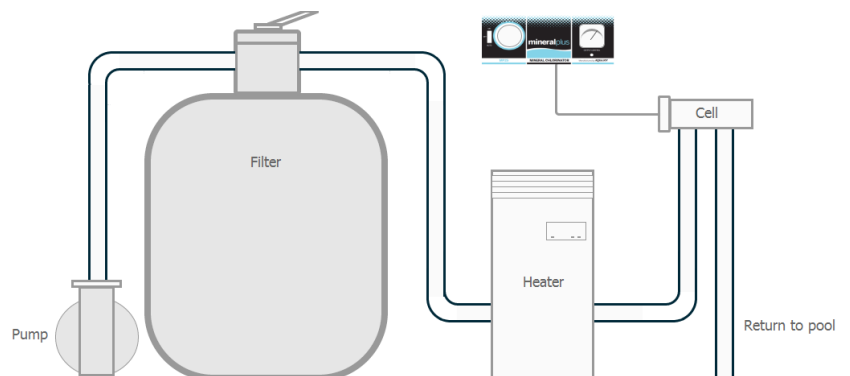
Determine Filter Return to Pool Line.

- a. Cell must be in a horizontal position with inlet and outlet sockets facing downwards as per diagram.
- b. Cell must be installed after the heater (where fitted) and Solar Systems. Pool cleaner pump motors that draw water from the return to pool line should be fitted after the Cell for correct pool chlorination.
- c. **CAUTION:** It is very important that no gas generated from the Cell can find its way back into the Filter Pump, Heater, Solar Systems or Spa Blowers.
- d. When position to install cell has been decided, turn off the filter and CLOSE OFF VALVES.
- e. If the Return to pool line is 40mm pipe, use 50-40mm reducers provided. If 50mm pipe, glue pipe/fitting direct to inlet and outlet ports.
- f. Connect the Cell lead to the base of the **mineralplus** power pack.

### Cell Connection



### Installation Diagram



## OPERATION / START UP PROCEDURE

1. Set Time clock and operating times.
2. Set *Pump Switch (on timer)* to "AUTO" position.
3. Adjust *Chlorine Level Knob* to normal green sector after start up by turning clockwise.
4. Turn on Main/s Power supply.
5. Pump and Chlorinator will commence operation when the time-clock setting reaches "ON" position.

NOTE: You may notice dim flashing within the chlorinator during operation at night. This indicates normal operation.

### **SETTING THE TIMER**



This 24 hour timer controls the Pump / Filter / Chlorinator which is switched ON and OFF by the position of the coloured tappets. The chlorinator / pump is ON when the white triangle points to the tappets that have been pushed to the outer perimeter of the time face and OFF when the white triangle points to the tappets that are closer to the numbers on the timer face. Each tappet represents 15 minutes.

The white triangle is located at the 2 o'clock position and should be pointing to current time.)

"AUTO" - for normal operation.

"ON" - for continuous running (overrides timer).

"OFF" - Pump / Chlorinator will cease to operate.

### **UNDERSTANDING THE CHLORINE MONITOR**



*The Chlorine Monitor is an Amp meter and indicates the Chlorine output of your Aquajoy Chlorinator. It does NOT relate to pH control or residual Chlorine in your pool.*

Allow at least 7 DAYS on your pumping program for the pool and cell to "settle in" before placing reliance on the monitor as certain slow chemical changes take place when first adding minerals to your pool.

The Chlorine Monitor is the "CENTRE ZERO" type. For no output to the cell the needle is in the vertical, CENTRE position. The meter alternates between the (+) and (-) positions for each alternate output cycle indicating that the cell is being automatically self cleaned.

The Aquajoy **mineralplus** chlorinator meter is divided into coloured areas. YELLOW, GREEN, ORANGE (see colour coding in lower left hand corner) and the monitor needle position will vary according to the condition of your pool and cell i.e. Salinity or mineral content, pool water temperature and the cleanliness condition of the cell which is an electrolytic generator of chlorine.

The letters A to E at the top of the scale of the monitor are a further reference relating to the indicator needle position within a coloured sector.

A summary of the above information will be indicated as in the following when the output control is set to maximum:

- YELLOW -AB
1. Calcium deposit on cell electrodes and or
  2. Mineral/salt level is low
  3. Very low pool temperature.
- GREEN - CD Normal
- ORANGE - E High output from Aquajoy chlorinator due to
1. Higher water temperature (heated pool) and or
  2. Mineral / Salt level over 5000 ppm.

**NOTE:** *The chlorine monitor is factory calibrated at 25 degrees Celsius water temperature. Higher temperatures will increase needle setting into orange sector.*

SERVICE – CHECK LIST

**BEFORE PICKING UP THE TELEPHONE**

**HAVE YOU COMPLETED THE FOLLOWING  
CHECK LIST?**

1. Is my pH correct?
2. Is my mineral / salt level correct?
3. Are my electrodes clean (Cell)?
4. Am I running the chlorinator long enough?
5. Have I added stabilizer?
6. Have I read my Aquajoy instructions correctly?

Should your Pump Motor fail, or other problems do not allow you to operate your Aquajoy Chlorinator in the normal manner, Sodium Hypo chlorite (liquid chlorine) may be added to keep the pool sterile until the malfunction is corrected.

**WARRANTY**

For a period of 36 months from the date of purchase JOY POOL SYSTEMS warrants to the original purchaser that the AQUAJEY CHLORINATION UNIT shall be free from defects in materials and workmanship. The Cell carries an additional 36 month \*pro rata replacement warranty. Commercial installations are for 12 months on Power Pack and Cell with no pro rata provision on the Cell. The Warranty shall be void if the unit's case or cabinet be opened or altered or modified during this period. If a defect should occur the unit must be returned to JOY POOL SYSTEMS and PROOF OF PURCHASE presented.

Purchases sole and exclusively remedy in the event of defect is expressly limited to correction of the defect by adjustment, repair or replacement at JOY POOL SYSTEMS election and sole expense, except there shall be no obligation to repair items which by their nature are expendable. Such items include electrodes and rectifier devices.

JOY POOL SYSTEMS shall not be liable for loss of profits or benefits, indirect, special, consequential or other similar damages arising out of any breach of warranty of otherwise.

**PLEASE NOTE:** Labour and or service calls are not included in this warranty. No replacement parts will be supplied prior to the return of any faulty parts. Freight on returns is the responsibility of the purchaser.

Warranties shall be void if correct installation is not adhered to as outlined in the installation procedures.

Warranties shall be void if wired incorrectly. It is the owner's responsibility to ensure correct wiring at the time of installation.

Warranties shall be void if cell shows signs of excessive acid or too strong a concentration of acid is used in washing of the anodes of the cell.

Warranties shall be void if cell anode electrodes are engulfed in deposits and the owner fails to remove such deposits.

Warranties shall be void if the pool size exceeds the rated Cell size or mineral / salt levels are less than 2500 as shown on a salt conductivity meter.

\*Pro Rata starts on completion of the first 36 month warranty.

**NOTE:**

Unit must be returned for service to:

**JOY POOL SYSTEMS**

ACN 141 035 172 ABN 66 141 035 172

Unit 21/2 Richard Close, North Rocks NSW 2151 Australia

Telephone: +61 2 9630 5011 Fax: +61 2 9683 4750

Email: [sales@aquajoy.com.au](mailto:sales@aquajoy.com.au) Website: [www.aquajoy.com.au](http://www.aquajoy.com.au)

# MineralPlus

## Installation and warranty sheets

