

OTHER DISPLAYS

ADD SALT. The 'add salt' LED will come on when the chlorine production has been running for at least 10 minutes and the cell "efficiency" is below 65%. This corresponds to a salt concentration of 5500ppm, and may indicate that salt needs to be added. Check the cell for build up, and the salt concentration by other methods before adding salt, and allow time for the added salt to dissolve and circulate before checking the 'add salt' LED again.

ALARM. The 'alarm' LED will be on if the unit cannot adjust itself to suit the cell. This may indicate a problem with the cell, or with the cell wiring, ie short or open circuit.

TRIP. The display will show 'triP", if the current to the cell is too high. If this happens, all filter pump and chlorination functions will stop. After checking the cell for any problems, press the 'power' button to set 'automatic' or 'manual' operation as required. The unit may require maintenance if the trip feature occurs to often.

EEEE. The display will show 'EEEE", if it has found an internal fault. The unit may not operate correctly and may need maintenance.

NOTES:

OUTPUT BAR GRAPH. It is possible for the 'output' bar graph to display a cell "efficiency" of greater than 100%. The calculations for the display are based on an ideal salt concentration of 5500ppm, or 0.55%. If the salt concentration is higher than this it will be reflected in an efficiency reading greater than 100%. Ideal pool salt levels are quoted as being anywhere from 3000 ppm to 8000 ppm, depending on the information source, therefore, calibration of this feature is always a compromise. Pressing the 'mode' button five times will display the cell "efficiency" as a percentage for five seconds. There are averaging calculations involved in calculating the cell's "efficiency" and the display of the output "bar graph", so the unit needs to be stable for several minutes before a meaningful reading can be assumed.



Chlorinator / Timer

Model C2020

On The Web: www.asconpool.com

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C2020 CHLORINATOR/TIMER

The C2020 unit is designed to give you year round automatic control of pool systems with a filter pump, where automatic chlorination is required. By following these simple installation and operating instructions you will enjoy trouble free operation for many years.

THIS UNIT IS COVERED BY A 2 YEAR LIMITED WARRANTY. Please refer to web site for warranty details.

CAUTION:
DO NOT OPEN THE CASE OF C2020 UNIT. IT IS NOT USER SERVICEABLE. IF THE POWER CORD IS DAMAGED, IT MUST BE REPLACED BY THE MANUFACTURER OR AN AUTHORISED AGENT. OPENING THE CASE WILL VOID YOUR WARRANTY.

INSTALLATION

The C2020 unit is weather resistant, however it should be mounted in a sheltered position where it is not exposed to direct weather, splashing or spray from the pool or filtration equipment. **Electrical building regulations specify that the C2020 unit must not be mounted within 3 meters of the pool.**

Fix the unit to a wall or post, within 1.5 meters of a 240 volt outlet and within 2 meters of the Filter pump. Mounting points are provided on the back. This C2020 unit must be installed in the upright position. (Cables and mains sockets downwards).

Power connection.

Power is supplied through a standard 'always on' 240 volt lead. Power for the unit's filter pump comes from socket on the bottom of the unit.

Maximum pump rating - 1.5HP

Cell connection

The unit is designed to operate with a 15A, 20A or 25A chlorinator cell. This is connected to the terminal block on the bottom of the unit.

Ensure that the cell rating matches the cell rating of the C2020 Unit

ONLY THE FILTER PUMP IS TO BE CONNECTED TO THE C2020 UNIT'S OUTLET. MORE THAN THIS WILL DAMAGE THE ELECTRONICS AND VOID YOUR WARRANTY.

INITIAL POWER UP

Before powering up the C2020, make sure the Filter Pump and the Chlorinator Cell are connected to the unit.

When the C2020 is first powered up it will initially displays it's product number (2020), the size of the cell it has been designed to drive (15A,20A or 25A) and its software revision number.

Do not use if the displayed cell size is different to the rating of the cell you intend to use.

A check of the units internal functions is then performed. If all is well the display will show the time of day. Refer to the clock setting section below if the time of day is wrong. Once the C2020 is powered up it should remain powered 24 hours a day.

NOTE: The Filter Pump may turn on at power up if the time block for the current time of day is already set to on.

INITIAL SET UP PROCEDURES

SETTING THE CLOCK. Press the 'mode' button four times until 'CLOC' is displayed. Use the '+' button to advance the hours, and the '-' button to advance the minutes. Once the desired time is shown, leave the unit alone for five seconds.

CLEARING THE PUMP ON/OFF TIMES. Press the 'mode' button two times until the 'run set time' LED is on. Press and hold the 'season' button for five seconds, until 'CLR' is displayed, then leave unit alone for five seconds. Now all of the 48 half-hour timer blocks are set to off.

SETTING THE PUMP ON/OFF TIMES. Press the 'mode' button two times until the 'run set time' LED is on. Press the 'season' button until the time that you first want the pump to go on is displayed. Press the '+' button. The 'summer/on' LED indicates pump on is required. Press the 'season' button until the time that you want the pump to go off at is displayed. Press the '-' button. The 'winter/off' LED indicates that pump off is required. Continue this sequence to set up more on and off times if required. When finished, leave the unit alone for five seconds.

DISPLAYING THE PUMP ON/OFF TIMES. Press the 'mode' button once. If the display shows 'nonE', all half hour blocks are set to off: Leave the unit alone for five seconds. If the display shows 'ALL', all half hour blocks are set to off: Leave the unit alone for five seconds. If 'nonE' or 'ALL' are not displayed, the display shows when the state of the pump changes. The 'summer/on' LED being on indicates that the pump will come on at this time. The 'winter/off' LED being lit shows that the pump will go off at that time. Further presses of the 'season' button, and reading of the 'summer/on' and 'winter/off' LEDs will give pump on and off information, until 'End' is shown, when there are no more time periods set. Leave the unit alone for five seconds.

SETTING THE SEASON. If it is the swimming season, press the 'season' button until the 'summer/on' LED is on. If it is the non-swimming season, press the 'season' button again so that the 'winter/off' LED is on. The unit reduces the amount of chlorine production by 50% in the Winter season.

SETTING THE CURRENT PERCENTAGE. Press the 'mode' button three times until the 'current adjust' LED is on. Use the '+' and '-' buttons to set the desired current level from 20% to 100% of cell rated load. When finished leave the unit alone for five seconds.

OPERATION

AUTOMATIC MODE. Once the clock, pump on/off times and current percentage are set, fully automatic operation of the unit will occur if the 'auto' LED is lit. If it is not, press the 'power' button to cycle through 'off', 'auto' and 'manual' modes.

When it is time for the pump to come on, the 'filter pump' LED will flash for 6 minutes. This indicates that the pump is on, but chlorine production has not started. This time allows the pool plumbing system to prime, to ensure the chlorine production cell is completely covered by water. When the priming time is up, the pump LED will be on. Providing the 'cell off' LED is off, chlorine production will start. The 'output' bar graph display will give an indication of the 'efficiency' of the cell. It may take several minutes to achieve a stable level.

MANUAL MODE. If operation of the filter pump and chlorine production is required at a time that has not been set into the timer, the 'power' button can be pressed to cycle through until the 'manual' LED is on. This will start the filter pump and , [providing the 'cell off' LED is off] once the priming time is up, start the chlorination process. Once in 'manual' mode, the unit will remain in this mode until changed by pressing the 'power' button.

CELL OFF MODE. If it is required to stop chlorine production, but still to be able to operate the filter pump, press the 'cell' button until the 'cell off' LED is on. The unit will remain in this mode until taken out by pressing the 'cell' button again so that the 'cell off' LED is off. Whilst the cell is off, automatic or manual operation of the filter pump can still occur.

OFF MODE. To stop all filter pump and chlorination functions, press the 'power' button until the 'off' LED is on. All operations will stop and the display and all LEDs except the power 'off' LED will be off. Whilst in this mode, the unit will continue to monitor itself for errors, and will display error messages if any problems are found. The unit will remain off until taken out of the mode by pressing the 'power' button.