

96.09.16

AUTOPILOT  
THE CHLORINE MACHINE

COMMERCIAL

TECHNICAL SPECIFICATIONS

Commercial Model: SRT-200-840C

PEST CONTROL PRODUCTS ACT

REGISTRATION NO. 24695

READ LABEL & USERS GUIDE BEFORE USING

CHLORINE PRODUCTION PER UNIT

0.45 KG/day (1.0 lbs/day)

SYSTEM SIZING

POOL LITRES	MAX DAILY BATHERS	AUTOPILOT UNITS REQUIRED
0-114,000	50	2
117,800-228,000	80	3
231,000-380,000	100	4
383,800-475,000	125	5
478,000-570,000	150	6
573,000-760,000	200	8
*OVER 760,000	200	8

\* PLUS 1 PER 190,000 ADDNL. LITRES (OR PORTION THEREOF)

POWER SUPPLY (CONTROL PANEL)

Power in: 115 VAC 50/60HZ 2.5 Amps

Power out: 230 VAC 50/60HZ1.3 Amps  
5.5 Amps 35 VDC Maximum  
DC Cord: 1.8 m (6 ft) Optinal 3 m (10 ft)  
Flow Detector  
Cord: 2.1 m (7 ft)  
Housing: High Impact Lexan  
Dimensions: 32 cm x 23 cm x 12 cm  
(12-5/8:x8-7/8:x4-5/8")  
Shipping Weight: 3.2 kg (7 lbs)

#### MISCELLANEOUS

Pressure Drop: 1psig per cell in series at  
150/L min (40 gpm)  
Minimum Flow: 57/L min (15 gpm) to Activate flow detector

#### FLOW DETECTOR (Not Incl.)

Hardwill Model: Q-12DS  
Length: 11 cm (4 - 3/8")  
Space Required: 12 cm (4 - 1/2")  
Minimum Flow  
Required: 57/1 min (15 gpm) to activate flow detector

#### CHLORINE CELL (MODELS 840C)

Housing: Molded High Impact, PVC  
Length: 26 cm (10-1/8")  
Dimensions: 28 cm x 10 cm x 12 cm  
(11" x 4" x 4-1/2" H)  
Installation Space Required  
(with fitting): 41 cm (16")  
Connection: 1-1/2" NPT  
Shipping Weight: 1.4 kg (3 lbs)

#### OVERALL DIMENSIONS

Carton Size: 56 cm x 44 cm x 19 cm  
(22" x 17" x 7 1/4")  
Shipping Weight: 6.4 kg (14 lbs)

To find more about AUTOPILOT The Chlorine Machine that takes the effort out  
of using Chlorine: call, write or fax:

AUTOPILOT  
COMMERCIAL SIZING CHART

SIZING BY LITRES AND BATHER LOAD

POOL LITRES	MAX DAILY BATHERS	AUTOPILOT UNITS REQUIRED
0-114,000	50	2
117,800-228,000	80	3
231,000-380,000	100	4
383,000-475,000	125	5
478,000-570,000	150	6
573,000-760,000	200	8
*OVER 760,000	200	8 Plus 1 AUTOPILOT per 190,000 Addnl. LITRES (or portion thereof)

Example: 1,102,000 LITRE pool will require 10 units

Bather loads in excess of those listed will require 1 additional AUTOPILOT unit per 50 bathers, (or portion thereof)

Example: 684,000 LITRE pool with an anticipated bather load of 300 bathers will require 10 units.

SIZING BY KNOWN CHLORINE CONSUMPTION

AUTOPILOT Commercial Cells produce the equivalent of 2.2 kg (1 lb.) of gas chlorine in 24 hours.

- 2.2 kg (1 lb.) of gas chlorine is equal to:
- 2.42 kg (1.1 lbs.) of Trichlor (stabilized tablets)
- 3.39 kg (1.54 lbs.) of Calcium Hypochlorite (HTH)
- 3.65 kg (1.66 lbs.) of Dichlor (Granular stabilized chlorine)
- 22.00 kg (10 lbs.) of Liquid chlorine (1 gallon)

If you are sizing AUTOPILOT based on pools historical daily chlorine consumption use the following formulas:

$$\underline{\hspace{2cm}} \text{Lbs. of Trichlor used daily} \times .90 \div 50 = \underline{\hspace{2cm}} \text{Autopilot units}$$

\_\_\_Lbs. of Calcium Hypochlorite used daily x.65÷50=                    \_\_\_Autopilot units  
\_\_\_Lbs. of Dichlor used daily x.60÷50=                                 \_\_\_Autopilot units  
\_\_\_Lbs. of Sodium Hypochlorite x.10÷50=                                \_\_\_Autopilot units

Commercial Spas require 1 Model 840 Commercial Autopilot unit per 3800 litres  
ML#106

## MAINTENANCE

To maintain a healthy, inviting pool and prolong the life of the pool equipment, a certain amount of routine maintenance is required.

### 1. POOL CHEMISTRY

#### A. Daily checks

- |                  |             |
|------------------|-------------|
| 1. Free Chlorine | 1.0-3.0 ppm |
| 2. Ph:           | 7.2-7.8 ppm |

#### B. Monthly checks

- |                                     |                                  |
|-------------------------------------|----------------------------------|
| 1. Total hardness                   | 100-600 ppm                      |
| 2. Total alkalinity                 | 80-150 ppm outdoor               |
| 3. Cyanuric acid (stabilizer) level | 40-60 ppm outdoor                |
| 4. Salt level                       | 0-20 ppm indoor<br>2000-3000 ppm |

To correct or balance your pool water chemistry, refer to the water chemistry section.

### 2. CHLORINE CELL INSPECTION AND CLEANING

Once a month (or as often as necessary) the cell should be removed and inspected for scale build-up or debris on the cell blades. If the cell scales continuously, consult the Troubleshooting Section.

To remove debris:

- Turn off the pump
- Remove the cell from the piping system
- Flush debris from the cell blades with a garden hose. DO NOT INSERT ANY SCRAPER INTO THE CELL OR SCRAPE THE BLADES.

To remove scale deposits:

- Mix four parts of water with one part of muriatic acid (4:1).  
WARNING: Always add acid to the water. Do not add water to the acid. Wear eye protection and rubber gloves.

- b. Immerse the cell into the solution. The foaming action is the calcium carbonate being removed from the cell. Allow cell to remain in the solution for one-half hour or until foaming stops.
- c. Remove the cell and rinse thoroughly with water. If scale deposits still remain, repeat procedure.
- d. Re-install the cell and tighten unions. Before fitting plug back onto the cell, make sure plug and cell posts are dry. Push plug securely onto cell to prevent water damage.
- e. Turn on pump and check for leaks.

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