

BL RECEIVED 524-30 LOT 34 ADDRESS (SITE) 956 ROSEWOOD AVE PERMIT NO. 1800-94

JUN 27 1994



CONSTRUCTION PERMIT APPLICATION

DIV. OF INSPECTION

Applicant Completes: Sections I, II, III (optional), IV, VI and VII

I. IDENTIFICATION

1. Proposed Work-site at: 956 Rosewood Ave
2. Name of Owner in Fee: Kevin Horn Tel. [REDACTED]
Address 956 ROSEWOOD AVE Brick N.J. 08712
3. Ownership in Fee: Public _____ Private ☒
4. Principal Contractor: Branch Brook Pools [REDACTED]
Address Rte 88 Brick N.J. 08712
License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
Federal Emp. No. _____ Social Security No. _____
5. Architect or Engineer _____ Tel. (____) _____
Address _____
6. Responsible Person In Charge of Work BRANCH BROOK POOLS [REDACTED]

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>35.</u>		
2. Electrical			
3. Plumbing			
4. Fire Protection			
5. Other			
6. Subtotal	\$ _____		
7. Less 20% for State Plan Review	\$ <u>5.</u>		
8. Subtotal	\$ _____		
9. DCA Training Fee	\$ <u>2.</u>		
10. Subtotal	\$ _____		
11. Cert. of Occupancy	\$ <u>20.</u>		
Other			
TOTAL	\$ <u>62.</u>		

BUILDING/SITE CHARACTERISTICS

1. Number of Stories	_____	
2. Height of Structure	_____ ft.	
3. Area—Largest Floor	_____ sq. ft.	
4. Building Area—All Floors	_____ sq. ft.	
5. Volume of Structure	_____ cu. ft.	
6. Construction Classification	_____	
7. Total Land Area Disturbed	_____ sq. ft.	
8. Flood Hazard Zone	_____	
9. Base Flood Elevation	_____ ft.	
10. Wetlands	yes _____ sq. ft. no _____	
11. Fire Grading	_____	
12. Max. Live Load	_____	
13. Max. Occupancy Load	_____	

II. PROPOSED WORK

1. ☒ Minor Work (single trade).
2. ☐ Small Job (\$5,000 and no prior approvals)
3. ☐ New Building
4. ☐ Addition
5. ☐ Alteration
6. ☐ Fire Protection
7. ☐ Plumbing
8. ☐ Electrical
9. ☐ Asbestos Abatement
10. ☐ Demolition

Est. Cost

2,273.71

TOTAL COSTS

2,273.71

AG pool

OPTIONAL (for office use only)

Plans Rec'd By	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
<u>Sy</u>	<u>6/24/94</u>		<u>ENA</u>	<u>huc</u>			

III. DO YOU WANT: (optional) 1. ☐ Partial Releases 2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

1. ☐ Hotels (R-1)
2. ☐ Multi-Family (R-2)
3. ☐ Two-Family (R-3) BOCA
4. ☒ Two-Family (R-4) CABO
5. ☐ One-Family (R-3) BOCA
6. ☐ One-Family (R-4) CABO

No of dwelling units:

Before Construction _____

After Construction _____

Net gain or loss _____

B. NON-RESIDENTIAL

1. State Specific Use:

2. Use Group:

3. Change in Use Group.
Indicate Former:

LDS BR 10511380

20K

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature

Kevin Horn

Date

6-15-94

II. AGENT SECTION

(to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require. I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☐ Check if contractor.

Agent Name

Address

Telephone ()

Signature

Date

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL	
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date
☐ Planning Board								
☐ Zoning Board								
☐ Sewer Authority								
☐ Water Authority								
☐ Fire Department								
☐ Police Department								
☐ Health Department								
☐ Soil Conservation								
☐ N.J. Dept. of Community Affairs								
☐ N.J. Department of Transportation								
☐ N.J. Dept. of Environmental Protect.								
☐ Utility Dig No.								
☒ Other Zoning	JK	6/27/74	pool					
☐								
☐								

COMMENTS

IMPORTANT
A.H.B.T. - EXEMPT

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition		Name of Code & Edition		Other
Building	_____	Energy	_____	_____
Electrical	_____	Barrier Free	_____	_____
Plumbing	_____	Flood Hazard	_____	_____
Fire Protection	_____	As Built Elevation Cert.	_____	_____
Mechanical	_____	Other	_____	_____

X. CERTIFICATES ISSUED (office use only)

☐ Temporary Certificate of Occupancy	No. _____	DATE EXPIRED _____
☐ Temporary Certificate of Occupancy	No. _____	_____
☐ Continued Certificate of Occupancy	No. _____	_____
☐ Certificate of Occupancy	No. _____	_____
☐ Certificate of Approval	No. _____	_____
☐ None		



CONSTRUCTION PERMIT

Date Issued 7-11-94
Control #
Permit # 1800-94

IDENTIFICATION Block 524.30 Lot 34

Work Site Location 956 Rosewood Ave

Contractor Branch Brooks

Owner in Fee Kevin Horn
Address same

Address

Phone ()

Tele. ()

##0002

Phone ()

Lic. No. or Bldrs. Reg. No. Exp. Date 180

Federal Emp. No. LOT

or Social Security No. 34 #

Whereby granted permission to perform the following work:

☒ BUILDING ☐ PLUMBING ☐ OTHER
☐ ELECTRICAL ☐ FIRE PROTECTION

DESCRIPTION OF WORK:

A. G. Pool

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$ 2,273

A. J. C. [Signature]
CONSTRUCTION OFFICIAL

Form F-170A

1 WHITE - OFFICE 2 CANARY - TAX ASSESSER 3 PINK - JACKET 4 GOLD - APPLICANT

BUILDING	
PAYMENTS (Office Use Only)	
Building <u>35.</u>	PLAN <u>5</u>
Plumbing	D.C.A.
Electrical	FIRE <u>4</u>
Fire Protection	TOTAL
Other <u>Plan 5.</u>	CHECK
Other <u>87,11/94</u>	CHANGE
DCA Training Fee <u>2.</u>	NO. <u>32</u> - 0019A005
Cert. of Occ. <u>20.</u>	
Other	
Total <u>62.</u>	
Check No.	
Cash	
Collected By:	



**BUILDING
SUBCODE
TECHNICAL SECTION**



Date Received
Date Issued
Control #
Permit #

7-11-94
1800-94

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 524-30 Lot 34
Work Site Location 956 ROSEWOOD AVE, BRICK 08723

Owner in Fee Kevin Horn
Address 956 ROSEWOOD AVE
BRICK NJ 08723

Contractor BRANCH BROOK POOLS
Address Rte 88, BRICK

Tele: 908 840-7777
Lic. No. or Bldrs. Reg. No. _____
Federal Emp. No. _____ or Social Security No. _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)			
			Type:	Failure	Failure	Approval	Initial
☐ No Plans Req.	_____	_____	Footing	_____	_____	_____	_____
☐ All	_____	_____	Foundation	_____	_____	_____	_____
☐ Footing	_____	_____	Slab	_____	_____	_____	_____
☐ Foundation	_____	_____	Frame	_____	_____	_____	_____
☐ Frame	_____	_____	Insulation	_____	_____	_____	_____
☐ Other	_____	_____	Finishes:	_____	_____	_____	_____
Joint Plan Review Required:			Energy	_____	_____	_____	_____
☐ Elec. ☐ Plumb. ☐ Fire			Mechanical	_____	_____	_____	_____
SUBCODE APPROVAL			TCO	_____	_____	_____	_____
☐ CO ☐ CCO ☐ CA			Other	_____	_____	_____	_____
Date			Final	_____	_____	_____	_____
Approved By: _____							

B. BUILDING CHARACTERISTICS

Use Group Present _____ Proposed _____
Constr. Class Present _____ Proposed _____
No. of Stories _____
Height of Structure _____ Ft.
Area—Largest Floor _____ Sq. Ft.
Total Bldg. Area/All Floors _____ Sq. Ft.
Volume of Structure _____ Cu. Ft.
Total Land Area Disturbed _____ Sq. Ft.

Est. Cost of Bldg. Work:
1. New Bldg. \$ _____
2. Alteration \$ _____
3. Total (1+2) \$ _____

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Kevin Horn
Signature

D. TECHNICAL SITE DATA
DESCRIPTION OF WORK

18'X52" ABOVE Ground Pool w/ ladder that swings up steps / can also be removed from pool

STAIR AREA WILL BE FENCED IN WITH A 48" STOCKADE FENCE WITH SELF CLOSING SELF LATCHING GATE.

TYPE OF WORK:

- ☐ New Building
☐ Addition
☐ Alteration
☐ Roofing
☐ Siding
☐ Other _____
☒ Demolition
☒ Miscellaneous
☐ Fence _____ Height
☐ Sign _____ Sq. Ft.
☒ Pool
☐ Elevator
☐ Asbestos Abatement
☐ Other _____

(Office Use Only)

FEE

\$ _____

Administrative Surcharge \$ _____
Paid ☐ Check # _____ Minimum Fee \$ _____
Collected by: _____ TOTAL FEE \$ _____



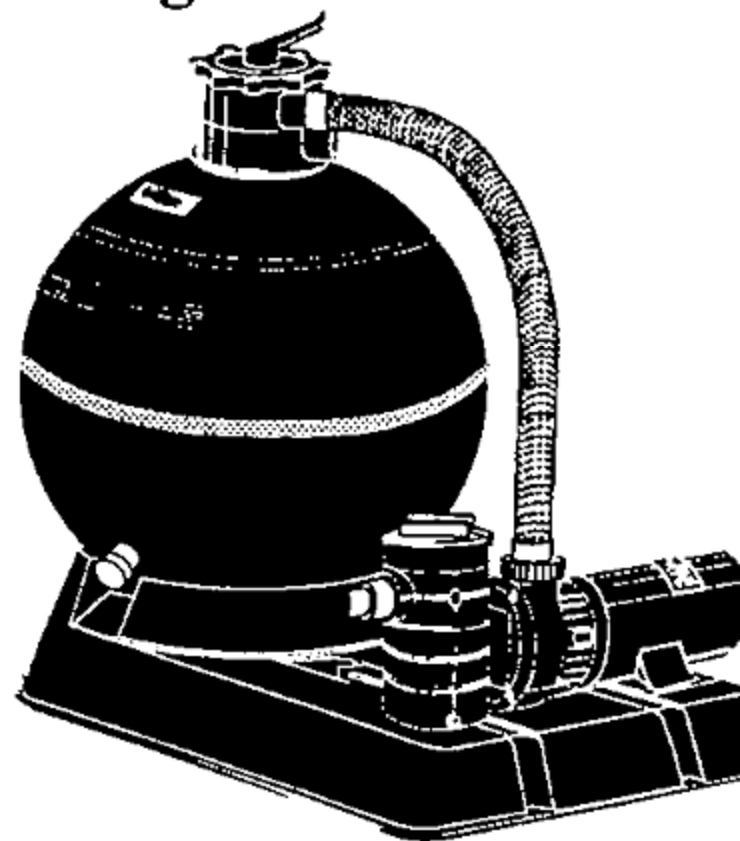
20" Above Ground Filter Kit Instructions

**Important Safety Instruction
Read and Follow All Instructions**

Meteor Filter Kit Installation and Operating Instructions

▲ WARNING

This manual contains critical safety instructions which must be followed for correct and safe operation of this filter system. Read and follow all instructions contained in this manual. Failure to read and follow all instructions could result in serious personal injury and/or property damage.



READ THESE INSTRUCTIONS!

P/N 99224000

Rev. 5-4-93

Table of Contents

Pump Safety Instructions	2
How Your Filter Works	3-4
Installation	4-5
Initial Start Up	6-7
Cleaning and Backwash	6-7
Winterizing	9
Trouble Shooting	9-10
Replacement Parts	11
Pump Instructions	12-13
Pump Replacement Parts	14
Warranty	15

p Safety Instructions

installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

1. **READ AND FOLLOW ALL INSTRUCTIONS.**
2. **WARNING** - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at times.
3. **WARNING** - Risk of Electric Shock. Connect only to a grounding type receptacle protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.
4. Do not bury cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers, and other equipment.
5. **WARNING** - To reduce the risk of electric shock, replace damaged cord immediately.
6. **WARNING** - To reduce the risk of electric shock, do not use extension cord to connect unit to electric supply; provide a properly located outlet.
7. **CAUTION** - For continued protection against possible electric shock, this unit is to be mounted to the base in accordance with the installation instructions.
8. **CAUTION** - This pump is for use with storable pools only. Do not use with permanently installed pools. A storable pool is constructed so that it may be readily disassembled for storage and reassembled to its original integrity. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage.
9. **SAVE THESE INSTRUCTIONS.**



WARNING



This filter operates under pressure. With the valve clamped properly and operated without air in the system, this filter will operate in a safe manner. Air entering the filter and the valve not clamped correctly can cause the valve to be blown off, which could cause severe personal injury and/or property damage.



WARNING

To reduce the risk of electric shock, do not use an extension cord. Only connect to a GFCI protected receptacle. Failure to do so could result in an electrical shock to pool users, installers, or others which could result in serious personal injury or death.

Your Filter Works

Our high rate sand filter is designed to produce clear, sparkling water and operate for years with a minimum of maintenance when properly installed, operated and maintained in accordance with these instructions.

Our filter uses special filter sand to remove dirt particles from the water. Dirt is collected in the filter by the sand bed as water flows through the filter. Water enters the filter through the valve on top of the filter and is distributed evenly downward across the sand bed. Dirt is removed by the sand and the clean water flows through the piping (laterals) at the bottom of the filter, up through the center piping to the valve on top of the filter, where the clean water is returned to the pool through the piping or hoses.

After a period of time, dirt will accumulate in the filter causing a resistance to the flow of water through the filter. This resistance causes a diminished flow of water and a rise in the pressure of the filter. Eventually the filter sand will have removed so much dirt that the filter pressure has risen to such a point that it will be necessary to clean (backwash) your filter.

By turning the valve on top of the filter to the backwash position, the flow of water is automatically reversed through the filter so that the water is directed to the bottom of the filter, up through the sand bed flushing the dirt and debris out through the waste line. Once the backwash procedure is complete, the valve is manually returned to its filter position to resume normal filtration.

filter's function is to remove suspended matter from the water and does not sanitize the water. For sparkling clear water the water must be as well as balanced. Pool chemistry is a specialized area, and you should consult your local pool service specialist for specific instructions. In general, proper pool sanitation requires a free chlorine level of 1 to 2 PPM and a PH range of 7.2 to 7.6.



WARNING

Failure to operate your filter system or inadequate filtration can cause poor water clarity obstructing visibility in the pool. Poor water clarity may obscure objects in the water which while swimming and diving could cause severe personal injury or death. Never swim in a pool with poor water clarity.

Installation

To install this filter system, you will need the following simple tools: screwdriver, 3/8" wrench and pliers.

Carefully remove the equipment from the carton and check for any evidence of damage due to rough handling or shipping. If any equipment is damaged, immediately notify the organization from where the equipment was purchased.

This filter system should be mounted on a level concrete slab, preferably concrete poured in a form or on a platform constructed of concrete block or brick. Position the filter system so that the piping connections, control valve and drain port are convenient and accessible for operation, service and winterizing.

Do not mount electrical controls (on/off switches, timers etc.) over the filter. You need to be able to stand clear of the filter when starting the pump.

Media - Your sand filter uses a #20 grade Silica filter sand for its media (.45 - .55mm). It should be free of all limestone or clay. Most pool supply and building material stores carry Silica sand. Listed below are the appropriate amounts of Silica sand for these filter systems.

Model	Filtration Area	Amount of Sand
Laguna	2.2 Square Feet	200 Pounds

Place the sand funnel in the top of the filter tank and fill the tank about half full of water. Pour the Silica sand into the top of the tank slowly, so that the weight does not damage the lateral assembly in the bottom of the tank.

After filling the filter tank with the appropriate amount of Silica sand remove the sand funnel and wash away any loose sand from the opening of the filter tank.

Ensure that all sealing surfaces are clean on the filter tank. Apply a light coating of silicone based lubricant to the O-ring of the control valve and place the control valve over the opening in the top of the filter tank so that the center pipe slips into the bore of the control valve.

Position the control valve so that the port locations are in the desired position. Control valve port locations are labeled with the letters A, B, and C. They should be connected to.

When the valve clamp is installed over the flanges of the filter tank and the control valve. Check that the valve clamp is secure and that the T-bolt is installed over both flanges before attaching and tightening the T-bolt. Tighten the T-bolt securely (recommended torque is 35 foot pounds).

WARNING



This filter operates under pressure. With the valve clamped properly and operated without air in the system, this filter will operate in a safe manner. Air entering the filter and the valve not clamped correctly can cause the valve to be blown off, which could cause severe personal injury and/or property damage.

Assemble all piping to the pump and valve. The pump to filter hose must be connected to the port marked pump on the control valve. Once the pump to filter hose is connected, then it can be connected to the pump. Make sure the O-ring is in place on the pump swivel union connection before attaching the pump to the pump.

IMPORTANT NOTE:

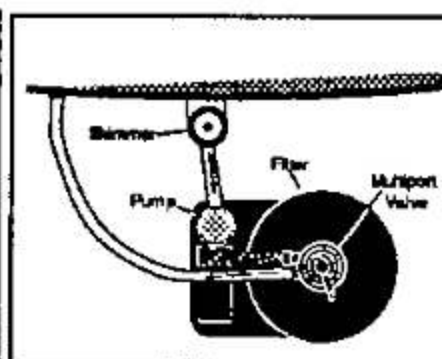
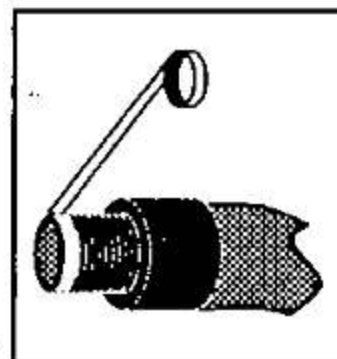
Apply teflon tape (3 layers) on all threaded male connections, (see figure at right). Petroleum based pipe joint compounds can damage components of this system and cause leaks.

Connect black hoses to the equipment and the pool with the clamps provided.

Connect skimmer suction port from pool to pump inlet.

Connect filter valve return port to return fitting of pool, (see figure at far right).

Never install a pump in this system that exceeds the maximum pressure of this system (35 psi).



Start Up

Ensure the correct amount of Silica filter sand is in the tank and that all connections have been made and are secure.

Check that the backwash is open so that water is free to flow from the pool and out the backwash line. Set the control valve to backwash position.

and clear of the filter. Prime and start pump according to the pump instructions allowing the filter tank to fill with water.

Once the water flow is steady out of the waste line, run the pump for at least two minutes. This initial backwashing of the filter is recommended to remove any impurities of fine sand particles in the Silica sand media.

⚠ WARNING



This filter operates under pressure. With the valve clamped properly and operated without air in the system, this filter will operate in a safe manner. Air entering the filter and the valve not clamped correctly can cause the valve to be blown off, which could cause severe personal injury and/or property damage.

⚠ CAUTION

Always turn pump off before changing valve positions. Changing valve positions while the pump is running can damage the control valve, which may cause personal injury or property damage.

Turn the pump off and set valve to filter position. Ensure that all pool suction and return lines are open so that water is free to flow to the pool. **Stand clear of filter** and start the pump. Your filter has now started its filtering cycle. You should check that water is returning to the pool and take note of the operating pressure. My original starting pressure is _____ PSI with the filter clean. Check the system for water leaks. If a leak is found, shut pump off before correcting the leak. As the filter removes dirt and impurities from the pool water, the accumulation will cause the filter pressure to rise and flow to drop. When the pressure gauge reading is 5 to 7 PSI higher than the clean filter reading noted above, it is time to backwash the filter.

CAUTION

To prevent damage to the pump and filter and for proper operation of the system, clean pump strainer and skimmer baskets regularly.

Backwashing Frequency

Backwashing frequency will vary from pool to pool and with other factors such as weather condition, heavy rains, dust, pollen, bath products and water chemistry. Check the pressure gauge reading on a regular basis and when the pressure gauge reading increases 5 to 7 PSI over the initial clean filter reading, it is time to backwash your filter. It is important NOT to backwash the filter solely on a timed basis such as every two days. It is also important to note that backwashing too frequently actually causes poor filtration.

Valve and Control Valve Functions

- | | |
|------------|---|
| Filter - | From pump, through valve, downward through filter sand bed, up through center pipe to valve return port, and back to the pool for normal filter action and vacuuming pool through filter. |
| Backwash - | From pump, through valve down through center pipe, up through filter sand to valve, and out waste port. This position is used for cleaning filter by reversing flow. |

SE -	From pump through valve downward through filter sand, up through center pipe to valve and out waste port. This position is used for start up cleaning and resettling filter bed after backwashing.
TE -	From pump, through valve (bypasses filter) and goes to waste port. This position is for vacuuming directly to waste, lowering pool level, or draining pool.
SED -	NO FLOW IN THIS POSITION - DO NOT USE THIS SETTING WITH PUMP OPERATING.
IRCULATE -	From pump, through valve, bypasses filter and goes to return port and back to pool. This position is for circulating water without going through filter.
TERIZING _	See page 8.

Backwash Procedure



CAUTION

Failure to operate your filter system or inadequate filtration can cause poor water clarity obstructing visibility in your pool. Poor water clarity may obscure objects in the water which while swimming and diving could cause severe personal injury or death. Never swim in a pool with poor water clarity.

Turn off pump.

Ensure that suction and backwash lines are open so that water is free to come from the pool and flow out the backwash line. Set control valve to backwash position.

and clear of the filter, start pump.

Backwash filter for approximately 3-5 minutes or until backwash water is clean.

Turn off pump. Set control valve back to filter position.

and clear of the filter and start pump.

The filter has now started its filtering cycle. Check that water is returning to the pool and take note of the filter pressure.

The filter pressure in step 7 above should not exceed the pressure originally observed on the filter when it was initially started. If backwashing the pressure is 4-6 PSI above the start condition, it may be necessary to change the sand in the filter.

Winterizing the Filter

In areas that have freezing winter temperatures, the pool equipment must be winterized to protect it from damage.

Backwash the filter. Shut off the pump and set the control valve to the winterize position.

Remove the drain port cap at the bottom of the filter. **IMPORTANT NOTE:** *Remove drain port cap only for draining water from filter. Removing the entire fitting will allow sand to drain also.* The filter will drain slowly. Leave the drain port cap off and store it during the shutdown season. When the system is shut down.



CAUTION

The control valve should be left in the winterize position during the shutdown season so that the rubber seal on the valve diverter has no pressure on it. Failure to do so can damage the valve diverter seal which can cause property damage from leaking water.

Maintain all appropriate system piping.

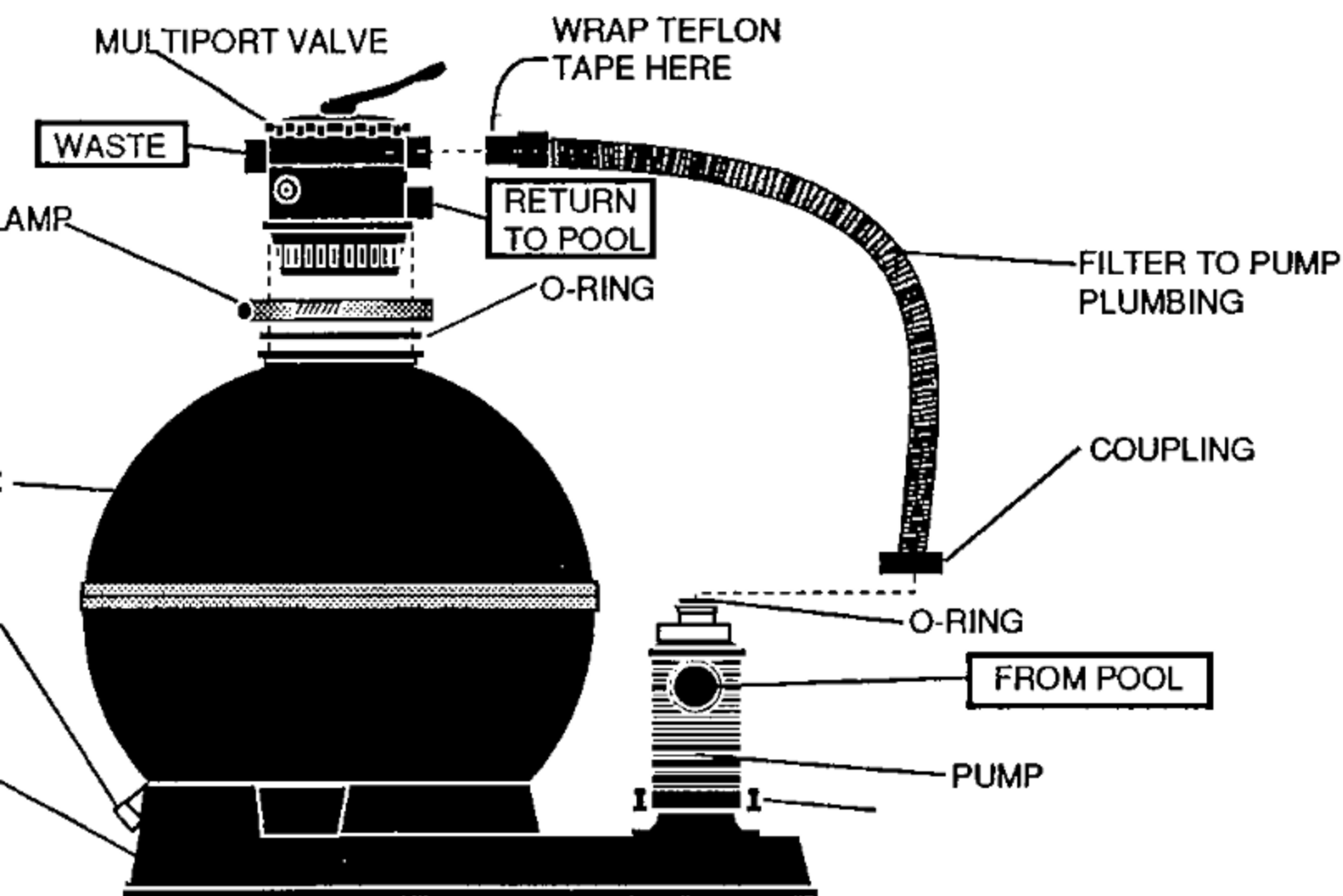
It is recommended that the pump and filter be covered with a tarpauling or plastic sheet to inhibit deterioration from the weather.

DO NOT wrap pump motor with plastic.

Low Pressure Shooting

<u>Problem</u>	<u>Cause</u>	<u>Remedy</u>
Pressure not sufficiently clean	1. Pool chemistry not adequate to inhibit algae growth. 2. Too frequent a backwash cycle.	Maintain pool chemistry or consult pool service technician. Allow pressure to build to 10 PSI above clean condition before backwashing.

<u>Problem</u>	<u>Cause</u>	<u>Remedy</u>
Water not sufficiently clean (d)	3. Improper amount or wrong sand size. 4. Inadequate turnover rate.	Check sand bed depth and sand size or consult pool service technician. Run system for longer time or consult dealer or pool service technician.
Filter pressure	1. Insufficient backwashing. 2. Sand bed plugged with mineral deposits.	Backwash until effluent runs clear. Chemically clean filter.
Filter pressure (cont'd)	3. Partially closed valve or restriction in return.	Open valve or remove obstruction in return.
Backwash cycles	1. Improper backwash. 2. Pool chemistry not adequate to inhibit algae growth. 3. Plugged sand bed. 4. Flow rate too high.	Backwash until effluent runs clear. Maintain pool chemistry or consult pool service technician. Manually remove top 1" surface of sand bed and chemically clean as required. Restrict flow to capacity of filter.
Flow to pool diminished Filter pressure	1. Obstruction in pump hair and lint strainer. 2. Obstruction in pump. 3. Obstruction in suction line to pump.	Clean basket in strainer. Disassemble and clean pump. Clean skimmer basket. Remove obstruction in lines. Open valves in suction line.
Water returning to pool	1. Broken underdrain lateral. 2. Backwash rate too high.	Replace broken or damaged laterals. Reduce backwash flow rate.



Parts List	
501131	MPV Assembly
510119	O-ring, MPV
589130	Clamp, MPV
793042	Flex Pipe Assembly with swivel union
391028	O-ring, swivel union
550078	Drain Assembly
510050	O-ring, Drain Assembly
588100	Filter Tank Assembly
552150	Base, Skid
850059	Hose 6', Black
982057	Hose Clamp
850030	Hose Adapter
982007	Bolt 5/16-18 x 1/2"
530032	Pressure Gauge
392014	Pump Support



WARNING

To reduce the risk of electric shock, do not use an extension cord. Only connect to a GFCI protected receptacle. Failure to do so could result in an electrical shock to pool users, installers, or others which could result in serious personal injury or death.

To prime pump - (pump must be off)

Unscrew lid from pot and fill pot with water to level of suction line. Inspect O-ring, lubricate with silicone lubricant. Screw lid in and tighten, lid shoulder will come to rest on pot surface. Turn pump on, depending upon elevation above water level and horizontal distance of suction line, priming time will vary. If filter is installed, open air relief valve, before turning pump on, until a steady stream of water comes out, then close air relief valve. Pump is now primed. If pump is installed below water level, close return line prior to filling hair/lint pot with water. Line must be re-opened before turning pump on.

To clean basket - (pump must be off)

Follow procedure above to prime pump. After removing lid, remove basket and empty debris. Replace basket and proceed to fill with water. It is important to visually inspect the basket, through the see through lid, at least once a week. A dirty basket will reduce the efficiency of your system, and can put an abnormal load on the pump which could result in costly repair bills.



CAUTION

DO NOT RUN PUMP DRY. If pump is run dry, the mechanical seal will be damaged and external leakage will occur. When a seal is damaged, the seal must be replaced.



CAUTION

ALWAYS MAINTAIN PROPER WATER LEVEL IN THE POOL. Water level must be half way up the skimmer opening. A low water level can cause the pump motor to run dry which will damage the mechanical seal and cause external leakage.

Shaft Seal - (Rotary Seal)

The shaft seal consists of two parts:

- a. Rotating ceramic seal, pressed fit into the impeller.
- b. A stationary spring loaded seal, press fitted into the rear of the volute.

CAUTION: The highly polished and lapped faces of the seal are easily damaged. Handle with care.

A centrifugal pump requires little or no service, however, the shaft seal will wear with normal use over the years, and will require periodic replacement.

The electric motor

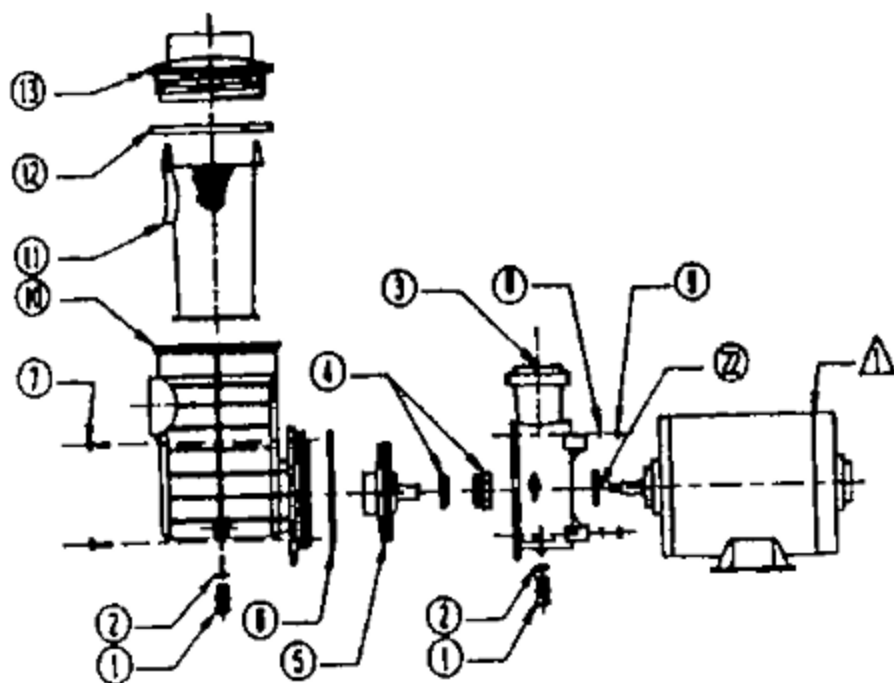
The electric motor should be protected from foreign matter, water splashing, hosing and the weather. Enclosures should be well ventilated to prevent overheating. If a motor becomes wet, permit it to dry before running it. If a motor has been damaged by water, the warranty is void.

The motors used on these pumps are 48 frame through bolt motors. The through bolts are used to secure the volute to the motor. When replacing motor, mark the end bells and the motor shell to indicate alignment. Remove the four nuts from the through bolts at the shaft end. Place shaft through back of volute and locate through bolts in line with brass inserts located in four legs at rear of volute. Secure end bell and shell marking line up. Securely fasten motor to volute.

Protect motor from heat. Provide ample ventilation.

Protect motor from dirt and chemicals. Keep motor, motor vents and surrounding area clean. Avoid sweeping or stirring up dirt near the motor while it is running. Avoid stirring (or spilling) water chemicals near the motor.

Protect motor from moisture. Provide protection from rain, snow, lawn sprinklers, etc. Locate motor on a slight elevation so that water will not run or puddle nearby. Do not splash water on or near the motor.



Parts List

1	982077	Drain Plug
2	570065	O-ring
3	391039	Volute- Center Discharge
4	397012	Seal Assy #1000
5	391046	Impeller, 1/2 HP, 60 HZ
5	391047	Impeller, 3/4 HP, 60 HZ
5	391048	Impeller, 1 HP, 60 HZ
5	391049	Impeller, 1 1/2 HP, 60 HZ
6	391015	O-ring, Face Plate
7	982154	Screw, Hex, 10-24 x 7/8
10	391064	Pot
11	391012	Basket
12	391017	O-ring, Lid
13	391011	Lid
19	391023	Body - Swivel (not shown)
20	391024	Nut - Swivel (not shown)
21	391028	O-ring - Swivel (not shown)
22	391021	Slinger
23	411145	Switch Assembly
24	397032	Shroud Assy. w/cord and plug
25	400042	Screw
26	791376	Cord Assembly



Listed

COLUMBIA POOL AND SPA PRODUCTS LIMITED WARRANTY

LAGUNA™

HIGH RATE SAND FILTER SYSTEM

COLUMBIA POOL AND SPA PRODUCTS manufactures its Laguna High Rate Sand Filter System under high standards of workmanship and with high quality materials. Accordingly, Columbia expressly warrants those system components as follows:

WARRANTY COVERAGE:

All internal components of Columbia's Laguna High Rate Sand Filter System which are actually manufactured by Columbia are warranted to be free from defects in material and/or workmanship for a period of one (1) year from date of purchase. In addition, the tanks of such filters are warranted to be free from defects in material and/or workmanship for a period of five (5) years from date of purchase. The 6 position selector valve and the Columbia pump used on the Laguna have a one (1) year warranty. The obligation of Columbia Products under the Laguna tank warranty will be limited to either repair or replacement of the filter tank, at Columbia's option.

EXCLUSIONS FROM THIS WARRANTY. This warranty does not cover:

- (1) Any item manufactured by other companies and installed by Columbia (such as air or water valves, gauges, plumbing fittings, pipes, bolts, nuts, cartridges, motor, hoses, mechanical seals etc.)
- (2) Problems resulting from oversizing of pump and/or reduction of valve piping size, or from failure to turn pump off before changing the position of the filter valve or any operating valves for the pool and its accessories.
- (3) Problems resulting from failure to comply with instructions contained in the Operating Instructions sheet.
- (4) Problems resulting from abuse, misuse, negligence or accident by any party other than Columbia.
- (5) Problems resulting from exposure to temperatures below freezing or in excess of 125 degrees Fahrenheit.
- (6) Problems resulting in whole or in part from alteration or modification of the filter by any party.
- (7) Failures due to chemical corrosion, caused by failure to maintain the water chemistry in conformity with the standards of the swimming pool and spa industry.
- (8) External damage to chamber, bulkhead areas or bottom threads that occur through improper plumbing or damage during installation.

WARRANTY OBLIGATIONS OF COLUMBIA: Should a defect in workmanship and/or material in any item covered by this warranty become evident during the term of the warranty, then upon the consumer following the procedures set forth below, Columbia will, at its option, repair or replace such item or part at its own cost, and expense. Columbia is not, however, responsible under this warranty for any cost of shipping or transportation of the filter or part thereof to or from the service department. Also, Columbia is not liable for any loss of time, inconvenience, incidental expenses such as telephone calls, labor or material charges incurred in connection with the removal or replacement of the equipment, or any other incidental or consequential damages. PLEASE NOTE: Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

PROCEDURE FOR OBTAINING WARRANTY PERFORMANCE: In order to obtain the benefits of this warranty, the consumer who made the original retail purchase shall contact Columbia Pool and Spa Products Customer Relations Department, P.O. Box 8085 Moorpark, CA 93020-8085, as soon as possible after discovery of the defect, but in no event later than the expiration date of the warranty period provided in this warranty. Upon receipt of this communication, Columbia will promptly notify the customer of the address to which the defective item may be shipped. The customer shall then ship the item, freight prepaid, to the address indicated together with a letter stating the model number, serial number, and date of purchase of the item which is claimed to be defective, the name and address of the consumer, and a brief description of the problems encountered.

WARRANTY PROTECTS ORIGINAL RETAIL PURCHASER: This warranty extends to the consumer who made the original retail purchase only and is not enforceable by any other party.

WARRANTIES OR REPRESENTATIONS BY OTHERS: No dealer or other person has any authority to make any warranties or representations concerning Columbia or its products. Accordingly, Columbia is not responsible for any such warranties or representations.

OTHER RIGHTS. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Columbia™
Pool and Spa Products

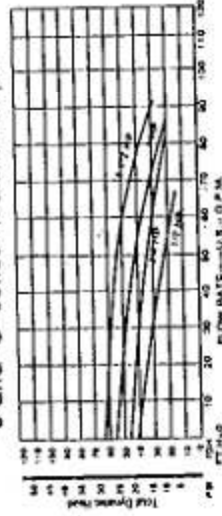
P.O. Box 8085 Moorpark, CA 93020-8085

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

Instructions

Maxim "C" Series Pump

"S" and "C" Series Maxim Pumps



⚡ DANGER

RISK OF ELECTRICAL SHOCK OR ELECTROCUTION

This pool pump must be installed by a licensed or certified electrician or a qualified pool serviceman in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock, and may also cause damage to property.

Always disconnect power to the pool pump at the circuit breaker before servicing the pump. Failure to do so could result in death or serious injury to serviceman, pool users or others due to electric shock.

NOTICE TO INSTALLER

1. Electric wiring of the motor, installation, repair and service, must be in accordance with local and all other applicable codes.
2. Do not make any additions, deletions or modifications to the pump, without proper prior approval of the factory.
3. Pump must be bonded, using a No. 8 AWG or larger conductor, connected to the external bonding wire connector and to a grounded metal water pipe or metal grounded structure.
4. When pump is installed for use on a jetted bathtub or other fill and drain whirlpool spa or tub, the suction port of the pump must be below the normal water level of the water (flooded suction), to prevent running pump dry, which may cause damage to the pump seal. Installation of pump must be per local codes and all other applicable codes and standards.
5. Be sure there is adequate access for servicing pump and that there is sufficient ventilation whenever pump is installed indoors or within a complete enclosure.
6. Self-priming model, with strainer housing (hair/lint pot), should not be installed more than (5) five feet above water level. Suction line should be 1 1/2" pipe.
7. A ground fault circuit interrupter (GFCI) should be installed on the power supply circuit to the pump.

READ ALL INSTRUCTIONS CAREFULLY

A. Self Priming Model (with hair/lint pot)

1. To Prime Pump - (pump must be off)

Unscrew lid from pot and fill pot with water to level of suction line. Inspect O-ring, lubricate with a silicone based lubricant. Screw lid into pot, hand tighten, lid shoulder will come to rest on pot surface. Turn pump on, depending upon elevation above water level and horizontal distance of suction line, priming time will vary. If filter is installed, open air relief valve, before turning pump on until a steady stream of water comes out, then close air relief valve. Pump is now primed.

If pump is installed below water level, close return line prior to filling hair/lint pot with water. Line must be re-opened before turning pump on.

2. To Clean Basket - (pump must be off)

Follow procedure above to prime pump. After removing lid, remove basket and empty debris. Replace basket and proceed to fill pot with water.

⚠ CAUTION

To prevent damage to the pump and filter and for proper operation of the system, clean pump strainer and skimmer baskets regularly.

It is important to visually inspect the basket, through the see through lid, at least once a week. A dirty basket will reduce the efficiency of your system, and can put an abnormal load on the pump which could result in costly repair bills.

B. All Models

1. DO NOT RUN PUMP DRY. If pump is run dry, the mechanical seal will be damaged and external leakage will occur. When this happens, the damaged seal must be replaced.

2. ALWAYS MAINTAIN PROPER WATER LEVEL

Pool or spa - half way up the skimmer opening - or at least four inches above the suction fittings if no skimmer is installed.

Jetted tub - at least one inch above the highest jet.

If water level falls below skimmer opening or suction fittings, the pump will suck air, causing the pump to run dry, resulting in a damaged seal. Continued operation in this manner could result in damage to the pump case and impeller.

C. Shaft Seal - (Rotary Seal)

1. The shaft seal consists of two parts:

- a. Rotating ceramic seal, pressed fit into the impeller.
- b. A stationary spring loaded seal, preassembled into the rear of the volute.

CAUTION: The highly polished and lapped faces of the seal are easily damaged. Handle with care.

This centrifugal pump requires little or no service, however, the shaft seal will wear with normal use over the years, and will require periodic replacement.

D. Electric Motor

1. The electric motor should be protected from foreign matter, water splashing, hoses and the weather. Enclosures should be well ventilated to prevent overheating. If a motor becomes wet, permit it to dry before running it. If a motor has been damaged by water or dirt, the warranty is voided.

2. The motors used on Maxim pumps are 48 frame through bolt motors. The through bolts are used to secure the volute to the motor. When replacing the motor, mark the end bells and the motor shell to indicate alignment. Remove the four nuts from the through bolts - at shaft end. Place shaft through back of volute and locate through bolts in line with brass inserts located in four legs at rear of volute. Be sure end bell and shell marking line up. Securely fasten motor to volute.

3. Protect motor from heat.

- a. Avoid direct sunlight.

- b. Provide ample ventilation.

4. Protect motor from dirt.

- a. Keep motor, motor vents and surrounding area clean.

- b. Avoid sweeping or stirring up dust near the motor while it is running.

- c. Avoid stirring (or spilling) water chemicals near the motor.

5. Protect motor from moisture.

- a. Provide protection from rain, snow, lawn sprinklers, etc.
- b. Locate motor on a slight elevation so that water will not run or puddle nearby.

- c. Do not spill or drip liquid chemicals on or near motor.

- d. Do not splash water on or near the motor.

- e. Do not wrap motor with plastic or other air tight materials (exception - The motor may be covered during a storm, when hoses, winter storage, etc., never when motor is running or expected to be running).

CAUTION

In mild climate area - when temporary freezing conditions may occur, run your filtering equipment all night to prevent freezing.

E. Pump trouble - Causes and Remedy

1. Failure to pump.

- a. Pump will not prime - air leak on suction side of pump.

REMEDY: Make sure suction lines, pump strainer, and pump volute are air tight. Make sure valve on suction line is working and open (some systems do not have valves.) Check water level to make sure water is available through skimmer. Secure lid on pump pot and make sure lid O-ring is in place.

- b. Pump strainer clogged.

REMEDY: Clean pump strainer.

2. Reduced capacity and/or head.

- a. Air pockets or leaks in suction line.

REMEDY: 1a above.

- b. Clogged impeller.

REMEDY: Remove, clean impeller.

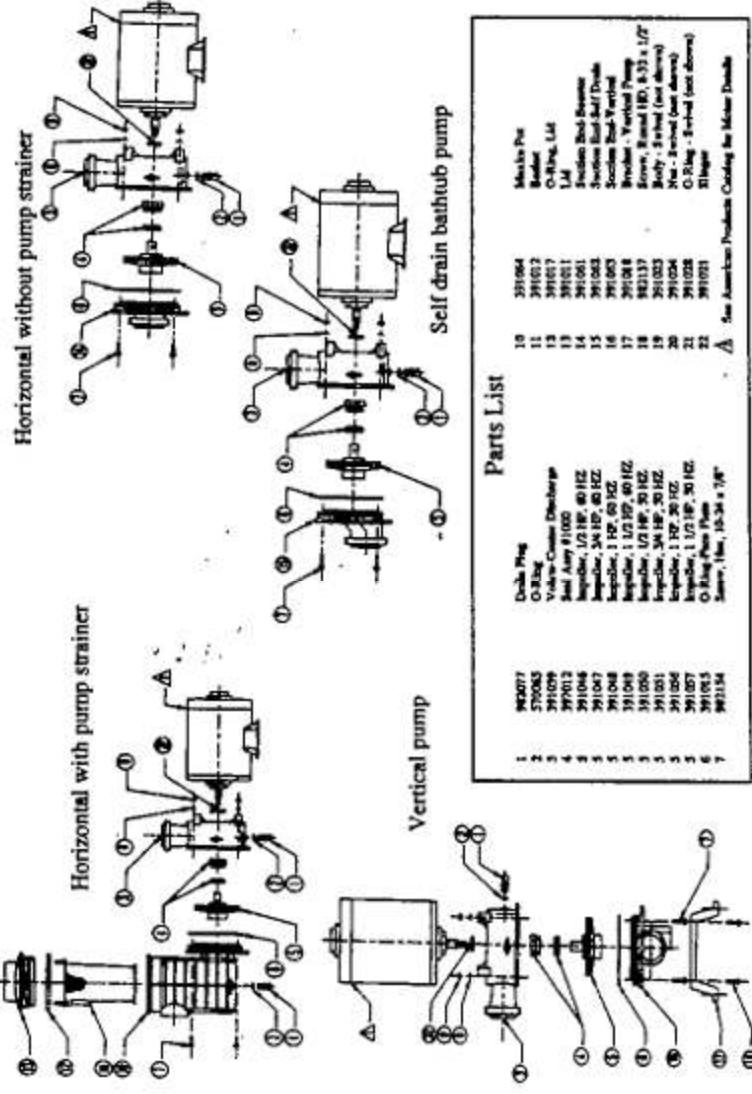
- c. Pump strainer clogged.

REMEDY: Clean pump strainer.

- d. Jets clogged.

REMEDY: Clean jet orifice.

Maxim™ C Series Pumps



Parts List

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
940077	270063	391009	391012	391046	391047	391048	391049	391050	391051	391052	391053	391054	391055	391056	391057	391058	391059	391060	391061	391062	391063
O-Ring	Volute Case Discharge Seal Assy	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"

10	11	12	13	14	15	16	17	18	19	20	21	22
391064	391065	391066	391067	391068	391069	391070	391071	391072	391073	391074	391075	391076
Motor Pot	Seal	O-Ring, Lid	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"	Impeller, 1/2" x 1/2"

See American Products Catalog for Motor Details



Listed

Pump Material
Meets Std. 50
Requirements



SAVE THESE INSTRUCTIONS



Add a Dark Buster Fountain to your new or existing Dark Buster light and bring the fun, beauty and sound of dancing water to your above ground pool. The Dark Buster Fountain clips directly onto the flow director on the face of the light letting you remove and install it as often as you wish.



DON'T BE LEFT IN THE DARK

Now you can have hours of fun and enjoy your above ground pool more with a Dark Buster™ light and water flow fitting. It only takes a few minutes to install. Simply replace the existing water flow fitting in the pool manufacturers pre-punched hole. Then, play and swim in your pool at night or just sit and watch the reflective patterns of light bouncing off the landscape from your Dark Buster light.

Enjoy the brilliance of the patented highly efficient low voltage, halogen quartz light, part of the Dark Buster technology. This light delivers 200% more light output than a normal 50 watt halogen quartz pool light, yet consumes 30% less energy.

Its not just a light, its a water return fitting with directional flow inlet to help circulate the water in your pool more effectively. The water flow features of the Dark Buster exceed any standard inlet fitting for an above ground pool. This versatile design gives you the opportunity to control the return water direction in your pool at the fitting itself.



The Premium Filter System for Above Ground Pools
The Laguna™ above ground filter system is complete with a 20 inch rotational molded filter tank, Tropica™ circulating pump and all the hoses and hardware to connect the system to the pool. Laguna systems are available for all above ground pools with pumps ranging from 3/4 to 1 1/2 horsepower.

These filter systems are packaged complete, ready to install.



Tropica™ pumps are the powerhouse water movers of the above ground market. Available in 1/2 through 1 1/2 horsepower for all applications, these pumps are built to last. Tropica pumps have a large see through pump strainer with a high flow high density strainer basket.

Buy a Tropica pump for use with any existing filter for above ground pools.

When you are in need of a pump, go for Columbia quality with a Tropica pump.

Columbia
Pool and Spa Products

**Creative Products
for
Family Fun**

Moorpark, CA 93021

GRAND CANYON



Swim'n Play, Inc.
Makers of Fine Above Ground Pools



Thirty year limited warranty.
No charge for parts.
First two seasons.



WARNING:
POOLS ARE NOT DESIGNED FOR DIVING OR JUMPING.



313 Regina Avenue
Rahway, NJ 07065-4891
Phone: (908) 574-1500
Fax: (908) 574-1551



Swim n Play, Inc.
Makers of Fine Above Ground Pools

SPECIFICATIONS AND FEATURES FOR OVAL POOLS

STRUCTURALS Patented hold down pressure sheets. Heavy gauge steel - protected by vinyl shield buttress and braces. High strength tension bolts interlocking buttress post and roll assembly. Universal strap assembly.

WALL DECOR Wood grain plank pattern. Dimensional quad color - destructively highlighted with aluminum and return fittings.

WALL Patented four-bar wall closure system ensures proper assembly and maximum strength (US Patent #4223488). Corrugation of walls provides vertical strength. Walls are scored for installation of thru-wall.

LINER PROTECTOR Extruded vinyl edging illustrated diagram of metal protection.)

METAL PROTECTION Armored Bond - G15 - Zinc-Rich coating of hot dipped galvanized steel that reduces metal corrosion via cathodic effect. (See illustrated diagram of metal protection.)

ASSEMBLY Universal sub structure combined with modular ledges and vertices provides a pool-lock frame for greater strength—complete with anchor medication, stainless steel top cover hardware.

COVERS Full contoured design—structural foam

HARDWARE Non-corrosive stainless steel

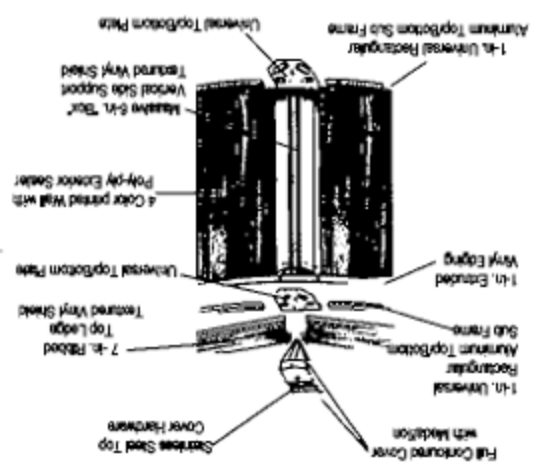
PLATES Universal top and bottom plates

RAILS Universal rectangular 1" top and bottom rails protected by vinyl shield. Accent strip included.

VERTICAL 6-in box—solid one piece. Weather protected by vinyl shield.

LEDGE 7-in ribbed for additional strength. Weather

DECOR
Rich Quad 4-color printed wall. Cool, brown contoured top ledge covers. Feature strips included.



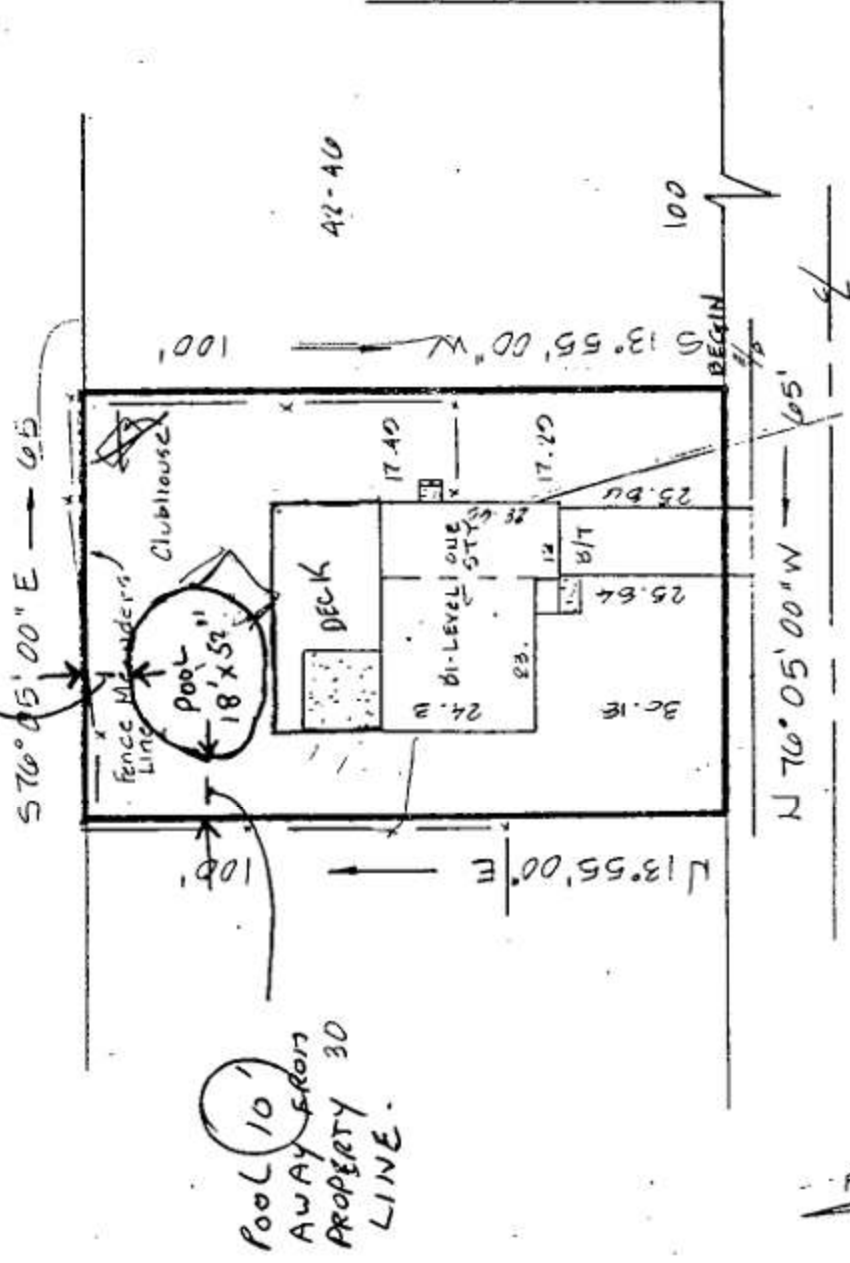
POOL SIZES AND CAPACITIES

ROUND POOL		OVAL POOL (approximate)		POLE POOL	
SIZE	CAPACITY	SIZE	CAPACITY	SIZE	CAPACITY
8-ft. x 9-ft. x 52-in.	1,670 gal.	18-ft. x 12-ft. x 52-in.	6,100 gal.	12-ft. x 8-ft. x 52-in.	2,760 gal.
12-ft. x 12-ft. x 52-in.	4,750 gal.	24-ft. x 12-ft. x 52-in.	8,500 gal.	15-ft. x 10-ft. x 52-in.	4,244 gal.
15-ft. x 15-ft. x 52-in.	6,100 gal.	24-ft. x 15-ft. x 52-in.	11,050 gal.	18-ft. x 12-ft. x 52-in.	6,100 gal.
18-ft. x 18-ft. x 52-in.	8,500 gal.	30-ft. x 15-ft. x 52-in.	13,250 gal.	21-ft. x 15-ft. x 52-in.	8,810 gal.
21-ft. x 21-ft. x 52-in.	11,500 gal.	33-ft. x 18-ft. x 52-in.	17,700 gal.	24-ft. x 18-ft. x 52-in.	11,955 gal.
24-ft. x 24-ft. x 52-in.	14,900 gal.	45-ft. x 18-ft. x 52-in.	23,000 gal.		
27-ft. x 52-in.	18,900 gal.				



Manufacturer reserves the right to alter specifications without notice. All pool sizes are approximate.

POOL (10') AWAY FROM
PROPERTY LINE.



FILED MAP

ROSEWOOD AVENUE

a/k/a lots 34,35,36, block 524-30, Minor Subdivision Plan , filed 9/8/80,
#B-1031

SURVEY of PROPERTY

LOT(S)	34	BLOCK	524-30	TAX SHEET	35-A
	BRICK TOWNSHIP, OCEAN COUNTY, NEW JERSEY				
	a/k/a lot 34, blk. 524-30, "Minor Subdivision plan lots 30/36 inclusive, blk. 524-30, into new lots 30 & 34," filed 7/8/80, #C-1031				
	HOUSE NO. #956 Rosewood Avenue				
	2 STORY, 1 FAMILY DWELLING				

CERTIFIED TO Kevin C. Horn & Susan M.

Urn h/w, Lawyers Title Insurance Corp.
RE Abstrac. Co., Dale S. Orlovsky, Esq.
Greentree Mortgage Corp &/or its assign

THIS CERTIFICATION IS MADE ONLY TO NAMED PARTIES FOR PURCHASE AND OR MORTGAGE OF HEREIN DESIGNATED PROPERTY BY NAMED PURCHASER. NO RESPONSIBILITY OR LIABILITY IS ASSUMED BY SURVEYOR FOR USE OF SURVEY FOR ANY OTHER PURPOSES INCLUDING AFFIDAVIT RESALE OF PROPERTY, OR ANY OTHER PERSON NOT LISTED IN CERTIFICATION, EITHER DIRECTLY OR INDIRECTLY.

CERTIFICATION

IN CONSIDERATION OF FEE PAID, I HEREBY CERTIFY THIS A TRUE AND ACCURATE SURVEY
MADE ON THE GROUNDS AND CONDITIONS SHOWN ARE AS THEY EXIST THIS DATE.

ROAD AND ANNOTATED

$$\frac{29}{11}$$

$$\begin{array}{r} 2 \overline{) 17.1} \\ 4 \\ \hline 13 \\ 11 \\ \hline 2 \end{array}$$

12

$$\sqrt[4]{420}$$

$$\begin{array}{r} 17 \\ 2 \overline{) 351} \\ 34 \\ \hline 11 \end{array}$$

2.1 x 10⁸¹

60

$$\sqrt[4]{420}$$

$$\begin{array}{r} 10 \overline{) 101} \\ 10 \\ \hline 1 \end{array}$$

40

$$\sqrt[4]{420}$$