

# Viron

## Viron P300 Pool and Spa Pump

ASTRALPOOL 

### INSTALLATION AND OPERATING INSTRUCTIONS



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## GENERAL

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The Viron P300 Pool Pump is a unique 3 speed DC motor combined with an energy efficient pump wet end. When installed and plumbed correctly, the Viron P300 will significantly reduce operating costs, lower noise levels and reduce greenhouse emissions.

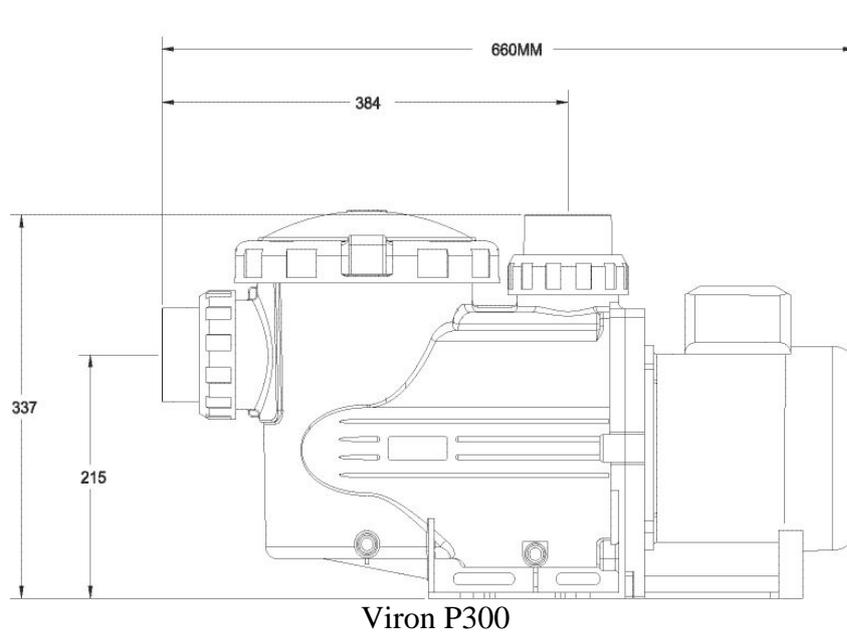
## FEATURES

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- Continuous duty rated motor
- Precision reinforced moulded high head impeller, giving extra performance
- Single piece moulded body for added strength and longer life
- Rapid priming diffuser quickly corrects loss of water flow
- Quick and easy disassembly for servicing
- Large capacity basket with easily removed ramp on lid

## DIMENSIONS

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# INSTALLATION

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This appliance must be installed by a qualified service technician. When installing the appliance, ensure all parts are installed in the correct zone in accordance with the wiring rules. In particular refer to AS/NZS 3000 (Australia) and EN 60364 (EU).

**A.** Plan position of pump so that it will be:

1. Free of water flooding, such as in a sump, garden hollow, ditch or at bottom of bank with run off.
2. On a stable base so that:
  - a) The pump is not left suspended by its fittings, causing a leak or failure with loss of water.
  - b) Movement through vibration is restricted
  - c) No strain is put on attaching pipe or other expensive equipment
3. Accessible for maintenance and easily removed for service.
4. Breathing space. Pump should not be crowded which will prevent cooling airflow from fan. Overheating due to lack of cooling voids warranty.
5. Within reach of power point without extension/plugs liable to corrosion, shorting, etc.
6. At a minimum height of suction lift of water from pool surface to pump inlet.

**B.** For best pump performance keep suction pipe length as short as possible with minimum number of bends and use 50mm high pressure PVC suction and return pipe. All equipment such as filters, heaters, chlorinators must have a minimum of 50mm connections.

**C.** Secure the barrel unions supplied into the attaching pipe work, using approved priming fluid and solvent cement as normal practice, coating both surfaces. **NOTE:** Always wear protective gloves when handling and using glue and priming fluid. Ensure no excess adhesive runs into the union proper affecting the sealing or removal abilities. Allow 24 hours to dry before starting pump. Do not use "green" glue on barrel unions. This can cause damage to the ABS material used to manufacture the unions.

**D.** Install isolation valves before the pump section and after equipment, if the pump is below the water level of the pool.

**E.** For pump installations 500mm above water level, it generally requires a foot valve at the pool or check valve in the suction line. Suction lines must be installed below water level until just in front of pump location and vertical riser used to reach pump inlet. Hurlcon pumps are rated to a maximum head of 25 metres however refer to your pumps data plate for actual achievable pressure

**F.** All pumps will operate quieter and perform more efficiently if a straight length of 450mm pipe is plumbed horizontally into the front of the pump.

**G.** Water temperature not to exceed 45 degrees

- H.** Pumps must be either
- supplied by an isolating transformer, or
  - supplied through a residual current device (RCD) with a rated residual operating current not exceeding 30mA.

**Warning: Viron pumps include PCB's and microchips. It is necessary to turn power off completely for 10 seconds before turning pump back on again. Some brands on chlorinators may bleed a small amount of power into the Viron Pump even when the pump off mode is selected. If this occurs, the Viron Pump may not reset correctly and may not start until power is disconnected completely. In some cases, the manufacturer of these chlorinators may be able to remove or change a capacitor which will completely disconnect power to the pump when turned off. If not, a suitable chlorinator may be required to be purchased. Astral Pool chlorinators completely disconnect power to the pump when the pump off mode is selected.**

## OPERATION

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1. Prime pump if hair and lint pot is dry as follows – Close off valve on suction line if present. Remove lint pot lid. Fill lint pot and chamber with water. Replace and secure lint pot lid and seal.
2. Open all valves, allowing water to flow through pump.
3. Switch on power to pump, motor to start.
4. If some flow of water does not establish within on half minute, switch off and prime pump again. If pump does not prime within 3 attempts, check all suction connections for sealing. If these are satisfactory, a check or foot valve is required to hold water for prime.
5. If the water flow through pump is always tedious to obtain at start-up after cleaning the lint basket, then an examination of the system to establish a reason and correct the cause is recommended. Eg. Check valve, air leaks, faulty seal, cracked lint pot lid, etc.
6. The Viron P 300 has 3 speed settings – Eco, Cleaning and Turbo. Turbo should be used when backwashing, manually vacuuming the pool or operating spa jets or some water features such as waterfalls. Cleaning mode can be used for gentle spa jet action, when suction cleaner is connected to the skimmer or filtration for the pool. Eco is the recommended setting for everyday filtration of your pool when a cleaner is not connected.
7. The Viron P300 will automatically start on Turbo for the first 5 minutes to assist in priming and substantially fill the hair and lint pot with water. After 5 minutes the pump will revert to the last speed it was set at before it was turned off.
8. During normal operation, it is recommended that the pump be operated on Eco for 12 hours per day. This will achieve the lowest operating costs with the lowest noise level. Should your pool have areas where water is not turning over when pump is on Eco, increase the speed setting.

**Notes:** The appliance is not intended for use by person including young children or infirm persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Please ensure that young children are supervised to ensure that they do not play with the pump.

To avoid a safety hazard, the supply cord if damaged, must only be replaced by AstralPool, or its service agent or a suitably qualified person.

### Hours of Operation

The total volume of water in your pool should be turned over at least once a day.

In warmer weather, or when the pool is used a lot, your pump should operate for 12 hours a day or more. Check your chlorine levels and visually inspect your water to ensure that (a) you have adequate chlorine and (b) the water in your pool looks clear and inviting. If you have any doubts, take a sample of water to your local pool shop for a water analysis.

Minimum Recommended Daily Operating Hours			
	Pump Speed		
Pool Size (litres)	Eco	Cleaning	Turbo
25,000	3.0	2.0	1.5
30,000	3.5	2.5	2.0
40,000	4.5	3.0	2.5
50,000	6.0	4.0	3.0
60,000	7.0	4.5	3.5
70,000	8.0	5.5	4.0
100,000	11.5	7.5	5.5

## USE WITH SUCTION CLEANERS

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When connecting a suction cleaner to the P300 series pump, it essential that full prime is achieved on the pump prior to connecting the cleaner hose. During operation on Cleaning or Eco modes, the pump may only operate with partial prime in the hair and lint pot chamber.

To operate a suction cleaner on your pump;

1. Switch pump to Turbo setting
2. Allow pump to operate for a minimum of 2 minutes to allow a full prime to be achieved.
3. Connect cleaner plate and hose to skimmer/wall suction only after all air has been purged from the top of the hair and lint pot of your Viron Pump.
4. Select speed at which the cleaner will travel all areas of the pool. This will usually be "Cleaning" speed.
5. When cleaner is no longer required, disconnect and remove hose/cleaner plate from system. Select the lowest filtration speed that keeps your pool clean – usually "Eco" speed.

## MAINTENANCE

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**Maintenance Schedule:** You new product incorporates moving parts and withstands high velocity water with chemicals in it. Some of these parts will wear in the normal course of use and require regular checks and maintenance. Performing these checks and maintenance will identify parts that have worn and require repair/replacement before further serious damage is sustained. A small amount of regular care and attention to your pool equipment will help ensure long life and trouble free performance.

Timing	Maintenance Check	Service action (if required)
Weekly or sooner	Check and empty hair and lint basket	Empty leaves and debris
Three Monthly	Check Lid O ring and inlet/outlet O rings for leaks	Isolate Pump, turn power off, clean and grease O rings or replace if necessary
Three Monthly	Check surroundings for leaves, debris and flooding	Remove debris and rectify if any flooding
Three Monthly	Check for leaks from underneath pump	Call Service technician, repair or replace mechanical seal and motor bearings if necessary

**Important note:** Regular maintenance is important to ensure long life and trouble free performance of your pool equipment. If unable to perform the maintenance yourself, contact your local Astral Pool office who will arrange a trained service technician to perform the maintenance for you.

Record your Equipment details here for quick reference:

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

## WARRANTY

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Your Astral Pool P300 3 speed pump is covered against defects in materials and workmanship from the date of purchase (plus 30 days to allow for installation) for a period of 3 years. The warranty covers infield labour within capital city metropolitan areas or within a 20km radius of an authorized Astral Pool service agent and the any defective components or parts.

This warranty is subject to the conditions and limitations listed herein. All warranties apply to the original purchaser of the product and are not transferable to new owners. You must notify Astral Pool upon the failure of any component within the warranty period to make a valid claim.

The warranty offered is only valid when the equipment has been used in a normal manner, for the purpose for which it was intended and in accordance with the operating and instruction manual. The replacement of maintenance items used in routine general maintenance are not covered by this warranty. Maintenance items may include (but not limited to);

- Union and lid gaskets / o'rings
- Mechanical seal
- Pre filter basket

This warranty does not cover any equipment that has been improperly installed, misused, neglected, damaged whether intentionally or accidentally, or repaired/replaced without authorization from Astral Pool or altered in any way from its original form. Specific items that will void warranty are (but not limited to);

- Use in non swimming pool applications
- Incorrect power supply and/or connection
- Addition of salt, chlorine and/or other pool chemicals through the skimmer

Extreme operating conditions beyond the control of Astral Pool such as improper power supply, extreme temperatures or other conditions that adversely affect the performance or life of the equipment will void the warranty. Insect infestation or penetration by sand, dust or other foreign bodies will void warranty.

Where in field labor warranty is provided, a 20km radius from an authorized Astral Pool agent is applied. If the location of the equipment is outside this area, travel charges will apply. If your request for a service call is deemed to be non warranty, you will be charged for a diagnostic service call.

Astral Pool reserves the right to repair or replace defective components or products at its sole discretion.

Astral Pool shall have no liability for incidental or consequential damages or delays caused either directly or indirectly by any malfunction of or defect of or failure of the equipment.

Where the equipment is installed in commercial situations including (but not limited to) hotels, motels, caravan parks, health clubs, public pools, body corporate installations, etc the warranty is limited to 12 months.

Proof of Purchase must be retained for all warranty claims. Warranty will not be considered without Proof of Purchase. No person is authorized to make any representation or warranty on behalf of Astral Pool without express written consent from Astral Pool.



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