Swimming Pool Technolog

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BADU® Vacı Automatic Pool Cleaner

Installation and Operation Manual



Fast Start-up, Safely Operate and Efficiently Clean.



Installation and Operation Manual

BADU® Vac T Automatic Pool Cleaner

I. Preparation of Your Pool ————

Before assembling and installing your cleaner, your pool should be clean and algae-free so as not to inhibit the cleaner's traction. If necessary, make the following preparations before proceeding:

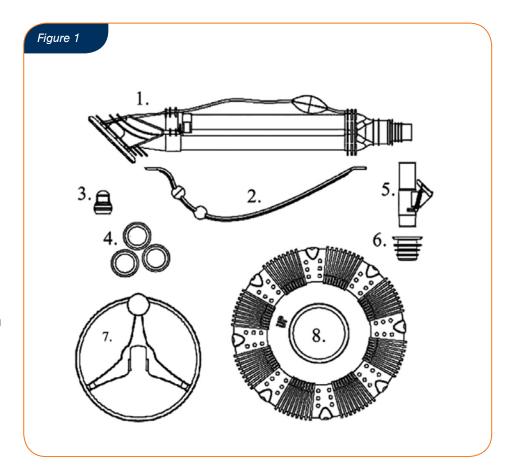
- 1. Chemically balance the pool water.
- 2. Brush pool and let the debris settle.
- 3. Hand vacuum thoroughly.
- 4. Clean filter and pump strainer basket.

II. Assembly =

Remove the body and all of its parts from the box and check to make sure that all components were included. *Refer to Figure 1*.

Components Check List

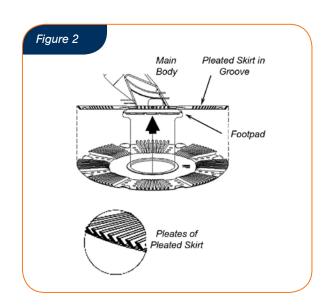
- 1. Body
- 2. Dive float restrictor
- Eyeball diverter and outer ring (Optional extra)
- 4. Hose weights (Set of 3) (Optional extra)
- Automatic regulator valve (Optional extra)
- 6. Regulator Valve 2" (50mm)
 Hose Cone (Optional extra)
- 7. Roller bumper strap
- 8. Pleated skirt
- Hose-10 meters total length (not shown)



Step 1. Attach the Skirt

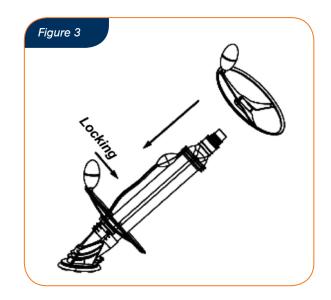
To install the skirt locate the words "**Up**" and face them towards the main body, slip the skirt over the foot pad-(flat side down towards pool floor)-and full gently until it seats itself on the other side in its groove as illustrated in *Figure 2*. **Skirt must be installed flat side down**, **pleated side up**. Once in place, the skirt should rotate and turn freely.

The skirt is not reversible. The raised pleats on the pleated skirt must face upward. The flat side of the skirt should face down to rest against the pool surface.



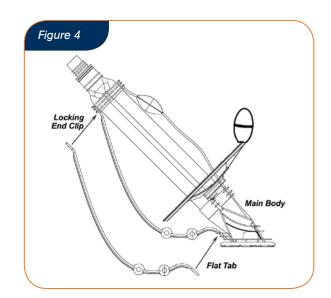
Step 2. Attach the Roller Bumper Strap

Snap the roller bumper strap into the lower U-shaped brace between the dive floats. Make sure the locking tabs on both sides of the roller bumper strap snap securely into place. See Figure 3.



Step 3. Attach The Dive Float Restrictor

Insert the bottom end of the strap into the slot provided on the main body. Insert the top end of the strap into the locking clip attached to the swivel head. See Figure 4.



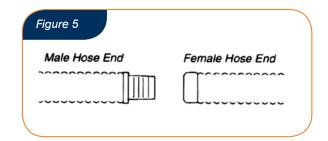
Step 4. Attach the Hose Weights and Assemble the Hoses

The cleaner hose comes in sections which must be assembled. You'll need enough sections to reach from where the cleaner is connected, to the farthest part of your pool, plus one section. You will also have to attach hose weights to the hose to neutralize the hose's buoyancy in water. The number of hose weights required is determined by the maximum depth of your pool. The deeper your pool, the more weights is needed. The number of hose weights appropriate for your pool are explained in Table A.

Table A		
Pool depth	Weight Placement	
1,2m or less	1 weight: 4 to 12 inches from body's swivel head.	
More than 1,2m, but less than 2,1m	2 weights: one 4 to 12 inches and one 6 feet from the swivel head.	
More than 2,1m, but less than 3,6m	3 weights: one 4 to 12 inches and one 6 feet and one 10 feet from the swivel head.	
More than 3,6m	4 weights: * one 4 to 12 inches, one 6 feet, one 10 feet, and one 12 feet from the swivel head.	

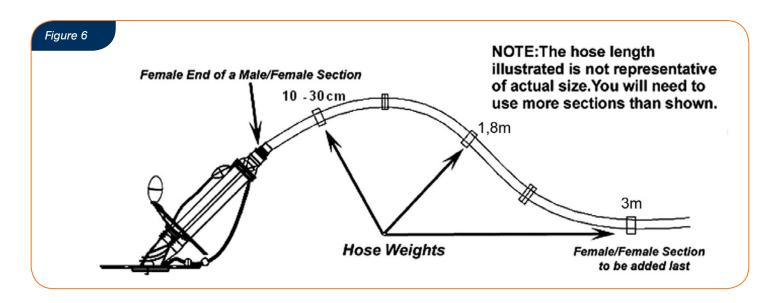
Note: Not all pools will require the hose weights.

Twist and push the female ends onto the male ends after dipping the ends into the pool to wet them. See Figure 5. Continue until you've connected all the sections you need. After connecting the hose weights to the hose as described in "Table A", then connect the hose to the cleaner. See Figure 6.



One of the hose sections has 2 female ends and a hose protector. This section should be fitted last with one end attached to the pool's vacuum connection (the weir or automatic regulator valve) and the other side attached to your first hose.

Your fully assembled cleaner should look like this.



III. Installation

The cleaner is designed to work in wide variety of swimming pools. That's why we've included certain items (such as a 2" hose cone and valve cap for the automatic regulator valve) with your cleaner.

These may or may not be needed, depending on the particular features of your pool.

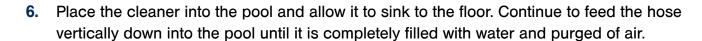
Both the standard in-skimmer installation and an optional vacuum line installation are covered in this manual. Check to see which most closely fits your pool configuration and follow the directions.

Standard Installation

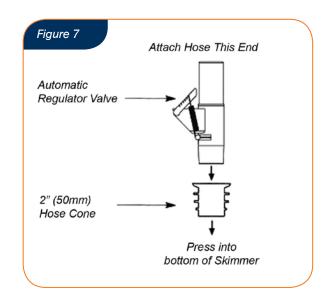
For pools with one skimmer, using the automatic regulator valve.

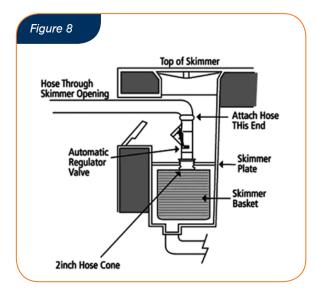
The advantage of this installation is that the automatic regulator valve automatically balances the water flow between the skimmer and the cleaner. We strongly recommend the use of automatic regulator valve for maximum safety and performance. The valve automatically adjusts to changes in the amount of water flow to provide the cleaner with the power necessary to ensure proper cleaning performance.

- 1. Switch the pool pump off.
- Close the main drain and all suction lines, except the line from the skimmer to which the cleaner will be connected.
- Remove skimmer basket.
- **4.** Press the 2" (50mm) Hose Cone into the vacuum connection in the bottom of the skimmer, as shown in *figure 8*.
- Press the automatic regulator valve into the 2" (50mm) Hose Cone.
 - The end of the valve that is marked "Attach Hose This End" must point up. See Figure 8.



7. Insert the end of the hose through the skimmer opening and connect the hose directly onto the automatic regulator valve.





IV. Adjustments

After completing the installation, **turn the pool pump on**. Allow the pump to run for a couple of minutes to ensure all air cycles out of the system. The cleaner should be moving about the pool at a rate of 3-4 meters per minute. Check each of the following initial adjustments to the cleaner at this time.

Hose Length

IMPORTANT: The pump must be on when you check the hose length. The hose contracts when the pump is operating and will be longer when the pump is off.

With the cleaner operating, position it at the furthest point of the pool from where it's attached. (It is easy to position the cleaner the pool by moving it about with your pool pole and brush.) The cleaner's hose should be long enough to reach the end of the pool, plus one hose section. If necessary, remove extra hose sections from the center portion of hose. Removing center hose sections avoids having to disturb the hose weight placements. Save extra hose sections for use as needed for replacement. **NOTE: Turn pool pump off when adding or removing hose sections**.

Hose Balance

To determine correct hose balance, **turn the pump off** and observe the cleaner. Hose balance is correct when the cleaner's seal rests flat on the pool floor and the diver tubes make a 45° angle with the floor, as shown in *Figure 9*. The cleaner achieves the best cleaning coverage when the hose neither weights down nor pulls up on the unit. Adjust hose weights one inch at a time as needed, until proper hose balance is achieved. In pools with both shallow and deep areas, adjust hose weights first in the deep area and then in the shallow area.

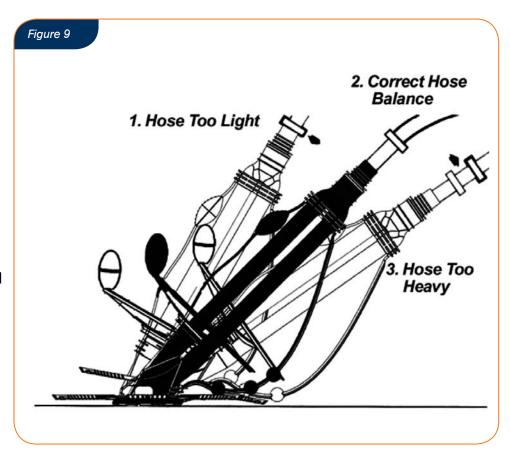
1. Hose Too Light.

If the hose rises towards the surface at an angle greater than 45°, move the weights closer to the cleaner, or move the first two weights closer to each other.

2. Correct Hose Balance.

3. Hose Too Heavy.

If the hose sags downward to an angle less than 45°, move the weights away from the cleaner, or separate the first two weights away from each other.



Return Line Water Flow

IMPORTANT: The water flow from your return line can push the cleaner's hose and affect its performance. It may cause the cleaner to steer away from the end of the pool where the return line is located, or it may cause the cleaner to remain in one section of the pool. To correct this, use the eyeball diverter (optional extra) included with your cleaner, or point your return line fitting in another direction.

To install the eyeball diverter:

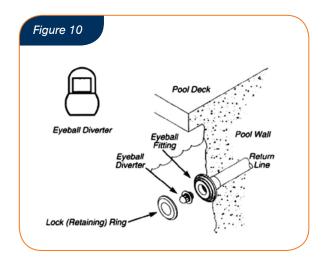
- Note: The eyeball diverter does not fit all pool return line fittings!
- First make sure your **pool pump is off**. Remove the original eyeball from the return line at the pool by unscrewing the lock ring.
- Replace the original eyeball with the **BADU® Vac** I eyeball diverter.
- Replace the lock ring and tighten. Make sure the opening of the eyeball diverter points in the proper direction before tightening fully. See "Eyeball Diverter positions".

Eyeball Diverter Positions

Position the diverter opening to redirect the return line water flow so it does not interfere with the cleaner's movement.

Try different positions to see which works best in your pool:

- Flow directed along the side of pool (the tile line).
- Flow directed downward.
- Flow directed against the hose will help steer the cleaner away from obstructions such as stairs and ladders.



After installing the eyeball diverter, **turn the pool pump on**. The **BADU**® **Vac I** should begin moving across the pool floor vacuuming up debris in its path.

VI. Troubleshooting —

Because of the individual characteristics of your pool, some additional adjustment may be required to get the best performance from your $BADU^{(\!R\!)}$ Vac_{1} .

If there seems to be a problem, check these common causes of cleaner problems.

CHECKS	SOLUTIONS
Is bottom main drain closed?	Close the drain
Is filter clean?	Clean the filter
ls pump strainer basket clean?	Clean the basket
Is debris blocking the bottom of the cleaner?	Remove the debris
Are there any leaks/cracks in the hose?	Replace the leaky/cracked sections
Is automatic regulator valve free of debris?	Clean the valve

	PROBLEMS	SOLUTIONS
run	he cleaner is working slowly, s then stops or not moving ot pulsating at all.	 Check to ensure that the main drain and all suction lines are closed, except for the suction line to which the cleaner is attached.
		Check for debris in the weir or pump basket and check that all the baskets are in a good condition and are not broken.
		 Check for debris in the cleaner's hammer. Debris may prevent hammer movement or restrict flow.
		 Pool pump and filter system may be too small (incapable of providing 75 L per minute water flow). Consult your pool professional.
		 Check that the vacuum lid is flush with the weir and not damaged.
		Check that the filter has been back washed and rinsed thoroughly.
_	e cleaner stays in one end he pool.	Check the return line water flow and redirect as necessary with and eyeball diverter.
		 Check that hose is long enough to reach to end of pool.
		Check that the cleaner has proper hose balance.
3. If ti dra	ne cleaner stays on the main in.	Check to ensure that main drain is closed. A pool professional may need to assist you.
		 Check to ensure that a main drain grate is installed.
		If main drain is not flush with the pool floor, consult your pool professional.

	PROBLEMS	SOLUTIONS
4.	If the cleaner slows or stops and air bubbles enter the pool at the return line.	 Find and correct the air leak that is causing the pump to lose its prime by doing the following: Check the hoses to ensure there are no leaks. Check the vacuum lid at the automatic regulator valve connection. It should be submerged in the water so no air enters the system. Top up the water level if it is neccesary. Check the pump lid for looseness, cracks, and worn or missing O-rings. If you need assistance, contact your pool professional.
5.	It the cleaner pulls air from, or remains at, the water surface.	 Check to ensure the dive float mechanism is operating freely and the dive float restrictor is installed. (See page 2 for how to install dive float restrictor.) Check the automatic regulator valve for its proper installation and ensure it is not clogged with debris. Make sure the water level is at least 7-8 cm's below the pool deck. Check to insure the BADU® Vacı is operating at the proper speed of 2-4 meters per minute.
6.	If the cleaner stays at the shallow end steps.	 Check the return line water flow and re-direct as necessary with an eyeball diverter. Check the automatic regulator valve for its proper installation and ensure it is not clogged with debris. Check that the hoses are long enough to reach the furthest point of the pool, including the pool steps. Check that the cleaner has proper hose balance in the shallow end.

PROBLEMS	SOLUTIONS
6. Continued	Check that the cleaner has proper hose balance in shallow end.
	 Check to ensure your cleaner is operating at the proper speed of 2-4 meters per minute.
	Check to ensure the dive float mechanism is operating freely and the dive float restrictor is installed. (See page 2 for how to install dive float restrictor.)
	 Shorten the dive float restrictor by 1cm. (Pull out upper end of the restrictor from the locking end clip attached to the swivel head. Cut 1cm off, then return the restrictor into the locking end clip.)
7. When the cleaner tracks in a	Check the swivel on the top of the
repetitive pattern.	cleaner. It should turn freely.
	 Check the return line water flow and re-direct as necessary with an eyeball diverter.
	Check the cleaner's hoses to ensure it has not become bent or kinked. It only takes one bent or kinked hose section to hinder the cleaning coverage. One way to check for kinks in your hose is to lay each section flat on your pool's deck (or other flat surface). The hose should be perfectly straight and flat. Do not coil the hose when taking your cleaner out of the pool because it will retain the coil shape, forming a bend or kink.

	PROBLEMS	SOLUTIONS
8.	The pool cleaner climbs above the water level.	 Check if there is too much suction. Check if the automatic regulator valve is free of debris. Adjust the automatic regulator valve setting.
9.	The pool cleaner does not climb the walls easily.	 Check if there is sufficient suction. Adjust the automatic regulator valve setting. Check that the filter and baskets are clean.
10	. The pool cleaner falls on it's side.	 Check that the hammer chamber is free of debris. Check that the swivel head of the pool cleaner is moving freely.

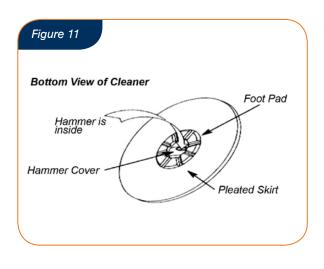
To Remove Debris from the Hammer.

inside the main body.

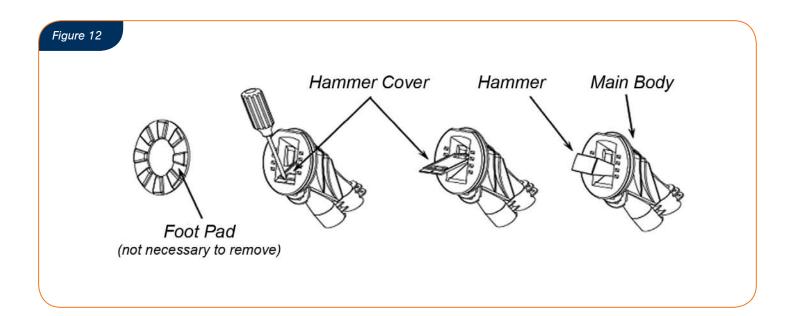
Sometimes debris may clog the bottom of the cleaner and prevent hammer movement or restrict flow. The hammer is located inside the main body and must move freely at all times.

You can see the hammer through the opening in the hammer cover, when you turn the cleaner upside down as shown in *Figure 11*.

Jiggle the hammer with your finger or flush the cavity with a hose to fore out any debris lodged



- If debris is still lodged inside, you must remove the hammer. First, remove the pleated skirt. Unscrew the hammer cover and then remove it from the main body. In succession, take out the screw from the hammer cover. Lastly, remove the hammer from the main body. See Figure 12.
- Once the debris is dislodged, insert the hammer back into the main body and snap the hammer cover back into position. Be sure that it is securely in place and tighten the screw.
 Do not over tighten the screw, you might damage the hammer cover. See Figure 12.



VII. Maintenance

The cleaner requires almost no maintenance. Visually inspect your cleaner from time to time to make sure that:

- The hammer is moving freely and is not obstructed by debris.
- The foot pad is not excessively worn. When the traction pads on the bottom have worn down, it is time for replacement.

When storing the cleaner, do not coil the hose. Lay the hose flat in an area protected from direct sunlight. If hose sections are disconnected, try not to disturb the hose weight locations.

The **BADU**[®] **Vac** I hoses is specially designed to ensure optimum performance from the cleaner. Should replacement be required, insist on genuine **BADU**[®] **Vac** I hoses.

Disclaimer of Liability - About your Pool and the Cleaner

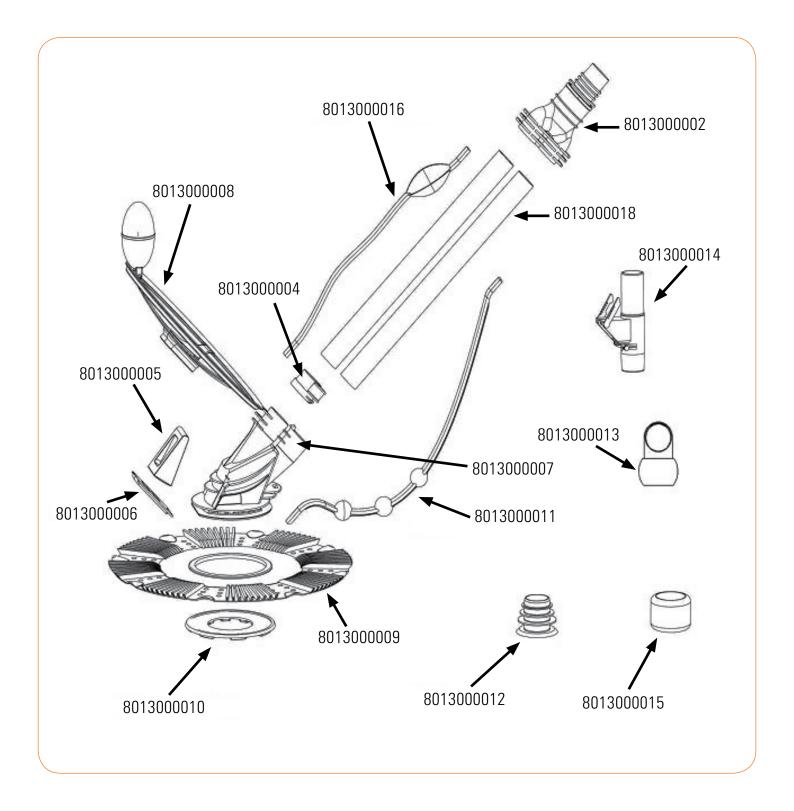
There are a multitude of factors that contribute to the life of your pool. The **BADU® Vac I** Automatic Pool Cleaner is very passive product that will have no impact on pool life.

Please be aware that over time, deterioration, discoloration and brittleness of any pool finish can be caused separately by, or in combination with, age, an imbalance in pool water chemistry, improper installation and other factors. An automatic pool cleaner, such as the **BADU® Vac I**, will not remove or cause wear on "good" pool plaster. In fact, the opposite is true – pool plaster will eventually cause wear on the cleaner.

The same situation holds true for vinyl-lined in ground swimming pools, because vinyl liners are also affected by environment and factors such as pool water chemistry, sunlight and the pool's surroundings. Therefore over time, vinyl can become brittle and weak. In addition, vinyl-lined pools are affected by the workmanship, composition and installation of the liner and the workmanship and quality of construction of the supporting walls and pool base. These are all factors which can contribute to liner failure. The existence of any of these type of conditions in your pool is not caused by the use or operation of the **BADU® Vac I**. The manufacturer and Speck Pumps SA Pty Ltd as the distributor disclaims any liability for repairs or replacement to any of these structures or components of the customer's pool.

The pool owner must assume all responsibility for the condition and maintenance of the pool's surface, water and deck.

Parts List =





WARRANTY CARD

BADU® Vac 1

Your **BADU® Vac** I Automatic Pool Cleaner is guaranteed to be free of defects in workmanship and materials for a period of 1 year from the date of purchase.

The warranty is limited to the replacement or repairs of defective parts only and excludes:

- All wearing parts which must be regularly checked and replaced when worn.
 These include the foot pad, dive float restrictor, skirt and hammer plate.
- Any discoloration or fading of BADU® Vac I parts.
- Any damage to the BADU® Vacı resulting from improper or abnormal use or conditions, inadequate care and maintenance, and all such acts or omissions beyond our control.

The warranty is not transferable and replaces all other guarantees, representations, or warranties whether expressed or implied relating to the **BADU® Vac 1** including its merchantability and fitness for purpose.

This warranty is valid only within the border of the Republic of South Africa.

NAME:		
ADDRESS:		
	CODE:	
TEL. NO.: ()_		
NAME OF DEALER:		
DATE OF PURCHASE:		
SEDIAL NUMBED:		









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