



# Bad Boy

Spa & Swimming Pool  
Pumps

**Model – Bravo**  
**Single Speed Pool Pump**  
3 year warranty



This manual contains important information relating to the installation, and operation of this pump. Please ensure this manual is left with the pump operator for future reference.

## WARNING - IMPORTANT SAFETY INSTRUCTIONS

Read all instructions contained in this booklet before turning on power to pump. Familiarise yourself with the pump, taking care to identify hazards in your surroundings.

This pump should be installed by a registered electrician. Do not attempt any repairs or modification to pump, unless you are suitably qualified.

**MANDATORY** - The pump must plug into an approved earth leakage circuit breaker (RCD, Transformer) not exceeding 30mA.

The pump is not a toy, DO NOT allow anyone to treat it as one.

The pump should not be operated by children or the infirm, unless they are closely supervised at all times.

To reduce the risk of electric shock

- Replace any damaged or worn power cords.
- Do not use an extension cord.
- House the pump out of the weather (sun & rain) and above any ground water.
- Turn the pump "off" at the socket before performing any work on it.
- Use an approved circuit breaker not exceeding 30mA.

The pump contains a number of moving parts which can cause injury. DO NOT allow fingers, hair, clothing or tools near pump when it is operational.

Ensure the pump does not overheat. Provide good ventilation.

Ensure the installation of the pump allows for easy and safe access at all times.



Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

## CONGRATULATIONS

You now have a Bad Boy at your place and we know it's a good thing! Bad Boy pumps are all muscle.

You can rely on this pump to quietly go about the business of maintaining awesome circulation of water around your pool. Our Bad Boys are tested to deliver the right voltage, deliver the right pressure and remain mechanically sound. So much so we provide a 3 year guarantee (see warranty for details).

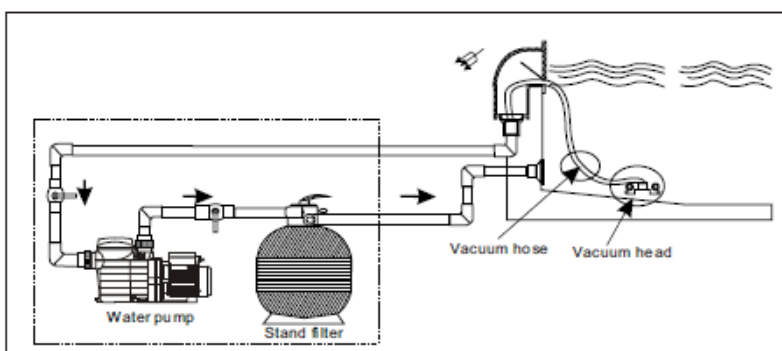
## LOCATION OF PUMP

- Safety First – Locate away from children, animals and play areas.
- The pump should be located as close to the pool as practical.
- Ensure it is housed out of water and away from water splashes.

## INSTALLATION

- View the installation diagram for placement and setup of pump.
- Firmly mount the motor frame on to the floor or to a solid and stable base using screws. Use a thin rubber pad in between. This further aids the minimisation of vibration which can cause movement and noise.
- Do not connect pump flex through an extension cord. Connect via an RCD unit not exceeding 30mA.
- Minimum suction end piping should be, ID - 40mm with 50mm being ideal. Pump includes barrel unions to suit 40 & 50mm pipe. Use solvent cement on all non-threaded joints and test.

## Installation diagram



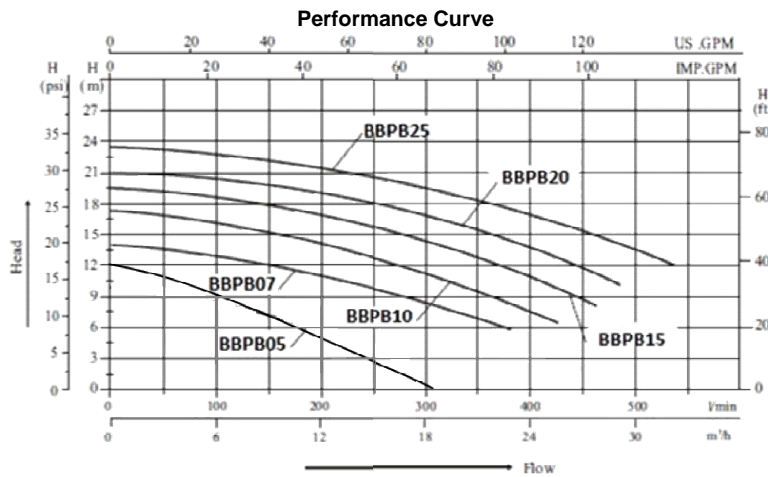
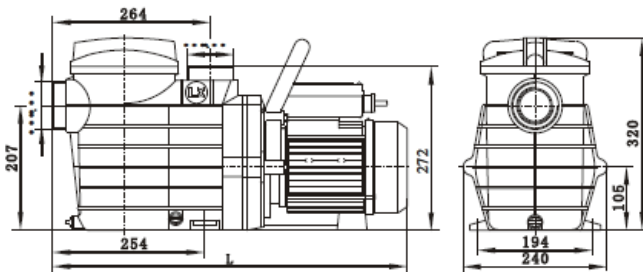
## POOL START-UP

### ENSURE;

- All valves are open for free flow of water including filter valves.
- Pool is full & skimmer basket is clear of debris.
- All pipes are joined and glued. All unions are hand tightened only.
- Pump is primed by adding water through pump strainer housing.
- Strainer basket is in place, lint filter lid is in place and O-ring is sealing effectively.
- Unsecured items around the pumps location cannot fall on or impede the pump
- Switch on pump and monitor running. Air under lid should steadily disappear. If a strong flow of water is not experienced. Turn pump off and re-prime and start pump up again

### ROUTINE MAINTENANCE

- Visually check for damaged, loose wiring, leaks or abnormal noise and vibration. (Contact your pool shop for advice as necessary)
- Ensure pool pH level is maintained between 7.2- 7.8
- Ensure sanitiser levels do not regularly exceed 3.0 ppm.
- Check and empty as required, the pump lint filter basket (the basket size – 1.7 litre).



BAD BOY CODE	QMAX (lpm)	HMAX (m)	POWER -input (P1)		POWER output (P2)		AMPS	NET KG
			kW	HP	kW	HP		
BBPB05	12.5	310	0.55	0.5	0.38	0.5	3.2	12
BBPB07	340	14.5	0.75	0.75	0.55	0.75	3.8	13.5
BBPB10	420	17	1.1	1.0	0.75	1.0	5.2	15.5
BBPB15	465	19	1.5	1.5	1.1	1.5	7	17.5
BBPB20	480	21	1.85	2.0	1.5	2.0	8.6	18.5
BBPB25	540	23	2.2	2.5	1.85	2.5	10	20

## WORKING CONDITIONS

1. Operating temperature: 5-50° Celsius.
2. Environmental temperature: below 40° Celsius.
3. Max. Working pressure: 0.3MPa.

TROUBLE SHOOTING	EVIDENCE	ACTION
Pump wont prime	Noisy cavitation and air bubbles	Check o-ring seal on lint pot in place Suction end piping has air leaks. Re-glue or tighten. Pool water level is low.
Pump won't turn on	Pump not operating	check power supply enabled Check RCD activated. Check timer clock set correctly Thermal overload activated. (Seek advice from supplier)
Lint basket leaking	Water dripping from top of lint pot	Check o-ring set correctly and surfaces clear of debris
Pump operating with little flow	Water flow at outlet jets low	Back wash filter Empty pool skimmer or pump lint pot Check all valves are set correctly
Pump noisy	High pitch whine	Bearings may be worn and require replacing

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given adequate supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with this appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, service agent or a qualified person in order to avoid hazards.

## WARRANTY

In the unlikely event you experience any issues with your Bad Boy pump, within 3 years of the date of purchase, please contact the dealer from which you purchased the Pump who will organise repair or replacement. Ensure you have a valid proof of purchase that clearly demonstrates the product name, its date of purchase and the place of purchase. This is a return to base warranty. The onus is on the purchaser to return the pump to the dealer at the purchasers own expense.

## ITEMS NOT COVERED BY THE WARRANTY

- Claims outside the 3 year warranty period.
- Fair wear & tear.
- Consumables – including mechanical seals, bearings, capacitors, o-rings.
- Damage resulting from misuse, neglect, improper use outside design parameters.
- Improper or inadequate installation or operation.
- Voltage spikes, corrosive chemicals.
- Unauthorised persons attempting repairs or modifications.
- When used in a commercial application, warranty is for 1 year only.

Space Industries Ltd is not liable for any consequential losses associated with this Bad Boy Pump for whatever reason. Nor are they liable for any damage or injury caused directly or indirectly as a result of the operation of this Bad Boy Pump.

This limitation does not negate our obligations under the New Zealand Consumer Guarantees' Act.

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