



# Domestic Water Supply Pressure Pumps




**Instructions and Warranty**


# Bianco Domestic Water Supply Pressure Pumps


## BIA-MULTI900PC BIA-MULTI1300


### Instruction manual

#### Safety precautions

The symbol  together with one of the following words 'Danger' or 'Warning' indicates the risk level deriving from failure to observe the prescribed safety precautions:

**DANGER**  Warns that failure to observe the precautions involves a risk of electric shock.

**DANGER**  Warns that failure to observe the precautions involves a risk of damage to persons and/or property.

**WARNING**  Warns that failure to observe precautions involves a risk of damaging the pump and/or plant.

#### 1. General information.


These instructions are designed to ensure the correct installation and best use of our automatic constant water auto restart pressure pumps.

If you have any doubts, please consult your specialist dealer.

The assemblies are quiet and are designed to provide an automatic supply of clean water to one dwelling.

By strictly following the instructions for installation and use of the pump, you will avoid the possibility of damaging the pump or any other problems associated with misuse, for which we can accept no responsibility.

When the pump reaches maximum pressure, the pump automatically switches off. Unit selection must take into account the fact that the differential must be over 140 kPa.

 The BIANCO Pressure System Pumps are 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 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 the pump.

## 2. Installation.



The pump should be protected from the elements and flooding and be installed in a sheltered but well ventilated place.

The pump should be installed as near as possible to water level, in a horizontal position, in order to obtain best performance.

The pump should be fixed on a firm base.

## 3. Suction pipe work assembly.



The suction pipe should be a minimum diameter of 25mm. The suction pipe should be free from any air leaks and have a continuous fall to the rainwater tank so that air pockets do not form. The suction pipe should be supported independently from the pump.

If a suction lift is required, then a foot valve is recommended on the end of the suction line.

## 4. Discharge pipe work assembly.



The discharge pipe work diameter should be equal to or larger than the pump discharge.

The discharge pipe should be free from any air leaks and be connected to the outlet of the pump. The discharge pipe should be supported independently from the pump and checked for water tightness.

We recommend the use of a flexible anti vibration hose on the discharge as direct connection to rigid pipe work can transmit sound.

## 5. Electrical connection.



If the supply cord is damaged, the pump should be returned to the supplier for repair.



A power point (10 amps) should be provided by a qualified electrician.

The pump is to be supplied by an isolating transformer or supplied through a RCD having a rated residual operating current not exceeding 30 mA.

All single phase models have an automatic reset thermal overload protection built in, and overload will switch the motor off and later will automatically reset and switch the motor on when the motor has cooled down.

## 6. Controls prior to start up.



Before starting the pump ensure that:

The grid voltage and frequency match those shown on the name plate.

That the pump shaft turns freely.

That the pump body is completely full of water.

Prime the pump by removing the priming plug and filling the pump body with water.

Refit the priming plug.

**THE PUMP SHOULD NEVER BE OPERATED DRY!**

## 7. Start up.



Open all valves in the suction and discharge lines. Switch on the power and the pump will start automatically. Allow the pump to run with the discharge tap open for up to two minutes to bleed any air that may be in the system.

Close the discharge tap and the pump will automatically turn off.

If the pump is not properly primed or there is no water supply after two minutes, turn the pump off and repeat priming the pump.

If the pump does not operate or does not produce pressure, try to discover the cause of the problem consulting the troubleshooting guide provided.

## 7. Auto restart.

MULTI900PC and MULTI1300PC are fitted with an advanced Auto-Restart controller that automatically looks for water every 24 hours should your rain water tank run low.

The function of the Auto-Restart controller is:

Normal application.

1. The unit will start automatically in 2 seconds at the first time it is connected to power supply.
2. During normal water consumption, the unit can stop automatically in 10 seconds if any of the taps is closed.
3. The unit can start immediately if any of the taps is open for water consumption.
4. When no water consumption is needed the unit can stop automatically by closing the tap.

Dry running protection and automatic delayed start.

1. Water pump will stop automatically after 20 seconds if there is no water supply at the suction line.
2. The pump will attempt to restart again after stopping for 10 seconds to check water supply.
3. The pump will run for 40 seconds and if there is no water supply, it will stop for a second time.
4. The pump will repeat above 2 and 3 procedure in the coming cycles and if there is still no water supply, the pump will turn to dry running protection status.
5. The above procedures will be repeated every 24 hours for water supply detection after dry running protection.
6. The controls indicates that it is waiting to restart by the "failure" light flashing.

Auto reset

1. The pump will restore to its normal operation if water supply is resumed during above 1 – 5 process under dry running protection status.
2. The system can be activated anytime by pressing the manual reset key.

## 9. Maintenance.

MULTI900PC and MULTI1300PC require no specific maintenance. Notwithstanding, we recommend they be emptied of water when temperatures are low and there is a risk of freezing, or if the unit is not going to be used for a long period of time.

If the unit is not going to be used for a long period of time, it should be cleaned and stored in a dry, well ventilated place.

## Troubleshooting table

- 1) The pump does not shut down.
- 2) The motor operates but provides no flow.
- 3) The pressure is not sufficient.
- 4) The pump is constantly stopping and starting.
- 5) The pump does not start.

1	2	3	4	5	Causes	Solutions
	x				Closed gate valve	Open valve
x			x		Tap or cistern leak	Repair leak
				x	Pump blocked	Call service engineer
		x			Total head height too high	Check geometric head plus loss of pressure due to friction
x	x	x			Air entering suction channel	Carefully seal all joints and connectors
				x	No power	Check fuses. Turn power on
x		x			Leak in discharge pipework	Repair leak
				x	The static head is greater than the assembly pressure	Check start-up setting is correct

BIANCO PUMPZ					
Model: BIA-MULTI900PC			N. 1		
Q 10-90 l/m	H 36-10 m		1.2 HP		
Hmax 36 m	Hmin 10 m				
240 V		3.4 A		50 Hz	
2800 1/min	IP 44	I.C.L.F	16 uF 450V		
Distributed by: White International Pty Ltd Made in China					CE

BIANCO PUMPZ					
Model: BIA-MULTI1300PC			N. 1		
Q 10-90 l/m	H 56-10 m		1.75 HP		
Hmax 56 m	Hmin 10 m				
240 V		3.8 A		50 Hz	
2800 1/min	IP 44	I.C.L.F	20 uF 450V		
Distributed by: White International Pty Ltd Made in China					CE



# 2 YEAR WARRANTY\*

## PRESSURE SYSTEM PUMPS

### TERMS AND CONDITIONS

(Subject to the provisions of the Trade Practices Act and Goods, Consumer Protection Legislation and Consumers Guarantee Act NZ throughout Australia and New Zealand)

1) White International Pty Ltd / White International NZ Ltd warrants that the Bianco Pumpz Pressure System Pumps that we distribute are free from defects in workmanship and materials, for 2 YEARS from the date of purchase. Subject to the conditions of the warranty White International will repair any defective products free of charge at the premises of our authorised service agents throughout Australia and New Zealand.

2) This warranty excludes transportation costs to and from White International or its appointed service agents and excludes defects due to non-compliance with installation instructions including protection from the elements, neglect or misuse, inadequate protection against freezing, low voltage or use or operation for purposes other than those for which they were designed. For further information regarding the suitability of your intended application contact us on our Sales Hotline.

3) The 2 YEARS warranty refers only to all **BIANCO Pumpz Pressure System Pumps** sold after the 1st July 2004, and is not transferable to another BIANCO pump and only applies to the original owner, purchaser or end user, and is subject to the Trade Practices Act and Goods, Consumer Protection legislation and Consumers Guarantee Act NZ throughout Australia and New Zealand.

4) Our warranty commences from the date of purchase of the above mentioned pumps. Proof of purchase is required before consideration under warranty is given. Record your date of purchase in the space below and retain this copy for your records.

Date of Purchase: \_\_\_\_\_

Model Purchased: \_\_\_\_\_



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