



Blue Moon RO



## Instruction Hand Book for Installation Operation and Maintenance



8 Purification  
Stages



14 LTR.  
STORAGE



MADE BY ABS  
FOOD GRADE  
PLASTIC



BIO-MINERALS  
CARTRIDGE TO  
ADD MINERALS



15 LTR. PER HOUR  
PURIFICATION CAPACITY



## Welcome to Bluebird Pure World

Dear Bluebird Pure Customer,

For more than past three decades, bluebird is a reputed leading brand of automatic voltage stabilizers. We follow stringent quality norms and our product undergoes rigorous quality check. We are following in the same footsteps for our new venture of water purifying systems.

We thank you for choosing our bluebird pure product to provide you with clean and healthy drinking water. We are confident you will be satisfied with the quality of purification this system provides. Our customer services and performance will serve your needs for safer, cleaner and healthier drinking water.

Please read this user manual to get the best performance out of this system. To make sure that your warranty date and purchase has been registered with us. Please fill the enclosed warranty card and mail it back to us within 15 days of purchase.

For any further assistance, please contact your near Bluebird dealer/branch.

Best Wishes  
M/S Bluebird Water Purifiers

## Blue Bird Technology - A Breakthrough in water purification

Presenting the Bluebird water purifier; it uses futuristic and state-of-the-art-technology to provide pure & healthy drinking water.

The heart of Bluebird water purifier is a Reverse Osmosis membrane having capillaries as small as .0001 microns that removes even dissolved impurities (salts & heavy metals) as well as harmful micro-organisms (bacteria, viruses etc.) and even converts hard water to sweet and pure drinking water. It also incorporates a UV sterilization process to give double protection from harmful micro-organisms.

Bluebird also allows the user to control the Total Dissolved Solids (TDS) level of purified water.

### Sailent Features of Blue Bird Wall Mounting RO

- Triple purification by RO + UV + UF processes.
- In-built TDS Adjuster that allows adjustment of TDS level of purified water.
- Ideal for any source of water i.e. municipal, bore well or river.
- Wall mounted design; best suited for Indian homes and offices.
- 14 ltrs. storage tank with water level indicator.
- Fully automatic operation, with auto-on and auto-off.
- Computer controlled operations for enhanced purity and long life.
- Vertically mounted SMPS for protection from water.
- Use of push-fit fittings for leakage and maintenance free performance.
- New eye appealing design.
- ABS construction for corrosion free use.

### Items in the Box

|                             |   |        |
|-----------------------------|---|--------|
| 1. Main Purification System | : | 01 No. |
| 2. User Manual              | : | 01 No. |
| 3. Installation Kit         | : | 01 No. |
| 4. Pre-Filter Unit          | : | 01 No. |

### Installation Manual

- |                       |                            |                                       |
|-----------------------|----------------------------|---------------------------------------|
| 1. Drain Saddle Clamp | 2. 1/4" Tubing             | 3. Bottom filter housing wrench       |
| 4. Tube Insert*       | 5. 1/2" feet water adapter | 6. Chrome ball valve for water supply |



1



2



3



4



5



6

\*Note : Item #4 tube inserts are not required in the installation, but you can put them in three places :

- Tubing connection at 1st stage filter
- Tubing connection at tank ball valve
- Tubing connection at dispensing faucet.

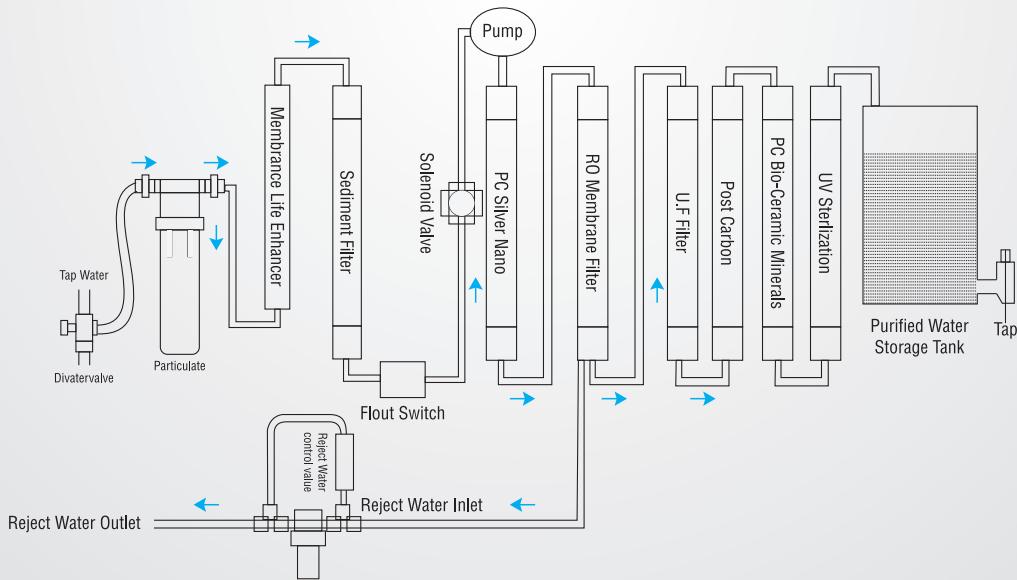
## Reverse Osmosis

The Reverse Osmosis process, also known as hyper filtration, is the finest filtration process known till date. The process ensures removal of particles as small as ions from a solution. Reverse Osmosis uses a semi-permeable membrane to remove salts from potable / brackish water. In reverse Osmosis, water pressure applied to the concentrated side forces the process of osmosis into reverse. Under enough pressure, pure water is "squeezed" through the membrane from the concentrated side to the diluted side. Salts dissolved in water as charged ions are repelled by the RO membrane. The rejected impurities on the concentrated side of the membrane are washed away in a stream of waste water and thus do not get accumulated as in a traditional filter.

## UV Process

The UV Light has shorter wavelength (higher energy) than the visible light. It is called ultra-violet because it is just beyond violet light in the light spectrum. Technically, the ultra-violet light is defined to be any wavelength of light, which is shorter than 400 nanometer.

UV rays, which penetrate into the micro-organisms, are absorbed by the DNA of the pathogen in the water. The DNA is altered in such a way that the pathogen can not reproduce itself. Thus, it is essentially killed and cannot cause infection. This process of DNA modification is called inactivation.



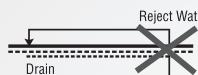
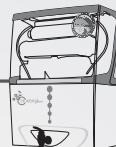
## Important Instructions



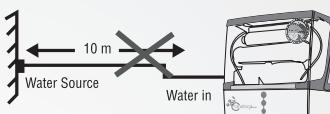
Avoid exposure to direct sunlight and installation in damp areas



Make sure that the purifier is connected to cold water supply only



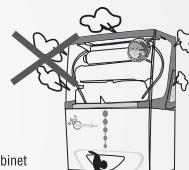
Make sure that the reject water pipe is not placed at a level higher from the purifier, otherwise reject water may flow backwards into the purifier



The maximum distance between the water source and the purifier should not be more than 3 meters.



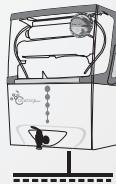
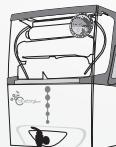
Avoid sharp bends in the pipe  
Do not bend or block the reject water pipe



Do not confine the purifier in a cabinet



In case of not using the purifier for more than two days, kindly switch off the power supply and drain the storage tank

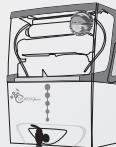


To keep the storage tank clean it should be drained once in 15 days

Avoid using anything abrasive on the plastic parts. Use Sponge if you want to.



Do not try to service the purifier on your own. instead call service technician for help.



Manufactured by

Bluebird Water Purifiers

70, Rajasthani Udyog Nagar Industrial Area,

GT Karnal Road, Delhi-110033

Website :- [www.bluebirdwaterpurifiers.com](http://www.bluebirdwaterpurifiers.com)

Toll Free No. :- 1800113911

Made in India

## **Warranty Card**

(For Sale through Dealer)

Product : \_\_\_\_\_

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

### **Customer Details**

Customer's Name \_\_\_\_\_

Customer's Address \_\_\_\_\_  
\_\_\_\_\_

Customer's Ph. No. \_\_\_\_\_  
\_\_\_\_\_

### **For Service Contact :**

Service Provider's Name \_\_\_\_\_

Service Provider's Address \_\_\_\_\_  
\_\_\_\_\_

Ph. No. \_\_\_\_\_  
\_\_\_\_\_

### **Warranty Details**

Invoice Date \_\_\_\_\_ Invoice No. \_\_\_\_\_

Date of Installation \_\_\_\_\_ Stamp of Service Provider



Manufactured by

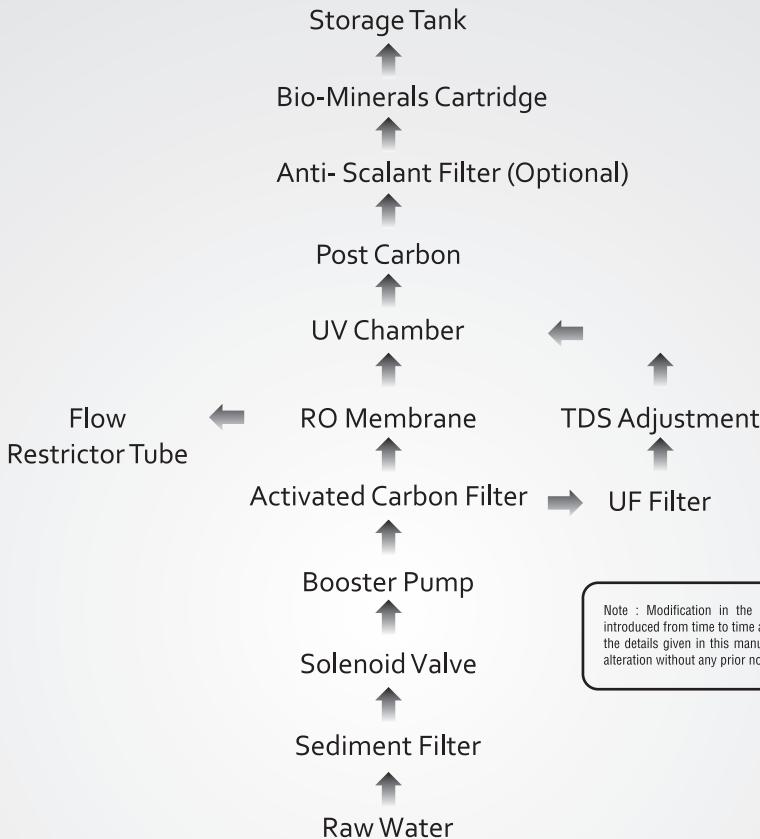
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## Terms & Conditions of Warranty

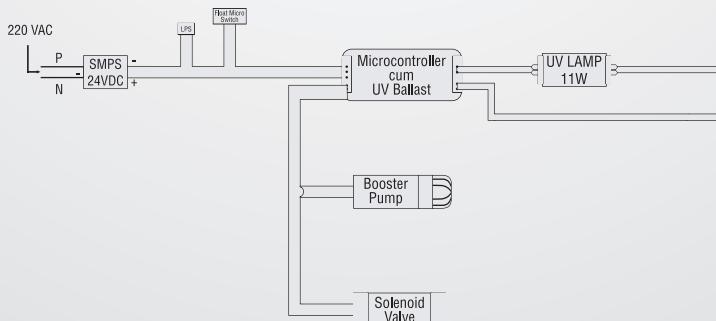
Bluebird pure warrants all new products manufactured by it to be free from defects in material and workmanship under normal usage and service from the date of purchase as under :

- The Warranty period commences from the date of purchase by the first end-user. During this warranty period of one year, Bluebird pure or its Authorised Service Provider (ASP) will replace or repair any part of the Bluebird pure water purifier, that in the opinion of Bluebird pure or its ASP, would be defective in operation due to faulty material or workmanship (i.e. manufacturing defects) with the exception of consumables such as Sediment Filter, Carbon Filter and RO/UF Membrane. However, if the RO/UF membrane gets clogged within first six months, it shall be cleaned / repaired / replace at no extra charge.
- The product's plastic body is not covered under warranty and hence, it must be handled with care to guard against breakage.
- The original purchaser of the unit can avail services under warranty at the point of sale, by producing the damaged part(s) along with the original invoice.
- This warranty is void if the unit is not operated under normal municipal water or well water conditions or is subjected to the temperature above 35°C.
- Product returned to Bluebird pure or its ASP for warranty examination must be shipped freight prepaid.
- Bluebird pure or its ASP shall not be held liable for claims exceeding the cost of repair of the defects in workmanship.
- This warranty agreement shall not be interpreted to render Bluebird pure or its ASP liable for injuries or damages of any kind - direct, consequential or contingent to persons or property.
- Bluebird pure or its ASP shall not be held responsible by representative or buyer for failure to abide by any of the obligations of this warranty agreement if such failures are the result of circumstances of forces majeures: such as, but not limited to, floods, earthquakes, transportation strikes, labor disputes with outside suppliers or any other conditions beyond the control of Bluebird or its ASP.
- Bluebird pure or its ASP shall not be held liable for repair or alterations made without prior written approval; for products clogged by suspended matter, precipitates or biological growth; or for failures resulting from the lack of proper maintenance.
- Bluebird pure or Its ASP cannot and shall not be held liable for any sickness or illness due to the consumption of drinking water from any water purifier supplied by Bluebird pure, since Bluebird pure or its ASP does not have any control over the maintenance and usage of water purifier.
- This warranty agreement excludes all products/components parts or damage to any part of this water purifier which, in the opinion of Bluebird pure or its ASP, have been subjected to misuse; misapplication; negligence; alteration; accident or operation contrary to our instructions, incompatibility with accessories not installed by Bluebird pure or its ASP, or that have been repaired with component parts other than those manufactured by or obtained from Bluebird pure or its ASP. Damage caused by freezing, flood, fire or act of God is not covered by this warranty. In all such cases regular charges will apply. This limited warranty does not include service to diagnose a claimed malfunction in this unit.
- Bluebird pure reserves the right to alter or improve design and specifications at any time, without any contingent obligations to prospective buyers or owners of the products previously sold.
- Any disagreements and obligations based upon the purchase of bluebird pure products and thereby imposed on bluebird pure or its ASP shall be governed by and construed according to the laws of INDIA and subject to the jurisdiction of Delhi Courts only.
- Bluebird pure or its ASP assumes no warrant liability in connection with this water purifier other than that specified herein. This warranty is in lieu of all other warranties, expressed or implied, including warranties of fitness for a particular purpose. Bluebird pure or its ASP does not authorize any person or representative to assume for them any other obligations on the sale of this water purifier.
- Under no circumstances are the terms mentioned above negotiable and no employee of Bluebird pure or its ASP has the authority to supersede them.

## Water Flow Diagram



## Circuit Diagram



## Installation Instructions

The Bluebird water purifier is a product of advanced technology, which ensures safe and clean drinking water. The purifier is easy and convenient to install.

### Recommended Site Preparations :

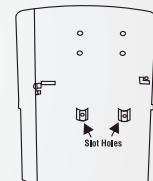
- 220 V single phase AC connection not more than 3 m away from the point of installation of purifier.
- Raw water supply with 1/2" nipple not more than 3 m away.
- Drain for rejected water not more than 3 m away .
- Space as per dimensions of the purifier.
- Wall/plane surface for mounting two screws and holding the machine.

### Specific Instructions :

- This Bluebird pure product is a wall mountable purifier. Make sure that it is only mounted on a wall. Avoid installation on wooden and metallic stands.
- For optimum performance minimum inlet pressure required, ensures that the raw water supply tank is at least 10 ft above the level at which the purifier is installed.
- It is preferable to install the purifier near a sink so that inlet and reject water lines are easily available.

### Installation Procedure :

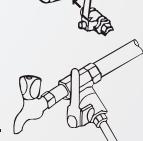
1. Screw in the two 16 x25 self taping screws (supplied with the package) on a same horizontal level at a distance of 5.4 inches (138 mm) from each other in the wall.



2. Carefully hang the purifier on the wall with the help of wall mounting slot holes present on the back side of the purifier as shown in the figure below.



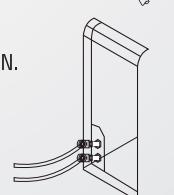
3. Fix the SS ball valve to the 1/4 inch port of the 3-way connector as shown in the figure.



4. Connect the 3-way connector to the raw water supply as shown in the figure. The threaded end of the 3-way connector is fitted in line with the raw water supply. The other end can be connected to a tap or can be plugged off if not required.



5. Now connect one end of the white pipe to the SS ball valve and other end to the lower push fit elbow fitting on the left hand side of the purifier labeled as WATER IN. (Note: White pipe is for raw water supply)



6. Similarly, connect one end of the blue pipe to the upper elbow fitting connector labeled as REJECT WATER and leave the other end in the drain. (Note : Blue Pipe is for reject water)



7. Before connecting the power supply, it is important that you perform the following functions:

- (i) Open the SS ball valve (Handle parallel to the ball valve)to start the flow of water into the purifier.
- (ii) Wait for 2-3 minutes to ensure that the filters are soaked in water.



## Starting Up the Purifier

- Switch on the power supply.
- Wait approximately for half an hour so that the storage tank fully fill up.
- Switch off the power supply.
- Drain the storage tank by opening the drain plug present at the bottom of the storage tank so as to remove any dust particles present in the pipes and storage tank.
- Close the drain plug & switch on the power supply.
- The purifier is ready to use.

## Recommended Uses of Reject Water

Although the rejected water has high concentration of salts, it is absolutely clean and free of impurities like chlorine, dirt, sand, etc. which are present in raw water. This rejected water usually goes down the drain but if required, can be used for gardening purposes. It has high concentration of salts and minerals which accelerate plant growth. Rejected water can also be used for cleaning purposes, i.e. utensils cleaning, mopping, etc.

## Maintenance

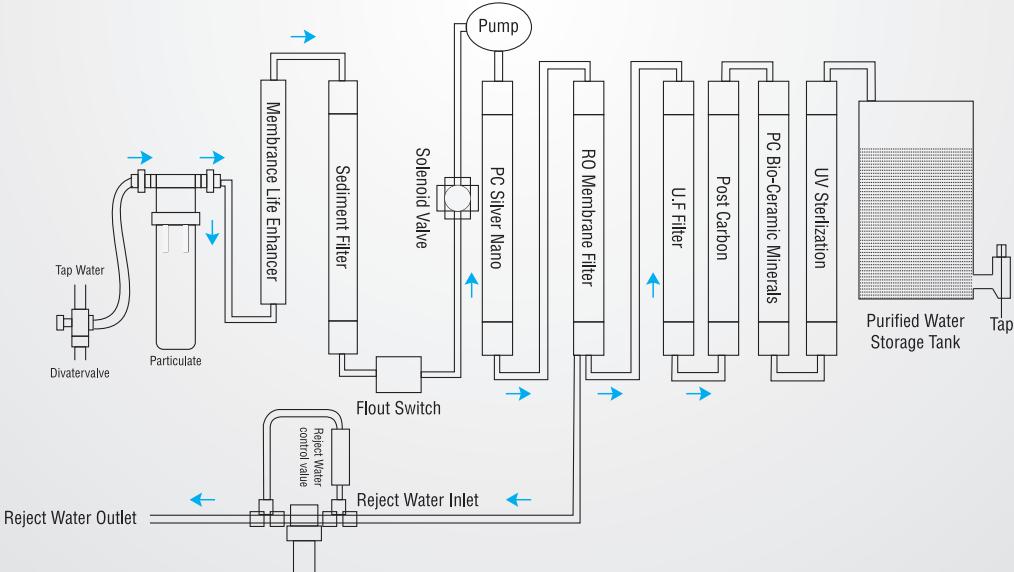
To ensure that the purifier operates at its optimum level, a routine maintenance must be performed. The frequency of the maintenance will greatly depend upon the raw water quality and consumption of purified water.

- Storage tank must be drained once in 2 weeks. To do so, switch off the power supply, open the drain plug at the bottom of the tank & allow the water to drain. Then screw back the plug and switch on the power supply.
- Replace sediment, activated carbon & micronic filter when the filter change alarm is audible OR after every 12 months. It is recommended to change the FRT when the filters are replaced.
- Replace the RO membrane once an year at max.
- Replace the UV Lamp once in 2 years.
- If you are not going to use the purifier for a long time (in case you are on a holiday, tour or out of home), make sure that you disconnect the power supply, turn off the raw water supply and drain the storage tank.

Note: Filters and membrane are consumables. Their replacement time is dependent on the quality of raw water and water consumption. They are not covered under the warranty. However, if a filter chokes within six months and a membrane within a year, it will be cleaned/repaired/replaced free of cost. Changing the filters and system inspection is available on call. the purification capacity of RO membrane will reduce with time due to clogging of pores of membranes

## 8 Filtration Stages

1. Pre-Filter : Spun polypropylene cartridge - Double O-Ring Housing 100% leak proof. High quality melt blown cartridge; removes dust, dirt particles in the water.
2. Sediment Filters : 5 Micron 2.5 ". Removes all suspended solids like turbidity, sediments and dust.
3. Inline Pre-carbon : Silver activated carbon : Highly Adsorptive form of carbon. Removes color, bad odor, bad taste and some organic particles due to its high degree of porosity. Improves taste for drinking.
4. RO : Reverse Osmosis Membrane , turns water into distilled water, with 0 particulate matter.
5. U/V : High powered 11 Watt UV Lamp, ensures removal of 99.9 % of all pathogens, viruses and molds.
6. Inline post carbon : Silver Activated Carbon : Highly Adsorptive form of Carbon. Removes color, bad odor, bad taste and some organic particles due to its high degree of porosity.
7. Bio-Green Technology Mineral Cartridge : Contains inorganic minerals (Ca, K, Na, Mg) for maintaining healthy body. Increase water of natural healing ability & immunity.  
Natural Tourmaline Minerals Ceramic Ball, Silver Activated Carbon, FIR Mineral Ceramic Ball, Anti-Bacterial ceramic Ball.
8. Anti-scalant filter : Prevents scale and stops corrosion.
9. Optional depending upon the source of water.



Flow Diagram for 8 Stages Wall Mounting RO (Reverse Osmosis) System



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