Installation Manual

KomiBright®

Preface

We congratulate you on your decision and greet you as a member of the KomiBright community who are uncompromising demands on drinking water. Please read the installation instructions carefully so that you can perform all the necessary work steps optimally.

Categories

1 Unpacking

Take out all the packaging materials. Make sure there is no external damage to the reverse osmosis system.

2 Product Contents

① ② ③ ④ ⑤ ⑥ ⑦

⑪ ⑫ ⑧ ⑨ ⑩

⑬

1. Housing
2. Pressurized Tank
3. Faucet
4. Faucet Nut
5. ⅜′ Union Connector
6. RO Membrane
7. Wrench
8. Combo Cartridge Filter
9. Water Feed Adapter
10. Drain Saddle
11. PE Tube x White x ⅜” x 1.5 m
12. PE Tube x Blue x ¼” x 3.0 m (please cut it in half, 1.5m ×1.5m)
13. PE Tube x Yellow x ¼” x 1.5 m + One Way Drain Valve

3 Required Tools

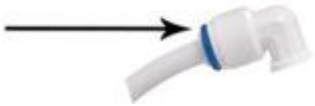
For installation, you need the following tools and materials：

- Metal wrench 13mm / 14mm / 17mm
- Scissors
- Power Drill
- Drill Bits 6mm / 12mm
- Teflon Tape

Caution

This system is equipped with quick fitting connecting. With the quick fitting connecting, you can easily and safely connect the PE tubes. Plug the tubes into the counterparts until you feel a click. The click occurs only when the tube is correctly fastened in the anchoring device.

If you want to remove the tube again, you must, at first, remove the retaining clip.



And then, at the junction, you will see a small white plastic ring. Press the plastic ring evenly then pull out the tube.

If the municipal water pressure is higher than 6 bars, one pressure- reduce device must be installed before the inlet port of housing.

4 RO Membrane Usage

1

Open the lid of housing.

Take out the combo cartridge filter from the housing.
The combo cartridge filter has been loaded into the housing for transportation and compact packaging reasons.

Open the lid

2

There are two small black rubber seals
on one side of the membrane。

Two small
black rubber seals

3

There is a circular slot on the base of the housing
for the membrane.

Slot

4

Insert the side which has the two small black rubber seals into the circular slot.

Illustration (without housing)
for better understanding

5 Combo Cartridge Filter Usage

1

Remove the film on the surface of the filter before use.
And then put the combo cartridge filter back into the housing.

2

Make sure that the O-ring on the edge of the lip is properly seated and then evenly close the lid by hand.
And then use the wrench to tighten the lid gently.

Caution

There are 6 semi-circular bumps on the top of the lid of the housing. And there are 6 rectangular bumps on the wrench as well.
Match each other properly before opening or closing the lid.

6 semi-circular bumps

6 rectangular bumps

6 Pressurized Tank

Choose the right location for the tank. The tank must be placed upright. Keep it away from direct heat sources (eg boilers).

Please follow the steps as below:

- Swiveling the ball valve onto the tank threaded fitting.
- Please tighten the ball valve properly to avoid water leakage

7 Faucet Installation

Choose the appropriate installation location before starting.

The faucet should be located where it is easy to use.

To install the faucet on the kitchen counter, you need to drill a 12mm hole in the kitchen counter.
Remove any residue / sawdust.

Follow these steps:

1

Drill a 12mm hole in the kitchen counter.
Insert the threaded rod of the faucet through
the metal plate first

2

Insert the threaded rod through the hole on the counter.

3

Screw the nut tightly on the threaded rod of faucet.

4

Connect the ⅜” union connector to the threaded rod of faucet tightly.

8 Feed Water Connecting

Integrated Adapter

It includes municipal water supply and adapter connections.

Integrated Adaptor

Stop supplying the municipal water by closing the angle valve. And unscrew the cold water pipe and then connecting the integrated adapter to the angle valve.

Angle Valve

Connect back the cold water pipe onto the other side of the integrated valve.

Cold water pipe

Now unscrew the nut from the plug valve of the adapter and then insert the ¼” blue tube into the protruding ring.
Then screw the nut back to the plug valve.

Plug valve

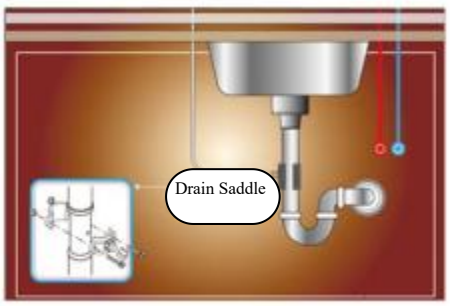
Nut

Angle Valve

9 Drain Saddle Connecting

Choose the best installation location before installation and, usually, the best installation location is in the upper area of the sink drain pipe. Do not install in the corner area of the pipe! Drill a small hole on the sink drain pipe for the ¼” drain tube and then screw properly the drain saddle onto the pipe. Insert the ¼” drain tube through the drain saddle port to the inner wall of the sink drain pipe.

Please follow the steps below:



- Drill a 6mm hole on the sink drain pipe.
- Sticking seal foam rubber around the hole.
- Fix together the two clamp rings (tighten with two screws).
- Insert the ¼” yellow tube into the port of the clamp.

10 Ports Connecting

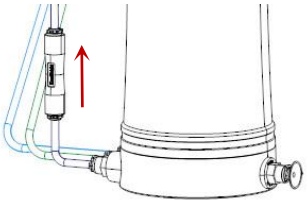
On the black base of the housing, you will see three ports. Connecting steps are as follows:

1

Inlet Port (left side）

This is the inlet port of housing.
Connect it to the integrated adapter with ¼” blue tube

Inlet Port



2

Drain Port (right side)

This is the drainage port of housing.
Plug the ¼” yellow tube into this port.

*Please notice that the one-way-drain valve
must be connected the same as the drawing.
(The arrow symbol must point outward)

Drain Port

one-way-drain valve

3

Pure Port (middle）

It is for connecting to the pressurized tank.
Please connect it to the tank’s ball valve with
another ¼” blue tube.

Pure Port

4

Pure Port (front)
Please connect it to the tank’s ball valve with ⅜” white tube.
This port is for connecting to post-carbon (w/stem adapter)
or to faucet directly (change the stem adapter to male connector)

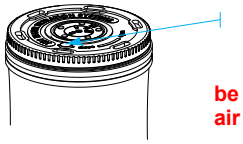
Pure Port

Stem Adapter

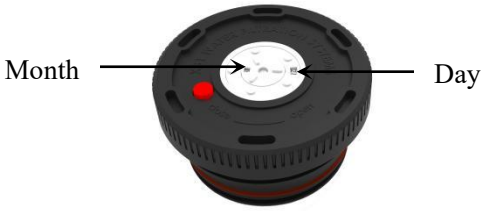
Male Connector

11 First Commissioning

Check all tubing lines again before supplying water.
The tubing must be laid without kinking, twisting or bending.
Then turn on the water supply and check all connections for leaks.
Press the red air release valve on the cover to release excess air from the housing until water flows out.
Full filled and then empty the tank for 3~4 times firstly before drinking the product water.
After that, you can enjoy the fresh permeate water.



Manual Timer

Set the next filter change time (day/month). The cartridge filter should be replaced max. every 12 months.	

12 Spare Parts

To this system, you need to replace the combo cartridge filter and RO membrane periodically.

Code	Item	Replacement cycle
LXL-A0002	Combo Cartridge Filter	Max. every 12 months
LXL-A0001	RO Membrane 100GPD	Max. every 24 months

13 Post Carbon

You also can choose post carbon for improving the taste of the product water.
Please do connections as follows:

1. Install the bracket for post carbon onto the housing.
2. Remove the external film from the post carbon.
3. Connect the quick fittings to the ports at both ends of the post carbon.
4. Make sure the flow direction of the post carbon is correct.
   The arrow must point to the direction of the water flow

14 Technical Data

- Daily product water volume: 100 gallons (at 4 kgs of inlet pressure, at 25 ℃)
- Tank holding volume: 6 liters (at 4 kgs of inlet pressure, at 25 ℃)
- RO membrane size: 1.8” x 12”
- Min. required inlet pressure: 1.5 bars

15 Troubleshooting

This reverse osmosis system undergoes multiple quality and functional checks prior to shipment. If you still find a problem, check the possible causes and their remedies. However, if you do not find a solution, please contact your local distributor.

Detection/Error	Phenomena	Causes	Solutions
No product water	Tank empty	Water supply pipe valve closed	Open water supply valve
		Tubes connecting incorrect	Tube lines inspection
		Water supply stagnation	Cleaning water pipe
		Tubes bent	Tube lines inspection
		Shut-off valve stuck	Cleaning/replacing shut-off valve
		Ball valve of tank closed	Open the ball valve
		The cartridge filter put inside housing improperly	Take it out and put it back again properly
		The membrane is in wrong direction	Take is out and put it back in correct flow direction
Not much product water	Water producing/filling into tank slowly	Inlet water pressure is too small	Use pump set
		Tubes connecting improperly	Tubing inspection
	Dripping from the faucet	Tank ball valve closed / Shut-off valve stuck	Open tank valve / Clean/Replace shut-off valve
	The tank becomes heavier. Water does not flow out of the tank	The air pressure in the tank is too low. The inside tank rubber sheet is defective.	Inflate the tank up to 7psi Replace tank
		Tubes bent	Tube lines inspection
	No faults have occurred so far	Membrane/cartridge filter exhausted	Replace membrane/cartridge filter
System doesn’t stop / Waste water : product water > 4:1	Waste water keeps running	Inlet pressure is too low	Use pump set
		Shut-off valve contaminated / stuck	Clean/Replace shut-off valve
Sewage noise	Noise from waste water pipe	location not suitable for drain saddle installation	Change location or push the black tube close to the inner wall of sink drain pipe
Product water not clean	Black granules, soapy	Membrane/cartridge exhausted	Replace membrane/cartridge filter
		Insufficient flushing for initial use of membrane / cartridge	Thoroughly flush the system

Detection/Error	Phenomena	Causes	Solutions

		The tank is located near heat source area	Install the tank in other location
		Tubes connected to wrong ports	Tube lines inspection
Ports / Tubes are leaking	Ports and tubes connecting improperly	Tubes bent or not fully connected Tubes didn't plug into ports properly	Tube lines inspection Pull out the tubes and plug into the ports strongly until you felt a click kind of hand feeling
		The system is exposed to strong ultraviolet radiation or low temperatures	Installation of sun protection and anti-frost devices / equipment
		Tubes broken	Change tubes

16 Required Raw Water Quality and Conditions

1. Must be municipal water
2. Water temp. : 5°C ~35°C
3. Inlet pressure < 5 bars
4. Turbidity (NTU) < 3
5. TDS < 800 ppm

17 Warranty

1. 12 months, starting from the goods received by importers.
2. All warranty commitments must be valid in accordance with the operation and maintenance instructions.