

High  
Capacity

**KENT**

Home Softener

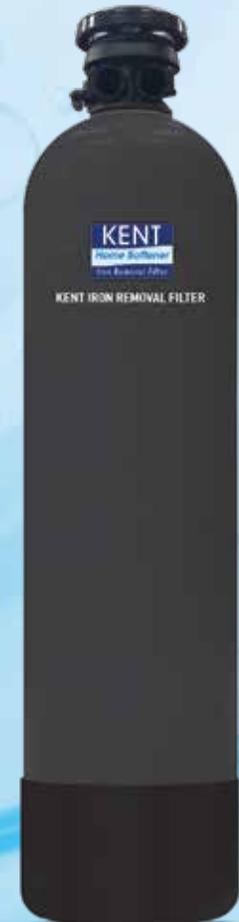
Iron Removal Filter

HOUSE of PURITY

## KENT IRON REMOVAL FILTER

For Whole House, to be installed overhead  
for reducing iron from water

Instruction Handbook



**KENT**  
Home Softener  
Iron Removal Filter  
HOUSE of PURITY



Marketed by:

**KENT RO SYSTEMS LTD.**

E-6, 7 & 8, Sector-59, Noida, U.P.-201 309, India.

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Manufactured by:

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# Welcome to KENT

## Contents

Dear Customer

Welcome to the world of KENT, leaders of water purification industry in India. With a KENT's product you have all reasons to smile, since at KENT, we take pride in the quality and laboratory-tested performance of our products.

We are confident that your decision to own KENT Iron Removal Filter. will go a long way in serving you with sediment free water. We assure you that you will be satisfied with its performance and quality which comes without any compromise.

This manual will familiarize you with the operation of KENT Iron Removal Filter. Before operating the unit, please read it thoroughly and retain it for future reference.

Should you need further assistance, do not hesitate to contact your nearest KENT dealer or branch.

Best Wishes

KENT RO SYSTEMS LTD.

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## Introduction

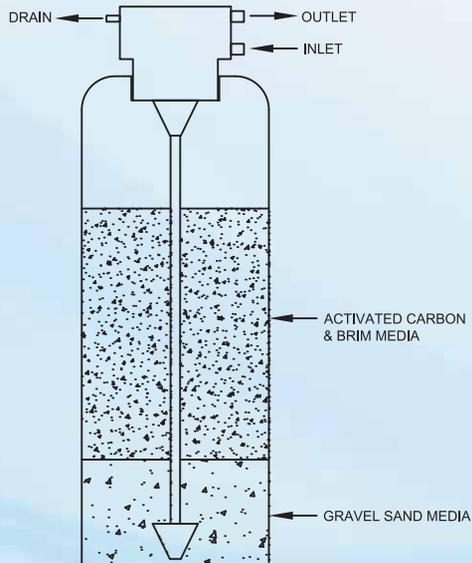
Presenting the all-new KENT Iron Removal Filter, to liberate you from the problems of water full of iron particles and provide your family with clean water. The Iron Removal Filter removes Iron from water. KENT Iron Removal Filter uses no electricity to filter Iron and provides you clean Iron free water. KENT Iron Removal Filter would provide you and your family with advantages outlined below.

- High Capacity
- Elegant Design
- High-quality Media for Longer Life
- Non-electric Process
- Low Maintenance Cost
- Easy to Install and Use

## Items in the box

- |                                 |       |                            |       |
|---------------------------------|-------|----------------------------|-------|
| 1. KENT Iron Removal Filter     | : 1 N | 6. Secure Big Clip         | : 2 N |
| 2. 1 Inch Quick Connect Adaptor | : 2 N | 7. Drain Flow Control Bush | : 8 N |
| 3. Inlet & Outlet Base          | : 1 N | 8. Jelly Pouch             | : 1 N |
| 4. Drain Hose Fitting           | : 1 N | 9. Bolt M4x12              | : 2 N |
| 5. Adaptor Clip                 | : 2 N | 10. Warranty Card          | : 1 N |

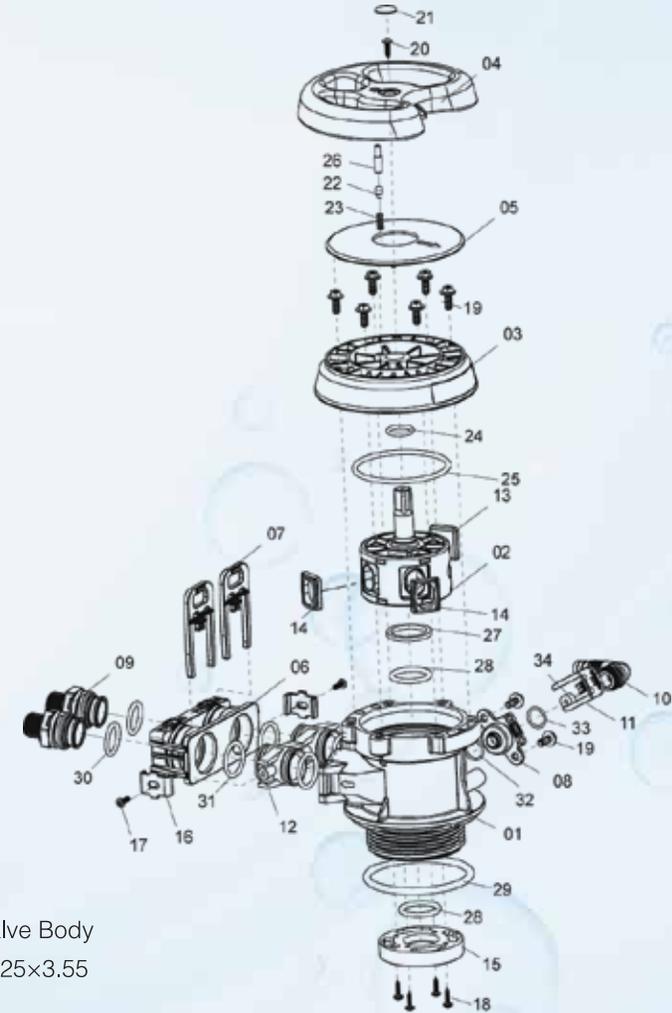
## Stage of filtration



## Exploded View of KENT Iron Removal Filter

### No. Description

- 01 Valve Body
- 02 Main Rotate Axis
- 03 Upper Seal Plate
- 04 Handle Bar
- 05 Indicate Plate
- 06 Inlet & Outlet Base
- 07 Secure Big Clip
- 08 Drain Base
- 09 Fittings BSP 3/4"
- 10 Drain Hose Fitting
- 11 Secure Small Clip
- 12 Adaptor Coupling
- 13 Drain Line Seal
- 14 Outlet Seal
- 15 Bracket
- 16 Adaptor Clip
- 17 Bolt M4x12
- 18 Screw 2.9x13
- 19 Bolt M5x12
- 20 Screw ST3.5x12
- 21 Brand Label
- 22 Stop Pin
- 23 Spring  $\Phi 4 \times \Phi 0.5 \times 16$
- 24 O Ring Seal 16x2.65
- 25 O Ring Seal 65x3.55
- 26 Service Pin
- 27 O Ring Holder for Valve Body
- 28 O Ring Seal (EPDM) 25x3.55
- 29 O Ring Seal 73x5.3
- 30 O Ring Seal 22.4x3.55
- 31 O Ring Seal 15(23x3)
- 32 O Ring Seal (11x2)
- 33 O Ring Seal (12x2)
- 34 DLFC 2#



## Installation Location

- To condition the complete water supply at home, install the KENT Iron Removal Filter close to main water supply outlet
- A nearby drain is required to carry away regeneration discharge (drain) water. Use a floor drain, laundry tub, sump, standpipe or any other option
- The location chosen for the installation must have enough space for the system, its accessories, and connections and to carry out a proper maintenance
- The system should not be installed next to a heat source or where it receives a direct flow of hot air
- Avoid external dips from pipes, drains etc. onto the system

## Installation Procedure

**KENT** Iron Removal Filter installation must be done according to the following schemes and in accordance with the local laws. Follow assembly and installation indications given in the manual. Contact KENT technical service for any support.

- Close main water supply
- Move the KENT Iron Removal Filter to the installation position
- Connect the output of storage tank to input of KENT Iron Removal Filter
- Now connect output of KENT Iron Removal Filter to input of household water supply
- Connect one end of the 1/2" flexible pipe with the drain connector & leave the other end in drain
- The installation of KENT Iron Removal Filter is complete

**Note:** Before using the water from Iron Removal Filter, please do not forget to allow water to flow for 5 to 10 seconds before using water from outlet. This is to flush the iron filter and ensure clean water every time

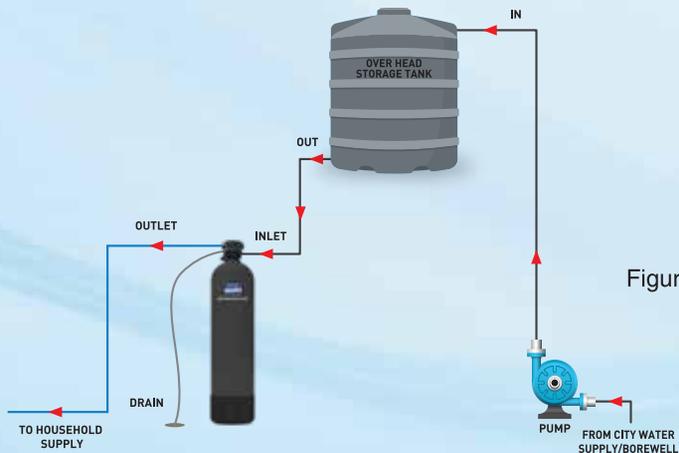


Figure 1

## Operation

For day-to-day usage, keep the valve handle in filtering position as shown in figure 1.

### Regeneration:

#### Regeneration Process

Based on the Iron concentration of water, periodic regeneration is required for optimal usage.

#### To Backwash / Rinse

Backwash is essential to ensure that the filter is working properly. To start backwash, turn the handle bar along the arrow direction shown below, similarly we can switch the filter into back wash status, rapid rinse status & then back to filtering status.

### Operation Illustration:

Back Wash is essential to ensure the filter machine is working properly. After filter machine service for a period, it's better to switch the control valve to wash status. Turn the Handle Bar along the arrow direction shown below, similarly we can switch the filter machine to Back Wash status, Rapid Rinse status and then back to Filtering status, as shown in Figure 2, 3, and 1 respectively.

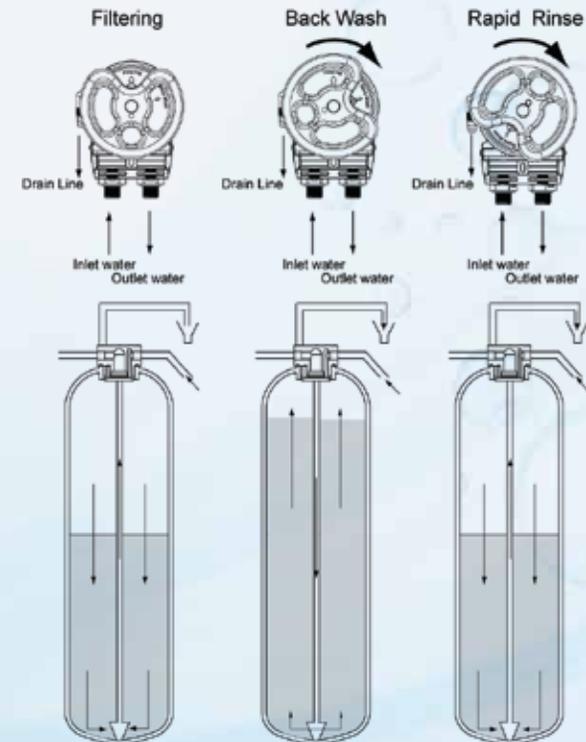


Figure 1

Figure 2

Figure 3

**Note:**

We recommend that each time you run 5-15 minutes backwash, 3-5 minutes rinse function to regenerate the filter media. One time backwash & rinse wash means one regeneration cycle. Under normal condition, it is also recommended to perform regeneration cycle two or more times every week.

### Troubleshooting

Problem	Possible Causes	Possible Solution
<ul style="list-style-type: none"> <li>Concentration of Iron particles in water are high</li> </ul>	<ul style="list-style-type: none"> <li>Regeneration not done.</li> </ul>	<ul style="list-style-type: none"> <li>Carry out the Regeneration</li> </ul>
	<ul style="list-style-type: none"> <li>Regeneration not done properly for the prescribed time</li> </ul>	<ul style="list-style-type: none"> <li>Carry out the Regeneration for the stipulated time as mentioned in manual</li> </ul>

### Technical Specifications

Product	: KENT Iron Removal Filter
Product Code	: 111073
Product Colour	: Black
Product Generic Name	: Iron Removal
Application	: Suitable for removal of iron from raw water
Mounting	: Floor Standing
Product Dimensions (mm)	: 232 (L) X 232 (W) X 1005 (H)
Maximum Flow Rate	: 3000 L/hr.
Net Weight	: 23.5 kg
Inlet water Pressure/Temp. (Min.)	: 1.0 kg/cm <sup>2</sup> /1°C
Inlet water Pressure/Temp. (Max.)	: 10.7 kg/cm <sup>2</sup> /50°C
Gravel Media Weight	: 5 kg
Activated Carbon Weight	: 5 kg
Brim Media Volume	: 12 L