Rainwater Harvesting

Depend on Davey

APPLICATIONS
RainBank® is ideal for metropolitan rainwater harvesting on homes, toilet blocks and garden irrigation.

WHY CHOOSE THE RainBank® CONTROLLER?

- RainBank® is a mains/tank water interconnection device sourcing rainwater as a priority with mains as a back up
- New Floatless version now available
- Unique patented, yet uncomplicated technology, providing a dependable solution to rainwater harvesting.
- Environmentally friendly:
  - Saving water
  - Reduced inflow to stormwater systems
  - No re-pumping of mains water
  - Low power consumption in standby
- No solenoid valves used
- Provides seamless mains back-up in the event of no rainwater or electrical interruptions, for consumer convenience and comfort.
- Feedback lights to indicate water source and faults.
- Built-in backflow protection valve (dual check valve) in compliance with the requirements of AS/NZS 3500-1-2003 for added safety and assured protection of your mains water supply.
- Can be mounted on pump or on nearby wall for easier installation and to suit a variety of applications. Best mounted near the laundry and away from bedrooms.
- Simple to install with no adjustment necessary, saving time and money at installation.
- Yellow LED – fault condition

Model Numbers:
KRB1, KRB2, KRB1NF, KRB2NF, KRB3, KRB4, KRBX1, KRBS1, KRBS2, KRBSA1

Dual source controller, specifically designed to source rainwater for water applications such as toilets and/or laundry, with automatic mains water back-up. Also suitable for exterior taps.

Option of Floatless, surface mounted and submersible “in tank” pump options for installation convenience.
## KIT SELECTION – HOME PRESSURE SYSTEMS

<table>
<thead>
<tr>
<th>Pressure Level</th>
<th>Models</th>
<th>Float Type</th>
<th>Flow Rate @200kPa</th>
<th>Higher Pressure</th>
<th>Higher Flows</th>
</tr>
</thead>
<tbody>
<tr>
<td>700kPa –</td>
<td>KRB3</td>
<td>Floatless</td>
<td>40 lpm</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td></td>
<td>KRB2</td>
<td>Floatless</td>
<td>46 lpm</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>KRB1</td>
<td>Floatless</td>
<td>40 lpm</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td></td>
<td>KRB2NF</td>
<td>Floatless</td>
<td>46 lpm</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>KRB1NF</td>
<td>Floatless</td>
<td>40 lpm</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td></td>
<td>KRB1F</td>
<td>Floatless</td>
<td>40 lpm</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td></td>
<td>KRB2F</td>
<td>Floatless</td>
<td>46 lpm</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

### FLOW

<table>
<thead>
<tr>
<th>Pressure Level</th>
<th>Models</th>
<th>Float Type</th>
<th>Flow Rate @200kPa</th>
<th>Higher Pressure</th>
<th>Higher Flows</th>
</tr>
</thead>
<tbody>
<tr>
<td>700kPa –</td>
<td>KRB3</td>
<td>Floatless</td>
<td>40 lpm</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td></td>
<td>KRB2</td>
<td>Floatless</td>
<td>46 lpm</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>KRB1</td>
<td>Floatless</td>
<td>40 lpm</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td></td>
<td>KRB2NF</td>
<td>Floatless</td>
<td>46 lpm</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>KRB1NF</td>
<td>Floatless</td>
<td>40 lpm</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td></td>
<td>KRB1F</td>
<td>Floatless</td>
<td>40 lpm</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td></td>
<td>KRB2F</td>
<td>Floatless</td>
<td>46 lpm</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

### Pressure Levels Explained

- **700kPa –** Premium models for the luxury of high pressure with multi-level dwellings and long runs of piping.
- **500kPa –** Higher pressure for long runs of pipe and double storey buildings.
- **300kPa –** Adequate pressure for most single storey buildings.

### Flow Rates

- Up to 15 toilets or large irrigation systems

### Notes

- Floatless RainBank® models only available for surface mounted applications.
- RainBank® Floatless, RainBank® Surface Mounted, RainBank® Submersible, Multi Outlets (Two story houses), Min Outlets (Low set houses)

### Additional Notes

- HM models are suited to flooded suction applications

### Compliance

Tested in compliance for use in contact with safe drinking water.
**Floatless models feature:**
- Benefit of a mains switching device without having to worry about a float
- Float can be easily be added if the application requires it
- Suited to flooded suction applications

**Surface mounted models feature:**
- Higher pressure options and flow rates
- Option of top entry or side entry float
- Easy system access for maintenance and servicing
- In the event of a leak, this can be easily identified

**Submersible ‘in tank’ models feature:**
- Quieter running that can be a concern with smaller domestic lot sizes
- Pump can not be tampered with by children or pets

---

**Install it like this:**

---

**OR**

---

**OR**

---

**OR**

---
**RainBank® Rainwater Harvesting System**

### ELECTRICAL DATA

- **Supply voltage**: 220-250V
- **Supply frequency**: 50Hz
- **Max. full load current**: 10A
- **Level switch voltage**: 12 volts DC
- **Enclosure class**: IP23
- **Power supply lead – incoming**: 2m
- **Level switch lead length**: 5m (side entry), 9m (top entry)

### OPERATING LIMITS

- **Maximum flow rate (mains)**: 100 lpm
- **Maximum mains water pressure**: 900 kPa
- **Maximum pump pressure**: 600 kPa
- **Maximum pump amps**: 10 amps
- **Maximum water temperature continuous**: 50°C
- **Maximum ambient temperature**: 50°C
- **Mains water inlet size**: 3/4” BSP(M)
- **Rainwater inlet size**: 1” BSP(M)
- **Outlet size**: 3/4” BSP(M)

**NOTE:** RainBank®/S model specifically designed for submersible pumps fitted with auto float switch.

### MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>Part</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual check valve</td>
<td>D.R. brass</td>
</tr>
<tr>
<td>Body</td>
<td>Acetal</td>
</tr>
<tr>
<td>Valve</td>
<td>Acetal</td>
</tr>
<tr>
<td>Springs</td>
<td>304 stainless steel</td>
</tr>
<tr>
<td>Source control valve</td>
<td>Nylon</td>
</tr>
<tr>
<td>Body</td>
<td>Nylon</td>
</tr>
<tr>
<td>Valve</td>
<td>Acetal</td>
</tr>
<tr>
<td>Plunger</td>
<td>Grivory</td>
</tr>
<tr>
<td>Diaphragm</td>
<td>Santoprene</td>
</tr>
<tr>
<td>Springs</td>
<td>316 stainless steel</td>
</tr>
<tr>
<td>Seal</td>
<td>Nitrile</td>
</tr>
<tr>
<td>Sensor plate</td>
<td>316 stainless steel</td>
</tr>
<tr>
<td>Enclosure</td>
<td>A.B.S.</td>
</tr>
</tbody>
</table>

### APPROVALS

- Complies with electrical standards: AS/NZS60335.2.41: 2004 Clause 24
- Certificate of electrical suitability: A/10E
- Complies with plumbing standards: AS/NZS3500-1-2003 including provision of backflow protection when installed in compliance with product Installation & Operating Instructions.
- Watermark License WMKA22042.
- Must be installed by a licensed plumber.

### HYDRAULIC PERFORMANCE & DIMENSIONS (mm)

**RainBank® Kit Performance Curves**

**RainBank® Pressure Loss Curves**

**NOTE:** Refer to relevant pump datasheets for technical pump data

**NOTE:** Optional bracket available on request, P/N 32556

---

davey.com.au | daveynz.co.nz

This literature is not a complete guide to product usage. All images provided in this document are for illustration purposes only. Further information is available from your Davey Dealer, Davey Support Centre and from the relevant product Installation and Operating Instructions. Must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice. © Davey is a registered trademark of Davey Water Products Pty Ltd. © Davey Water Products Pty Ltd 2016.