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1. SYMBOLS

The Warning and Safety Information provided are guidelines only; use all necessary security and accident prevention methods to guarantee your security.

The improper use of the equipment may cause injury to people, damage to property or the environment. Improper use or modification of the equipment voids its warranty.

System of symbols used in this manual:

Failure to obey the instructions and warnings could cause injury to people, damage to the equipment or to the surrounding areas.

Failure to obey the instructions and warnings could cause serious injury and an electrical hazard.
2. IMPORTANT INFORMATION

Rain Bird filtration equipment has been designed to filter water, in accordance with the operating conditions outlined in this manual and the label on the equipment.

- Rain Bird filtration systems are **NOT** designed for the filtration of hazardous liquids (such as those specified in section 2 of article 2 of the Executive Committee 67/548/CEE, 27th June 1967) or liquids for food use.

- This equipment has been designed and manufactured to satisfy the requirements communicated to the manufacturer by the customer. Any change in its use could cause damage not covered by the warranty.

- Save this manual so the user of the equipment can familiarize themselves with it.

- These are general instructions for safe operation of the equipment. These instructions are not a complete list; the user must adopt as many security measures as necessary to guarantee their safety.

- Follow the instructions described in this manual.

- Do not open the filter clamp when the equipment is pressurized, it could cause serious injury to people, the equipment or to the surrounding area.

- Do use adequate personal protective equipment (proper working clothing, safety glasses, steel toed boots and other elements of personal protection).

- Determine the chemical compatibility between the equipment’s materials and the characteristics of the water to be filtered.

- Before using the equipment, make sure that all the covers are properly closed and the connections are in good condition.

- Make sure that the equipment is depressurized by reading the gauges (0 PSI) on the filters inlet and outlet manifold before exposing the interior of the equipment to atmosphere (before opening any filter, removing any coupling, etc.)

- Do not forget to close the safety lock on the clamp. It will prevent its accidental opening.

- Do not exceed the maximum pressure or operation intervals (pressure, temperature, PH, and flow rate) indicated in the Technical Data.

- In freeze areas, empty the filtration system to prevent damage.
Thank you for selecting a Rain Bird HDF Series 2 Disc filtration system. Please read this manual carefully as it will help you find answers to most of your questions.

IF YOU HAVE ANY QUESTION OR NEED ADDITIONAL INFORMATION; PLEASE CONTACT US AT (520) 806-5620 or filters@RainBird.com

Rain Bird HDF Disc Filters systems are subject to strict quality control tests and are manufactured under a production process which complies with the requirements of ISO 9001/2000.

Rain Bird is committed to the environment, and Rain Bird HDF Disc Filters Series 2 filtration systems are certified under the Environmental Management System of the standard ISO 14001.

This manual includes instructions and warnings for correct installation, operation and maintenance of the equipment.
Rain Bird HDF Series 2 Disc Filters consists of a filter element comprised of grooved discs that allow the retention of particles of a size larger than the required filtration grade. The equipment combines the advantages of the disc filters with those of the helico-centrifugal filtering effects.

In precise sequence the filtration system carries two simultaneous and independent phases. These phases are called, FILTRATION and BACKFLUSHING.

### 4.1 Filtration Phase

- During the filtration process, water is carried from the inlet manifold through the backflush valves, to the interior of all of the filters, which form the filtration system.

- Thanks to the filters helico-centrifugal effect, the number of backflushings are dramatically reduced, minimizing water consumption.

- This is achieved by the patent-pending design located on the base of the cartridge.

- Its angled blades create a helical effect on the incoming water, spinning particulates in suspension away from the filtering surface, thereby minimizing backflushing frequency.

- Once the water enters the filter, the only path for it to follow are the channels of the discs.

- Rain Bird grooved discs combine on-surface filtration and in-depth filtration.

- The particles are trapped by the channels in the discs.

- The outlet manifold is responsible for collecting the filtered water and carrying it to the exterior.
4.2 Backflushing Phase

The start of the backflushing process takes place when the Control Unit activates the backflushing cycle under one of the following conditions: Pressure Differential, time (frequency) between backflushings, or manually on the keyboard.

The controller closes the contact, which supplies the Normally Closed solenoid which is responsible for the activation of the first station that will carry out the backflushing. The solenoid converts the electric signal to a hydraulic signal responsible for the feeding of the backflushing valve chamber.

Through the feeding of the three-way valve chambers, the inlet of water to the filter is closed, thereby allowing open flow between the interior of the filter and the drainage manifold, starting a backflush sequence.

The filtered water coming from the pressure manifold is introduced in the opposite direction in the filter due to the pressure differential generated on both sides of the filtering element.

All available hydraulic power is used to overcome the pressure exerted by the spring on the discs stack, generating its own decompression due to the piston displacement (raising).

The release of the discs makes it possible for them to spin freely due to its tangential projection of the water coming from the feeder bars, which at the same time are used as structural support for the stack of discs.

The distribution of the holes in the bars project water under pressure, which tangentially flows into the discs generating rotation and vibration, which completes elimination of the retained solids through the backflushing valve. Solids are discharged to the outside by the drainage manifold.

The end of the backflushing coincides with the closure of the drainage outlet and the opening of the inlet manifold on the last station that forms the filtration equipment. The filtration systems initial conditions are re-established and makes available all of the filters to carry out the filtration function.
5. PRODUCT IDENTIFICATION

5.1 Assembly Part Identification

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RAIN BIRD HDF SERIES DISC FILTER</td>
</tr>
<tr>
<td>2</td>
<td>INLET MANIFOLD – GROOVED CONNECTION</td>
</tr>
<tr>
<td>3</td>
<td>OUTLET MANIFOLD – GROOVED CONNECTION</td>
</tr>
<tr>
<td>4</td>
<td>DRAINAGE MANIFOLD</td>
</tr>
<tr>
<td>5</td>
<td>MANIFOLD SUPPORTS</td>
</tr>
<tr>
<td>6</td>
<td>3 WAY HYDRAULIC VALVE 2”</td>
</tr>
<tr>
<td>7</td>
<td>VICTALIC COUPLING 2”</td>
</tr>
<tr>
<td>8</td>
<td>PRESSURE GAUGE 0 – 10 bar / 145 psi</td>
</tr>
<tr>
<td>9</td>
<td>AUXILIARY FILTER ¾” KIT</td>
</tr>
<tr>
<td>10</td>
<td>CONTROL UNIT</td>
</tr>
</tbody>
</table>

5.2 Product Labeling

The equipment is identified by two labels, one is placed on one of the main manifolds, the other is placed on the filters.

Manufacturer

Model

Max. Temperature

Year of Manufacturing

The modification or elimination of this label voids the warranty; and impedes the identification of the equipment.

Max. Pressure

Serial number
5.3 Filter Part Identification

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BODY CAP</td>
</tr>
<tr>
<td>2</td>
<td>CLAMP</td>
</tr>
<tr>
<td>3</td>
<td>BODY</td>
</tr>
<tr>
<td>4</td>
<td>MICRON RATING LABEL</td>
</tr>
<tr>
<td>5</td>
<td>AUTOMATIC CARTRIDGE</td>
</tr>
<tr>
<td>6</td>
<td>SEALING GASKET BODY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CHECK VALVES WITH ACCESORIES</th>
<th>SET OF PISTON GASKETS</th>
<th>SPRINGS</th>
<th>MAINTENANCE KIT</th>
<th>FILTER ELEMENT O-RING FRAME</th>
<th>FRAME O-RING</th>
<th>PISTON GASKET</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>PISTON SPRING</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>PISTON O-RING 13 x 2</td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>ELASTIC RING</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>PISTON GASKET 92.6 x 100 x 4</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>CHECK VALVE</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>SPRING CHECK VALVE</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>O-RINGS FRAME</td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

To request spare parts please indicate the serial number of the assembly.
6. INSTALLATION INSTRUCTIONS

- Installation should be made by QUALIFIED PERSONNEL.
- The location for the installation of the equipment should be made on solid ground.
- You should take into account the weight of the equipment when you choose to use slings.
- Make sure that the length of the lifting system is correct so that the filtration system is in a horizontal position when raised.
- Secure the equipment to the lifting system to avoid accidents.
- Follow all operation and safety instructions for transporting equipment.

6.1 Installation Steps

1. Transport the filtration equipment on the pallet with a forklift (or similar) until its final placement.
2. Unpack the equipment carefully and check that there is no damage to the equipment.
3. Confirm all the specified parameters are met in accordance with those of the equipment.
4. Raising of the equipment:

   A “moving and lifting system” should be used, such as a overhead travelling crane or forklift that is adequate for the weight of the equipment. Place 4 belts, two in the inlet manifold and other two in the outlet manifold. The straps should be placed next to the u-bolts on the supports of the manifolds. Place the straps, so when the equipment is raised, it remains in a horizontal position.

6.2 Removal of the Equipment From the Pallet

When removing the equipment from the pallet, it is necessary to use that a lifting system that provides adequate elevation of the equipment. The equipment is secured to the pallet by lag screws (or similar).

The steps are as follows:

   A- Unthread the lag screws.
   B- Raise the equipment with a lifting system following instruction 4.
   C- Remove the pallet.
   D- Place the equipment in its final location.
   E- Check and level the equipment, as required.
6.3 Adjusting the Height of the Equipment

You can modify the height of the equipment with the adjustable supports. Prior to doing so it is important to be sure that the equipment is properly supported by a lifting system. Once this has been secured, unthread the screws of the supports and adjust the height with the help of the lifting system. The equipment must always be horizontal when positioning.

Verify that the equipment is supported by the lifting system before unthreading the M10 screws of the supports.

6.4 Securing the Equipment

Before securing the equipment to the ground, verify that the equipment is level. Secure the equipment to the ground using the appropriate type screws or bolts for the type of ground the equipment will be resting on. The screws should be placed in the 10 mm diameter manifold holes.

6.5 Connection of the main manifolds, inlet, outlet and drainage

The main manifolds connections (inlet and outlet manifolds) are grooved. Use the supplied accessories (as required) to connect the equipment to the rest of the system.

The drainage manifold has a PVC grooved coupling from factory that glues to a 3” PVC pipe. Connect the inlet, outlet and drainage manifolds with its corresponding connections.
7. CONTROL UNIT CONNECTION

The microtubes and unions are labelled according to the following nomenclature:

- **E1**: Station: Hydraulic command that controls the feeding of the valve chamber for the activation of the station or number 1 filter backflushing process, and its drainage from the moment in which the number 1 electrovalve activation stops.

- **T**: For the feeding of the entire command circuit. It must match with the maximum pressure point of the installation, which usually is the inlet manifold (it feeds from the INTAKE FILTER).

- **D**: Hydraulic command for the drainage of the hydraulic circuit of the electrovalves. IT SHOULD ALWAYS HAVE A VENT TO ATMOSPHERE.

**P1**: Pressure intake of the inlet manifold, connection of high pressure of the differential pressure gauge.

**P2**: Pressure intake of the outlet manifold, connection of low pressure of the differential pressure gauge.

\* P1 and P2 are the pressure in the inlet and outlet manifold. Their difference is the head loss of the equipment.
8. OPERATION INSTRUCTIONS

8.1 Before Starting-Up

- Before operating the equipment, use adequate personal protection (proper clothes, safety glasses, gloves and other elements of personal protection).
- Make sure that the flow rate, pressure, temperature and PH are permitted by the equipments specifications (indicated in the equipment technical data) before starting up. Do not operate outside of the recommended working conditions.
- Equipment Pressure: Make sure that the filter is depressurized before opening it.

- Make sure that all the filters are properly closed to avoid leaks. Do not forget to lock the safety clip on the clamp. This will prevent accidental opening
- Make sure that the auxiliary filter key is opened before starting-up the equipment
- We recommend the installation of an upstream and downstream valve to isolate the system during maintenance operations.

1. Place the correct number of discs on each filter.
2. Adjust it until the filter base is straight
3. Install the lid.
4. Close the clamp.
5. Check the adjustment of the cap of each filter.
6. The filter battery is ready to operate.

8.2 Start-Up

- Connect the pump system to the water inlet
- Make sure that the Operation Conditions (pressure, temperature, flow rate and PH) are in accordance with the specifications.
- Monitor the equipment head loss.
- Follow the instructions of the equipment’s Control Unit Manual.
## 9. MAINTENANCE

**Maintenance of the Equipment.** The maintenance intervals depend on the operating conditions, characteristics of water to be filtered, length of operation, number of backflushings, recuperation of the differential pressure after the backflushings. Rain Bird recommends maintenance be performed every three months for components which means the disassembly of the filtering element. *The actual frequency should be determined by the user* according to the particular characteristics of their installation.

- Be sure the equipment is depressurized before exposing the interior of the equipment to the atmosphere.
- All maintenance should be performed by a qualified professional.
- The maintenance frequency should be determined by the user according to the particular conditions of their installation.

Below are some general maintenance recommendations:
- Every time you start the equipment perform a visual inspection
- Do not allow particles to dry in the discs. Activate a backflush just before stopping the equipment, if it will not be used for an extended period of time.
- Watch the equipment head loss as well as its recovery after backflushes.

### DAILY ACTION

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Visual inspection of the equipment</td>
</tr>
<tr>
<td>2.</td>
<td>Check for leakage in the equipment</td>
</tr>
<tr>
<td>3.</td>
<td>Check the Operation Conditions (pressure, temperature, flow rate, PH)</td>
</tr>
<tr>
<td>4.</td>
<td>Evaluation of the equipment head loss (P1* - P2*)</td>
</tr>
</tbody>
</table>

### PERIODIC ACTION

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Check the base o-ring</td>
</tr>
<tr>
<td>2.</td>
<td>Check the filters cleaning state. If they are very dirty, clean the discs manually.</td>
</tr>
<tr>
<td>3.</td>
<td>Manually activate a backflush to check operation of the backflushing phases to confirm all the stations are operating correctly.</td>
</tr>
<tr>
<td>4.</td>
<td>Check gaskets.</td>
</tr>
<tr>
<td>5.</td>
<td>Check the elements of the piston.</td>
</tr>
<tr>
<td>6.</td>
<td>Check ¾” intake filter</td>
</tr>
<tr>
<td>7.</td>
<td>Check ¼” intake filter.</td>
</tr>
<tr>
<td>8.</td>
<td>Maintenance of grooved couplings.</td>
</tr>
</tbody>
</table>
9.1 Inspection of the Filters

Pressure equipment:

• Be sure the filter is depressurized before opening it.

• If necessary, clean the discs (only) in an acid solution.

• If an acid solution is used to clean the discs, use adequate protection (clothes, glasses, gloves, face shield, etc.) Consult the Safety Sheet for the product used.

• Do not contact any part of the filter with the acid solution except for the discs.

9.2 Manually Cleaning the Discs

1. Open the clamp and remove the lid
2. Remove the filtering element carefully.
3. Turn the piston until it is released; remove the piston.
4. Remove the discs
5. To assemble the filter element proceed in reverse.
6. Replace all the discs
7. Thread the piston using soft pressure while it is turned to final adjustment.
8. Lubricate the base o-ring of the filter element, with neutral petroleum jelly, if possible.
9. Replace the filtering element pushing downward carefully.
10. Close the filter.

Discs Removal

Discs Installation

Clean the discs using clean water. or an acid solution if you cannot remove the dirt from the discs. In which case you should follow the protection measures according to the Safety Sheet regarding the acid to use.

• Do not mix discs from different filters.

• Installing the filter elements improperly can cause damage.

• Check the chemical compatibility between the lubricant used in the base of the filtering element and the materials of the filter.
9.3 Checking the o-rings in the Filter Element:

1. Thread the piston of the filter element using a light pressure and turn to adjust.
2. Lubricate the area of the O-rings
3. Inert the filter element pushing carefully in the base of the filter.
4. Replace the lid and close the clamp

9.4 Checking the Removable Elements of the Filter:

1. Unscrew the screws of the filtering element base with a number 17 box wrench. Always begin by unscrewing two opposite screws. Hold the spring retainer while unscrewing.
2. Remove the spring holder, the spring and the disc cap. Clean carefully with water.
3. Correctly fit all the pieces on the bars.
4. Manually replace the opposite screws, then use the wrench; thread the rest of screws manually and then use the wrench.
5. Lubricate the base of the filter element O-ring, with a product chemically compatible with the material of the filter. Insert the filtering element pushing carefully.

9.5 Inspecting the Piston Elements:

1. Remove the elastic ring from the washers with a pair of straight nosed pliers by inserting the tips in the ring holes and opening. Separate L piece from H piece.
2. Check the two o-rings housed in the piece L. Also, check the washers and the spring of piece H.
3. Apply lubricant in the threaded rod of piece H.
4. Install one washer in the spring and the other in the rod of piece H.
5. The two o-rings in the interior housings of the L pieces.
6. Install piece L on the axis of piece H. Fit the elastic ring on the axis of piece L using the pliers until it seats in the groove of the rod.

Place the piston in the filter element, lubricate the base of the filter element with a product chemically compatible with the material of the filter and insert the filter element; pushing it carefully into the base of the filter.
9.6 Checking Components

Be sure that the equipment is depressurized before carrying out any maintenance operation, in which the interior of the equipment is exposed to atmosphere.

A. Maintenance of Grooved Couplings

I. Disassemble the grooved coupling with a wrench.
II. Apply grease to the coupling joint.
III. Assemble the coupling.

B. Checking the ¾” Intake Filter

I. Close the key of the filter
II. Unthread the lid and remove the screen
III. Clean the screen with water
IV. Replace the screen and reassemble the filter

C. Checking the ¼” Intake Filters

I. Disconnect P1 and P2 micro tubes
II. Remove the ¼” intake filters on the inlet and outlet manifolds with a wrench
III. Clean them
IV. Replace the ¼” filter on the manifolds with a wrench, applying sealer to the threads
V. Connect the command micro tubes P1 & P2 to the 8 x ⅛” male elbows

Applying too much sealer or forcing the threads may damage them.
10. POSSIBLE PROBLEMS AND SOLUTIONS

### NOT BACKFLUSHING

**ANY STATION BACKFLUSHES**
- Complete or partial restriction in the command
  - Verify that the feed valve on the intake filter is open
  - Clean the filter element of the auxiliary filter

**ONE OR SOME STATIONS DO NOT BACKFLUSH**
- Non-operative controller
  - Check the main supply of the control unit and the feeding fuse*
  - Check outputs fuses*
  - Check solenoids
  - Check hydraulic valves

If the problem persists or you have any questions, contact your distributor.

### WATER IN THE DRAINAGE MANIFOLD

**CHECK THE CONTROLLER**
- Controller in backflush process
  - Water remains in the drainage manifold
    - Wait until backflushing cycle is finished

**Controller in filtration process**
- Inspect each of the command microtubes which feed the hydraulic valve chambers
- Flow of fluid through any of the microtubes which feed the valve chambers
  - Check the corresponding solenoid
  - Check the corresponding hydraulic valve

If the problem persists or you have any questions, contact your distributor.
CONTINUOUS OR TOO FREQUENT BACKFLUSHES

MANUALLY ACTIVATE A BACKFLUSH AND CHECK THE PRESSURE IN THE OUTLET MANIFOLD

PRESSURE BELOW THE MINIMUM REQUIRED. See section “Technical Data” from the Filtration equipment Manual

PRESSURE EQUAL TO OR ABOVE THE MINIMUM REQUIRED. See section “Technical Data”

INCORRECT PROGRAMMING OF THE CONTROLLER

PROBLEM WITH THE DIFFERENTIAL PRESSURE GAUGE

INFLUENT WATER QUALITY LOWER THAN THE ESTIMATED RUNNING FLOW HIGHER THAN DESIGN

TOO SHORT OF BACKFLUSH DURATION. Raise the value. See section “Backflushing time of each station” from the Control Unit Manual

TOO SHORT TIME BETWEEN BACKFLUSHES. Rise the value. See section “Time between backflushes phases” from the Control Unit Manual

CHECK THE REGULATED VALUE IN THE DIFFERENTIAL PRESSURE GAUGE. See section “Differential Pressure Gauge Delay” from the Control Unit Manual

CHECK CONNECTIONS OF THE DIFFERENTIAL PRESSURE GAUGE

If the problem persists or you have any doubt, contact your distributor.
11. WARRANTY

Rain Bird Filtration Products Professional Customer Satisfaction Policy Terms and Conditions

Rain Bird guarantees that its Filtration Products will be free of manufacturer defects for one year from date of authorized start-up but not beyond sixteen months from date of invoice.

Start-up or service by other than Rain Bird authorized personnel will void these terms and conditions.

Provided that all installation, start-up and operation responsibilities have been properly executed, Rain Bird will replace or repair, at Rain Bird’s option, any part found to be defective under normal recommended use during this period. Repairs performed and parts used at Rain Bird’s expense must be authorized by Rain Bird prior to repairs being performed. Upon request, Rain Bird shall provide advice on trouble-shooting a defect during the effective period of this Customer Satisfaction Policy. However, no service, replacement or repair under this Customer Satisfaction Policy will be rendered while the customer is in default of any payments due to Rain Bird.

Rain Bird will not accept responsibility for costs associated with the removal, replacement or repair of equipment in difficult-to-access locations. Difficult-to-access locations include (but are not limited to) locations where any of the following are required:

1) Cranes larger than 15 tons
2) Divers
3) Barges
4) Helicopters
5) Dredging
6) Roof removal or other such construction/reconstruction requirements
7) Any other unusual means or requirements

Such extraordinary cost shall be the responsibility of the customer, regardless of the reason requiring removal of the equipment service.

The terms and conditions of this Customer Satisfaction Policy do not cover damage, loss or injury caused by or resulting from the following:

1) Misapplication, abuse, or failure to conduct routine maintenance (to include winterization / winter lay-up procedures).
2) Pumping of liquids other than fresh water as defined by the U.S. Environmental Protection Agency, unless the Filtration Products quoted by Rain Bird specifically lists these other liquids and their concentrations.
3) Use of pesticides (to include insecticides, fungicides and herbicides), free chlorine or other strong biocides.
4) Exposure to electrolysis, erosion or abrasion.
5) Use or presence of destructive gases or chemicals unless these materials and their concentrations are specified in the Rain Bird quotation.
6) Electrical supply voltages above or below those specified for correct Filtration Products operation.
7) Electrical phase loss or reversal.
8) Use of a power source other than that specified in the original quotation.
9) Non-WYE configured power supplies such as open delta, phase converters or other forms of unbalanced three phase power supplies (if used).
10) Improper electrical grounding or exposure to incoming power lacking circuit breaker or fused protection.
11) Using the control panel as a service disconnect.
12) Lightning, earthquake, flood, windstorm or other Acts of Nature.
13) Failure of Filter packing seal (unless the failure occurs on initial start-up).
14) Any damage or loss to plants, equipment or groundwater or injury to people caused by the failure of or improper use of an injection system or improper concentration of chemicals or plant nutrients introduced into the Filtration Products by an injection system.
15) Any failure of nutrient or chemical storage or spill containment equipment or facilities associated with the Filtration Products location.

The foregoing terms and conditions constitute Rain Bird’s entire Customer Satisfaction Policy. Rain Bird does not offer any other or additional warranty, with respect to the pumping system or its components. Rain Bird makes no implied warranty, with respect to fitness for a particular purpose or merchantability of the pumping system or its components. In the case of any components or injection systems manufactured by others (as noted on the Filtration Products Quotation), there is no warranty provided by Rain Bird and these items are covered solely by and to the extent of the warranty, if any, offered by the manufacturer. Rain Bird shall not be liable to the customer or any other person or entity for any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the Filter system or by any injection system. Rain Bird shall not be responsible for incidental, consequential, collateral or direct damages or loss of profit or damages related to the customer’s business operations, nor for those caused by Acts of Nature. In no case and under no circumstances shall Rain Bird’s liability exceed the Rain Bird Corporation’s net sale price of the Filter system.

Laws concerning customer warranties and disclaimers vary from state to state, and therefore some of the foregoing limitations may not apply to you.
Rain Bird HDF Series 2 User’s Manual – 2013/10

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E-mail: Filters@RainBird.com
http://www.RainBird.com