

## RH800 & 2000 BASIC OPERATIONS GUIDE





# MENU



This is an interactive PDF. Click on an icon tile and navigate to a chapter of interest.



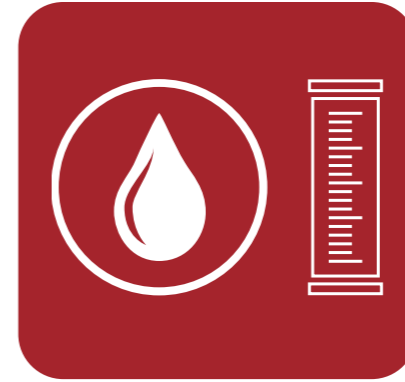
Legal & Safety



Notes



Seed Calibration



Chemical Calibration



Drum Operation



Pictograms

Users can advance or go back single pages by using quick navigation links shown below, right.

Users can navigate to the Menu by clicking on the Menu icon shown below, left.





# LEGAL & SAFETY

This manual contains technical information regarding Bayer SeedGrowth™ Equipment. Please read and understand these instructions completely before proceeding to install and operate the equipment. Bayer reserves the right to change specifications, models, components, or materials at any time without notice. For additional equipment information contact us at 1.800.634.6738. Please have this manual available when contacting Bayer.

Always use caution and common sense when working with any chemical. Read the product label and SDS carefully and follow their instructions exactly as described.

Optimal operating conditions for this piece of equipment requires an ambient temperature 32° F to +104° F (0° C to +40° C), relative humidity less than 90% (minimum condensation). Make necessary provisions to protect this piece of equipment against excessive dust, particles containing iron, moisture and against corrosive and explosive gases.

Our technical information is based on extensive testing and is, to the best of our current knowledge, true and accurate but given without warranty as the conditions of use and storage are beyond our control. Variables, such as humidity, temperature, change in seed size or variety and viscosity of chemical products can all affect the accuracy of the chemical application and seed coverage. To ensure the desired application rate and optimum seed coverage, check the calibration periodically throughout the day, and make adjustments as needed.

Any person who is involved in the installation or periodic maintenance of this equipment should be suitably skilled or instructed and supervised using a safe system of work. Isolate the treater before removing guards for maintenance.





# EXPOSURE CONTROL

Always use caution and common sense when working with chemicals. Read the product label and SDS carefully and follow their instructions exactly as described. The following Personal Protective Equipment (PPE) recommendations and best practices help promote safe use in seed treatment.



Note: Exposure Control signs and labels conform to the requirements of ANSI Z535.4 or ISO 3864.



### Wear protective clothing

Wear disposable or reusable coveralls with long sleeves.



### Hand protection required

Wear chemical-resistant gloves.



### Wear rubber boots

Wear chemical resistant rubber boots.



### Labels

Label recommendations and directions for handling must be followed, including treatment procedure (use of sticker) as well as the safety requirements.



### Treatment products

Keep products in a locked room that has been approved for crop protection products.



### Wear a mask

Wear respiratory protection.



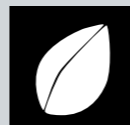
### Eye protection required

Wear protective eyewear.



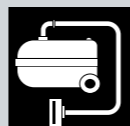
### Calibration

Seed treatment equipment must be checked and calibrated regularly to ensure accurate and safe application.



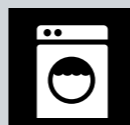
### Clean seed

Use well cleaned seed to avoid creation of polluted dust that will contaminate the machine, treating facility, workers, farmers and the environment during sowing.



### Cleaning

Use a vacuum to clean machines. Avoid using compressed air for cleaning.



### Laundry

Wash soiled reusable clothing separately. Workers must take a shower after each shift.



### Empty containers

Non-returnable empty containers must be triple rinsed before they can be disposed. For others the recommendation of the producer must be followed.



### Spillage

Spillage must be avoided; it must be thoroughly cleaned up to avoid contaminating the environment and waterways.



### Maintenance

Keep machinery clean between treating sessions.





# REFERENCE SYMBOLS

Symbols and signal words are used to identify the level of hazard and help avoid personal injury.



Note: Safety signs and labels conform to the requirements of ANSI Z535.4 or ISO 3864.



### Shock Hazard

Alerts that dangerous voltage may be present.



### Warning

Alerts that a hazard may cause serious injury or death.



### Caution

Alerts that a hazard may cause minor or moderate injury.



### Hand crush - moving parts

Alerts crushing is possible.



### Pinch point

Keep hands away from pinch points.



### Rotating shaft

Do not wear loose clothing around turning parts.



### Disconnect

Disconnect to de-energize before opening.



### Use guards

Keep guards in place. Do not remove during operation.



### Lifting

Requires two people to safely lift an item.



### Lift points

Requires the use of proper rigging and lifting techniques based on the lift plan.



### Center of gravity

Indicates the center of gravity of the machine to help assist when rigging and lifting.



### Tools

Required tools for installation and maintenance.



### Parts

Required parts for installation and maintenance.



### Tip

Calls attention to special information.



### Note

Emphasizes general information worthy of attention.



### Example

Provides a problem or exercise that illustrates a method or principle.

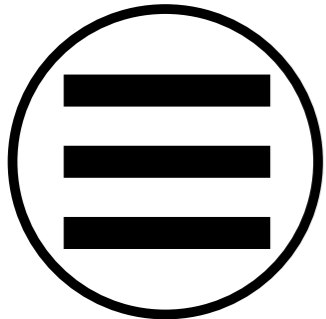




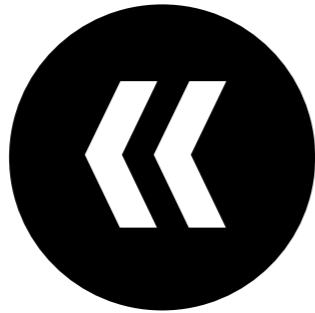
# PICTOGRAMS

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Each Signifier displayed here is specific to this User Manual.



Menu



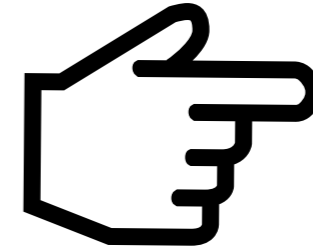
Previous



Advance



Drum & Frame



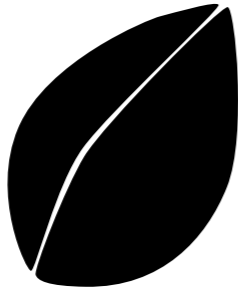
Cursor Hand



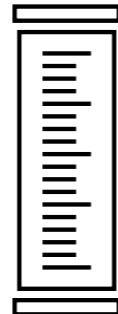
Like



Chemical



Seed



Calibration





# EXPLANATORY NOTES



Ensure that all components of the treating system are connected and ready for use prior to operating the system. Refer to the RH Basic Installation Guide for proper installation and connection of system components.



LS Pump Control



Treating begins once the Seed Wheel Mode Switch is turned **ON** and the Inlet Sensor detects seed in the hopper. If the Operator needs to stop treating seed, turn **OFF** the Seed Wheel Switch. Each Pump automatically stops as well. To restart, Turn the Seed Wheel Mode Control Switch to **AUTO**. Each Pump automatically begins as well. If the Seed Wheel or Pumps stop working, the system will automatically shut down the treatment process. Push the **E-STOP** button for an emergency stop **ONLY!**

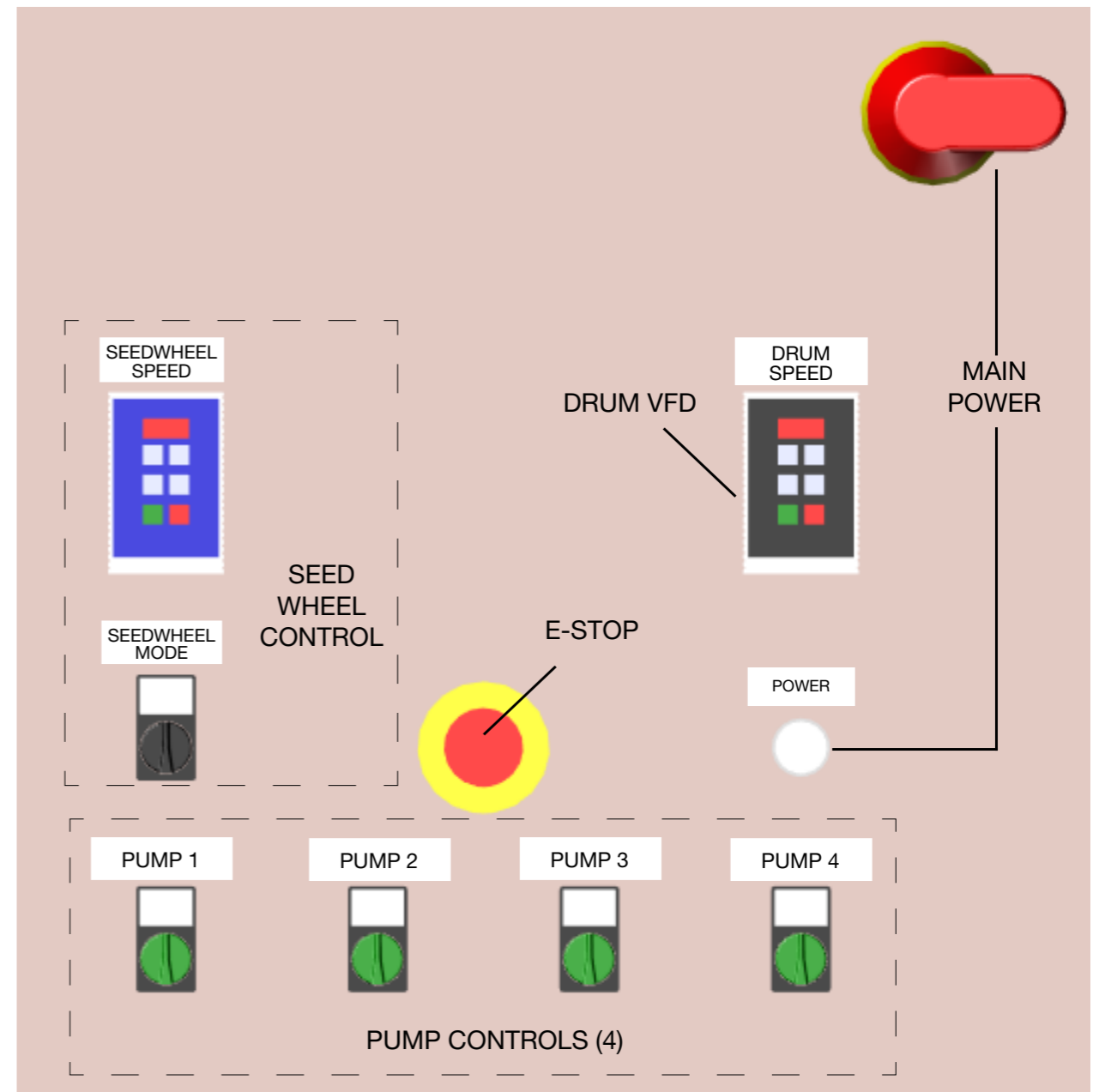


Tank Agitation Power Cord



Portable Calibration Scale

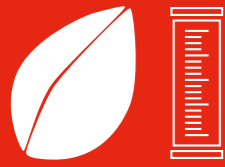
## RH BASIC CONTROL PANEL



### RH Basic 4-Pump Complete Control Panel

The RH Basic Complete Control Panel operates the RH system: Main Power, Seed Wheel Control, Pump Controls (4), the Drum Drive VFD. The remote Supply Tank LS Control, the Tank Agitation Motor and Portable Digital Scale require an external power source. If optional Flow Meter, Powder Feeder and Conveyor Controllers are used, an external power source will be required as well.





# SEED CALIBRATION



A new measurement will need to be made each time seed size or seed variety changes, for accuracy!



## Seed Calibration

**Step 1:** Turn **ON** (touch) the Portable Scale Power **On/Off** Switch.

**Step 2:** Set the empty Seed Calibration Cylinder on the Scale and touch the **ZERO** button to zero out the Scale.

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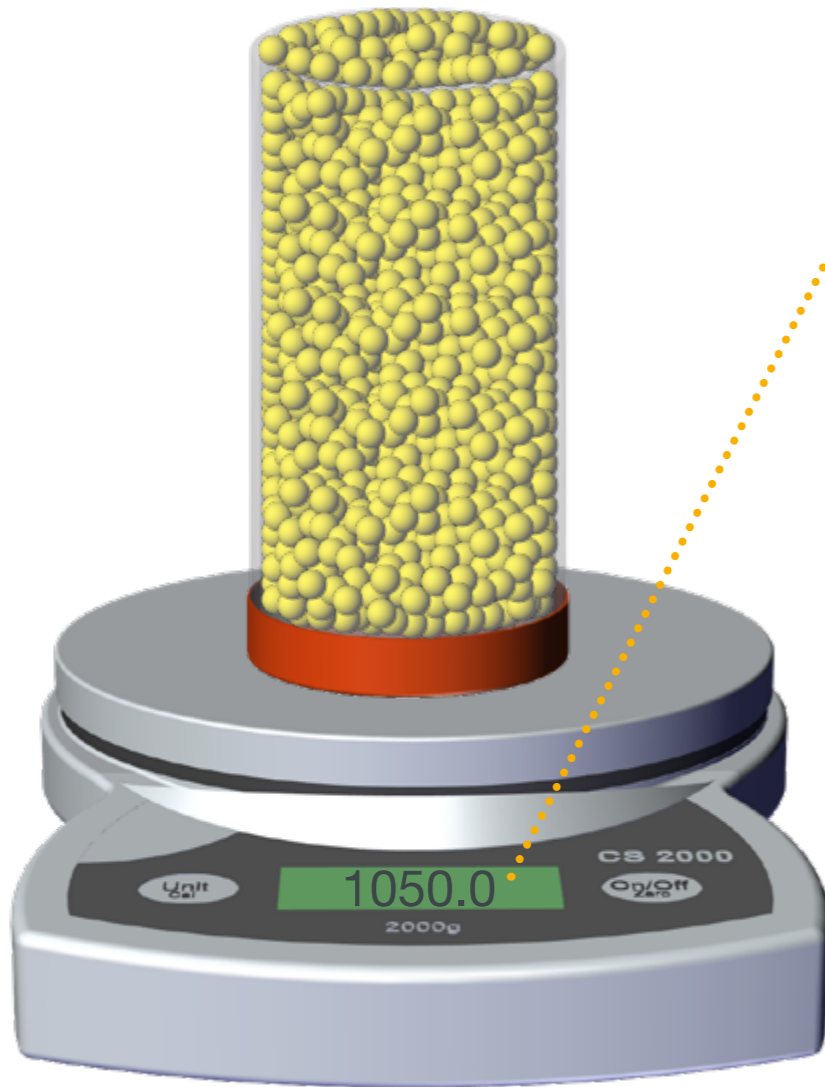






Example: **RH800 LB/MIN**

750 lbs/min. is the intended amount of seed to be treated. Total grams in the Calibration Cylinder = 1050g. The chart matrix would suggest... **750 lbs/min & 1050g = 33.3 rpm Seed Wheel speed setting.**



**Step 3:** Remove the empty Cylinder from the Scale and fill it to the top with desired seed.

- Screenshot any excess seed by hand or a flat edge, to level the seed at the top of the Beaker.
- Set the filled Cylinder on the Scale.
- Note the digital value displayed (approximately 1,050 grams for soybeans).

**Step 4:** Use the **RH800 SEED WHEEL REFERENCE CHART** on page 7-10 to determine the approximate seed wheel rpm (seed wheel charts are for reference only and the results are approximate).

Continued ➡



*LB/MIN*

**RH800 BASIC SEED WHEEL RPM REFERENCE CHART**

<b>CALIBRATION CONTAINER WEIGHT (g)</b>	<b>1200</b>	13.6	15.5	17.5	19.4	21.3	23.3	25.2	27.2	29.1	31.0	33.0	34.9
	<b>1190</b>	13.7	15.6	17.6	19.6	21.5	23.5	25.4	27.4	29.3	31.3	33.3	35.2
	<b>1180</b>	13.8	15.8	17.8	19.7	21.7	23.7	25.6	27.6	29.6	31.6	33.5	35.5
	<b>1170</b>	13.9	15.9	17.9	19.9	21.9	23.9	25.9	27.9	29.8	31.8	33.8	35.8
	<b>1160</b>	14.0	16.1	18.1	20.1	22.1	24.1	26.1	28.1	30.1	32.1	34.1	36.1
	<b>1150</b>	14.2	16.2	18.2	20.2	22.3	24.3	26.3	28.3	30.4	32.4	34.4	36.4
	<b>1140</b>	14.3	16.3	18.4	20.4	22.5	24.5	26.5	28.6	30.6	32.7	34.7	36.8
	<b>1130</b>	14.4	16.5	18.5	20.6	22.7	24.7	26.8	28.8	30.9	33.0	35.0	37.1
	<b>1120</b>	14.5	16.6	18.7	20.8	22.9	24.9	27.0	29.1	31.2	33.3	35.3	37.4
	<b>1110</b>	14.7	16.8	18.9	21.0	23.1	25.2	27.3	29.4	31.5	33.6	35.6	37.7
	<b>1100</b>	14.8	16.9	19.0	21.2	23.3	25.4	27.5	29.6	31.7	33.9	36.0	38.1
	<b>1090</b>	14.9	17.1	19.2	21.4	23.5	25.6	27.8	29.9	32.0	34.2	36.3	38.4
	<b>1080</b>	15.1	17.2	19.4	21.6	23.7	25.9	28.0	30.2	32.3	34.5	36.6	38.8
	<b>1070</b>	15.2	17.4	19.6	21.8	23.9	26.1	28.3	30.5	32.6	34.8	37.0	39.2
	<b>1060</b>	15.4	17.6	19.8	22.0	24.2	26.3	28.5	30.7	32.9	35.1	37.3	39.5
	<b>1050</b>	15.5	17.7	20.0	22.2	24.4	26.6	28.8	31.0	33.3	35.5	37.7	39.9
	<b>1040</b>	15.7	17.9	20.1	22.4	24.6	26.9	29.1	31.3	33.6	35.8	38.0	40.3
<b>1030</b>	15.8	18.1	20.3	22.6	24.9	27.1	29.4	31.6	33.9	36.2	38.4	40.7	
<b>1020</b>	16.0	18.3	20.5	22.8	25.1	27.4	29.7	31.9	34.2	36.5	38.8	41.1	
<b>1010</b>	16.1	18.4	20.7	23.0	25.3	27.7	30.0	32.3	34.6	36.9	39.2	41.5	
<b>1000</b>	16.3	18.6	20.9	23.3	25.6	27.9	30.3	32.6	34.9	37.2	39.6	41.9	
	<b>350</b>	<b>400</b>	<b>450</b>	<b>500</b>	<b>550</b>	<b>600</b>	<b>650</b>	<b>700</b>	<b>750</b>	<b>800</b>	<b>850</b>	<b>900</b>	
	<b>DESIRED TREATER FLOW RATE (LB/MIN)</b>												



**KG/MIN**

**RH800 BASIC SEED WHEEL RPM REFERENCE CHART**

<b>CALIBRATION CONTAINER WEIGHT (g)</b>	<b>1200</b>	12.8	15.0	17.1	19.2	21.4	23.5	25.7	27.8	29.9	32.1	34.2	36.4
	<b>1190</b>	12.9	15.1	17.3	19.4	21.6	23.7	25.9	28.0	30.2	32.3	34.5	36.7
	<b>1180</b>	13.0	15.2	17.4	19.6	21.7	23.9	26.1	28.3	30.4	32.6	34.8	37.0
	<b>1170</b>	13.2	15.4	17.5	19.7	21.9	24.1	26.3	28.5	30.7	32.9	35.1	37.3
	<b>1160</b>	13.3	15.5	17.7	19.9	22.1	24.3	26.5	28.8	31.0	33.2	35.4	37.6
	<b>1150</b>	13.4	15.6	17.9	20.1	22.3	24.5	26.8	29.0	31.2	33.5	35.7	37.9
	<b>1140</b>	13.5	15.8	18.0	20.3	22.5	24.8	27.0	29.3	31.5	33.8	36.0	38.3
	<b>1130</b>	13.6	15.9	18.2	20.4	22.7	25.0	27.3	29.5	31.8	34.1	36.3	38.6
	<b>1120</b>	13.7	16.0	18.3	20.6	22.9	25.2	27.5	29.8	32.1	34.4	36.7	39.0
	<b>1110</b>	13.9	16.2	18.5	20.8	23.1	25.4	27.7	30.1	32.4	34.7	37.0	39.3
	<b>1100</b>	14.0	16.3	18.7	21.0	23.3	25.7	28.0	30.3	32.7	35.0	37.3	39.7
	<b>1090</b>	14.1	16.5	18.8	21.2	23.5	25.9	28.3	30.6	33.0	35.3	37.7	40.0
	<b>1080</b>	14.3	16.6	19.0	21.4	23.8	26.1	28.5	30.9	33.3	35.6	38.0	40.4
	<b>1070</b>	14.4	16.8	19.2	21.6	24.0	26.4	28.8	31.2	33.6	36.0	38.4	40.8
	<b>1060</b>	14.5	16.9	19.4	21.8	24.2	26.6	29.1	31.5	33.9	36.3	38.7	41.2
	<b>1050</b>	14.7	17.1	19.6	22.0	24.4	26.9	29.3	31.8	34.2	36.7	39.1	41.5
	<b>1040</b>	14.8	17.3	19.7	22.2	24.7	27.1	29.6	32.1	34.5	37.0	39.5	41.9
	<b>1030</b>	14.9	17.4	19.9	22.4	24.9	27.4	29.9	32.4	34.9	37.4	39.9	42.4
	<b>1020</b>	15.1	17.6	20.1	22.6	25.2	27.7	30.2	32.7	35.2	37.7	40.3	42.8
	<b>1010</b>	15.2	17.8	20.3	22.9	25.4	27.9	30.5	33.0	35.6	38.1	40.7	43.2
<b>1000</b>	15.4	18.0	20.5	23.1	25.7	28.2	30.8	33.4	35.9	38.5	41.1	43.6	
	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>	<b>350</b>	<b>375</b>	<b>400</b>	<b>425</b>	
	<b>DESIRED TREATER FLOW RATE (KG/MIN)</b>												



*LB/MIN*

**RH2000 BASIC SEED WHEEL RPM REFERENCE CHART**

<b>CALIBRATION CONTAINER WEIGHT (g)</b>	<b>1200</b>	18.1	20.0	21.8	23.6	25.4	27.2	29.0	30.9	32.7	34.5	36.3	38.1
	<b>1190</b>	18.3	20.1	22.0	23.8	25.6	27.5	29.3	31.1	32.9	34.8	36.6	38.4
	<b>1180</b>	18.5	20.3	22.1	24.0	25.8	27.7	29.5	31.4	33.2	35.1	36.9	38.8
	<b>1170</b>	18.6	20.5	22.3	24.2	26.1	27.9	29.8	31.6	33.5	35.4	37.2	39.1
	<b>1160</b>	18.8	20.7	22.5	24.4	26.3	28.2	30.0	31.9	33.8	35.7	37.6	39.4
	<b>1150</b>	18.9	20.8	22.7	24.6	26.5	28.4	30.3	32.2	34.1	36.0	37.9	39.8
	<b>1140</b>	19.1	21.0	22.9	24.8	26.7	28.7	30.6	32.5	34.4	36.3	38.2	40.1
	<b>1130</b>	19.3	21.2	23.1	25.1	27.0	28.9	30.8	32.8	34.7	36.6	38.5	40.5
	<b>1120</b>	19.4	21.4	23.3	25.3	27.2	29.2	31.1	33.1	35.0	36.9	38.9	40.8
	<b>1110</b>	19.6	21.6	23.5	25.5	27.5	29.4	31.4	33.4	35.3	37.3	39.2	41.2
	<b>1100</b>	19.8	21.8	23.8	25.7	27.7	29.7	31.7	33.7	35.6	37.6	39.6	41.6
	<b>1090</b>	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0
	<b>1080</b>	20.2	22.2	24.2	26.2	28.2	30.2	32.3	34.3	36.3	38.3	40.3	42.3
	<b>1070</b>	20.4	22.4	24.4	26.5	28.5	30.5	32.6	34.6	36.6	38.7	40.7	42.7
	<b>1060</b>	20.5	22.6	24.7	26.7	28.8	30.8	32.9	34.9	37.0	39.0	41.1	43.1
	<b>1050</b>	20.7	22.8	24.9	27.0	29.0	31.1	33.2	35.3	37.3	39.4	41.5	43.6
	<b>1040</b>	20.9	23.0	25.1	27.2	29.3	31.4	33.5	35.6	37.7	39.8	41.9	44.0
	<b>1030</b>	21.1	23.3	25.4	27.5	29.6	31.7	33.8	35.9	38.1	40.2	42.3	44.4
	<b>1020</b>	21.4	23.5	25.6	27.8	29.9	32.0	34.2	36.3	38.4	40.6	42.7	44.8
	<b>1010</b>	21.6	23.7	25.9	28.0	30.2	32.3	34.5	36.7	38.8	41.0	43.1	--
<b>1000</b>	21.8	24.0	26.1	28.3	30.5	32.7	34.8	37.0	39.2	41.4	43.6	--	
	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>	<b>1400</b>	<b>1500</b>	<b>1600</b>	<b>1700</b>	<b>1800</b>	<b>1900</b>	<b>2000</b>	<b>2100</b>	
	<b>DESIRED TREATER FLOW RATE (LB/MIN)</b>												

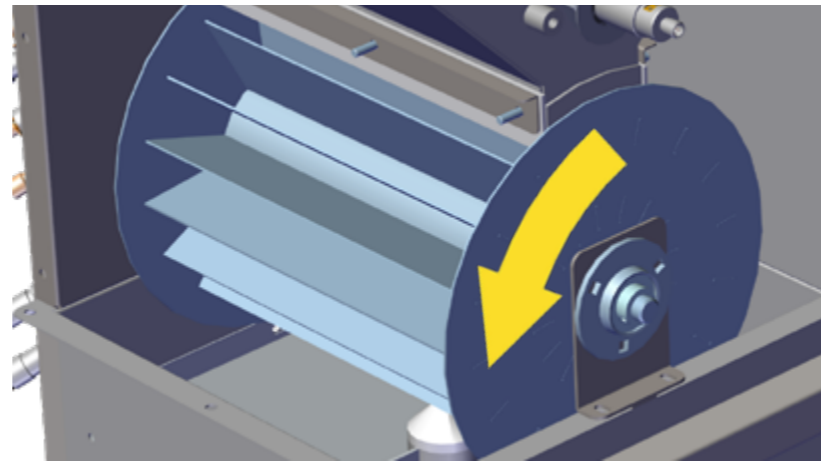
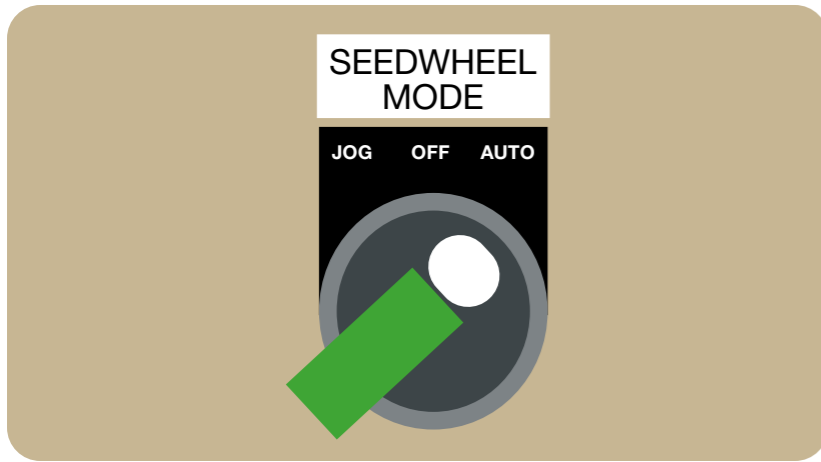


# KG/MIN

## RH2000 BASIC SEED WHEEL RPM REFERENCE CHART (KG/MIN)

CALIBRATION CONTAINER WEIGHT (g)	<b>1200</b>	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0
	<b>1190</b>	18.2	20.2	22.2	24.2	26.2	28.2	30.3	32.3	34.3	36.3	38.3	40.4
	<b>1180</b>	18.3	20.3	22.4	24.4	26.5	28.5	30.5	32.6	34.6	36.6	38.7	40.7
	<b>1170</b>	18.5	20.5	22.6	24.6	26.7	28.7	30.8	32.8	34.9	36.9	39.0	41.0
	<b>1160</b>	18.6	20.7	22.8	24.8	26.9	29.0	31.0	33.1	35.2	37.3	39.3	41.4
	<b>1150</b>	18.8	20.9	23.0	25.1	27.1	29.2	31.3	33.4	35.5	37.6	39.7	41.8
	<b>1140</b>	19.0	21.1	23.2	25.3	27.4	29.5	31.6	33.7	35.8	37.9	40.0	42.1
	<b>1130</b>	19.1	21.2	23.4	25.5	27.6	29.7	31.9	34.0	36.1	38.2	40.4	42.5
	<b>1120</b>	19.3	21.4	23.6	25.7	27.9	30.0	32.2	34.3	36.4	38.6	40.7	42.9
	<b>1110</b>	19.5	21.6	23.8	26.0	28.1	30.3	32.4	34.6	36.8	38.9	41.1	43.3
	<b>1100</b>	19.6	21.8	24.0	26.2	28.4	30.6	32.7	34.9	37.1	39.3	41.5	43.7
	<b>1090</b>	19.8	22.0	24.2	26.4	28.6	30.8	33.0	35.2	37.4	39.7	41.9	44.1
	<b>1080</b>	20.0	22.2	24.5	26.7	28.9	31.1	33.3	35.6	37.8	40.0	42.2	44.5
	<b>1070</b>	20.2	22.4	24.7	26.9	29.2	31.4	33.7	35.9	38.1	40.4	42.6	44.9
	<b>1060</b>	20.4	22.7	24.9	27.2	29.4	31.7	34.0	36.2	38.5	40.8	43.0	--
	<b>1050</b>	20.6	22.9	25.2	27.4	29.7	32.0	34.3	36.6	38.9	41.2	43.4	--
	<b>1040</b>	20.8	23.1	25.4	27.7	30.0	32.3	34.6	36.9	39.2	41.6	43.9	--
<b>1030</b>	21.0	23.3	25.6	28.0	30.3	32.6	35.0	37.3	39.6	42.0	44.3	--	
<b>1020</b>	21.2	23.5	25.9	28.2	30.6	33.0	35.3	37.7	40.0	42.4	44.7	--	
<b>1010</b>	21.4	23.8	26.2	28.5	30.9	33.3	35.7	38.0	40.4	42.8	--	--	
<b>1000</b>	21.6	24.0	26.4	28.8	31.2	33.6	36.0	38.4	40.8	43.2	--	--	
	<b>450</b>	<b>500</b>	<b>550</b>	<b>600</b>	<b>650</b>	<b>700</b>	<b>750</b>	<b>800</b>	<b>850</b>	<b>900</b>	<b>950</b>	<b>1000</b>	
	DESIRED TREATER FLOW RATE (KG/MIN)												





### Step 5: SEED WHEEL MODE

- Turn the Seed Wheel Control Switch to **AUTO**.

## SEED WHEEL SPEED



**Step 6:** On the Seed Wheel Control Touch Pad, set the Seed Wheel Speed to the value previously determined from the **RH800 SEED WHEEL REFERENCE CHART** on page 7 (33.3rpm).

- Use the **UP & DOWN** arrows to increase or decrease speed.
- Press the **GREEN RUN** key.
- The Seed Wheel will begin rotating.
- Press the **RED STOP** key, the Seed Wheel will stop rotating.

**This completes the Seed Wheel calibration.**





# CHEMICAL CALIBRATION



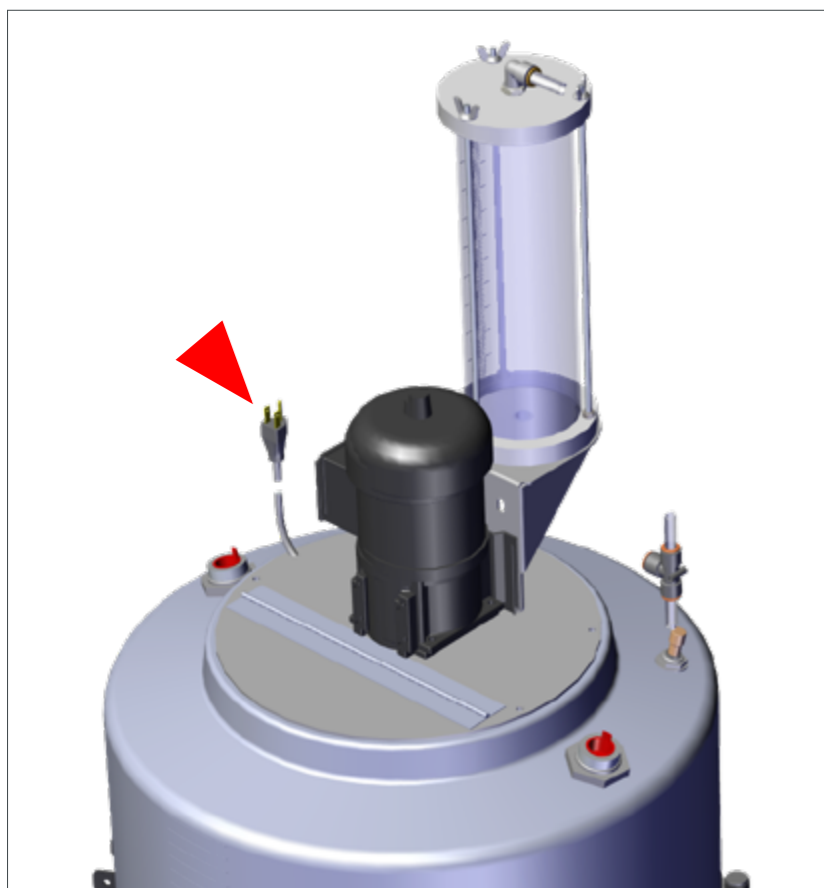
Note: Tank agitation begins when power cord is plugged into power source. Unplug Power Cord to stop agitation.



## Chemical Calibration

**Step 1:** Connect each (up to four) Tank Agitation Power Cords to an external power source (1-4).

Continued ➞

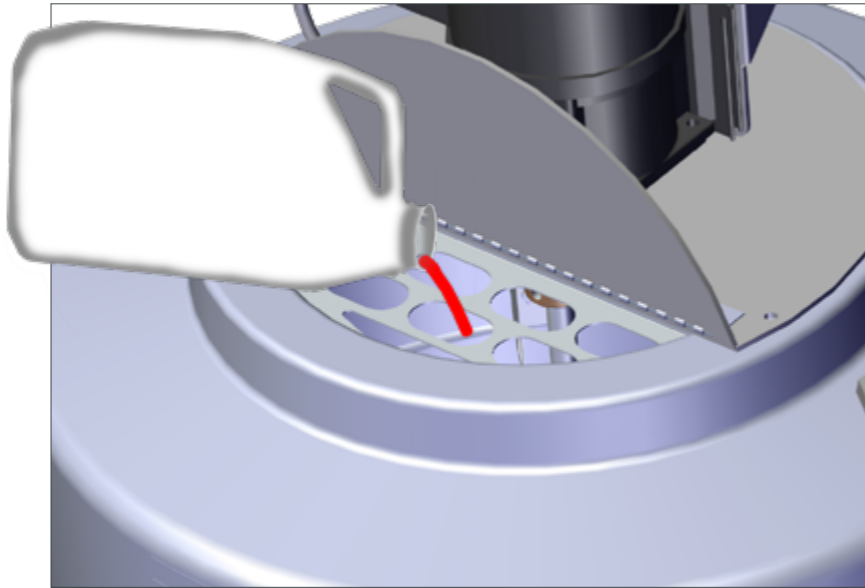




Note: Refer to the Treatment Product Label on the chemical jug for the regulated application rate. Follow the direction exactly as stated on the label!

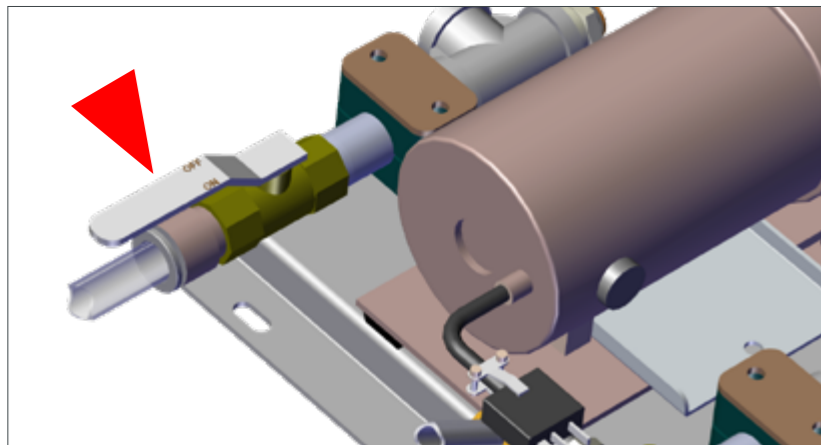


**Warning! Exercise extreme caution when working with chemicals! Wear proper PPE >>**



**Step 2:** Open the Tank Cover Lid and pour in desired chemicals.

- Allow chemicals to agitate for a few minutes.

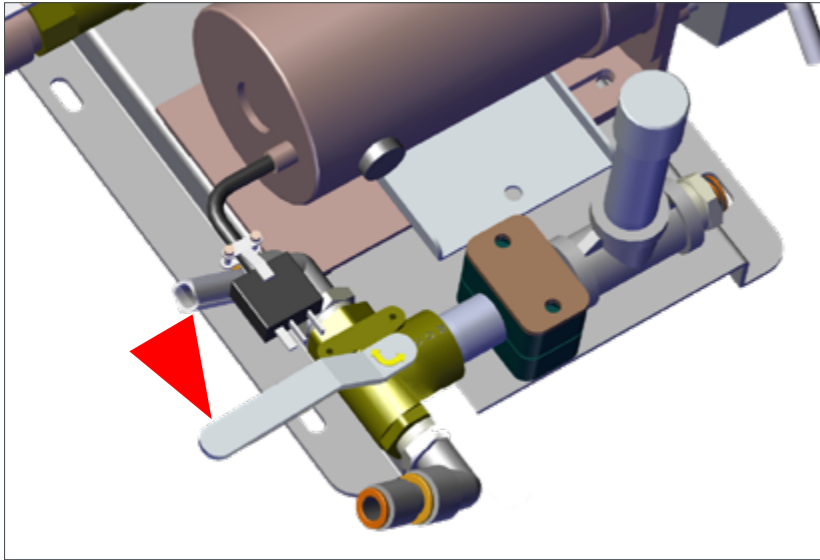


**Step 3:** Ensure the Pump Flow Valve is in the **TREAT** mode.

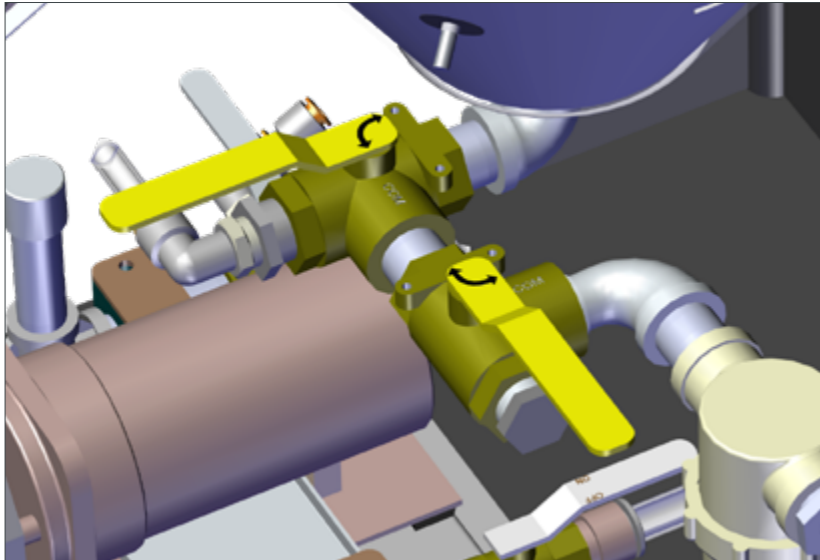
Continued ➞



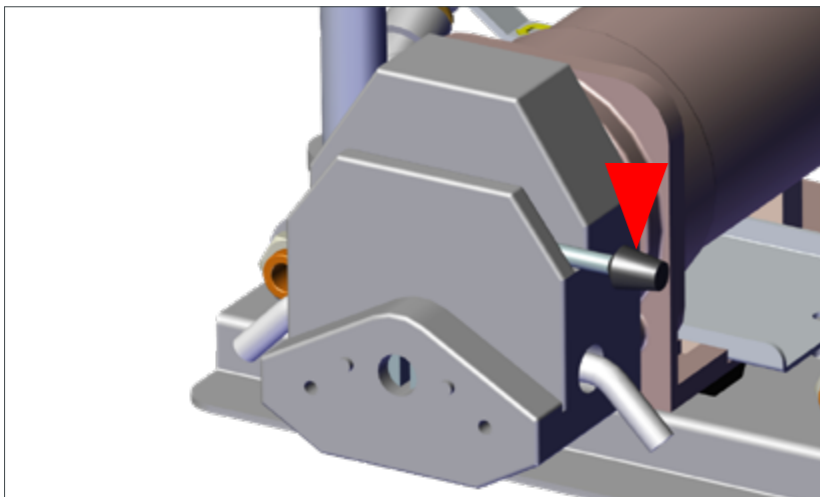




**Step 4:** Ensure the Pump Recirculation Valve is in the **RECIRCULATION** mode.



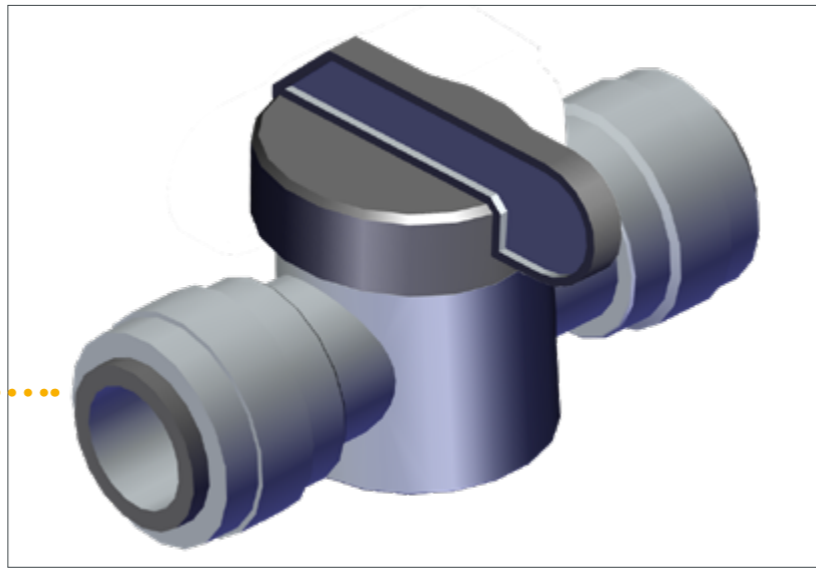
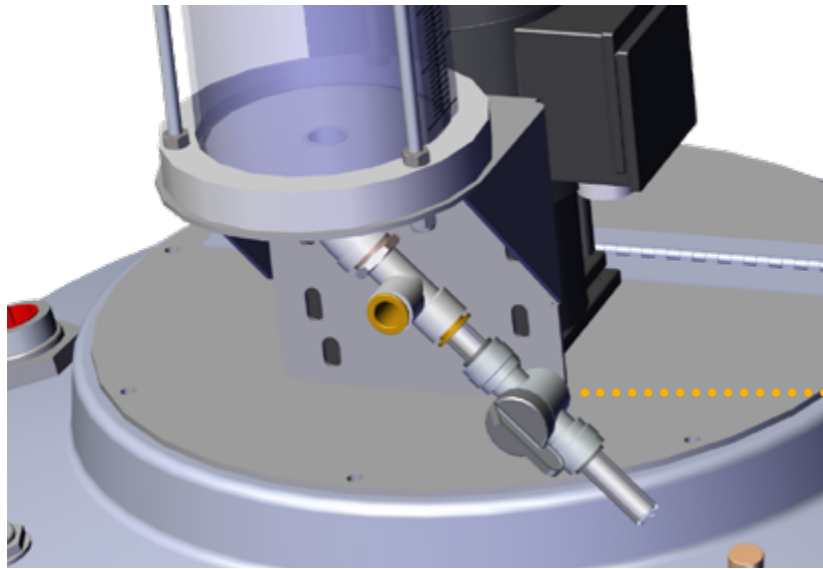
**Step 5:** Ensure the Tank Valves are in the **TREAT** mode.



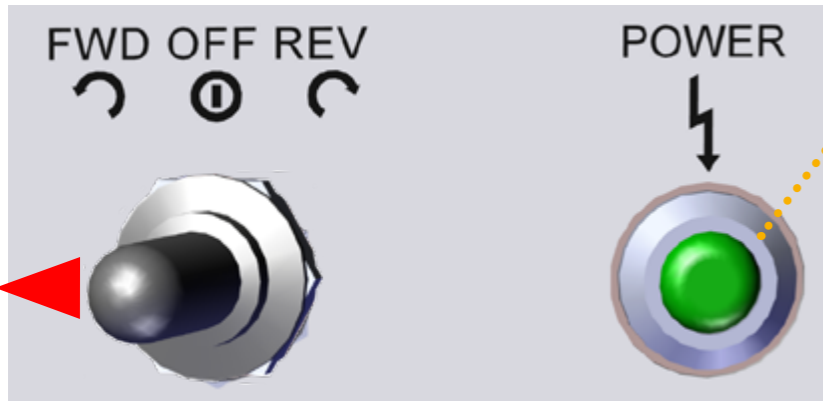
**Step 6:** Ensure the Pump Head is **CLOSED**.

Continued ➞



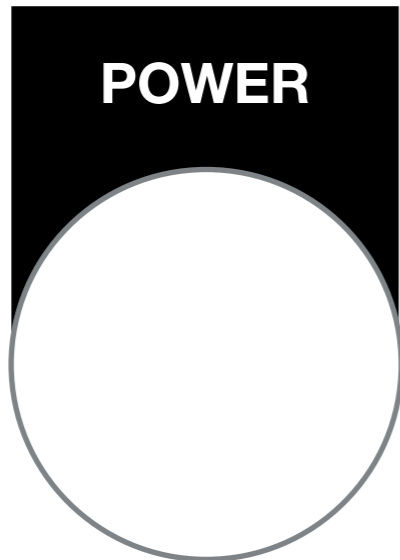


**Step 7: CLOSE** the Drain Valve under the Calibration Cylinder.



**Step 8:** Push the LS Pump Control switch to **FWD**.

- The Power light will also indicate that the power is **ON** when lit.

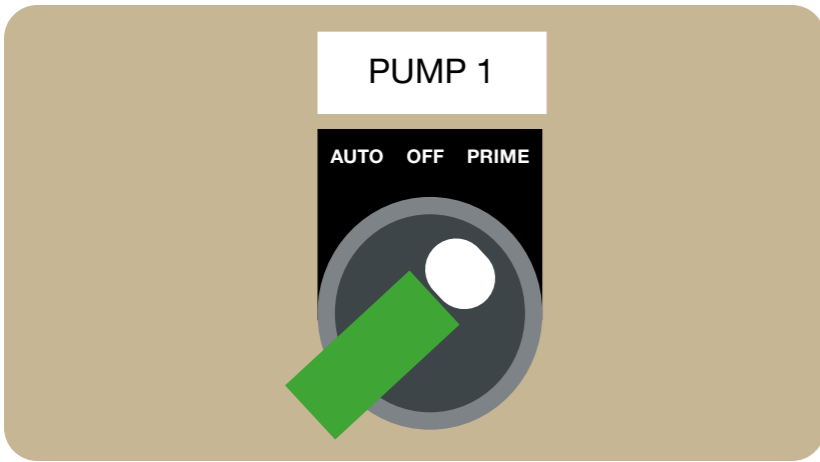


**Step 9:** Ensure the Main Power Switch handle is in the **ON (DOWN)** position.

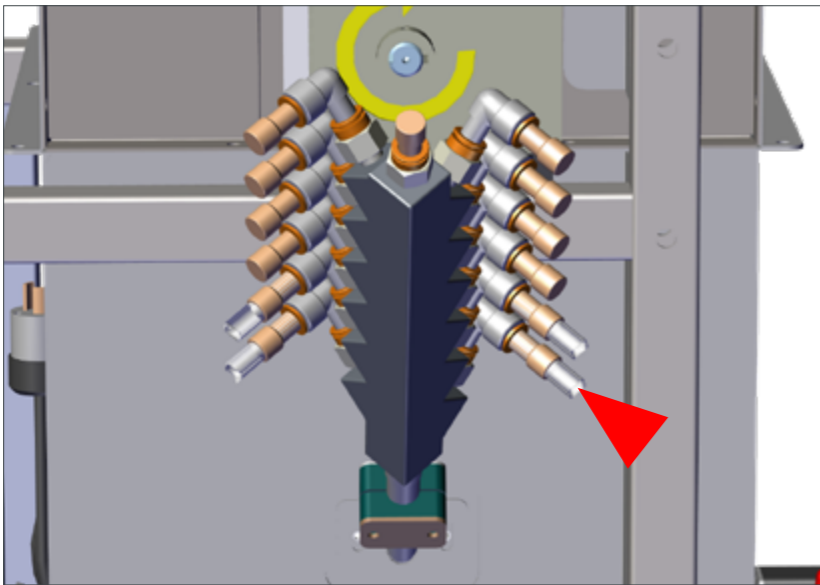
- The Power light will also indicate that the power is **ON** when lit (white = energized).

Continued ➔

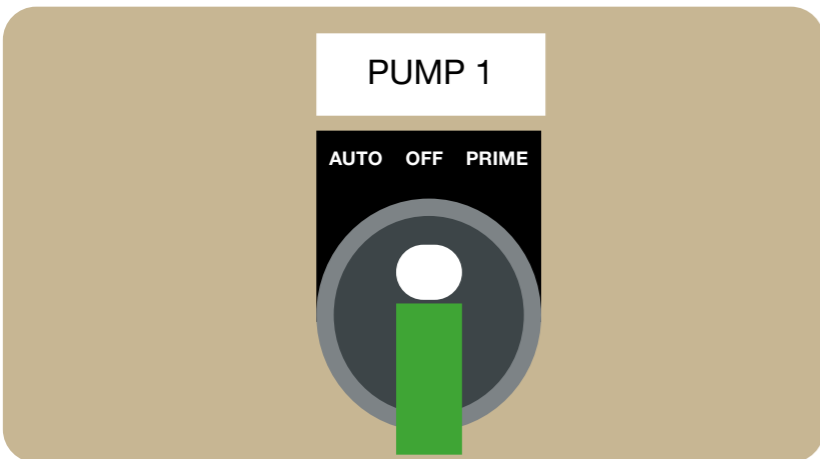




**Step 10:** Turn the PUMP #1 Switch to **PRIME**.



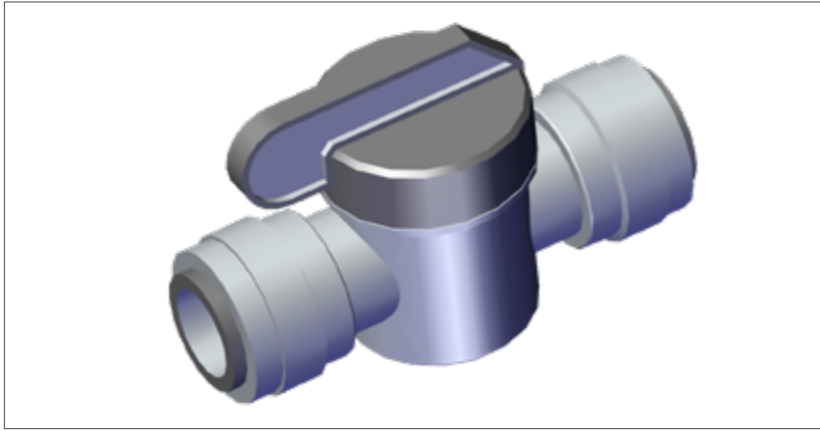
**Step 11:** The Pump will run, purging the treatment lines of air and send chemical to the Treater Chemical Inlet Assembly.



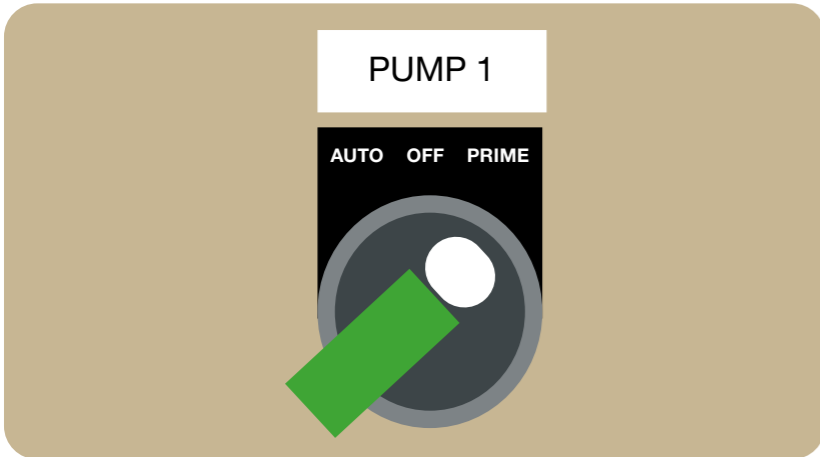
**Step 12:** Turn PUMP #1 Switch **OFF**. Repeat for all Pumps used (1-4).

Continued ➡

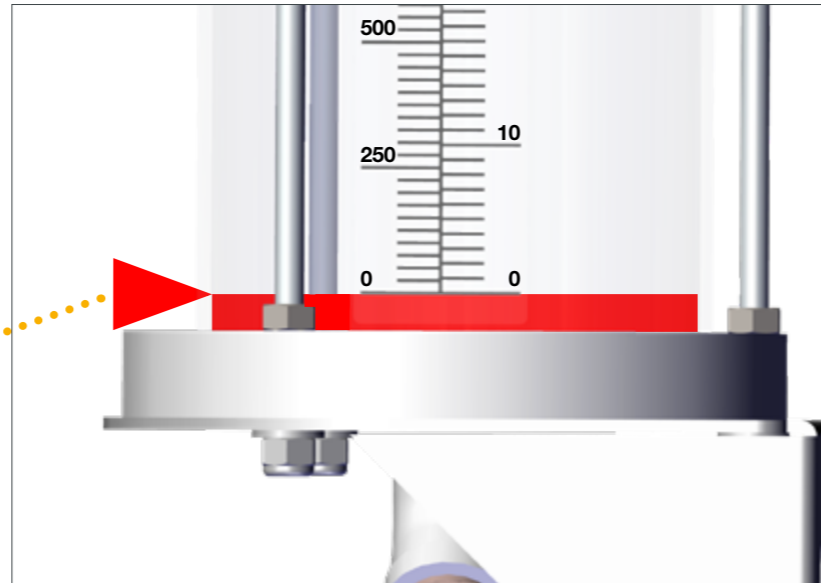
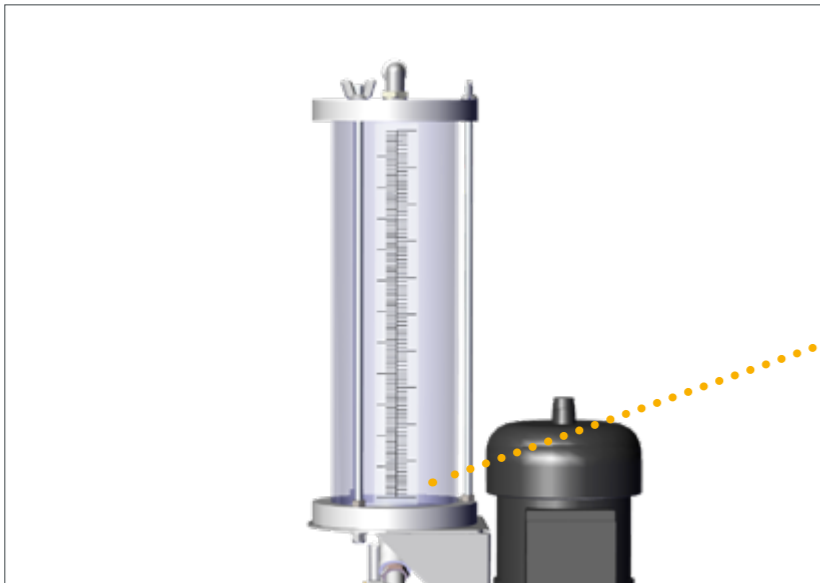




**Step 13:** **OPEN** the calibration drain valve (turn to right to stop recirculation back into tank).



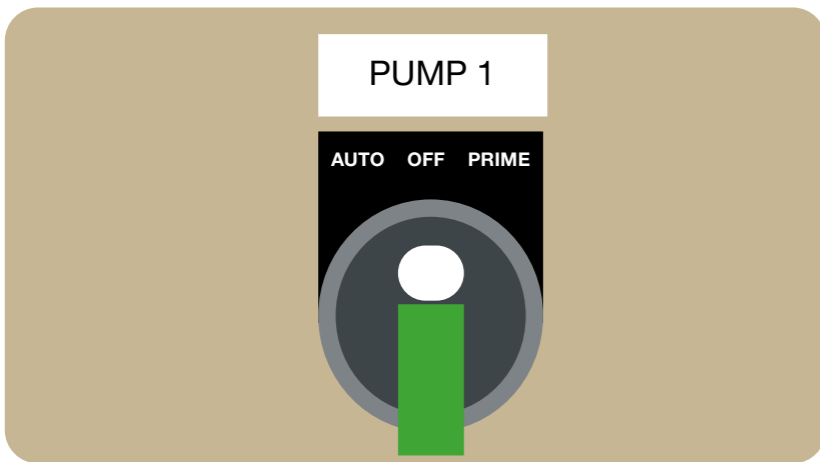
**Step 14:** Turn PUMP #1 Switch to **PRIME**.



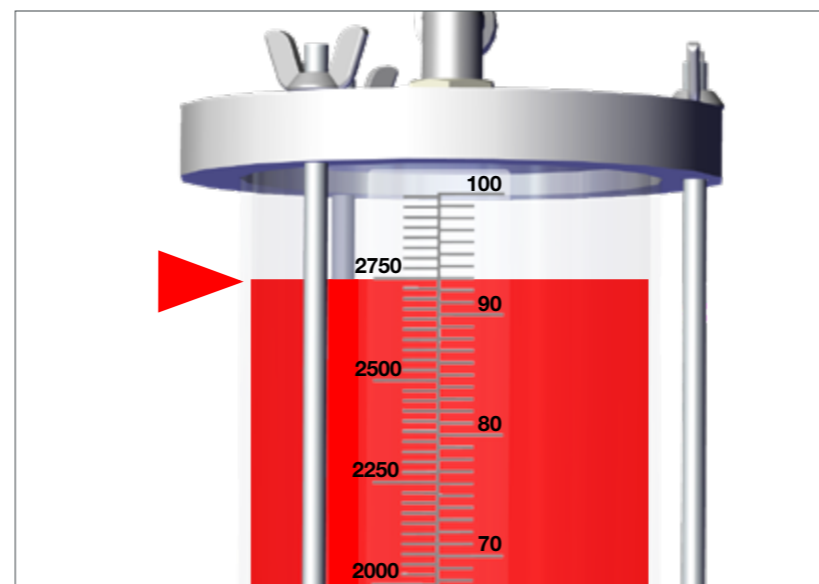
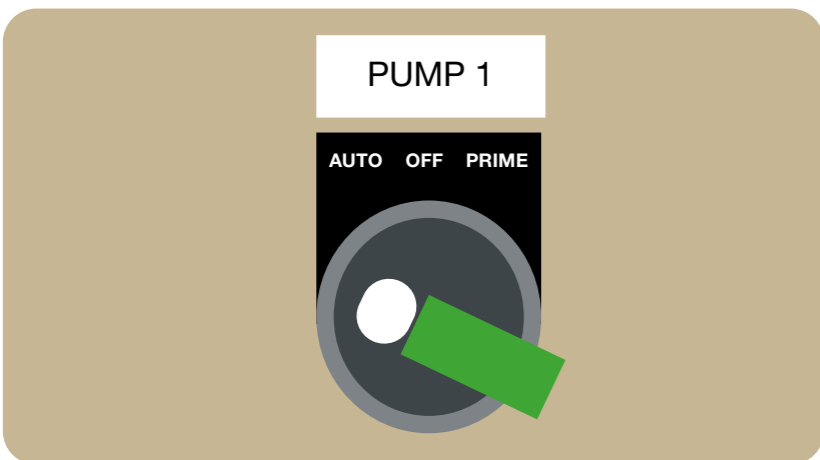
**Step 15:** The Pump will run, filling the Calibration Cylinder with chemical just up to the **ZERO** mark.

Continued ➡





**Step 16:** Turn **OFF** PUMP #1 Switch.



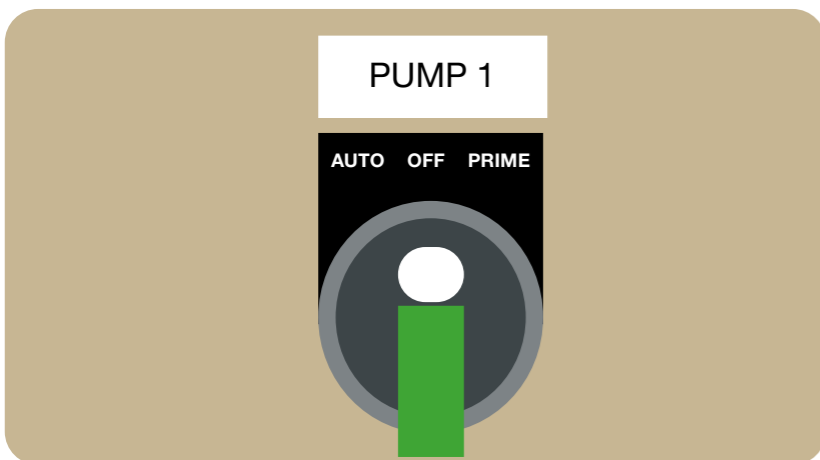
**Step 17:** Turn PUMP #1 Switch to **AUTO** for one minute.

- The Pump will fill the Cylinder with chemical.
- Turn **OFF** PUMP #1 Switch.

**Step 18:** Make note of the amount e.g., 2750ml of chemical dispensed in one minute.

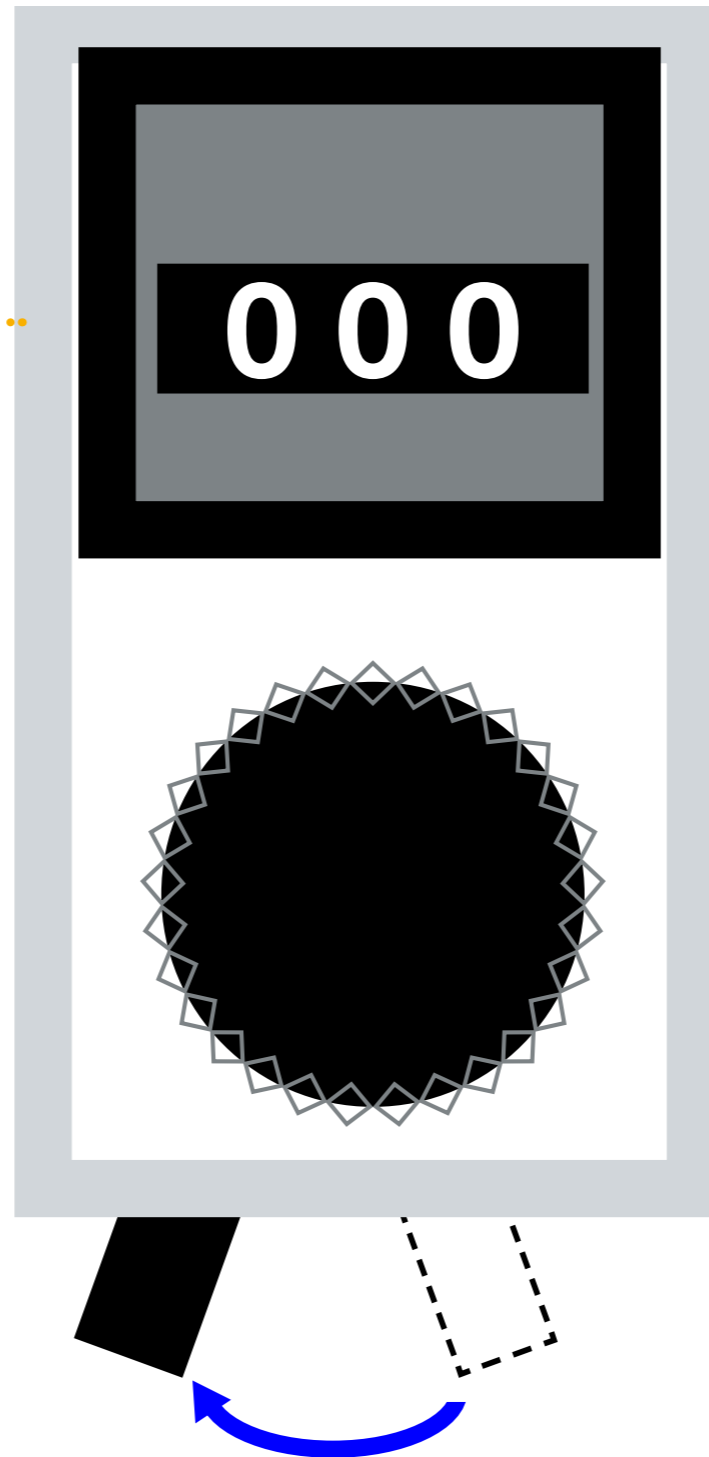
- Compare that number to the chemical product label requirement.

Continued ➞





Note: Variables, such as humidity, temperature, change in seed size or variety and viscosity of chemical products can all affect the accuracy of the chemical application and seed coverage. To ensure the desired application rate and optimum seed coverage is achieved, check the Pump calibration periodically throughout the day. Make adjustments as needed.

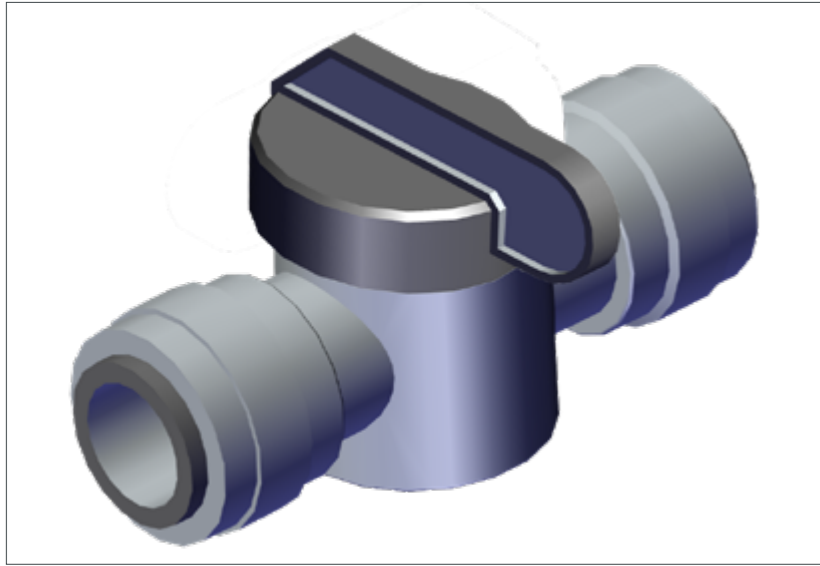


**Step 19:** Adjust the LS Pump Control Speed Indicator Dial to increase or decrease Pump dispersion rate / output speed.

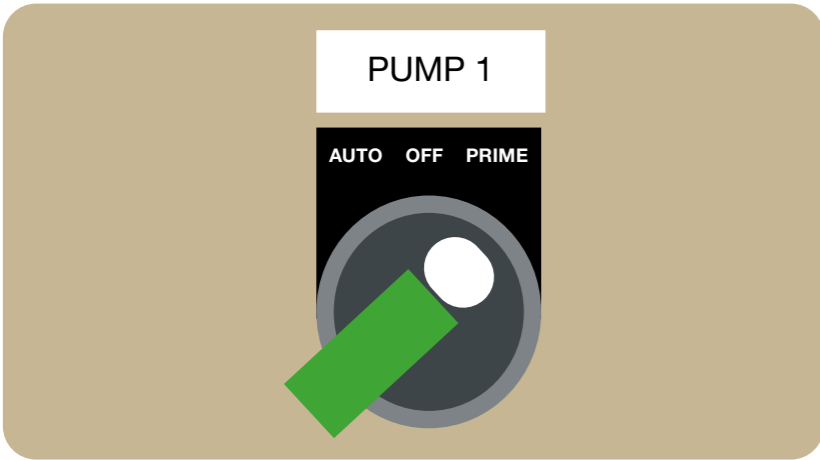
- Once the desired rate is achieved, move the lever on the bottom of the indicator **LEFT** to lock the Pump speed.
- Move the lever on the bottom of the indicator **RIGHT** to unlock and reset the Pump speed.
- Repeat calibration process for each Supply Tank used (1-4) until desired calibration results are achieved.

Continued ➞

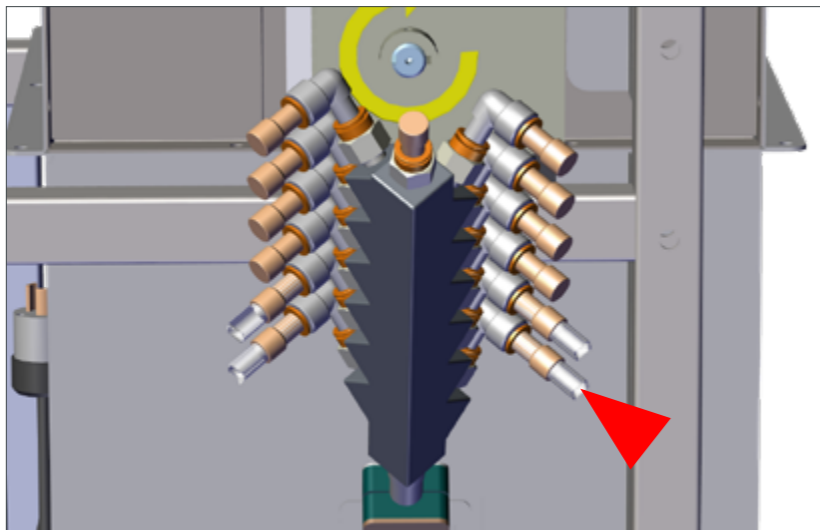




**Step 20:** CLOSE the Calibration Drain Valve.



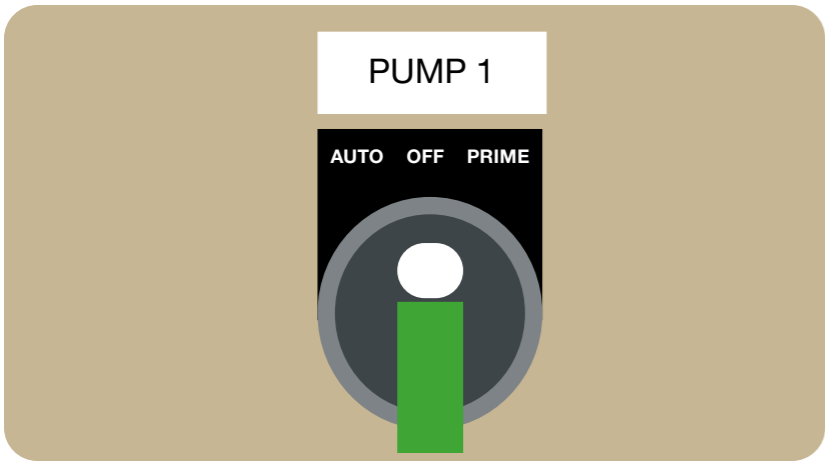
**Step 21:** Turn PUMP #1 Switch to **PRIME**.



**Step 22:** The Pump will run, purging the treatment lines of air and send chemical to the Treater Chemical Inlet Assembly.

Continued ➡





**Step 23:** Turn **OFF** PUMP #1 Switch.

- Repeat for all Pumps used (1-4).

**This completes the Pump Calibration.**







# DRUM OPERATION

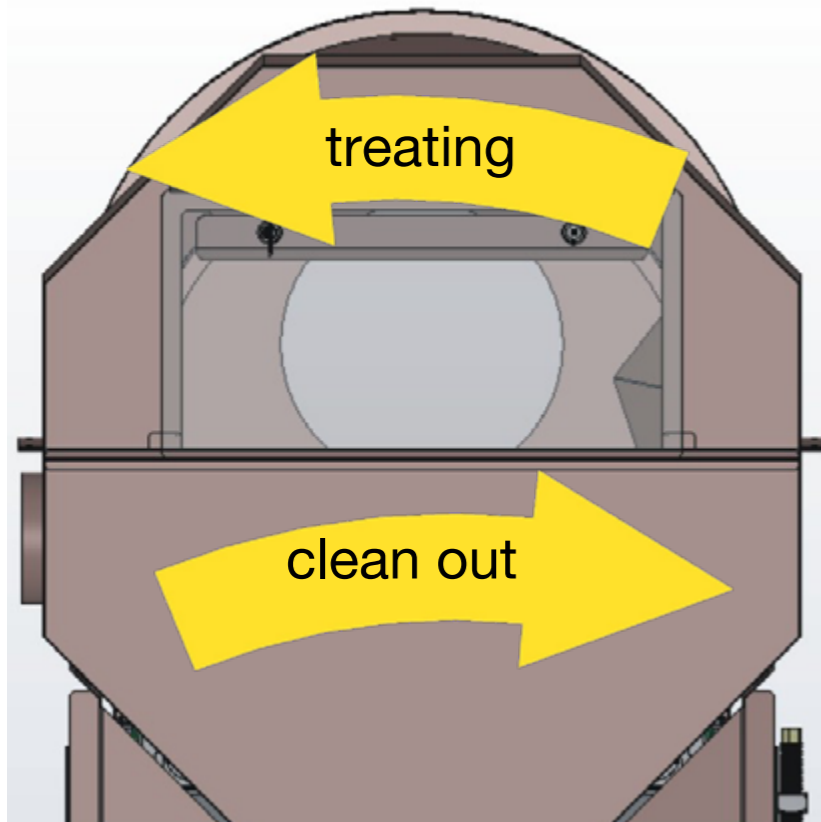


Note: the drum is programmed from the factory to run in forward rotation for treating. While looking at the discharge end of the drum, treating mode runs in counterclockwise rotation!

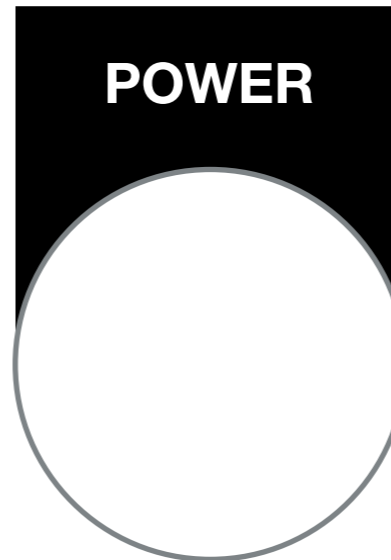
Clean out mode runs in clockwise rotation.



**Warning! Pinch point - keep guards in place at all times while the drum is running!**



Discharge end of Drum



## Drum Clean out

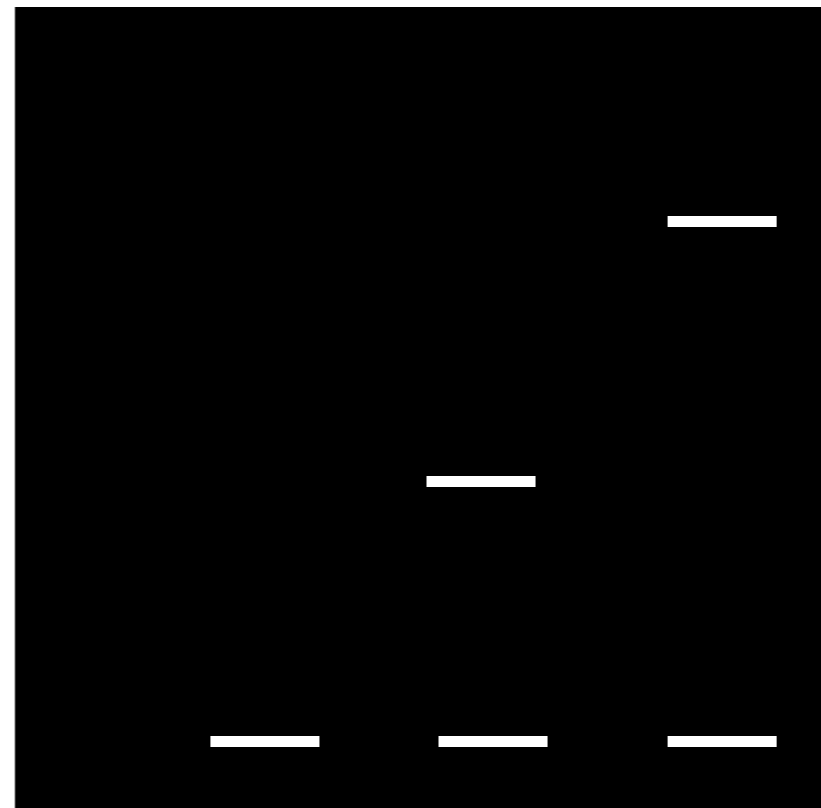
**Step 1:** Ensure the Main Power Switch handle is in the **ON (DOWN)** position.

- The Power light will also indicate that the power is **ON** when lit.
- The Drum will begin to rotate forward!

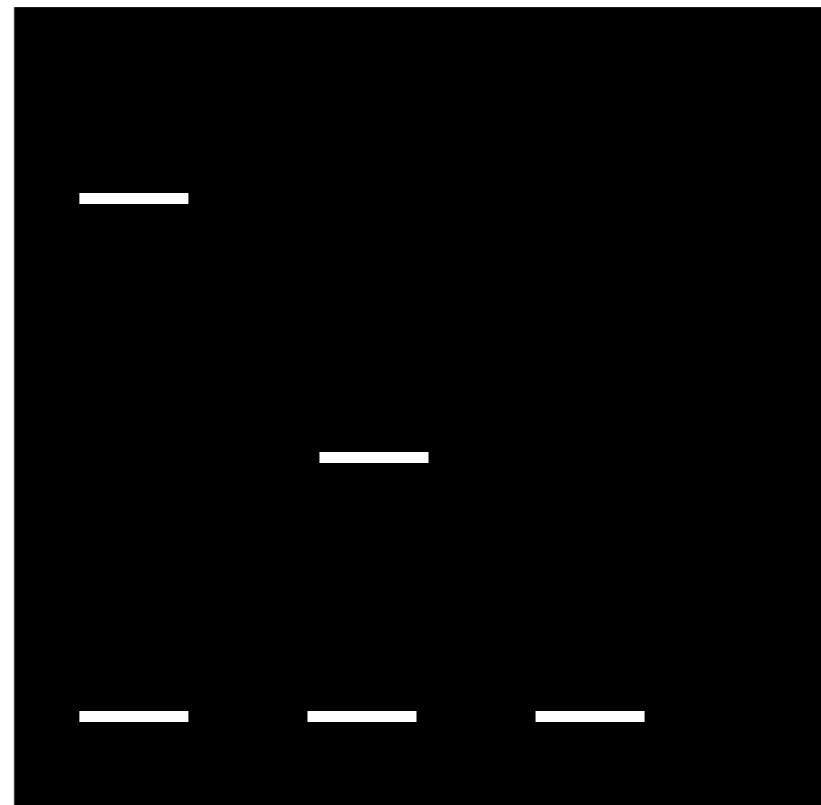
Continued ➡



# DRUM SPEED



Symbol for REVERSE



Symbol for FORWARD

**Step 2:** On the Drum VFD Touch Pad, press the red **STOP** key.

**Step 3:** Press the **R-F** key.

- The symbol for Reverse, as shown left, will appear and blink on the display screen...

**Step 4:** **WITHIN FOUR SECONDS** press the **M** key to confirm the rotation change.

**Step 5:** Press the green **RUN** key. The drum will run in reverse for clean out.

**Step 6:** When drum is finished with clean out, Press the red **STOP** key.

**Step 7:** Press the **R-F** key.

- The symbol for Forward will appear and blink on the display screen, as shown left...

**Step 8:** **WITHIN FOUR SECONDS** press the **M** key to confirm the Drum rotation change.

**Step 9:** Press the green **RUN** key. The drum will run in forward rotation again for treating.

**This completes the Drum Operation.**





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