

Setting Up the Bioventus-Drucker Boost 4+ Flex Centrifuge

General Preparation

Please verify the Drucker Boost 4+ Flex Centrifuge has arrived in good condition. Inspect the shipping box for large dents or punctures that could damage the contents. If any significant damage is apparent, please image the damage and contact your Bioventus sales rep or Apex Biologix directly at orders@apexbiologix.com and include a detailed description with all images.

This setup guide covers all versions of Apex/Drucker Boost 4+ machines.

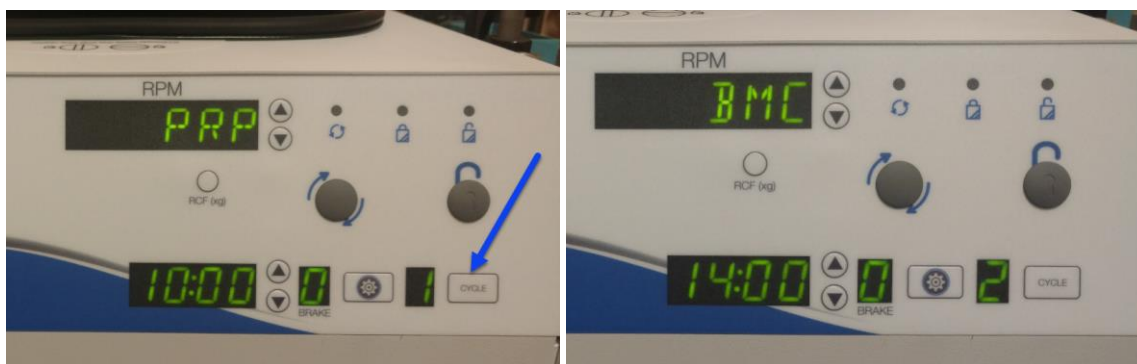
Configuring the Centrifuge

1. Place the centrifuge on, clean, sturdy table or bench preferably in the procedure room. If the centrifuge “walks” or shakes the table/bench during operation, a new location should be selected.

Do not place the centrifuge on lightweight rolling carts or wheeled tables.

Use only Drucker brand buckets in this centrifuge.

2. The centrifuge is shipped factory-cleaned. However, please follow the cleaning procedures in user manual provided, before the first use.
3. After preparing the sample according to the appropriate IFU, select the cycle for the sample by pressing the Cycle button until the correct name appears on the display (see blue arrow below):



4. The RPM/RCF setting is displayed on the center-top of the screen. Toggle the units from RPM to RCF by pressing the RCF(xg) button (see blue arrow below). While either RPM or RCF is acceptable, the more common and Apex-recommended setting is RPM.



5. The Drucker Boost4+Flex platform is a 4-positon, 4-bucket configuration. Regardless of running two sample/counterbalance or four, all four buckets should remain in the rotor pockets at all times, as seen below:



6. The Drucker Boost 4+ Flex is now configured and is ready for use.

Example setting: 10 Minutes at 3500rpm or 2300rcf (see image 4 and 5)



Loading Samples (Rev B, C and AQP4 models)

1. All current models have a carbon fiber rotor and buckets, as see in the images below.
2. Prepare sample and counterbalance per the product-specific IFU.
3. With the lid open and place the sample and counterbalance in opposite facing buckets:

Use only Drucker brand buckets in this centrifuge. Do not mix Rev A and Rev B buckets.

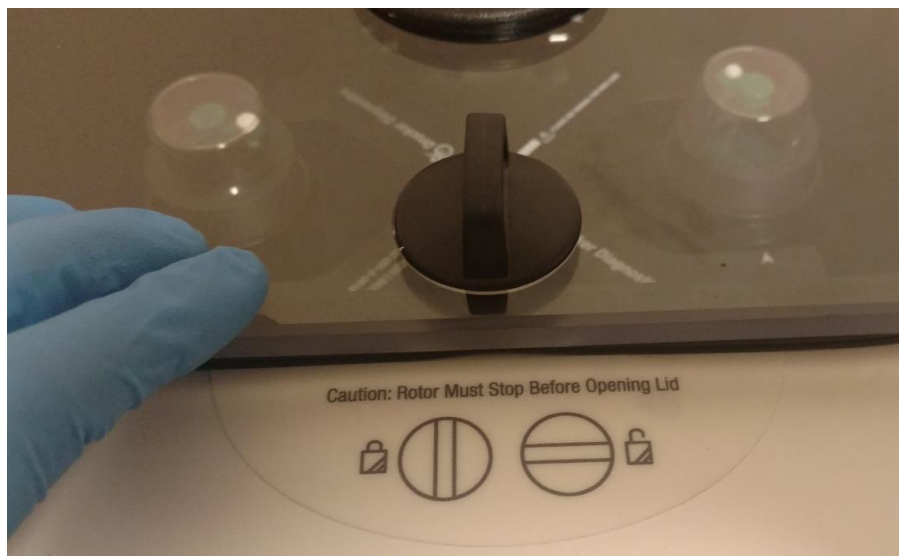
4. Install the XCELL inserts (provided), with the narrow collar up and before inserting the Concentrating Device:



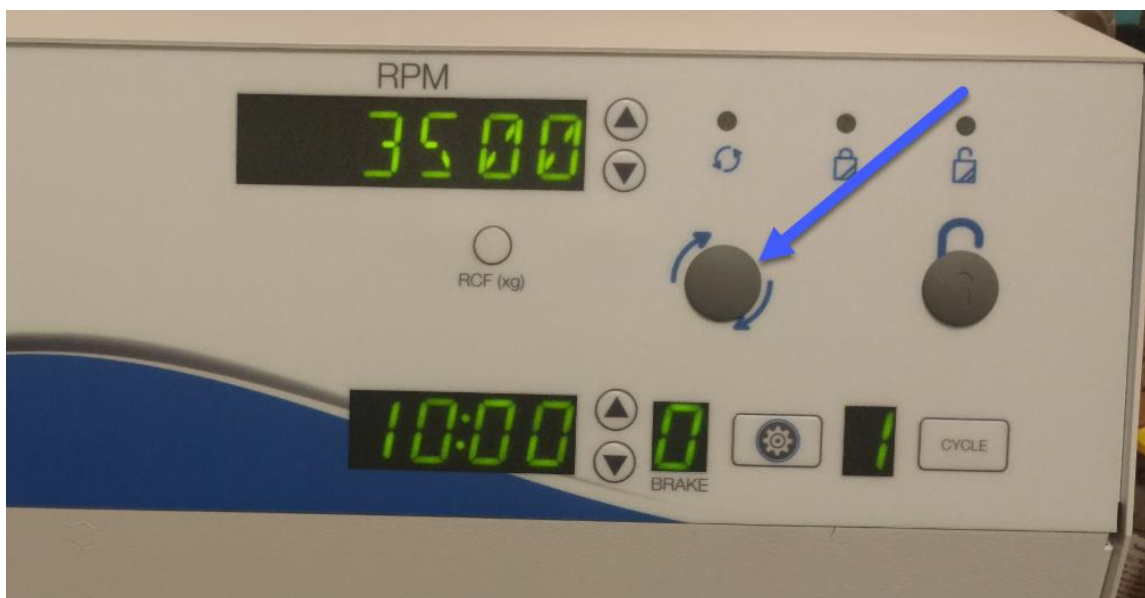
5. Insert the XCELL Concentrating Device.



6. Close the lid and secure the lock by rotating clockwise to the vertical position as seen below.



7. Select the desired Cycle, then press the Cycle Start Button.



8. When the cycle is complete a tone will sound. Press the unlock button and open the lid. It is advisable to remove the Apex insert first, then remove the sample

Manually Setting and Editing a Cycle (free mode)

Custom cycles, within the machines range, may be set any time the power is on.

Simply press the up/down arrow keys for RPM and Time to set. **Do not set the Braking function to any value other than 0.**

Prepare the sample and counterbalance as described above, load, and start the cycle.

To return to a pre-programmed cycle, press the Cycle button until the desired protocol is displayed.

To save settings as a new cycle, hold down the Cycle button until a double-beep is heard.

To edit an existing cycle, review instructions in the User Manual or refer to these video instructions:

- To edit existing cycle parameters, [click here](#)
- To exit existing cycle name, [click here](#)

General Maintenance

Please refer to the Care and Preventative Maintenance section 10 of the provided Apex/Drucker User Manual. If you have lost the manual, please contact your sales rep or orders@apexbiologix.com for a replacement PDF.

Troubleshooting

Please refer to the Troubleshooting section 11 of the Drucker “Apex Biologix XCell Operators Manual.pdf”. Additionally:

1. Issue- the buckets do not fit correctly on the rotor and/or the buckets “fall” into the tub when installed on the rotor.
 - a. Solution- you have mixed Rev A and Rev B series buckets and rotors. Associate large-diameter bucket pivots with large-diameter rotor pivots.
2. Issue- The centrifuge shakes or vibrates from ~800-1200rpm on acceleration and/or deceleration.
 - a. Solution- This is a normal part of the machines auto-balancing mechanism and is not a concern.
3. Issue- The centrifuge “walks” or moves on the bench when in operation.

- a. Solution- either the bench is unstable or surface is unsuitable for the machines feet to gain purchase. Relocate the machine to a more stable location.
4. Issue- Samples periodically appears excessively red and wispy. (aka re-mixed).
 - a. Solution- verify sample and counterbalance are within +/-1 g of each other.
 - b. Solution- make sure the Braking function is set to 0 on the display.
 - c. Solution- Make sure tubes are not contacting the Rotor.
5. Issue- On acceleration and deceleration, the machine knocks slightly and shakes.
 - a. Solution – Your machine is an AQP4 version. Verify that you have 4x buckets installed in the rotor. Correct and re-run the sample.

Cleaning

Note: Do not autoclave the Apex custom inserts. Clean with 70% IPA.

Please refer to the Care and Preventative Maintenance section 10 of the provided Apex/Drucker User Manual. If you have lost the manual, please contact your sales rep or orders@apexbiologix.com for a replacement PDF.

Warranty & Cautions

The manufacturer, Apex Biologix/Drucker Diagnostics, warrants that the centrifuge (Apex PN DRK-CNTFG-01, -02, -03, -04 and -05) are free from defects in materials and workmanship under normal and proper use for two (2) years from the date of purchase. Apex will exchange or repair (at Apex discretion) any centrifuge found to be defective during the two (2) year period specified.

This warranty will be considered void if, in Apex's opinion, defects or damage has been caused by neglect, misuse, improper storage or improper cleaning. If voided, the user is responsible for repair or replacement costs.

Damage resulting from running the machine in an out-of-balance condition (outside +/-1. g sample-to-counterbalance ratio) is non-warranty.

Damage resulting from running the machine in a non-specified rotor/bucket configuration is non-warranty.

This equipment is intended to be operated by properly trained personnel who have read all applicable training materials related to the equipment and are familiar with its functions. Operation of the equipment by untrained or unfamiliar personal may create a safety hazard and/or warranty violation.

If additional information or clarification is needed, please contact your Bioventus sales rep or Apex Biologix directly at orders@apexbiologix.com or 844-897-4910.

HORIZON

24 Flex

Operator's Manual

XCELL

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Symbols

Symbol	Definition	Use
	Caution	Caution to safety hazard. Potential risk of personal injury or damage to the instrument if improperly handled. Consult the manual before proceeding.
	Manufacturer	Manufacturer of record.
	Electrical and electronic products recycling symbol	Recycle only as electronic waste. Do not dispose in normal waste.
RoHS Compliant	RoHS Compliant	Compliance with RoHS environmental standards.
	CE Mark	Denotes conformity to specific European directives and regulations.
	MET Listing	Denotes conformity to specific safety standards and regulations.
FDA LISTED	FDA Listed	Denotes that the product has been properly listed with the FDA.
ISO13485 certified	ISO Certification	Denotes conformity to quality standards and quality management systems.

MODEL DESCRIPTION

Satisfy your lab's most diverse processing requirements with the HORIZON 24 Flex. Customize settings and check every detail on the digital display. Choose from 2 presets or program up to 8 custom cycles to produce high quality PRP samples.

This general-purpose laboratory centrifuge may also be used to spin approved containers with biologics, chemicals (non-flammable, non-explosive, non-volatile, and non-highly reactive), and environmental samples.

FEATURES

- A time and speed/g-force can be quickly entered for a single use cycle. The cycle will not be retained in memory.
- If desired, the control panel can be temporarily locked on one cycle, ideal for standardization to a single spin.
- A Preset Lock can be turned on to prevent changes from being made accidentally to programmed cycles.
- Up to 10 cycles can be programmed for time, speed, and braking and labeled with a custom name. Cycles can be programmed by g-force (RCF) or speed to facilitate matching validated cycles and tube manufacturers' IFUs.
- A digital cycle counter tracks the number of cycles the centrifuge has run.
- Lid lighting indicates the centrifuge's status (ready, running, done), informing the operator when tubes are ready for the analyzer and preventing tubes from being left in the centrifuge longer than necessary (patent pending).
- A traditional audible alert indicates the completion of the cycle. The audible alert can be muted.
- Cool-Flow design prevents overheating of samples by using ambient air to keep specimens at room temperature.
- The tube holders are fiber reinforced for high strength, durability, and years of trouble-free use.
- A clear lid permits safe observation of samples and optical calibration of speed.
- The lid safety system prevents the centrifuge from operating unless the lid is closed and latched.
- The lid safety system only allows entry into the centrifuge after the rotor has completely stopped.
- The high-power brushless motor provides years of operation with no routine maintenance.

INTENDED USE

General purpose laboratory centrifuge, intended for the density-based separation of fluids through centripetal acceleration.

WARRANTY

Drucker Diagnostics warrants that this centrifuge is free from defects in workmanship and parts for 2 years.

CAUTION AND WARNING STATEMENTS

- ⚠ This device is intended to be operated by properly trained personnel who have carefully read the operating manual and are familiar with the function of the device. [Refer to the clinical laboratory method specified by the specimen receptacle manufacturer or established by the medical technology for the products applications.]
- ⚠ **WARNING:** For the safety of both the operator and service personnel, care should be taken when using this centrifuge if handling substances that are known to be toxic, radioactive, or contaminated with pathogenic microorganisms. Use appropriate personal protection equipment (PPE). When Risk Group II materials are used, (as identified in the World Health Organization “Laboratory Bio-Safety Manual”), a Bio-Seal should be employed. In the event that materials of a higher risk group are being used, more than one level of protection must be provided. The use of flammable or explosive materials as well as those materials which have a vigorous chemical reaction is prohibited.
- ⚠ Unplug the centrifuge before cleaning or performing maintenance.
- ⚠ **WARNING:** Inspect centrifuge for cracks or physical damage to cabinet, lid, rotor, or tube holders. Damage may result in unsafe operation. Discontinue use until repairs have been performed.
- ⚠ This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with this operator manual, may cause interference to radio communications.
- ⚠ Operation of this equipment in a residential area may cause interference, in which case the user will be required to correct the interference at his own expense.
- ⚠ **WARNING:** Only use Drucker Diagnostics components in this centrifuge.
- ⚠ Due to the lack of the possibility of human exposure, all Drucker centrifuges and accessories sold by Drucker Diagnostics, Inc. are compliant without any special labeling required by the California Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

INITIAL SETUP

- Unpack and verify that all the following are included:
 - Centrifuge
 - Power cord
 - Buckets
 - Quick Start Guide
- Setup the centrifuge on flat and level surface. A bench top clearance height of 21" (54 cm) is required to open the lid.
- The centrifuge should have 6" (15 cm) of clear space around the centrifuge. Proper ventilation is necessary to prevent the overheating of samples as well as premature failure of the centrifuge. Choose an area which allows unencumbered air flow, and where the temperature remains between 16°C and 32°C.
- No hazardous material shall be permitted in the clearance envelope during operation.
- The operator time within the envelope shall be limited to the time necessary for loading, unloading, and centrifuge operation only.
- Plug the line cord into the centrifuge.
- Plug the line cord into an approved electrical outlet.

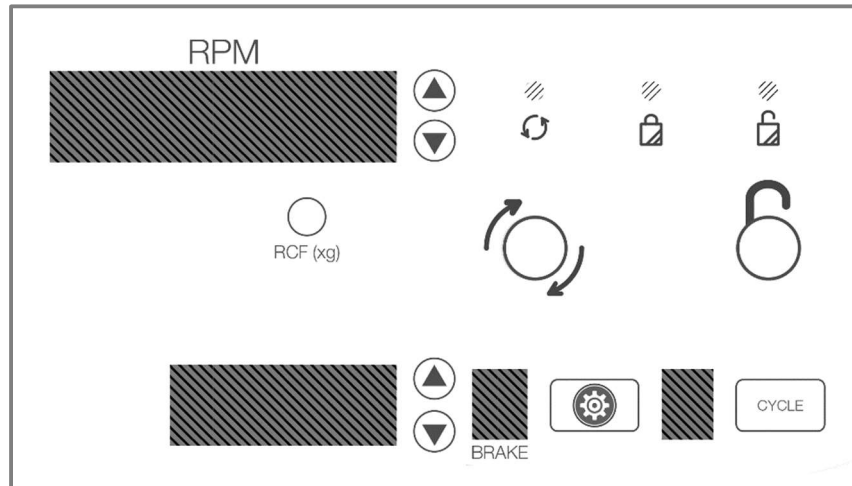
 **BE SURE THE ELECTRICAL OUTLET IS ALWAYS ACCESSIBLE AS THE LINE CORD IS THE MEANS OF EMERGENCY DISCONNECTION!**

OPERATION

- Place the tubes into the buckets with the appropriate inserts. Be sure to follow the rules for balanced loads as listed in the next section.
- Close the lid and turn the lid knob clockwise to its complete stop position.
- The digital screen shows the currently selected cycle. To select another cycle, press the UP or DOWN button in succession until the desired cycle is selected.
- Pushing the START button on the control panel will start the spin cycle.
- When the cycle is completed, the rotor will slow to a complete stop and the lid light will flash.
- The unlocking mechanism will engage for 60 seconds allowing entry into the rotor chamber. To unlock after more than 60 seconds have elapsed, press the UNLOCK button. The lid will unlock for another 15 seconds.
- Turn the lid knob counterclockwise and open the lid. The lid light will turn off.
- You may now safely remove the samples.

QUICK START

The top screen display alternates between the name of the currently selected speed. The bottom screen displays the time setting.



	Start	Begins running the cycle displayed on the screen. The lid must be closed.
	Unlock	Allows access into the rotor chamber by engaging the unlocking mechanism. Entry is only possible when the rotor is stopped.
	Stop	Pressing the UNLOCK button during operation will terminate the run and unlock the lid after the rotor has come to a stop.
	Cycle Selection	Press the CYCLE button to select the desired saved cycle.

SETTINGS

QUICK ADJUST TIME AND SPEED

Change time, speed (RPM) or g-force (RCF) for a single cycle.

	Setting Speed	To change the speed (RPM) shown on the top display, use the up and down buttons next to that screen. The CYCLE number is replaced with a "--" in the display, and the top screen displays the speed.
	Setting by G-Force	Press and hold the RCF (xg) button while changing the displayed setting on the top screen, using the up and down buttons next to it. The RPM will automatically adjust.
	Setting Time	Press the up and down buttons next to the TIME display.

ADJUSTING THE BRAKE SETTING

	Enter the Advanced Menu	Press the GEAR button to enter the advanced menu.
	Change Brake Values	While in the advanced menu, navigate to "Brake". Use the UP and DOWN buttons next to the TIME screen to adjust brake to desired value between 0 (no brake applied) and 9 (maximum braking force applied).
	Save and Exit Settings Mode	Press the GEAR button, followed by the CYCLE button to exit the menu.

CHANGING THE BEEPER (AUDIBLE ALERT)

	Access the Menu	With desired cycle selected. To access the menu, hold the CYCLE button until you hear a double beep. The cycle number will begin to flash.
	Turn Beeper On or Off	While in the advanced menu, navigate to “Beeper”. Switch ON or OFF with the UP and DOWN buttons next to the TIME display. This setting will apply to all cycles.
 	Save and Exit Settings Mode	Press the GEAR button, followed by the CYCLE button to exit the menu.

CREATE NEW CYCLE

	Change Settings	Refer to previous table (Quick Adjust Time and Speed) to change speed and time to desired values.
	Save Cycle	Hold the CYCLE button until you hear a double beep.

NAMING A CYCLE

	Access the Menu	With desired cycle selected. To access the menu, hold the CYCLE button until you hear a double beep. The cycle number will begin to flash.
	Enter the Advanced Menu	Press the GEAR button to enter the advanced menu.
	Rename a Cycle	While in the advanced menu, navigate to the cycle name with the UP and DOWN arrows. Press the START button. The * indicates the space selected. Use the UP and DOWN buttons to change characters, then move to the next space with the right arrow >.
 	Save and Exit Settings Mode	Press the GEAR button, followed by the CYCLE button to exit the menu.

MODIFYING A PRESET

Save up to 10 custom cycles. The top screen alternates between cycle name and speed.

	Access the Menu	With desired cycle selected, access the menu.
	Setting by G-Force (Recommended)	Press and hold the RCF (xg) button while changing the setting, using the UP and DOWN buttons next to the display. The RPM will automatically adjust.
	Setting Speed (Alternate)	To change the speed (RPM), use the UP and DOWN buttons next to the display. The g-force will adjust automatically and can be verified by pressing the RCF button.
	Setting Time	Press the UP and DOWN buttons next to the TIME display.
	Enter the Advanced Menu	Press the GEAR button to enter the advanced menu.
	Change Brake Values	While in the advanced menu, navigate to "Brake". Use the UP and DOWN buttons next to the TIME screen to turn brake on and off.
	Turn Beeper On or Off	While in the advanced menu, navigate to "Beeper". Switch ON or OFF with the UP and DOWN buttons next to the TIME display. This setting will apply to all cycles.
	Naming the Cycle	While in the advanced menu, navigate to the cycle name with the UP and DOWN arrows. Press the START button. The * indicates the space selected. Use the UP and DOWN buttons to change characters, then move to the next space with the right arrow >. Press the GEAR button to return to the main programming menu.
	Save and Exit Settings Mode	Press the GEAR button, followed by the CYCLE button to exit the menu.

DELETING A CYCLE

	Access the Menu	With desired cycle selected. To access the menu, hold the CYCLE button until you hear a double beep. The cycle number will begin to flash.
	Enter the Advanced Menu	Press the GEAR button to enter the advanced menu.
	Navigate to Delete	Using the UP and DOWN buttons, navigate to DELETE. Exit the menu. WARNING: CYCLE WILL BE DELETED IF MENU IS EXITED WITH DELETE SELECTED
	Confirm Deletion	Press the CYCLE button to Delete the cycle

DISPLAY CYCLE COUNT

	Display Cycle Count	With the lid open and the unit powered, press and hold the START button. The cycle count will be displayed until the START button is released.
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CYCLE LOCK

To ensure repeatability, the centrifuge can be locked either on one cycle (Single Cycle Lock) or restricted to the saved cycles (Preset Lock). The Single Cycle Lock also prevents making changes to the selected cycle parameters. The Preset Lock allows selection of any saved cycle and prevents changing the parameters of saved cycles.

	Presets Only Mode	With the lid open, press and hold the UNLOCK button to enter Preset Lock. One beep will confirm that cycle selection is now locked. Select desired cycle. NOTE: If Single Cycle Lock is set, it must be canceled before Presets Only Mode can be set.
	Single Cycle Lock	With the lid open, select the cycle you wish to lock, press, and hold the UNLOCK button. Two beeps will confirm that cycle selection is locked.
	Cancel Lock	Hold the UNLOCK button. Three beeps will confirm that the cycle selection is now unlocked.

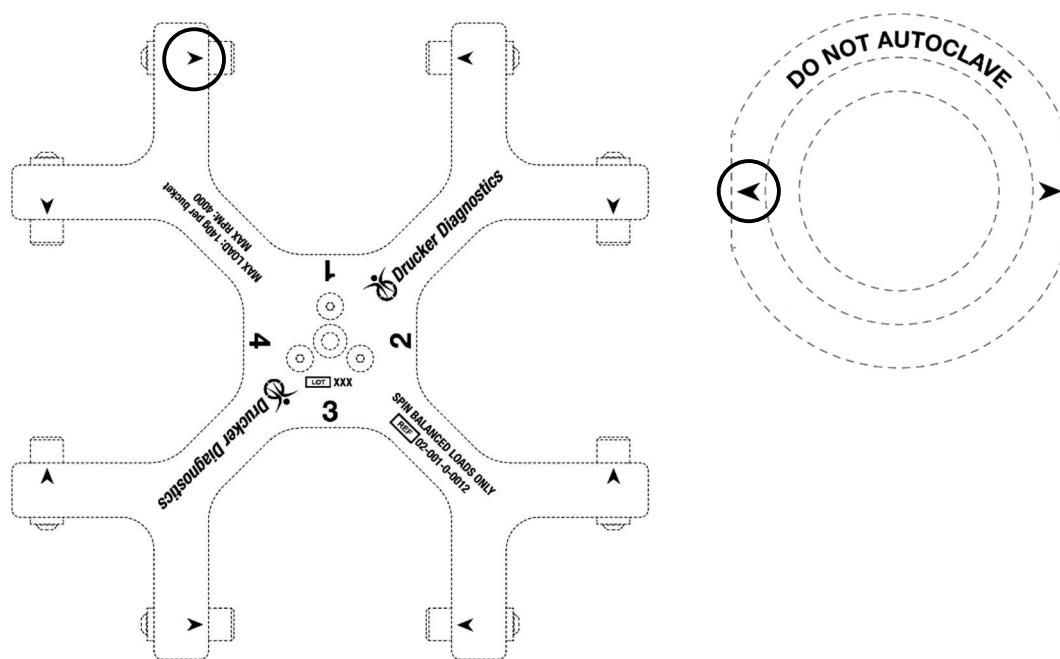
SETTINGS

	RPM	Time	G-Force
PRP 60	3,500	10 minutes	2,300 xg
BMC 60	3,900	14 minutes	2,850 xg

LOADING

BUCKET ALIGNMENT

To ensure proper operation, align buckets and rotor at the arrow points circled below.

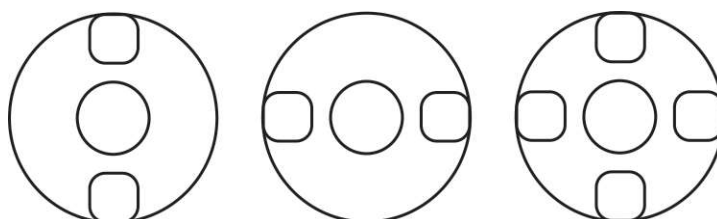


BALANCING LOADS



Your centrifuge must contain a balanced load to work properly. Spinning balanced loads will extend the life of the centrifuge and produce better results. Use the following rules when loading the rotor. If an odd number of samples is to be spun, fill a tube with water to match the weight of the unpaired sample and place it across from this sample.

Opposing buckets must be equally loaded or empty or loaded with equally weighted samples.



CARE AND PREVENTATIVE MAINTENANCE

With proper care and maintenance, your centrifuge will provide years of laboratory service. For proper care, the following steps should be taken:

- **Always Spin Balanced Loads:** Make certain that you are always spinning a balanced load, as shown in the previous section. These centrifuges have a unique counter balanced motor mounting design which produces excellent vibration dampening. However, out-of-balance loads may break glass test tubes and may produce unsatisfactory separation results. Proper load balancing will improve sample separation and extend the life of the centrifuge.
- **Motor and Electrical Maintenance:** The highest quality electrical components have been selected for the centrifuges and should not need maintenance or servicing for the life of the centrifuge.
- **Tube Holder Replacement:** It is recommended that the tube holders be replaced after 24 months of use. Inspect tube holders regularly for cracks. If cracks are discovered, replace immediately.
- **Remove Accessories Before Moving:** All tube holders, samples, and caps must be removed from the rotor chamber before transporting or storing the centrifuge to prevent damage and injury.

CLEANING AND DISINFECTION

To prolong the life of the centrifuge, cleaning and disinfection is recommended every six months or whenever there is a spillage or tube breakage. Contaminants must be removed immediately, or corrosion and premature degradation of components can occur. Before using any cleaning or decontamination methods other than those recommended by the manufacturer, users should verify with the manufacturer that the proposed method will not damage the equipment.

- Unplug the centrifuge before cleaning.
- Use appropriate personal protective equipment (PPE).
- Apply cleaning solutions with a towel or cloth. Do not submerge the centrifuge in water or other cleaning solutions as this will cause damage and void the warranty.
- ONLY isopropyl alcohol or a 10% (5500 PPM) bleach solution should be used to disinfect the centrifuge and its accessories.
- All surfaces must be dried immediately after cleaning and disinfecting.



TBQ GERMICIDAL PRODUCTS ARE NOT RECOMMENDED AS THEY MAY CAUSE DAMAGE TO THE CENTRIFUGE. REFRAIN FROM USING TO PREVENT VOIDING THE WARRANTY.

- Fully/partially halogenated hydrocarbons, ketones, esters, ethers, benzyls, ethyl benzenes, and all other chemicals not prescribed by the manufacturer shall not be used as they may cause damage to the rotor chamber, rotor, tube holders, accessories and centrifuge exterior and void the warranty.

TROUBLESHOOTING

NOTE: The latch must be turned completely clockwise to its stop position for the centrifuge to operate.

The centrifuge does not run	○ Verify that the centrifuge is powered. One of the LED lights should be on. ○ If “Lid not closed” message is displayed, make sure the lid latch is turned completely clockwise to its stop position. ○ If the centrifuge still does not run, contact Customer Service.
The rotor does not spin freely	○ Make sure nothing has fallen into the rotor chamber, following the procedure above. ○ If nothing obstructs the rotor, the rotor may be damaged. Contact Customer Service for further assistance.
The centrifuge makes a rattling noise when running	○ Stop the centrifuge. Open the lid. ○ Wearing PPE, remove tubes and tube holders/buckets and look for fallen objects or debris. Carefully reach inside the rotor chamber with a tool to remove them. ○ Inspect the rotor, tube holders or buckets for damage. ○ If the tube holders or buckets have any damage, even slight, safely dispose of them and replace them. ○ If the rotor appears damaged, contact Customer Service for further assistance.
Excessive noise or vibration when the centrifuge is running	○ Verify that all four centrifuge feet are properly seated on a flat surface. ○ Ensure that the load is balanced according to instructions in the “Balancing Loads” section of this manual. ○ Make sure that nothing has fallen into the rotor chamber.
“Abort” is displayed on the top screen	The centrifugation cycle has been interrupted.
The centrifuge stops and beeps continuously	The load is not balanced. Press the UNLOCK button, open the lid, and balance the load as recommended elsewhere in this manual.
The centrifuge is stuck on one of the settings	Cycle selection is locked. Press the UNLOCK button for 5 seconds.
Only a few cycles can be accessed	The Preset Lock is active. To deactivate it, press the UNLOCK button for 5 seconds, until you hear 2 beeps, then again until the next 2 beeps. All cycles can now be accessed and/or amended.
The cycle time and speed are not set to the desired value	Check the setting by following the instructions in the section on Setting or Modifying a Saved Cycle. If the preset is not the desired length, follow the procedure on the same page to change the preset time.

Cycle parameters cannot be changed	○ If cycle selection is locked on one cycle, press the UNLOCK button for 5 seconds. Then, press the GEAR button and follow the instructions elsewhere in this manual. ○ If different saved cycles can be selected but not modified, the centrifuge is in Preset Lock mode. Press the UNLOCK button for 5 seconds until two beeps are heard, then again until the next two beeps. You should now be able to change cycle parameters.
The centrifuge does not unlock after a run is completed	○ Wait until the rotor has come to a complete stop. If the lid knob still cannot be rotated, press the UNLOCK button and try again. ○ If no LED light is on, the unit is not powered, and the lid will not unlock by conventional means. Remove the latch label and use a pen to manually disengage the locking mechanism. Pull the mechanism towards the control panel and then unlatch and open the lid. ○ If the unit is damaged, contact Customer Service for assistance.
The lid does not open	○ Ensure that the lid knob is turned fully counterclockwise. ○ If the knob cannot be turned counterclockwise, turn it fully clockwise, press UNLOCK, and turn counterclockwise. ○ If the lid remains locked after this and will not unlock, the electronics may have been damaged. Contact customer service for assistance.
Clicking noise during braking gets loud	○ Make sure that the screw in the center of the rotor is tight.
Lid does not stay up	○ Tighten the center screw on the lid hinge.

GENERAL SPECIFICATIONS

The rotor and accessories are rated for the maximum rotation frequency shown in the table below.

Tube Capacity	4 tubes (140 mL) (Up to diameter of 4.6 cm / 1.81 in) (Up to length of 13.0 cm / 5.12 in)
Dimensions (H x W x D)	15 in x 17 in x 9 in (38 cm x 43 cm x 23 cm)
Weight	39 lbs. (17 kg)
Sound Level	75 dB A
Environmental Range	16 – 32° C
Voltage	95 -253 VAC
Frequency	50/60 Hz
Power Requirement	350 Watts
Centrifuge Motor	½ H.P. Brushless
Max Speed	4,000 RPM (+/- 100)
Max G-Force	3,000 xg
Max Carrier Load	140.0 grams
Cycle Time	.5 to 99 minutes (+/- 2%)

CALCULATING THE G-FORCE

The I.F.U.s of tube manufacturers recommend cycles at a minimum G-Force, which can be calculated if you know the RPM and the radius. Use the formula below or go to www.druckerdiagnostics.com/g-force-calculator/.

In Centimeters:
$$\text{RCF or G-force} = 0.00001118 \times \text{Rotor Radius (cm)} \times (\text{RPM})^2$$

In Inches:
$$\text{RCF or G-force} = 0.0000284 \times \text{Rotor Radius (in)} \times (\text{RPM})^2$$

Radius 6.6 in (16.7 cm)

Product Family: HORIZON Series (HORIZON 24 Flex)

Complies with UL61010-1/CSA C22.2 No. 61010-1 and IEC61010-2-020

Protected by U.S. Patents #6,811,531, # 7,422,554, #D718,463, & #D734,489. Other Patents Pending

FDA LISTED



RoHS
Compliant

INSTRUCTIONS FOR DISPOSAL OF WEEE BY USERS IN THE EUROPEAN UNION



This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste disposal service, or where you purchased the product.



Drucker Diagnostics

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