

TRUEBOND

Veterinary Centrifuge

Operator's Manual








FOR VETERINARY USE ONLY



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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.
	CE Mark	Denotes conformity to specific European directives and regulations.
	UK Mark	Denotes conformity to specific UK directives and regulations
	MET Listing	Denotes conformity to specific safety standards and regulations.
	ISO Certification	Denotes conformity to quality standards and quality management systems.
FOR VETERINARY USE ONLY	For Veterinary Use Only	For Veterinary Diagnostic Use only, not for use for humans.

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. Users should also comply with the specimen receptacle manufacturer's specific instructions for use, in addition to any other protocols established by the testing organization.



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.



The use of flammable or explosive materials as well as those materials which have a vigorous chemical reaction is prohibited.



For your safety and durability of the machine, never transport or store centrifuge with tube holders inside the machine.



WARNING: "Universal precautions"¹ should be followed in handling all items contaminated with blood or other bodily fluids.



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.



Operation of this equipment in a manner not specified by the manufacturer may impair the protection provided by the equipment.



Electrical Safety protection is provided by properly connecting the centrifuge to earth ground. Use only the manufacturer provided line cord and ensure that it is connected to a properly grounded power receptacle. Failure to do so will result in an electrical hazard.



WARNING: Do not make modifications to or remove any hardware from rotor without prior authorization from Drucker Diagnostics.



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).



Important Operating Instructions: This model centrifuge requires at least 2 tube holders inserted when attempting to run. Running the centrifuge with an empty rotor will cause a motor error and will require a power cycle to fully reset (see Troubleshooting section on page 12).

1 Recommendations for Prevention of HIV Transmission in Health Care Settings. MMWR 1987; 36 (Supplement #2S)

MODEL DESCRIPTION

TrueBond is a versatile centrifuge designed with 4 settings to process Serum, Urine, Fecal, and Microhematocrit specimens in the same unit. The maximum g-force of 1,850 xg makes TrueBond suitable for a wide variety of applications. Cycle settings can be changed to accommodate custom settings.

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

- The first four (4) cycles are conveniently pre-set and labeled for your most common applications. Use the default cycles or customize them as needed.
- Included microhematocrit inserts and quick-swap tube holders make it easy to spin all your samples in one centrifuge.
- If desired, the control panel can be temporarily locked on one cycle for error-free reproducibility and standardization to a single spin.
- 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) rather than speed to facilitate matching validated cycles and manufacturer IFUs.
- 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

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

WARRANTY

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

HOW TO VIDEO LINKS

To access our How To Video, please click the relevant link below:

[TrueBond](#)

INITIAL SETUP

- Unpack and verify that all the following are included:
 - Centrifuge
 - Power cord
 - Quick Start Guide
 - Tube holders
 - 75-100mm Blue Tube Holder, Pack of 6
 - 125mm Orange Tube Holder, Pack of 6
 - Microhematocrit Inserts, Pack of 2
 - Pediatric Tube Adapters
 - 1 to 1.5 ML, Pack of 6
 - Veterinary Microhematocrit Card Reader
- 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.
- Turn on the power switch in the back of the centrifuge.

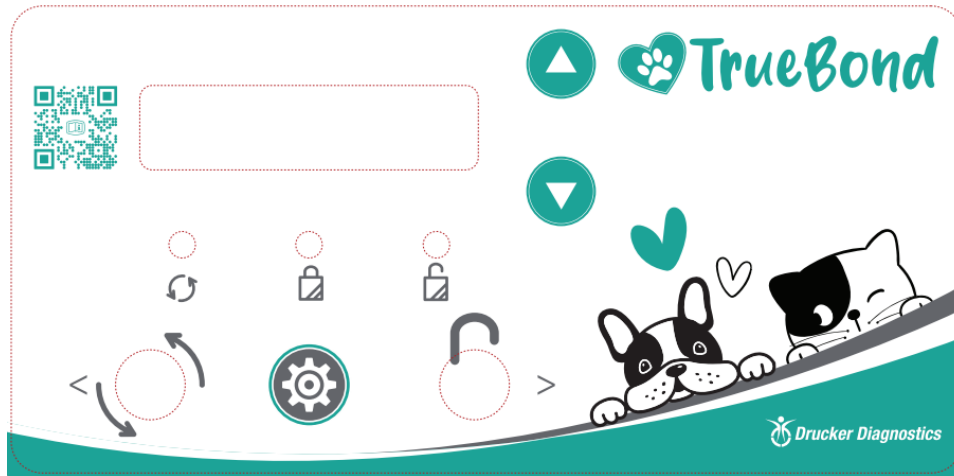


BE SURE THE ELECTRICAL OUTLET IS ALWAYS ACCESSIBLE AS THE LINE CORD IS THE MEANS OF EMERGENCY DISCONNECTION!

QUICK START

The screen display alternates between the name of the currently selected cycle and its parameters. For convenience, the first four (4) cycles are preset for common applications and can be reprogrammed to your validated cycles:



Serum Separation	This setting is factory preset for 3900 RPMs (1650xg) for 10 mins using Blue Tube Holder
Urine Sediment	This setting is factory preset for 2000 RPMs (500xg) for 5 mins using the Orange Tube Holder
Veterinary Fecal	This setting is factory preset for 1600 RPMs (300xg) for 5 mins using the Blue Tube Holder
Microhematocrit	This setting is factory preset for 3800 RPMs (1550xg) for 6 mins using the Blue Tube Holder






	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 up and down buttons next to the screen to select the desired saved cycle.

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




SINGLE CYCLE LOCK

	Lock on Single Cycle	Select desired cycle. Press and hold the UNLOCK button for 5 seconds. Two beeps will confirm that cycle selection is locked.
	Cancel Single Cycle Lock	To re-enable cycle selection, press and hold the UNLOCK button for 5 seconds. Three beeps will confirm that cycle selection is now unlocked.

PRESET LOCK








	Enter Settings Mode	Press the GEAR button.
	Lock Saved Cycles	Press and hold the UNLOCK button for 5 seconds. Two beeps will confirm that the Preset Lock is active.
	Cancel Preset Lock	With lid open and while not in Settings mode, press and hold the UNLOCK button for 5 seconds until two beeps are heard. Saved cycles can again be edited or programmed.

DISPLAY CYCLE COUNT

	Enter Settings Mode	With the lid open and the unit powered on, press the GEAR button.
	Display Cycle Count	Press the START button to access the cycle counter.
	Exit Settings Mode	Press the GEAR button.

SETTING OR MODIFYING A CYCLE



Up to 10 cycles can be named, programmed for time, speed, and braking, and saved in memory.

	Cycle Selection	Press the up and down buttons next to the screen to select the desired cycle.
	Enter Programming Mode	Press the GEAR button.
	Navigate between Parameters	Use the left and right arrow button until the parameter to be edited is blinking and underlined.
	Change Parameter Values	To change the parameter shown on the display, use the up and down buttons next to the screen.
	Displaying the Correct g-force	To display the real g-force (RCF) for the cycle, the right tube holder must be selected. Universal blue tube holders accommodate 75 and 100 mm tubes. 125 mm tubes require the orange tube holder. If the tube holder selection in the program does not match the tube holder used, the RCF number displayed will not reflect the actual value.
	Naming the Cycle	Navigate to the cycle name with the left and right arrow. Change the blinking character of the name with the up and down buttons, then move to the next character with the right arrow. Repeat.
	Save and Exit Programming Mode	Press the GEAR button. The cycle displayed on the screen will be automatically saved.

PRESET CYCLES

	(1)	(2)	(3)	(4)
	Serum	Urine	Fecal	Crit
RPM	3900	2000	1600	3800
Time (mins)	10	5	5	6
G-Force (75-100mm - Blue)	1650	N/A	300	1550
G-Force (125mm – Orange)	N/A	500	N/A	N/A

RECOMMENDED SETTINGS

		Serum (BD Tube)	Serum (Greiner Tube)	Urine	Fecal	Microhematocrit	
	Blue Tube Holder 75 & 100mm Tubes	RPM	3900	N/A	2100	1600	3800
		Time (mins)	10	N/A	5	5	6
		G-Force	1650	N/A	500	300	1550
	Orange Tube Holder 125mm Tubes	RPM	3600	3900	2000	1500	3600
		Time (mins)	10	10	5	5	6
		G-Force	1600	1850	500	300	1600

****Refer to Tube Manufacturer IFU for centrifugation parameters.

OPERATION

- Select the appropriately sized tube holders for your samples and place them in the slots around the rotor. The tube holders do not snap or click into place.
- Place the tubes into the tube holders. If using the microhematocrit inserts and insert the curved tip of the microhematocrit carrier first. Each microhematocrit carrier holds up to four (4) microhematocrit tubes in numbered slots. Be sure to follow the rules for balanced loads as listed on page 10. There is no need to balance microhematocrit tubes within an individual microhematocrit carrier, but the carriers themselves must be balanced around the rotor as indicated on page 10.
- 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.



BALANCING LOADS

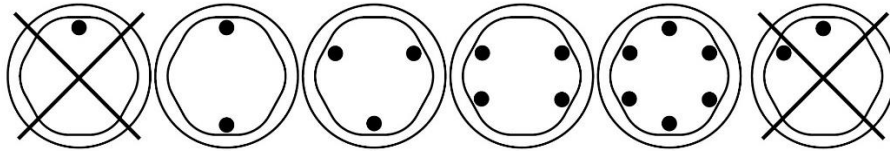


Your centrifuge must contain a balanced load to work properly. Spinning balanced loads will extend the life of the centrifuge and produce better results. Use the following rules when loading the rotor. If an odd number of samples is to be spun, fill a tube with water to match the weight of the unpaired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

Opposing tube holders must be equally loaded or empty or loaded with equally weighted samples.

When loading only 3 tubes, they must be of equal weight.

If spinning only one microhematocrit tube within an individual microhematocrit insert it is not necessary to balance due to their light weight, but both Microhematocrit inserts should always be across from each other.



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.



Cleaning and Decontamination may be necessary as a safeguard before laboratory centrifuges, rotors, and any accessories are maintained, repaired, or transferred.

- Unplug the centrifuge before cleaning.
- Use appropriate personal protective equipment (PPE).
- Apply cleaning solutions with a dampened towel or cloth ONLY. Do not spray or pour cleaning solution directly onto or into the centrifuge. Do not saturate or submerge the centrifuge in water or other cleaning solutions as this will cause damage, create a safety risk, 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.



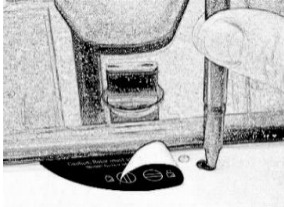
TBQ GERMICIDAL PRODUCTS ARE NOT RECOMMENDED AS THEY MAY CAUSE DAMAGE TO THE CENTRIFUGE. WIPE OFF THOROUGHLY AFTER USE TO PREVENT VOIDING THE WARRANTY.

- 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.

<p>The centrifuge does not run</p>	<ul style="list-style-type: none"> ○ Verify that the centrifuge is powered. The screen should be lit. ○ 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.
<p>The rotor does not spin freely</p>	<ul style="list-style-type: none"> ○ 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.
<p>The centrifuge makes a rattling noise when running</p>	<ul style="list-style-type: none"> ○ 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.
<p>Excessive noise or vibration when the centrifuge is running</p>	<ul style="list-style-type: none"> ○ 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.
<p>The centrifuge stops and beeps continuously</p>	<p>The load is not balanced. Press the UNLOCK button, open the lid, and balance the load as recommended elsewhere in this manual.</p> <p>Confirm that all tube holders are properly loaded into the Centrifuge rotor.</p>
<p>The centrifuge is showing Motor Error on the screen</p>	<p>Turn Off unit until all LEDs and Displays are fully out (about 10 seconds). Turn the unit back on. If the centrifuge is not fully power cycled after a motor error, the system will continue to fail for motor errors on subsequent runs. Make sure centrifuge rotor contains at least 2 samples tubes or empty tubes holders before running. If the error persists after power cycling and the rotor is not empty, contact Customer Service for further assistance.</p>
<p>The centrifuge is stuck on one of the settings</p>	<p>Cycle selection is locked. Press the UNLOCK button for 5 seconds.</p>

<p>The cycle time and speed are not set to the desired value</p>	<p>Check the setting by following the instructions in the section on Changing Cycle Settings. If the preset is not the desired length, follow the procedure on the same page to change the preset time.</p>
<p>Cycle parameters cannot be changed</p>	<ul style="list-style-type: none"> ○ 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 GEAR button, then the UNLOCK button for 5 seconds. You should now be able to change cycle parameters.
<p>The centrifuge does not unlock after a run is completed</p>	<ul style="list-style-type: none"> ○ 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. <ul style="list-style-type: none"> ○ 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. 
<p>The lid does not open</p>	<ul style="list-style-type: none"> ○ 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.
<p>Clicking noise during braking gets loud</p>	<ul style="list-style-type: none"> ○ Make sure that the screw in the center of the rotor is tight.
<p>Lid does not stay up</p>	<ul style="list-style-type: none"> ○ 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.

	TRUEBOND	
	For Centrifuge Serial Number containing: XXXX04XXXXX	For Centrifuge Serial Number containing: XXXX41XXXXX
Tube Capacity	6 tubes – 3 to 15 mL	
Dimensions (H x W x D)	14 in x 12 in x 9 in (36 cm x 30 cm x 23 cm)	
Weight	12 lbs. (5.4 kg)	
Sound Level	64 dB A	
Supply Voltage	100 – 240 V (+/- 10%) VAC	
Supply Frequency	50/60 Hz	
Power Requirement	220 Watts	-
Current Consumption	-	2.2A at 115VAC 1.1A at 230VAC
Centrifuge Motor	½ H.P. Brushless	
Max g-Force	1,600 xg / 1,850 xg	
Max Speed	3,900 RPM (+/- 100)	
Cycle Time	1 to 30 minutes (+/- 2%)	
Environmental Conditions		
Set-up Site	Indoor Use Only	
Altitude	Up to 2,000m from Sea Level	
Ambient Temperature	5 °C to 40 °C	
Humidity	Maximum relative humidity 80% for temperatures up to 31 °C, decreasing linearly to 50% relative humidity at 40 °C	
Overvoltage Category	II	
Pollution Degree	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:
 $RCF \text{ or G-force} = 0.00001118 \times$
 Rotor Radius (cm) \times (RPM)²

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

	Blue Tube (75 & 100 mm)	Orange Tube (125 mm)
Radius	3.75 in (9.5 cm)	4.25 in (11 cm)

REPLACEMENT PARTS

For Centrifuge Serial Number containing: XXXX**04**XXXXX

Part No.	Description
7724037K	Foot, rubber (Pack of 4)
7786068	Rotor, six-place, Fixed Angle
02-005-1-0005	Motor Assembly
7729009	Capacitor, 5uF, 250V A.C.
02-006-0-0019	Electronic timing and locking board
7751043	Circuit Breaker
7760006	Power cord
02-004-0-0035	Switch & Power Input Assembly
02-002-1-0027	Lid Assembly
7724071K	Hinge, friction (Pack of 2)
02-002-1-0056	Seal, lid gasket
03-0-0003-0332	Open/Close Label
7713079K	75/100mm Tube Holder, Blue (Pack of 6)
7713044K	125mm Tube Holder, Orange (Pack of 6)
02-004-0-0027K	Microhematocrit Inserts Kit (Pack of 2)
03-1-0007-0059K	1 to 1.5 mL Pediatric Tube Adapter (Pack of 6)
02-002-1-0103K	Lid LED Assembly, Yellow
03-0-0003-0794	TrueBond Front Panel Label
00-100-100-009	6 Series Soft Button Replacement Kit
02-006-0-0046	Veterinary Microhematocrit Card Reader Kit

For Centrifuge Serial Number containing: XXXX41XXXX

Part No.	Description
7724037K	Horizon 6 & Horizon 6 FA Foot, rubber (Pack of 4)
7786047	Horizon 6 FA Rotor, six-place, Fixed Angle
02-005-1-0010	Motor Assembly
02-006-0-0062	Electronic timing and locking board
7760006	Power cord
02-002-1-0027	Lid Assembly
7724071K	Hinge, friction (Pack of 2)
02-002-1-0056	Seal, lid gasket
03-0-0003-0332	Open/Close Label
7713079K	75/100mm Tube Holder, Blue (Pack of 6)
7713044K	125mm Tube Holder, Orange (Pack of 6)
02-004-0-0027K	Microhematocrit Inserts Kit (Pack of 2)
03-1-0007-0059K	1 to 1.5 mL Pediatric Tube Adapter (Pack of 6)
02-002-1-0102K	Lid LED Assembly, Yellow
03-0-0003-0794	TrueBond Front Panel Label
00-100-100-009	6 Series Soft Button Replacement Kit
02-006-0-0046	Veterinary Microhematocrit Card Reader Kit

PREVIOUS MANUAL REVISIONS

To access previous manuals, please click the relevant link below:

[Revision A](#)

[Revision B](#)

[Revision C](#)

[Revision D](#)

[Revision E](#)

[Revision F](#)

This operator's manual is part number 03-0-0002-0260 Rev. G

Product Family: HORIZON Series (HORIZON 6 Flex, 6 Flex FA)

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

FOR VETERINARY USE ONLY



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.

Designed, built, and supported in the USA



Drucker Diagnostics

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