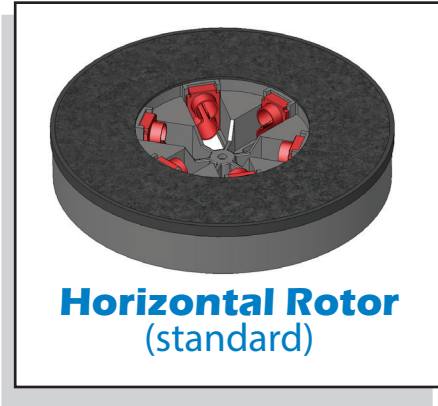


# horizon

## easy-spin 12

**Model 653ES**

**12 Tubes.  
Small Package.  
Horizontal!**



- Capacity: Twelve (12) test tubes up to 16mm x 100mm
- Digital Time Display w/ Scrollable Time Setting
- Electronic Braking (may be disengaged)
- Horizontal Rotor comes standard with centrifuge
- Push-button Operation/Safety Lid-lock
- Out-of-balance Detection
- ETL Compliant to ANSI/UL Standards
- Single-speed: 3,150 RPM/1,500 x g
- Quiet Operation



Scrollable time setting with digital time readout! Indicator lights inform the operator of the machine's status.

### SPECIFICATIONS:

General Specifications for the  
Horizon Model 653ES, Easy-Spin 12 Centrifuge

Nominal Speed (Horizontal):	3,150 (+/- 150) RPM
Nominal Force (Horizontal):	1,500 (+/- 90) xg
Max Acceleration Time:	60 seconds
Deceleration Time (with brake engaged):	50 seconds
Deceleration Time (with brake disengaged):	120 seconds
Maximum Capacity:	Horizontal 120mL (12x10mL)
Overall Height:	9 in. (23 cm)
Dimensions: Width:	12.5 in. (32 cm)
Depth:	15 in. (38 cm)
Weight:	23 lbs. (10.5 kg)
Centrifuge Motor:	1/30 H.P. AC
Protection Breaker:	4 Amp. Re-settable
Timer:	Electronic w/display, 1 to 99 minutes +/- 1%
Max. Power Requirements:	165 Watts
Voltage:	115 (+/- 10) Volts
Frequency:	60 Hz

NOTE: A 220/230V 50Hz version is available. Consult your authorized dealer.

UL Std. 61010A-1 and UL Std. 61010A-2-20, CAN/CSA C22.2 No. 1010.1 and CAN/CSA C22.2 No. 1010.2.20

The Horizon Model 653ES, Easy-Spin 12, is a single-speed centrifuge designed for the clinical laboratory. The scrollable time setting and digital readout make it incredibly easy to use. The compact design minimizes its footprint, leaving more room on your counter. The unique horizontal rotor design allows for the test tubes to be inserted into the centrifuge at a convenient 45 degree angle. They are then gently rotated to a full, horizontal position as the motor accelerates.

With its unique horizontal rotor and higher separation force, the **Easy-Spin 12** reduces blood separation time from fifteen (15) minutes to ten (10) and is platelet-poor plasma capable. When spinning gel tubes, a thicker gel plug is achieved preventing re-mixing and safeguarding the samples during shipping. This greatly reduces false high potassium results and permits primary tube sampling. The **Easy-Spin 12** features a digital time display that may be easily set from one (1) to ninety-nine (99) minutes. Electronic braking brings the samples to a fast, controlled stop, and may be disengaged for delicate samples. An audible end-of-run indicator signals when the run is complete. For safety, the **Easy-Spin 12** features a transparent lid, a welded steel rotation chamber, a "0" RPM lid safety interlock system and an out-of-balance safety system. The **Easy-Spin 12** comes standard with a complete set of 2-place tube carriers designed to spin test tubes up to 16mm x 100mm and 1.0" tube cushion spacers when using 75mm tubes.

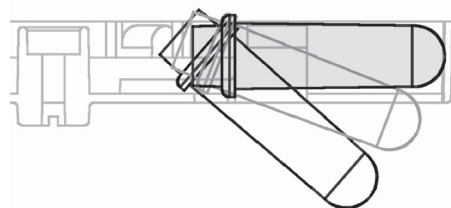
## OPERATING FEATURES

- **ELECTRONIC TIMER w/TIME DISPLAY:** Scrollable time selection from 1 to 99 minutes, (+/- 1%), time set and time remaining are displayed.
- **ELECTRONIC BRAKING:** Reduces deceleration time (may be disengaged)
- **AUDIBLE END-OF-RUN INDICATOR:** Sounds when the rotor has come to a stop (may be disengaged)
- **CAPACITY:** Twelve (12), up to 16mm x 100mm test tubes
- **BRUSHLESS AC MOTOR:** For smooth and quiet operation with no routine maintenance
- **QUIET OPERATION WITH LOW VIBRATION:** Double encased motor and Drucker's unique "stability mount" assure quiet performance and low out-of-balance vibration
- **COOL RUNNING:** Unique design of the motor housing and rotation chamber allows for cool operation even under the heaviest workloads

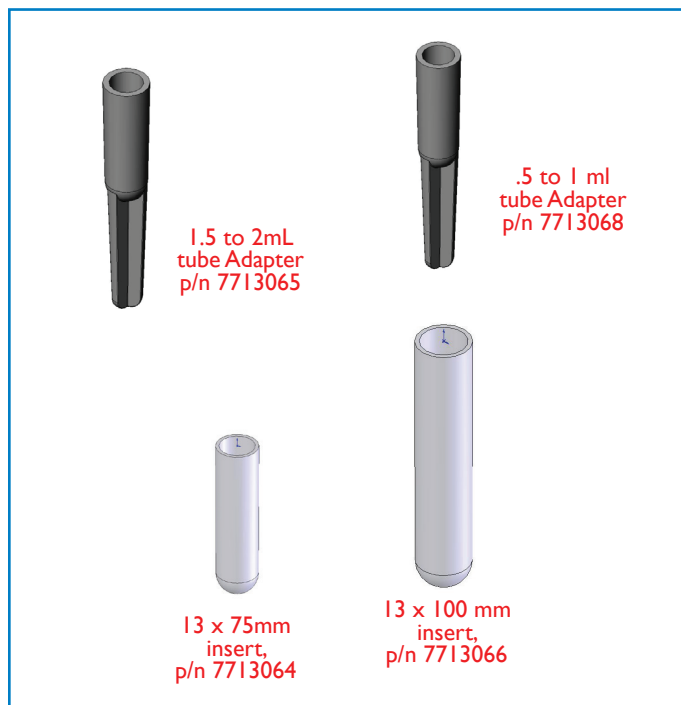
## SAFETY FEATURES

- **AUTOMATIC LID LOCK:** Centrifuge will not run with the lid open; lid cannot be opened while samples are spinning
- **POSITIVE LID LATCHING:** Firm mechanical latching of the lid prevents the escape of debris in case of breakage or an accident
- **WELDED STEEL CONSTRUCTION:** For strength and durability
- **OUT-OF-BALANCE DETECTION:** In the event that an imbalanced load is spun, the centrifuge will safely bring the rotor to a controlled stop
- **CLEAR LID:** Offers safe sample observation and optical verification of speed

The tube holders gently move into the horizontal position (shown in gray) as the centrifuge accelerates.



## STANDARD ACCESSORIES



The model 653ES is specifically designed to spin 100mm test tubes (up to 16mm in diameter). For 75mm tubes, simply use the 1" cushion spacer, p/n 1525.



**QUALITY IN LABORATORY CENTRIFUGES SINCE 1932**  
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Contact your authorized dealer or The Drucker Company to order accessories.