The Horizon 642E

is the world's best selling horizontal clinical centrifuge. The simple "one-button" operation assures repeatable, reproducible, and high quality analytic results every time.

OVERVIEW

The Model 642E is designed to provide the ideal pre-analytic sample processing recommended by all blood collection tube manufacturers. Using patented rotor technology, the 642E reduces blood separation processing times by 33% while minimizing use of valuable counter space for the doctor's office or lab. The performance of the 642E maximizes sample integrity by keeping your patient samples cool during centrifugation and providing a high quality gel seperation layer.

FEATURES

- **Electronic Timer:** Preset to 10 minutes, selectable from 1 to 30 minutes

- **Capacity:** Up to six (6) 17 mm x 100 mm tubes

- **Brushless AC Motor:** For smooth and quiet operation with no routine maintenance

- **Quiet Operation with Low Vibration:** Double-encased motor assures 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

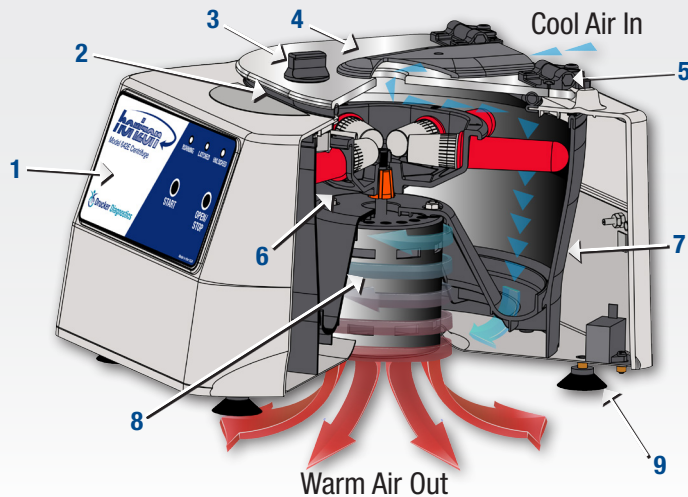- **Footprint:** Compact design uses approximately 1 sq. ft. of counter space

SAFETY

- **Automatic Lid Lock:** Centrifuge will not run with the lid open, and the 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 tube breakage

- **Clear Lid:** Offers safe observation and access for phototachometer

- **Regulatory Approvals:** Certified to US, Canadian, and European Safety standards.

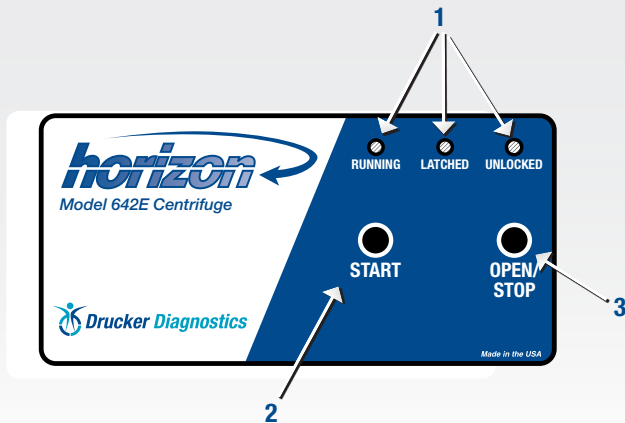- **Reinforced Guard Bowl:** Provides maximum safety and durability

APPLICATIONS

- **Blood Separations**

- **General Purpose Use**

642E CENTRIFUGE FEATURES

Cool Air In

Warm Air Out

1 .... Control Panel (see below)
2 .... Lid Safety Interlock System
3 .... Locking Knob
4 .... Shatter Proof Lid
5 .... Stay-In-Place Hinges
6 .... Horizontal Rotor
7 .... Composite Side Walls
8 .... Brushless AC Motor
9 .... Isolation Feet

642E CENTRIFUGE CONTROL PANEL

horizon
Model 642E Centrifuge
Drucker Diagnostics

RUNNING   LATCHED   UNLOCKED

START   OPEN STOP

Made in the USA

1 .... Indicator Lights
2 .... Start Button
3 .... Open/Stop Button

642E CENTRIFUGE SPECIFICATIONS

Electrical

Voltage .... 115 (± 10) Volts
Frequency .... 60 Hz
Max. Power Requirements .... 165 Watts
Protection Breaker .... 4 Amp. Re–settable
Centrifuge Motor .... 1/30 H.P. Brushless AC

General

Overall Dimensions .... Height .... 8.75 in. (22 cm)
                                    Width .... 11.75 in. (30 cm)
                                    Depth .... 14 in. (35.5 cm)
Weight .... 11 lbs. (5 kg)
Max. Acceleration Time .... 10 seconds
Max. Deceleration Time .... 20 seconds
Timer .... Electronic, 1 to 30 minutes, preset to 10 minutes
Speed .... 3,380 (± 100) RPM
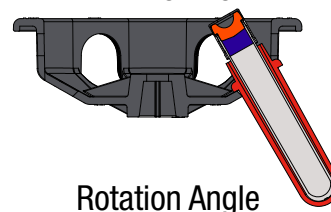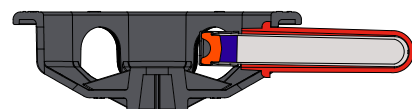**Force** .... 1,600 (± 90) x g

Warranty

The Drucker Diagnostics warranties that this centrifuge is free from defects in workmanship and parts for 2 years.
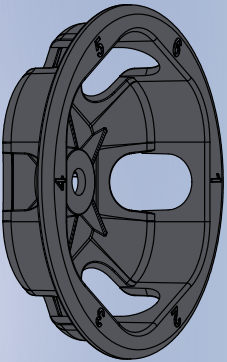
2-Stage Horizontal Rotor

Loading Angle

Rotation Angle

6 Place Horizontal Rotor
p/n 7786061
(Included)

SmartView™ Platform
p/n 00-079-009-001
(Optional)

Included with each centrifuge

	Description	QTY Included	Part Number	Comments
	75 mm Tube Holder	6	7713033	For use with 75 mm tubes
	100 mm Tube Holder	6	7713031	For use with 100 mm tubes
	13 x 75 mm Insert	2	7713064	For use with 13 x 75 mm tubes
	13 x 100 mm Insert	2	7713066	For use with 13 x 100 mm tubes
	0.5 to 1 mL Tube Adapter	2	7713068	For use with tubes up to 1 mL
	1.5 to 2 mL Tube Adapter	2	7713065	For use with tubes between 1.5 mL and 2 mL

Optional Accessories

	Description		Part Number	Comments
	0.25" Cushion Spacer	Available as an accessory	9150	For use with glass vials or tubes
	1" Cushion Spacer	Available as an accessory	1525	For use with glass vials or tubes
	Tube Holder Cap	Available as an accessory	7713011	For use when additional protection is desired
	SmartView™ Platform	Available as an accessory	00-079-009-001	For use with the 6 series centrifuges.

Drucker Diagnostics offers the capability to offer customized front panel labels. Please use the graphics guidelines below should you wish to have the front panel customized with your company name, logo and alternate design.

File format

In order to ensure the highest quality of printing possible, all logo graphics must be in a vector based format with at least a resolution of 300 dots per inch (dpi). Please note that if an image was originally created at low resolution and you manually increase the resolution up to 300 dpi, this will not improve the quality of the image. The file must be originally created and saved at 300 dpi for the best quality. Please note that we only accept files generated in the Windows® Operating environment.

Acceptable file formats include:

- Encapsulated Postscript (EPS) - Encapsulated postscript file or .EPS for short is an Adobe Systems-developed file format. It is a device-independent PostScript representation of a graphic or other object. It stores files as vectors and includes a low-resolution bitmap representation for quick on-screen viewing.
- Adobe Illustrator (AI) - Adobe Illustrator Artwork (.AI) is a proprietary file format developed by Adobe Systems for representing vector-based drawings.
- CorelDraw (CDR) - CorelDraw is a proprietary vector graphics editor developed and marketed by Corel Corporation.

Unacceptable file formats include:

- Joint Photographic Experts Group (JPEG)
- Bitmap (BMP)
- Photoshop Document (PSD)
- Portable Network Graphics (PNG)
- Tagged Image File Format (TIFF)
- Portable Document Format (PDF)

Fonts

If at all possible, it is highly desirable to supply all custom or special fonts used in your logo. If you do not supply fonts, the creation of the front panel label may be delayed.

If you have vector artwork and your file is missing fonts, you can open your file in a vector based program (for example Adobe Illustrator), select "Create Outlines", and then re-save your artwork file.

Color Format

All logo files must be saved using the Pantone color match system (PMS). If the logo has specific Pantone colors we suggest that you include them in the original artwork file or alternatively, tell us what the PMS colors are.

If your logo is in CMYK (cyan, magenta, yellow, and Key (black)) or RGB (red, green, blue) and is not converted to PMS, we will create the logo with the closest Pantone color match to your logo. Conversion from one color standard to another may cause colors to shift. Therefore, after the logo is converted, a proof copy of the logo will be sent to you for approval.

Label Design

After receipt of your logo, we will review the file for missing fonts and the proper color format. If there are any questions or problems, you will be notified.

If there are no problems, we will create several label concepts for your review. Once you select a concept, the front panel label will be finalized and included on centrifuges that are ordered.

Protected by U.S. Patents #6,811,531 & #D718463
Other Patents Pending

Drucker Diagnostics
Innovative Solutions for a Healthier World

Made in the U.S.A.

NOTE: Specifications subject to change.

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