



## Enhanced Specimen Preparation

Prepare Multiple Samples | High Visibility Chamber | Easy To Use

**2 year warranty**  
Limited warranty

### SPECIFICATION TeraVAC DESCRIPTION

<b>Bell jar</b>	Tilting, retractable pouring arm
<b>Mount sizes</b>	1, 1.25, 1.5 and 2-inch (25, 30, 40 and 50 mm) *Accommodable with larger and smaller sizes*
<b>Vacuum</b>	Vacuum pump (sold separately)
<b>Dimensions (W*D*H)</b>	12 x 12 x 12-inch (300 x 300 x 300 mm)
<b>Weight</b>	2.2 lbs (1 kg)



### Superior Void Filling

Introducing the TeraVAC, Vacuum Mounting Chamber, engineered to efficiently fill voids in specimens. It works by first pulling a vacuum and then pouring the resin—whether epoxy, acrylic, or polyester into the chamber ensures optimal penetration into voids, pores, cracks, and crevices. The controlled and gradual pressure increment further enhances resin infiltration, ensuring that every part of the specimen is adequately filled. This meticulous preparation method results in specimens that are exceptionally well-prepared, which makes it an invaluable tool for any laboratory.

DESCRIPTION	110V VACUUM PUMP	220V VACUUM PUMP
<b>Flow Rate</b>	2 CFM (48 liters / minutes)	2 CFM (48 liters / minutes)
<b>Ultimate Vacuum</b>	50 micron	50 micron
<b>Power</b>	110-120V - 0.25 hp	110-120V - 0.25 hp
<b>Inlet Port</b>	1/4" SAE and 1/2" ACME ports	1/4" SAE and 1/2" ACME ports
<b>Dimensions (WxDxH)</b>	5 x 12 x 9.6-inch (130 cm x 310 cm x 240 cm)	5 x 12 x 9.6-inch (130 cm x 310 cm x 240 cm)
<b>Weight</b>	13.7 lbs (6.2 kg)	13.7 lbs (6.2 kg)
<b>Catalog Number</b>	VAC-110	VAC-220

### Precision and Efficiency in Metallographic Preparation

The TeraVAC Vacuum Mounting Chamber is meticulously engineered to enhance resin penetration, crucial for metallographic specimen preparation. By facilitating resin pouring under vacuum conditions, this unit ensures optimal infiltration into voids, pores, and cracks. Its design is ideal for a wide range of materials, providing precise and efficient specimen treatment. The user-friendly interface, coupled with robust durability, makes it an indispensable tool for any laboratory striving for excellence in metallographic analysis.

### Optimized Sample Penetration with the TeraVAC

The TeraVAC Vacuum Mounting Chamber enhances resin infiltration into metallographic specimens, significantly improving edge retention and detail resolution. Its vacuum pouring capability ensures thorough penetration into pores and cracks. It can process multiple specimens simultaneously, ideal for high-volume laboratories. Economically priced, robust, durable design guarantees long-lasting performance, making the TeraVAC an excellent investment for high-quality metallographic specimen preparation.



### Acrylic Castable Mounting:

Castable acrylics are easy to use and are very robust. The main advantage of mounting with castable acrylics is the fast curing time. Depending upon the mixing ratio, castable acrylic mounts are typically ready to use within 8-15 minutes. Also unlike epoxy resins, the ratio of the various acrylic parts (powder to liquid) can be altered up to 25% with no adverse effects to the final properties of the mount. This is because both the liquid and powder are acrylics containing various additives and curing agents. By varying the ratio of the liquid to powder, the curing time and viscosity can be altered.



CASTAMOUNT Acrylic kit

CASTAMOUNT Acrylic Liquids

### ACRYLIC PLUS Acrylics Castable Mounting

#### CATALOG#

ACRYLIC PLUS Castable Mounting Resin Kit (1 lb resin with 12 oz liquid hardener)

**ACYP-5000-K1**

ACRYLIC PLUS Castable Mounting Resin Kit (5 lbs resin with 1/2 gallon liquid hardener)

**ACYP-5000-K5**

### ACRYLIC PLUS Acrylic Powders

ACRYLIC PLUS Resin powder (1 lb)

**ACYP-5000-P1**

ACRYLIC PLUS Resin powder (5 lb)

**ACYP-5000-P5**

ACRYLIC PLUS Resin powder (25 lbs)

**ACYP-5000-P25**

ACRYLIC PLUS Resin powder (100 lbs)

**ACYP-5000-P100**

### ACRYLIC PLUS Acrylic Liquids

ACRYLIC PLUS Resin hardener (12 oz)

**ACYP-5000-H12**

ACRYLIC PLUS Resin hardener (32 oz)

**ACYP-5000-H32**

ACRYLIC PLUS Resin hardener (1/2 gallon)

**ACYP-5000-H64**

ACRYLIC PLUS Resin hardener (1 gallon)

**ACYP-5000-H128**

ACRYLIC PLUS Resin hardener (5 gallons)

**ACYP-5000-H640**

### Acrylic Castable Mounting

#### CATALOG

CASTAMOUNT Acrylic kit (1 lb resin with 12 oz liquid hardener)

**AK-5000-K1**

CASTAMOUNT Acrylic kit (5 lbs resin with 1/2 gallon liquid hardener)

**AK-5000-K5**

### CASTAMOUNT Acrylic Powders

CASTAMOUNT Acrylic powder (1 lb)

**AR-5000-P1**

CASTAMOUNT Acrylic powder (5 lb)

**AR-5000-P5**

CASTAMOUNT Acrylic powder (25 lbs)

**AR-5000-P25**

CASTAMOUNT Acrylic powder (100 lbs)

**AR-5000-P100**

### CASTAMOUNT Acrylic Liquids

CASTAMOUNT Acrylic hardener (12 oz)

**AH-5000-H12**

CASTAMOUNT Acrylic hardener (32 oz)

**AH-5000-H32**

CASTAMOUNT Acrylic hardener (1/2 gallon)

**AH-5000-H64**

CASTAMOUNT Acrylic hardener (1 gallon)

**AH-5000-H128**

CASTAMOUNT Acrylic hardener (5 gallons)

**AH-5000-H640**

### SUPERMOUNT Glass Filled Acrylics Castable Mounting

#### CATALOG#

SUPERMOUNT Glass Filled Acrylic Kit (gray) (1 lb resin with 12 oz liquid hardener)

**GKAK-5000-K1**

SUPERMOUNT Glass Filled Acrylic Kit (gray) (5 lbs resin with 1/2 gallon liquid hardener)

**GKAK-5000-K5**

### SUPERMOUNT PLUS Acrylic Powders

ACRYLIC PLUS Resin powder (1 lb)

**GRAR-5000-P1**

ACRYLIC PLUS Resin powder (5 lb)

**GRAR-5000-P5**

ACRYLIC PLUS Resin powder (25 lbs)

**GRAR-5000-P25**

ACRYLIC PLUS Resin powder (100 lbs)

**GRAR-5000-P100**

### SUPERMOUNT Acrylic Liquids

SUPERMOUNT Resin hardener (12 oz)

**GRAH-5000-H12**

SUPERMOUNT Resin hardener (32 oz)

**GRAH-5000-H32**

SUPERMOUNT Resin hardener (1/2 gallon)

**GRAH-5000-H64**

SUPERMOUNT Resin hardener (1 gallon)

**GRAH-5000-H128**

SUPERMOUNT Resin hardener (5 gallons)

**GRAH-5000-H640**

### Silicon Rubber Molds

#### Blue Molds

#### Clear Molds

1.0-inch diameter Silicone Rubber Molds - 3/pkg

**RMOUNT-0100**

**RMOUNT-0100C**

1.25-inch diameter Silicone Rubber Molds - 3/pkg

**RMOUNT-0125**

**RMOUNT-0125C**

1.5-inch diameter Silicone Rubber Molds - 3/pkg

**RMOUNT-0150**

**RMOUNT-0150C**

2.0-inch diameter Silicone Rubber Molds - 3/pkg

**RMOUNT-0200**

**RMOUNT-0200C**

2.75 x 1-1/2 x 7/8-inch (70 x 39 x 22 mm) Silicone Rubber Molds

**RMOUNT-315R**

**RMOUNT-315C**

3 x 2 x 7/8-inch (76 x 51 x 22 mm) Silicone Rubber Molds

**RMOUNT-315R**

**RMOUNT-302C**



Silicon Rubber Molds

## Epoxy Castable Mounting:

The most common and best performing castable resins are epoxy based. Epoxy resins are typically two-part liquid systems consisting of a resin and hardener. Mixing ratios vary depending upon the volume of the mixture or the mount size. Larger mounts require a ratio of less hardener to resin. The advantages of mounting with epoxy resins include:

- Low shrinkage
- Relatively clear
- Relatively low exotherm
- Excellent adhesion
- Excellent chemical resistance
- Good hardness
- Relatively inexpensive



Standard Epoxy Cure

Standard Epoxy Resin	CATALOG#
Epoxy castable resin (32 oz)	EP-3000-32
Epoxy castable resin (1 gallon)	EP-3000-128
Epoxy castable resin (5 gallons)	EP-3000-5G

Standard Epoxy Hardeners	
Epoxy hardener (8 oz)	EH-3000-08
Epoxy hardener (32 oz)	EH-3000-32
Epoxy hardener (1 gallon)	EH-3000-128

EPOXY PLUS Resin	
Epoxy castable resin (32 oz)	EP-3000-32P
Epoxy castable resin (1 gallon)	EP-3000-128P
Epoxy castable resin (5 gallons)	EP-3000-5GP

Epoxy PLUS Hardeners	
Epoxy hardener (8 oz)	EH-3000-08P
Epoxy hardener (32 oz)	EH-3000-32P
Epoxy hardener (1 gallon)	EH-3000-128P

ULTRATHIN 2 Low Viscosity Epoxy Resins	
Low Viscosity castable epoxy resin (32 oz)	ULTRA-3000R-32
Low Viscosity castable epoxy resin (1 gallon)	ULTRA-3000R-128
Low Viscosity castable epoxy resin (5 gallons)	ULTRA-3000R-5G

ULTRATHIN 2 Low Viscosity Epoxy Hardeners	
Low Viscosity castable epoxy hardener (8 oz)	ULTRA-3000H-08
Low Viscosity castable epoxy hardener (32 oz)	ULTRA-3000H-32
Low Viscosity castable epoxy hardener (1 gallon)	ULTRA-3000H-128

ULTRATHIN 2 PLUS Low Viscosity Epoxy Resins	
Low Viscosity castable epoxy resin (32 oz)	ULTRA-3000R-32P
Low Viscosity castable epoxy resin (1 gallon)	ULTRA-3000R-128P
Low Viscosity castable epoxy resin (5 gallons)	ULTRA-3000R-5GP

ULTRATHIN 2 PLUS Low Viscosity Epoxy Hardeners	
Low Viscosity castable epoxy hardener (8 oz)	ULTRA-3000H-08P
Low Viscosity castable epoxy hardener (32 oz)	ULTRA-3000H-32P
Low Viscosity castable epoxy hardener (1 gallon)	ULTRA-3000H-128P



Vacuum Impregnator  
Pouring cups

ULTRATHIN 2 Low Viscosity  
Epoxy Resins & Hardeners

Quick Mounting Epoxy Resins	CATALOG#
Quick Mounting fast epoxy castable resin (32 oz)	ERF-3000-32
Quick Mounting fast epoxy castable resin (1 gallon)	ERF-3000-128
Quick Mounting fast epoxy castable resin (5 gallons)	ERF-3000-5G

Quick Mounting Epoxy Hardeners	
Quick Mounting fast epoxy hardener (8 oz)	EHF-3000-08
Quick Mounting fast epoxy hardener (32 oz)	EHF-3000-32
Quick Mounting fast epoxy hardener (1 gallon)	EHF-3000-128



Specimen Mounting Clips

Paper Mixing cups

Castable Mounting Accessories	CATALOG#
1-gallon castable pump dispenser	ED-3000-01
1.25-inch specimen storage container - 25/pkg	STORE-0125
Mold release (8 oz)	MR-1000-08
Mold release (16 oz)	MR-1000-16
Metal MKLIP Spring mounting clip (100/pkg)	MKLIP-0100
Plastic SKLIP Spring mounting clip (100/pkg)	SKLIP-0100
Plastic KLIP specimen mounting clip (100/pkg)	KLIP-0100
Plastic MULTICLIP specimen mounting clip(100/pkg)	MULTICLIP-0100
Plastic UNIKLIP specimen clips (100/pkg)	UNIKLIP-0100
3 oz Graduated Paper Mixing cups ( 100/pkg)	MCUPS-0100
9 oz Plastic Mixing Cups (50/pkg)	PCUPS-050
Vacuum Impregnator Pouring cups (50/pkg)	POUR-CUP-050