

TeraVAC Pro

PROGRAMMABLE VACUUM MOUNTING CHAMBER

Enhanced Specimen Preparation. No Voids. No Guesswork.
Programmable Vacuum Impregnation | High Sample Capacity

SPECIFICATION	TeraVAC Pro DESCRIPTION
Power	100-240V, 50/60 Hz, 35W
Control Interface	5-inch touch screen
Vacuum Range	0-90 kPa
Vacuum Flow Rate	75 L/min
Cycle Range	0-10 min, up to 100 cycles
Programs	20 user-programmable inputs
Noise Level	55-60 dB
Chamber Capacity	Up to 12 samples - 1.5-inch (40 mm) diameter
Max Mold Height	3.1-4 in (80-100 mm), depending on mold size
Dimensions (WxDxH)	Open: 20 x 18 x 25-inch (507 x 464 x 644 mm) Closed: 20 x 18 x 10.5-inch (507 x 464 x 267 mm)
Weight	40 lbs (18 kg)
Catalog Number	TeraVAC Pro

2 year warranty
Limited warranty

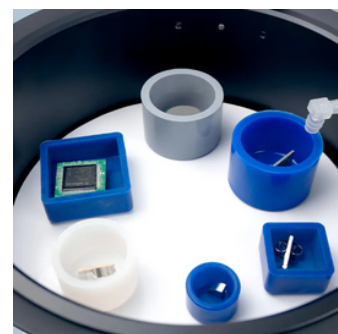


Advanced Vacuum Impregnation Control

The TeraVAC Pro is a programmable, castable vacuum impregnation system engineered to enhance resin penetration in samples containing voids and porosity. By pouring resin under vacuum and curing at atmospheric pressure, the system delivers consistent, repeatable impregnation results. An intuitive touchscreen interface provides precise control over vacuum level, cycle count, and timing for optimized process control.

Efficient Design for Laboratory Workflows

Featuring a large vacuum chamber capable of processing up to 12 samples per cycle, the TeraVAC Pro increases throughput without increasing laboratory footprint. A built-in electric rotating table improves mold positioning and impregnation uniformity, while low-noise operation, compact dimensions, and robust construction make the system ideal for routine use in metallography and materials laboratories.



The Teflon-coated interior allows for easy cleaning, and the chamber accommodates up to 12 samples with a 40 mm diameter.



Machinery directive 2006/42/EC
RoHS Directive 2011/65/EU



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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

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

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

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