

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 (W×D×H)	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

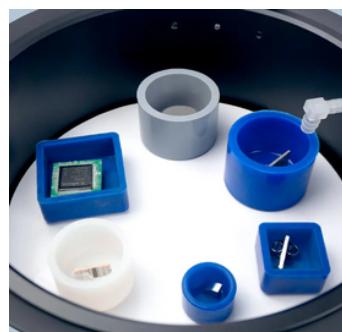


Advanced Vacuum Impregnation Control

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

Silicon Rubber 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

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

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

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

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