

BIONAIRE

AIR PURIFIERS
AND IONIZERS

ProHEPA



1078440

- Provide clean, filtered air for relief from allergy symptoms
- Independent ionizer control
- Microbex™ anti-bacterial agent inhibits bacteria growth on filter
- Whisper quiet 3-speed fan

Unique 5-stage filtration process eliminates up to 99% of pollen, mold spores, dust/dust mites, smoke particles, animal dander and other airborne contaminants as small as 0.1 micron. Independent ion control improves cleaning efficiency. Units can be placed either horizontally or vertically on tables or desks. Filter condition monitor indicates when filter needs to be replaced.

Recommended room size for model 1078A30 is 11' x 14' (154 ft²). Dimensions (L x W x H): 15 1/4" x 7 1/2" x 12 1/4"; blower speed range: 45-100 cfm.

Recommended room size for model 1078A40 is 14' x 16' (224 ft²). Dimensions (L x W x H): 15 1/4" x 7 1/2" x 14 1/4"; blower speed range: 60-140 cfm.

1078A30	PROHEPA AIR PURIFIER & IONIZER, 120V, 60 Hz, 100 W	\$94.25
1078A32	HEPA FILTER, for 1078A30	35.00
1078A33	HEPA FILTER, for 1078A30, Pk. 6	219.00
1078A34	CARBON FILTER, for 1078A30, Each	15.00
1078A35	CARBON FILTER, for 1078A30, Pk. 6	90.00
1078A40	PROHEPA AIR PURIFIER & IONIZER, 120V, 60 Hz, 150 W	125.00
1078A42	HEPA FILTER, for 1078A40	40.00
1078A43	HEPA FILTER, for 1078A40, Pk. 6	240.00
1078A44	CARBON FILTER, for 1078A40	19.00
1078A45	CARBON FILTER, for 1078A40, Pk. 6	114.00

"GERMREDUC" AIR SANITIZER

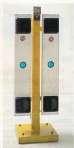
Air is filtered, exposed to UV lamps and blown back into the room

- 92% reduction of micro-organisms

Mobile, self-standing unit (Thomas number 1082A01) can be placed in any convenient area. Two modules each contain two UV lamps and each module can be oriented in different directions. Air is aspirated from the room through a special filter to remove large particles, flows around the UV lamps (254 nm) and is blown back into the room. Air flow rate is 256 m³/h (150 cfm). The blower, filter and UV lamps are encased so room occupants are not exposed to UV. UV lamps can be observed through a small window.

The unit has an On/Off switch for manual operation or it can be set with the 24 hour timer. Four On and four Off switching commands can be set per day; the shortest switching interval is 1 minute. Dimensions: (L x W x H, cm): 43 x 31 x 110.

1082A01	AIR SANITIZER, Self-Standing, 115 V	\$2,522.00
0217A00	AIR SANITIZER, Wall Mount, 115 V	1,026.00
0217A03	FILTER REPLACEMENT, Pk. 5	19.70
0217A04	UV LAMP, 15 W	64.25



1082A01

AIREX

MOBILE FLEXIBLE AIR PURIFIERS

Provides ISO class 5 grade ultra clean air

- Integrated lighting system
- Detachable curtain (ErgoAire)
- Static internal grounding system
- Electrical filter head lifting system

Provides 30 cubic feet of directable ultra clean air volume where you need it. Integrated low voltage halogen lamps with 40° light path spread ensures well-lit work space. The ErgoAire purifier is intended for use in industrial or laboratory areas, while the Medicaire is typically used in Health Care practices. HEPA filter is 99.997% efficient. Hand base rotation of 345° and an 18" vertical travel (electrical lift) allow for a wide area to be surveyed. Standard power is 120V, 5 amps, manageable through the smooth touch control pad. Weight 160 lbs.; storage footprint: 25" x 30". Optional ULPA filter has an airflow velocity of 50 - 110 fpm and volume of 200 - 440 cfm. Horizontal laminar airflow profile performance test results available. Call for details.



1082A03

SPECIFICATIONS

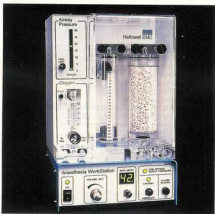
Airflow Volume with HEPA Filter:	200-480 cfm
Airflow Velocity with HEPA Filter:	50 - 120 fpm

1082A03	MOBILE MEDICARE MANAGEMENT SYSTEM	\$12,000.00
1082A06	MOBILE ERGOAIRE MANAGEMENT SYSTEM	70,000.00
1082A09	HEPA FILTER	375.00
1082A12	ULPA FILTER	425.00
1082A15	PRE-FILTER, Active Carbon	75.00

HALLOWELL

ANESTHESIA WORKSTATION

Compact, convenient system for use on animals under 7 kg



1111H03

- Excellent for long-term anesthesia
- Very precise respiratory control
- Proven effective during clinical trials on mammalian and avian species

All-in-one device requires only the addition of a quality vaporizer (1111H54) to maintain small animals (down to 150 g) in a very smooth, controllable anesthetic plane while providing precise respiratory support. It is both a delivery source for inhaled anesthesia, as well as a basic respirator. Unit includes an O₂ flow meter LPM 0-2-1, O₂ flush button 5 LPM interlocked with subject's respiratory phase for safety and connections to and from an anesthetic vaporizer. An adjustable high-pressure unit (10-20" H₂O) protects against over-expansion of airway while providing a bar graph readout. Standard 0-100 mL tidal volume displacement ventilator tube accommodates animals up to 15 lbs (7 kg). Optional 0-200 ml tube is available. The tube and a 300 ml CO₂ absorber are housed in a heated chamber to reduce throat dryness. Precise control is allowed by the breathing rate control (4-80 bpm), large LED display, volume control, standby ventilator switch and indicator. Low oxygen pressure alarms and airway pressure limit alarms ensure subject safety. Also includes alarm silence push-button, DISS Male O₂ supply inlet connection, 19 mm scavenging port, 110 VAC, 47/440 Hz operation, circle system tubes with standard 15 mm ET tube connections.

NOTE: For animal use only.

1111H03 ANESTHESIA WORKSTATION\$4,823.00

ANESTHESIA VENTILATORS

Bellows systems designed to be used with animals ranging in weight from 1 to 200 kg



1111H05

Wide variation in subject size is accommodated by having interchangeable bellows and housing units to meet the animal's breathing requirements. Three different sizes are: 0-300 mL for animals from 1 to 25 kg, 300-1600 mL for animals from 20 to 120 kg and 1600-3000 mL for animals from 100 to 200 kg. Use of the proper size bellows and housing minimizes the ventilator's dead space contribution to the breathing system and provides better resolution of tidal volume deliveries in the range of 0-300 mL. Power requirements 105-125 or 220-240 VAC, 50-60 Hz, 10 watts.

NOTE: for animal use only. Requires a 36" x 22 mm corrugated tube and a 19 mm corrugated tube for connection to the exhaust port (tubes not included).

SPECIFICATIONS

IE Ratio	1:2 (preset)
Minute Volume	0-33.3pm @IE=1:2
Inspiratory Hold	Momentary Push-Button
Pressure and Flow	35-65 psi @ 3.5 gcm [2.4-4 bar @ 100pm]
Rate	6-40 bpm
Tidal Volume	0-300 mL
Pressure Limit	0-60cm H ₂ O
Supply Gas	Oxygen, Nitrogen or clean dry air

1111H05	VENTILATOR, Std, 300 - 1600 mL	.....\$2,700.00
1111H07	VENTILATOR, Sm, 0 - 300 mL	.....2,745.00
1111H09	VENTILATOR, Lg, 1600 - 3000 mL	.....2,925.00
1111B11	GAS PRESSURE ALARM, 50 psi	.....\$4.30

PLAS LABS

ANESTHESIA CHAMBERS

For metabolic studies, protection from cross-contamination and hibernation studies

- Stainless steel hardware
- Removable false floor
- Closed cellular gasketing

Level 1 Chambers

A basic design for budget-conscious laboratories. Can be used as a free flow or closed system. Clear acrylic chamber housing allows easy viewing of small laboratory animals. System includes a stainless steel floor grid, fecal/urinary separator, metal tripod stand, vinyl sealing tape and two gas nipples for special gas atmospheric set-up.



1111H33

Level 2 Chambers

A more sophisticated design that features a smoked transparent gray window/door that allows easy access to lab animals. Features a removable floor for easy cleaning. Three sizes are available to accommodate mice, rats and rabbit sized animals.

THOMAS NO.	CHAMBER TYPE	SUGGESTED ANIMAL	INTERIOR SIZE (inches)	VOLUME (liters)	PRICE
1111H33	Level 1	Small Rodent(s)	7.75 dia. x 8 H	7.5	\$545.00
1111H35		Large Rodent(s)	10.75 dia. x 8 H	13.5	620.00
1111H37	Level 2	Small Rodent(s)	12 W x 12 D x 12 H	28	425.00
1111H39		Large Rodent(s)	18 W x 18 D x 18 H	96	550.00
1111H41		Rabbits, Felines, Small Canines	36 W x 20 D x 24 H	224	1,275.00

Accessories

1111H43	Stainless Steel Floor	\$106.50
1111H45	Stainless Steel Floor	122.55
1111H47	CO ₂ Absorption System with Pump	1,155.00
1111H49	Key Cask Valves	95.00
1111H51	WATER FEEDER, 100 mL	80.00

LUMIC

ANESTHESIA VAPORIZERS

Designed for "out of circuit" use with continuous flow anesthesia machines

- Calibrated for specified anesthetic drugs
- Calibrated 0.25 to 5% using a laser refractometer
- Temperature, flow and duration of use compensation
- Fresh gas flow: 200 cc to 15 L/min.



1111H54 series

Models are designed to work with Isoflurane, Halothane, Sevoflurane or Enflurane.

Feature a safety lock to prevent unit from accidentally being turned on. Units are calibrated at 21°C and 35°C with a calibration range of 0.25%, 0.5% through 5% v.v. in 0.5% increments. When units are used with I.P.P.V., the variation in output is negligible. Require 125 mL of anesthetic drug to fully charge vaporizer. Units are available with full filling or key filling (safer with reduced pollution) options. Mounting options include the Selectatec® mounting system or Cagemount (23 mm male/female tapers). Dimensions (WxDxH, mm): 135x140x183; weight: 6.8 kg.

NOTE: adapter for key filling is not included but can be supplied on request.

THOMAS NO.	ANESTHETIC	FILLING OPTION	MOUNTING OPTION	PRICE
1111H54	Isoflurane	Screw	Cagemount	\$1,495.00
1111H56	Halothane			1,495.00
1111H58	Sevoflurane			1,995.00
1111H60	Enflurane			1,495.00
1111H62	Isoflurane	Key	Cagemount	1,575.00
1111H64	Halothane			1,575.00
1111H66	Sevoflurane			1,675.00
1111H68	Enflurane			1,575.00
1111H70	Isoflurane	Screw	Selectatec	1,550.00
1111H72	Halothane			1,550.00
1111H74	Sevoflurane			1,650.00
1111H76	Enflurane			1,550.00
1111H78	Isoflurane	Key	Selectatec	1,995.00
1111H80	Halothane			1,995.00
1111H82	Sevoflurane			1,695.00
1111H84	Enflurane			1,995.00

Accessories

1111H86	VAPORIZER COMPATIBILITY BLOCK	\$265.00
1111H88	TABLE TOP STAND with 1 Bar	249.00
1111H90	TABLE TOP STAND with 2 Bar	299.00
1111H82	WALL MOUNT with 1 Bar	249.00
1111H84	WALL MOUNT with 2 Bar	299.00
1111H86	POLE MOUNT with 1 Bar	190.00
1111H88	POLE MOUNT with 2 Bar	249.00
1111J00	FLOWMETER, liters/min O ₂	225.00
1111J02	FLOWMETER, liters/min N ₂ O	225.00

KENT

ANESTHESIA VENTILATORS

Pressure controlled system for gentle ventilation for rodents and larger animals



1111J03



1111J13

- Dynamic tidal volume
- Will not over-pressure lungs

Operation modes: Constant Pressure, Timed Ventilation; Constant volume, Timed Ventilation; Respiratory Assistance; Sigh Breath and Apnea; External trigger; high Frequency; High Pressure w/PEEP. Controls can be preset or adjusted as needed while used with the animal. Only air that is

inhaled is used, no gas escapes inside the unit. Provides the gentlest, physiologic artificial ventilation possible. Large LED displays for respiration rate and inspiratory pressure.

NOTE: for animal use only.

SPECIFICATIONS

Thomas No.	1111J03	1111J05
Animal Size	0-4 kg	5-25 kg
Insp Ratio (%), 5% increments	5-45%	5-45%
Resp Rate (bpm)	1-200	1-50
Insp Pressure Cutoff	0-30 cm H ₂ O	0-30 cm H ₂ O
Insp flow	0-5 lpm	0-25 lpm
Tidal Volume @ 30% insp.		
50bpm @ 0-Max flow (ml)	0-300	0-1500
10bpm @ 0-Max flow (ml)	0-100	0-750
500bpm @ 0-Max flow (ml)	0-30	0-150
1000bpm @ 0-Max flow (ml)	0-15	—
2000bpm @ 0-Max flow (ml)	0-7.5	—

1111J03	VENTILATOR, Small Animal, 110 V	83,576.00
1111J05	VENTILATOR, Small Animal, 220 V	3,686.00
1111J07	VENTILATOR, Large Animal, 110 V	4,951.00
1111J09	VENTILATOR, Large Animal, 220 V	5,226.00
1111J11	ANESTHESIA VAPORIZER BAG, 0.5 L	34.00
1111J13	ANESTHESIA VAPORIZER BAG, 1 L	40.00

KENT

INFUSION COMPONENTS

1. Standard catheters



1111K03



1111K29

- For vascular and neuro ports or individual use
- Silicone or polyurethane
- Available in several sizes

Can be used with Vascular and Neuro Catheter Ports or alone. Catheters are supplied in fixed lengths, the proximal and distal ends are trimmable for desired length.

1111K03	SILICONE CATHETER, 9 Fr x 60 mm Bead	327.00
1111K05	SILICONE CATHETER, 9 Fr x 90 mm Bead	32.00
1111K07	SILICONE CATHETER, 9 Fr x 150 mm Bead	27.00
1111K09	SILICONE CATHETER, 7 Fr x 90 mm Bead	27.00
1111K11	SILICONE CATHETER, 7 Fr x 60 mm Bead	27.00
1111K13	SILICONE CATHETER, 7 Fr x 70 mm Bead	27.00
1111K15	SILICONE CATHETER, 7 Fr x 90 mm Bead	27.00
1111K17	SILICONE CATHETER, 7 Fr x 150 mm Bead	27.00
1111K19	SILICONE CATHETER, 5 Fr x 50 mm Bead	27.00
1111K21	SILICONE CATHETER, 5 Fr x 60 mm Bead	27.00
1111K23	SILICONE CATHETER, 5 Fr x 70 mm Bead	27.00
1111K25	SILICONE CATHETER, 5 Fr x 90 mm Bead	27.00
1111K27	SILICONE CATHETER, 5 Fr x 150 mm Bead	27.00
1111K29	SILICONE CATHETER, 3 Fr x 35 mm Bead	23.00
1111K31	SILICONE CATHETER, 3 Fr x 60 mm Bead	23.00
1111K33	POLYURETHANE CATHETER, 9 Fr x 60 mm Bead	27.00
1111K35	POLYURETHANE CATHETER, 9 Fr x 90 mm Bead	27.00
1111K37	POLYURETHANE CATHETER, 9 Fr x 150 mm Bead	27.00
1111K39	POLYURETHANE CATHETER, 7 Fr x 50 mm Bead	27.00
1111K41	POLYURETHANE CATHETER, 7 Fr x 60 mm Bead	27.00
1111K43	POLYURETHANE CATHETER, 7 Fr x 90 mm Bead	27.00
1111K45	POLYURETHANE CATHETER, 7 Fr x 90 mm Bead	27.00
1111K47	POLYURETHANE CATHETER, 7 Fr x 150 mm Bead	27.00
1111K49	POLYURETHANE CATHETER, 5 Fr x 90 mm Bead	27.00
1111K51	POLYURETHANE CATHETER, 5 Fr x 60 mm Bead	27.00
1111K53	POLYURETHANE CATHETER, 5 Fr x 70 mm Bead	27.00
1111K55	POLYURETHANE CATHETER, 5 Fr x 90 mm Bead	27.00
1111K57	POLYURETHANE CATHETER, 5 Fr x 150 mm Bead	27.00
1111K59	POLYURETHANE CATHETER, 3 Fr x 35 mm Bead	23.00
1111K61	POLYURETHANE CATHETER, 3 Fr x 60 mm Bead	23.00

(continued on next page)

OHAUS

SCOUT PORTABLE BALANCES

Customized performance with multiple weighing units, parts counting and battery operation



1367B01

- Large ($\frac{1}{16}$ "), high contrast LCD
- Large, stainless steel weighing pan
- Simple two-button operation
- Easy one step calibration

Scout series toploading balances provide versatile weighing capabilities on the bench or in the field. Sealed controls protect against splashes and spills. Balances feature auto calibration, selectable weighing units, parts counting, auto shut-off (user enabled/disabled) and indicators for stability and over/under loads. Weighs in g, oz, oz t, dwt and parts counting. Low profile, ergonomically designed body includes a molded spill ring, oversized weighing panel and an integral security bracket. Supplied with an AC adapter, calibration mass and weigh below hook. Power requirements: 115V, 60Hz or one 9V battery (not included, see Thomas number 1481K75). Dimensions: $6\frac{1}{2}$ " W x $2\frac{1}{2}$ " H x $8\frac{1}{4}$ " D (17.1 x 6.1 x 21 cm).

SPECIFICATIONS

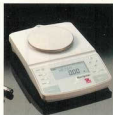
Thomas No.:	1367A98	1367B01	1367B04
Model No.:	SC2020	SC4010	SC6010
Capacity (g):	200	400	600
Readability (g):	0.01	0.1	0.1
Repeatability (Std. Dev.) (g):	0.01	0.1	0.1
Linearity (g):	+0.01	+0.1	+0.1
Tare Range:	To capacity by subtraction		
Over Range Capacity:	103%		
Stabilization Time:	3 seconds		
Operating Temperature Range:	50° to 104° F (10° to 40° C)		
Pan Size:	4" (10.2 cm) dia.	5" x 5 $\frac{1}{2}$ " (12.7 x 14.6 cm)	

1367A98	BALANCE, 200 x 0.01g, SC2020	\$300.00
1367B01	BALANCE, 400 x 0.1g, SC4010	160.00
1367B04	BALANCE, 600 x 0.1g, SC6010	230.00
1367B09	BALANCE, 1,200 x 0.1 g	260.00
1367B11	BALANCE, 6,000 x 1.0 g	230.00

OHAUS

NAVIGATOR™ PORTABLE BALANCES

Big enough for large loads yet small enough to carry



1367B88

- High contrast LCD
- AC powered or battery operated for mobility
- Large stainless steel weigh pans
- Balance functions include animal weighing, parts counting and checkweighing
- Available with or without internal calibration weight

Balances are simple to setup with straightforward menus and prompts to guide the user. Front panel has four cursor keys to navigate menus and functions. Rugged composite housing is contoured for easy cleaning. Sealed front panels and spill rings direct liquids off of the balance. The LCD shows weight and text messages. A wind shield protects pan and blocks air currents for stable results.

Standard features include auto shut-off, RS 232 bidirectional interface, integral security bracket, weigh below, user-selectable stability levels and filters, stability indicator and menu and calibration lock-out switch, 110V AC/DC, 10.5" x 7.25" x 2.25".

SPECIFICATIONS

Measuring Units:	g, mg, oz, lb, GR, N, oz t, dwt, ct, t, st, custom
Stabilization Time:	3 seconds
Calibration:	External cal. (mass not included) or InCal™ (with internal weight)
Pan Size:	NV210: 4.75" dia. NV810, 2100, 8100: 5.5" x 6"

NAVIGATOR PORTABLE BALANCES

THOMAS NO.	MODEL NO.	CAPACITY (g)	READABILITY (g)	REPEATABILITY (g)	PRICE
With External Calibration Required					
1367B75	NV-210	210	0.01	0.01	\$615.00
1367B78	NV-810	810	0.1	0.1	545.00
1367B81	NV-2100	2100	0.1	0.1	815.00
1367B84	NV-8100	8100	0.1	0.1	815.00
With InCal™ Internal Calibration					
1367B88	NV-210	210	0.01	0.01	\$699.00
1367B91	NV-810	810	0.1	0.1	629.00
1367B94	NV-2100	2100	0.1	0.1	699.00
1367B97	NV-8100	8100	0.5	0.5	699.00

OHAUS

CHAMP II INDUSTRIAL BENCH SCALES*Ideal solution for general purpose weighing requirements*

1367C02

- Functional design and sturdy construction
- Easy to operate
- Seven different models: 15 kg to 300 kg
- AC and DC compatible

Standard features include RS232 bi-directional interface, net/gross/tare function, parts counting mode and an auto-off timer. Weighs in g, kg or lb. Stainless steel platform rests on a black polyurethane painted steel frame. Platform features include leveling feet, leveling bubble, IP65 load cell and AC adapter. Include a 5-year manufacturer's warranty on parts and labor. Power requirements: 9 VDC / 500 mA AC adapter or six alkaline "C" batteries. Scales have an average battery life of 250 hours in battery saving mode or 100 hours of continuous use. Models 1367C02 through C08 have a column height 14 inches (35 cm); models 1367C11 through C20 have a column height 27 inches (68 cm).

CHAMP II INDUSTRIAL BENCH SCALES

THOMAS NO.	MODEL NO.	CAPACITY, lb/kg	READABILITY, lb/g	BASE SIZE, inches (cm)	PRICE
1367C02	CH15R11	30/15	0.005/2	12 x 14 x 3 3/16 (30.5 x 35.5 x 9.5)	\$645.00
1367C05	CH30R11	60/30	0.01/5		645.00
1367C08	CH60R11	120/60	0.02/10		645.00
1367C11	CH60L11	120/60	0.02/10	16 x 20 x 4 1/8	765.00
1367C14	CH100R11	200/100	0.05/20	(40 x 50 x 10.5)	765.00
1367C17	CH150R11	300/150	0.05/20	17 x 22 x 5	815.00
1367C20	CH300R11	600/300	0.1/50	(42 x 55 x 12.5)	925.00

OHAUS

CHAMP™ SERIES WASHDOWN BENCH SCALES*Perfect for applications requiring precise weighing in a rugged environment*

- Features include a wide range of capacities: 25 to 500 pounds with $\pm 0.01\%$ repeatability; auto-zero tracking; AC or battery operation for use anywhere
- Dedicated function keys avoid confusion and save time
- Conform to ISO 9001 certified quality management systems

Easy to set up and operate. Display may be desk, wall or tower mounted. Scales weigh in lb., kg and lb/oz. Over/under feature compares load to a defined standard for easy check-weighing. Large LCD (0.6"H) provides easy viewing. Auto shut-off saves batteries. An RS232 bi-directional interface is standard. Scales are factory calibrated and include nine feet of load cell cable. Base frame and platform constructed of stainless steel. Models with 12" x 12" and 18" x 18" bases have rugged H-frame construction; 24" x 24" bases have durable tubular steel box frames. All models have a 5-year warranty. Power requirements: 120 VAC, 50/60 Hz (AC adapter included) or six alkaline or NiCd rechargeable "C" batteries (not included). Other voltages available on special order.



1367C70

CHAMP SERIES WASHDOWN BENCH SCALES

THOMAS NO.	MODEL NO.	CAPACITY (lb/kg)	READABILITY (lb/g)	REPEATABILITY (Std. dev.)	DIMENSIONS (w x D x H in/cm)	PRICE
1367C60	B10AS20	25/10	0.001/0.5	$\pm 0.1\%$	12 x 12 x 3.4/ 30 x 30 x 8.6	\$1,075.00
1367C62	B25AS20	50/25	0.002/1			1,075.00
1367C64	B50AS20	100/50	0.005/2	$\pm 0.1\%$	18 x 18 x 3.6/ 45 x 45 x 9.1	1,060.00
1367C66	B100AS20	200/100	0.01/5			1,395.00
1367C68	B150AS20	300/150	0.01/5	$\pm 0.1\%$	24 x 24 x 5.8/ 60 x 60 x 14.8	1,400.00
1367C70	B250AS20	500/250	0.02/10			1,400.00

OHAUS

RANGER SERIES
BALANCES

Compact industrial bench scales



1367D20

- 1 part in 300,000 internal resolution
- RS232 data interface standard, with a second RS232 as factory option

High-precision measurement technology is encased in a durable, cast-aluminum housing for industrial applications. High internal resolution and fast microprocessor produce results which are stable and accurate. Available in two platform sizes and a full range of capacities to meet your requirements for any industrial bench weighing application. Simple menu operation and large backlit LCD display makes balance easy to use in demanding industrial environments. Weigh in g, kg, lb, oz. Balances feature stainless steel weighing pans with painted, cast-aluminum housings.

Dimensions for 1367D20 to D32 (W x D x H, inches): 10.5 x 13.2 x 4. Dimensions for 1367D35 to D44 (W x D x H, inches): 14.2 x 14.6 x 4.5

9.5 Inch Platforms

1367D20	BALANCE, 3 kg x 0.2 g	\$625.00
1367D23	BALANCE, 6 kg x 0.5 g	625.00
1367D26	BALANCE, 12 kg x 1.0 g	725.00
1367D29	BALANCE, 30 kg x 2.0 g	825.00
1367D32	BALANCE, 60 kg x 5.0 g	825.00

14 Inch Platforms

1367D35	BALANCE, 3 kg x 0.2 g	\$795.00
1367D37	BALANCE, 6 kg x 0.5 g	795.00
1367D39	BALANCE, 12 kg x 1.0 g	695.00
1367D42	BALANCE, 30 kg x 2.0 g	995.00
1367D44	BALANCE, 60 kg x 5.0 g	995.00

High Performance

1367D72	BALANCE, 3 kg x 0.01	\$1,495.00
1367D74	BALANCE, 6 kg x 0.1 g	1,295.00
1367D76	BALANCE, 15 kg x 0.1 g	1,795.00
1367D78	BALANCE, 35 kg x 0.1 g	2,195.00

OHAUS

CHAMP™ SERIES BENCH SCALES

Perfect for applications requiring precise weighing in a rugged environment, including washdown

- Features include a wide range of capacities: 25 to 500 pounds with $\pm 0.01\%$ repeatability; auto-zero tracking; AC or battery operation (except multi-function) for use anywhere
- Conform to ISO 9001 certified quality management systems

Easy to set up and operate. Display may be desk, wall or tower mounted. Large backlit LCD (1" H) provides easy viewing. Auto shut-off saves batteries. An RS-232 bi-directional interface is standard with multi-function and general purpose scales. All scales are factory calibrated and include nine feet of load cell cable. Models with 12" x 12" and 18" x 18" bases have rugged H-frame construction; 24" x 24" bases have durable tubular box frames. All models have a 5-year warranty. Power requirements: 120V, 50/60 Hz (AC adapter included). General purpose models also operate on six "C" alkaline batteries (not included).

General Purpose Bench Scales



1367E01

- For basic, high-capacity weighing needs
- Simple two-button operation

Ideal for general weighing applications. Scales weigh in lb, kg, oz and g. Models 1367E01 E03, E31 and E33 have painted steel frames.

Stainless Steel Platforms

1367E01	BALANCE, 10 kg x 1 g	\$790.00
1367E03	BALANCE, 25 kg x 2 g	790.00
1367E05	BALANCE, 50 kg x 5 g	865.00
1367E07	BALANCE, 100 kg x 10 g	865.00
1367E09	BALANCE, 150 kg x 10 g	1,290.00
1367E11	BALANCE, 250 kg x 20 g	1,290.00

Painted Steel Platforms

1367E31	BALANCE, 10 kg x 1 g	\$725.00
1367E33	BALANCE, 25 kg x 2 g	725.00
1367E35	BALANCE, 50 kg x 5 g	810.00
1367E37	BALANCE, 100 kg x 10 g	810.00
1367E39	BALANCE, 150 kg x 10 g	1,235.00
1367E41	BALANCE, 250 kg x 20 g	1,235.00

Multi-Function Bench Scales



1367E13

- Dedicated function keys avoid confusion and save time
- Stainless steel platforms with painted steel bases
- Increased readability

Scales weigh in lb, kg, g and feature parts counting, animal weighing and check weighing functions.

12 x 12 Inch Platforms

1367E13	BALANCE, 10 kg x 0.5g	\$940.00
1367E15	BALANCE, 25 kg x 1 g	940.00

18 x 18 Inch Platforms

1367E17	BALANCE, 50 kg x 2 g	\$1,035.00
1367E19	BALANCE, 100 kg x 5 g	1,035.00

24 x 24 Inch Platforms

1367E21	BALANCE, 150 kg x 5 g	\$1,435.00
1367E23	BALANCE, 250 kg x 10 g	1,435.00

OHAUS

**HARVARD TRIP
BALANCES***Ideal for comparative weighing*

1368D20

- Six inch diameter plates of stainless steel
- Magnetic damping

2 pan, mechanical single and double beam balances have sturdy, rugged construction with easy reliable operation. Capacity 2,000 grams and 0.1 gram readability; 1368D40 also has a 5 lb. capacity, with a 0.01 ounce readability. Five-year warranty.

1368020	BALANCE, 1450-SD	\$175.00
1368040	BALANCE, 1454-SD, Metric/English Units	180.00
1368060	BALANCE, 1550-SD, Double Beam	195.00
1368085	BALANCE, 1560-SD, Tare Bar	200.00

4 Easy Ways to Order

Phone

800 345 2100
856 467 2000

Mail

Thomas Scientific
P.O. Box 99
Swedesboro, NJ 08085

Fax

800 345 5232
856 467 3087

Electronic

• www.thomassci.com
• e-commerce
• EDI

OHAUS

MB45 MOISTURE BALANCE AND ACCESSORIES*Full featured moisture analyzer fits any budget*

- Fast halogen element
- Program and recall up to 50 methods
- Compact size (8.5"W x 6"H x 14.5"L)
- RS232 port for printer or PC

Perfect for food and beverage, environmental, chemical, pharmaceutical and other laboratories, this fast, rugged analyzer gives you the flexibility you need and the accuracy you require for determining moisture in a wide variety of materials. Programming options allow for: the fastest possible time to temperature; minimal overshoot while achieving temperatures quickly; controlled ramping to temperature; setting up to 3 temperatures for difficult samples.



1371J70

Unique auto shut-off options give you a choice of 3 pre-programmed end points for automatic operation, timed tests with audible signal when finished, or you can custom design your own end point criteria. Innovative sample pan holder makes sample transfer easier. Use Glass Fiber Pads (1371J77) for samples with high water content. Pan size: 3.5" (90 mm), 120VAC, 50/60Hz. Weight: 16 lbs.

1371J70	MB45 MOISTURE BALANCE, Each	\$3,350.00
1371J73	TEMPERATURE CALIBRATION KIT, Each	243.00
1371J77	GLASS FIBER PADS, Pk. 200	38.00
1371J79	SAMPLE PANS, Disposable, Pk. 50	22.00
1371J82	SAMPLE PANS, Reusable, Pk. 3	81.00
1371J85	COVER, For Use in MB45, Each	29.00
1371J88	CABLE, 9-Pin Serial Extension, Each	69.00
1371J91	CALIBRATOR, Wt. ASTM Class I, Each	57.00
1371J94	TAL SOFTWARE, Winwedge V1.2, Each	226.00

CSC

AUTOMATIC DIGITAL MOISTURE BALANCE*Rapid moisture determinations without sample damage*

- Direct % moisture readings
- Simultaneous weighing and drying
- Solid or liquid samples

Determine moisture content in foods, adhesives, paper, plastics, chemicals, sewage sludge and more. Choice of automatic, timed or manual mode for measuring 0 to 100 grams of sample. Measures % moisture or % solids from 0 to 100%; $\pm 0.1\%$ is displayed throughout the test. User-friendly microprocessor allows use by inexperienced personnel. Built-in RS-232 for easy test recording. A wide heat range from 30 to 120°C allows optimum drying of diverse materials. The enclosed, rugged, cast aluminum construction eliminates errors introduced by ambient draft or moisture, allowing faster drying times. Unit includes calibration weight and a 125 W lamp; 250 and 375 W lamps available. Dimensions: 12"W x 14"H x 17"D, 36 lbs.



1371M43	DIGITAL MOISTURE BALANCE, 36 lbs.	\$4,495.00
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CSC

ANALOG MOISTURE BALANCE

Rapid moisture determinations without sample damage



- Direct % moisture readings
- Simultaneous weighing and drying
- Solid or liquid samples

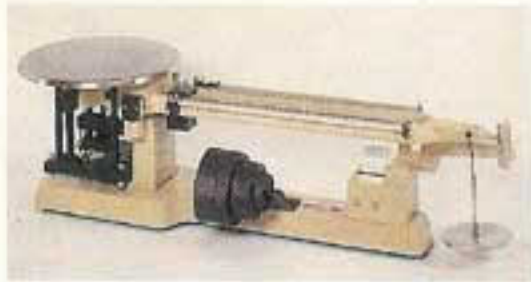
A wide heat range from 30 to 120°C allows optimum drying of diverse materials. The enclosed, rugged, cast aluminum construction eliminates errors introduced by ambient draft or moisture, allowing faster drying times. Unit includes 125 W lamp; 250 and 375 W lamps available. Dimensions: 12"W x 14"H x 14"D; weight: 27 lbs.

1371M47	ANALOG MOISTURE BALANCE	.....	\$2,173.00
1371M48	INFRARED LAMP, 125 W	.....	34.35

OHAUS

HEAVY DUTY DOUBLE BEAM BALANCE

Rugged and durable without sacrificing accuracy



- Capacity 20 kilograms with a readability of 1 gram and tare range of 2,270 grams
- Magnetically damped

Stainless steel weighing platform, 11 inches diameter, base and beam are aluminum alloy castings with baked enamel finish. Complete with set of slotted weights of one 10, 5 and 1 kilogram and two 2 kilogram weights with weight hanger. Front beam graduated from 0-100 grams (1 gram divisions); rear beam graduated from 0-1,000 grams (100 gram divisions). 5-year warranty.

1377D10

1377D10	BALANCE, 1119D	\$1,025.00
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OHAUS

SCHOOL BALANCE, 2 PAN

Introduces elementary and secondary school students to more advanced principles in a sturdy low-cost balance



- Die-cast aluminum beam and epoxy-coated zinc base with polystyrene pans, 5½ x 5½ x 1 inch deep
- Zero-adjust wheel provided to correct out-of-level conditions
- Capacity: 2,000 grams; sensitivity: 0.5 grams

Able to weigh objects like paper clips, erasers, pencils and books. Manual damping arrest brings the pointer to a rest quickly to speed up weighing. Pans are easily removed for cleaning or pouring.

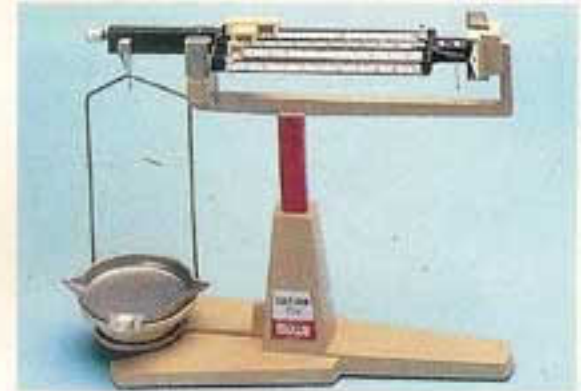
1380F12

1380F12	SCHOOL BALANCE, SB1200	\$29.00
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OHAUS

CENT-O-GRAM BALANCE

Rugged, durable construction with 0.01 gram sensitivity



1381A10

- Four notched and tiered beams
- Built-in specific gravity platform

Removable, 92 mm diameter stainless steel pan. Capacity 311 grams with a readability of 0.01 gram; calibrations: front beam 1 x 0.01 gram, second beam 10 x 1 gram, third beam 100 x 10 grams and rear beam 200 x 100 grams. 5-year warranty.

1381A10	BALANCE, 311	\$160.00
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OHAUS

DIAL-O-GRAM® BALANCE

Model 310



1381D65

- Quick reading with a precision engraved dial
- Windowed poises
- Built-in specific gravity platform
- 10 gram vernier dial

Stainless steel, removable pan is 92-mm in diameter. Capacity 310 grams with a readability of 0.01 gram; calibrations: front beam 100 x 10 grams, rear beam 200 x 100 grams, dial and vernier 10 x 0.01 gram. 5-year warranty.

1381D65	BALANCE, 310	\$195.00
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OHAUS

DIAL-O-GRAM® BALANCE

1600 Series

- Direct reading vernier dial for easy use
- 5-year warranty
- Choice of weighing platforms: scoop, animal container, pans offered as optional accessories
- Brought rapidly to equilibrium by magnetic damper
- Case aluminum beam, with steel knife edges and agate bearings; base finished in chemically resistant enamel



1381H28

Overall dimensions 18 x 6 x 7 inches high; 1381H15 has flat 6-inch stainless steel weighing platform and 1381H28 has 6 inch removable stainless steel pan, 3/4 inch deep; weight 12 lbs. Capacity 610 grams as supplied - extendable to 2,610 grams with optional 1382G20 weights; sensitivity 0.1 gram. For attachment weights, see Thomas number 1382G20; for stainless steel scoop, see 1366W35.

1381H15	BALANCE, 1650	\$175.00
1381H28	BALANCE, 1610	195.00

OHAUS

TRIPLE BEAM BALANCE

- Aluminum alloy beam of box type construction with sliding weights
- Beams tiered with contrasting graduations for easy reading
- Enamelled base has hole for mounting on upright support for specific gravity weighings

Capacity 610 grams, sensitivity 0.1 gram; magnetically damped; capacity extendable to 2,610 grams by attaching weights in optional 1382G20 Weight Set to end of beam; front beam graduated 0 to 10 grams in 0.1 gram divisions, center beam from 0 to 500 grams in 100 gram divisions and the rear beam from 0 to 100 grams in 10 gram divisions.

Model 1382F15 has flat 6" steel platform and 1382F35 has removable stainless steel pan 6" x 3/4" deep.

Model 1382F65 is similar to 1382F15, but with undivided tare beam and sliding poise to tare up to 225 grams.



1382F15

1382F15	BALANCE, 750-S0	\$110.00
1382F35	BALANCE, 710-00	125.00
1382F65	BALANCE WITH TARE BEAM, 760-00	135.00

OHAUS

BALANCE ACCESSORIES

Metric Weight Set

- For Thomas number 1109B10 Animal Balance, 1382F15, 1382F35 and 1382F65 Triple Beam Balances, to extend capacity to 2,610 grams
- Consisting of one 500 and two 1,000 gram weights (effective weight)



1382G20

1382G20	METRIC WEIGHT SET	\$32.00
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Avoirdupois Attachment

- To increase balance capacity to 5 lbs., 2 oz. for triple beam balance, Ohaus # 860-00
- Includes two 2 lb. and one 1 lb. weight (effective weight)



1382G45

1382G45	WEIGHT SET	\$32.00
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Weighing Scoops



1382G80

- Footed polypropylene scoops, for use on plate or pan of balances 1382F15 and F35
- Includes counter-poise with hanger
- Use limits weighing range of balances to 1610 grams

Dimensions 12" x 6" x 2 3/4" deep. For identical scoops without counterpoise (for use with tared balance, Thomas number 1382F65) see Thomas number 1366W35. For aluminum scoops, see 1366W15.

1382G80	SCDOP	\$19.00
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Thomas Tips

How to Select...

Calibration Weights

Selecting a calibration weight to ensure accuracy of your new electronic balance requires some careful foresight. Ask yourself the following questions as a guide to help you gather the information you need. Our customer service and technical staff will also be happy to assist you. Our goal is to provide you with the right item at the right price for your needs.

To select a calibration weight for your balance you need to consider four main items:

1. Type
2. Calibration Load
3. Tolerance Class
4. Traceability

1. Type

We can supply you with either one piece or two piece laboratory weights. All standard catalog weights are of two piece construction known as ASTM Type II. All ASTM Type I weights are of one-piece construction and are available through special order. Type I weights should be specified when the application calls for either reference standards of the highest order, maximum stability, precise density measurements or ASTM Class 0 tolerances.

2. Calibration Load

Check your balance, its operating manual or with the manufacturer for the required calibration load. Often, the correct load will flash on the display once the balance is in calibration mode. If there is not a suggested calibration load, we suggest using 90% to 100% of the maximum capacity of the balance. If you would like to verify your balance's calibration at its intended usage load, select weight values that bracket the range of your intended loads.

3. Tolerance Class

There are two easy ways to select the appropriate class of calibration weight:

- a. Refer to the "Typical Applications Chart" below and select an appropriate tolerance class.

TYPICAL APPLICATIONS

Troemner Ultra Class SM	Tolerances 40-50% higher than ASTM Class 1.	ASTM Class 3	Routine lab work, moderate precision balances
ASTM Class 1	Reference standards for calibrating other weights, calibration weights for micro and precision analytical balances	ASTM Class 4	Semi-analytical lab work, dial scales or trip balances
		NIST Class F	Industrial Use
ASTM Class 2	Working standards for analytical balances	OIML Class M2	General and student use

- b. For the the greatest calibration accuracy, first determine the calibration load to be used and then the readability of the balance at that weight. Divide the readability by four to give you the required tolerance. Then use the "Balance Weight Tolerance Chart" below to select the class that has the required tolerance.

For example:

You need a 200 g weight and your readability is 0.01 g. Calculate: $0.01 \div 4 = .0025 \text{ g} = 2.5 \text{ mg}$ tolerance required. Using the chart, select an ASTM Class 3 weight.

BALANCE WEIGHT TOLERANCES

ACCEPTABLE BALANCE WEIGHT TOLERANCES BY MASS DENOMINATION AND BY CLASS

DENOMINATION:	TROEMNER ULTRA CLASS	ASTM CLASS 1	ASTM CLASS 2	ASTM CLASS 3	ASTM CLASS 4	NIST Class F	OIML CLASS M2
GRAM WEIGHTS							
2000 g	3.0 mg	5.0 mg	10 mg	20 mg	40 mg	200 mg	+400 mg/-0 mg
1000 g	1.5 mg	2.5 mg	5.0 mg	10 mg	20 mg	100 mg	+200 mg/-0 mg
500 g	0.7 mg	1.2 mg	2.5 mg	5.0 mg	10 mg	70 mg	+100 mg/-0 mg
300 g	0.45 mg	0.75 mg	1.5 mg	3.0 mg	6.0 mg	60 mg	
200 g	0.3 mg	0.50 mg	1.0 mg	2.0 mg	4.0 mg	40 mg	+50 mg/-0 mg
100 g	0.15 mg	0.25 mg	0.50 mg	1.0 mg	2.0 mg	20 mg	+30 mg/-0 mg
50 g	0.07 mg	0.12 mg	0.25 mg	0.60 mg	1.2 mg	10 mg	+30 mg/-0 mg
30 g	0.044 mg	0.074 mg	0.15 mg	0.45 mg	0.90 mg	6.0 mg	
20 g	0.044 mg	0.074 mg	0.10 mg	0.35 mg	0.70 mg	4.0 mg	+20 mg/-0 mg
10 g	0.03 mg	0.050 mg	0.074 mg	0.25 mg	0.50 mg	2.0 mg	+20 mg/-0 mg
5 g	0.02 mg	0.034 mg	0.054 mg	0.18 mg	0.36 mg	1.5 mg	+10 mg/-0 mg
3 g	0.02 mg	0.034 mg	0.054 mg	0.15 mg	0.30 mg	1.3 mg	
2 g	0.02 mg	0.034 mg	0.054 mg	0.13 mg	0.26 mg	1.1 mg	+5 mg/-0 mg
1 g	0.02 mg	0.034 mg	0.054 mg	0.10 mg	0.20 mg	0.90 mg	+5 mg/-0 mg



Thomas Tips

How to Select...

Calibration Weights



BALANCE WEIGHT TOLERANCES

ACCEPTABLE BALANCE WEIGHT TOLERANCES BY MASS DENOMINATION AND BY CLASS

DENOMINATION:	TROEMNER ULTRA CLASS	ASTM CLASS 1	ASTM CLASS 2	ASTM CLASS 3	ASTM CLASS 4	NIST Class F	OIML CLASS M2
MILLIGRAM WEIGHTS							
500 mg	0.005 mg	0.010 mg	0.025 mg	0.080 mg	0.16 mg	0.72 mg	
300 mg	0.005 mg	0.010 mg	0.025 mg	0.070 mg	0.14 mg	0.61 mg	
200 mg	0.005 mg	0.010 mg	0.025 mg	0.060 mg	0.12 mg	0.54 mg	
100 mg	0.005 mg	0.010 mg	0.025 mg	0.050 mg	0.10 mg	0.43 mg	
50 mg	0.005 mg	0.010 mg	0.014 mg	0.042 mg	0.085 mg	0.35 mg	
30 mg	0.005 mg	0.010 mg	0.014 mg	0.038 mg	0.075 mg	0.30 mg	
20 mg	0.005 mg	0.010 mg	0.014 mg	0.035 mg	0.070 mg	0.26 mg	
10 mg	0.005 mg	0.010 mg	0.014 mg	0.030 mg	0.060 mg	0.21 mg	
5 mg	0.005 mg	0.010 mg	0.014 mg	0.028 mg	0.055 mg	0.17 mg	
3 mg	0.005 mg	0.010 mg	0.014 mg	0.026 mg	0.052 mg	0.14 mg	
2 mg	0.005 mg	0.010 mg	0.014 mg	0.025 mg	0.050 mg	0.12 mg	
1 mg	0.005 mg	0.010 mg	0.014 mg	0.025 mg	0.050 mg	0.10 mg	

4. Traceability

Our balance calibration weights are all precision laboratory weights and come with three different levels of documentation paperwork.

a. Statement of Accuracy

A Statement of Accuracy is included with all standard precision laboratory weights. It verifies that the product has been manufactured to meet all necessary specifications and has been calibrated using standards traceable to NIST. The date, mass, serial number, type, grade and class are all listed.

b. Traceable Certificate

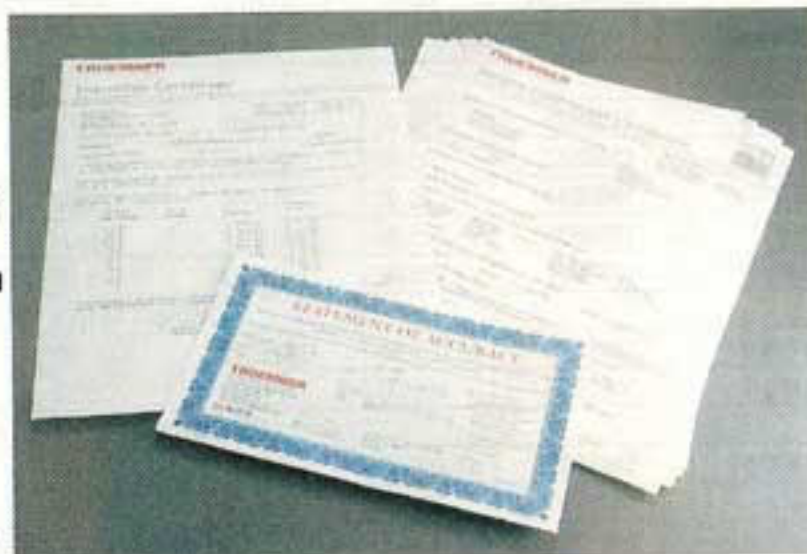
This certificate provides a statement of traceability to NIST standards and certifies the accuracy of the weights purchased. This certificate provides the following information:

1. A listing of the mass and the correction for each weight
2. The NIST tolerance allowed for each weight
3. The owner's name and address

c. NVLAP Weight Calibration Certificate

This is our most requested certificate. Many government and industrial specifications require that the actual value of each weight be reported, certified and traceable to NIST. This certificate satisfies ISO 9000, FDA, GMP, EPA, NCR and Mil. Std. requirements. The procedures and processes used to generate this multi-page certificate are prescribed by the National Voluntary Laboratory Accreditation Program (NVLAP). A NVLAP Weight Calibration Certificate includes everything listed for the Traceable Certificate plus:

7. Construction and density of weight(s)
8. The True Mass Value (mass in a vacuum)
9. Environmental conditions during the test
10. Serial number of the weights or weight set
11. Uncertainty assigned to each weight



4. A statement of traceability to NIST standards
5. The NIST test number of the mass standard used
6. Serial number of the weight(s) or set

All standard balance weights are available with either Traceable or Weight Calibration Certificates as options. Many are listed and have separate Thomas catalog numbers. If the set and certificate combination you are looking for is not listed here, please call or fax for catalog number and pricing information.

TROEMNER

PRECISION LABORATORY BALANCE WEIGHTS

Screw knob style weights are ideal for most laboratory calibration applications



1398B30 series

- Sizes from 1 mg to 100 g
- Two piece polished stainless steel gram weights
- Five tolerance levels from Ultra Class™ to ASTM Class 4
- Sets and individual weights available

These standard high precision polished stainless steel calibration weights should be selected for most routine calibration applications. The two piece weights (gram only) offer the advantage of being repairable and can be finely adjusted and easily recalibrated over time. The 1 to 100 gram weights are a two piece, polished non-magnetic, austenitic stainless steel design. The 50 to 500 milligram weights are one piece flat stainless steel, and the 1 to 3 milligram weights are one piece flat aluminum.

All weight sets come in rugged polypropylene boxes, individual weights do not. All weight sets are a 5221 series, meaning that weights beginning with a "2" are doubled and weights with a "5" or "1" are single in each decade.

All weights or sets are available furnished with Traceable or NVLAP Calibration Certificates. Some may be special order. Call or fax for catalog number and pricing of weights or certificates not shown here. Screw knob weights are also available in a solid, one-piece, Type I style on a special order basis where use as a reference standard is desired.

DESCRIPTION	THOMAS NO.	PRICE	THOMAS NO.	PRICE	THOMAS NO.	PRICE	THOMAS NO.	PRICE	THOMAS NO.	PRICE
	ULTRA CLASS™		ASTM CLASS 1		ASTM CLASS 2		ASTM CLASS 3		ASTM CLASS 4	
WEIGHT SETS										
1mg to 100 g	1398B30	\$795.00	1401A01	\$695.00	1401B01	\$580.00	1401C01	\$515.00	1401D01	\$345.00
10mg to 50 g	1398B32	685.00	1401A03	559.00	1401B03	485.00	1401C03	440.00	1401D03	305.00
10mg to 100 g	1398B34	720.00	1401A05	605.00	1401B05	505.00	1401C05	450.00	1401D05	325.00
1g to 50 g	1398B36	525.00	1401A07	399.00	1401B07	345.00	1401C07	315.00	1401D07	235.00
1g to 100 g	1398B38	495.00	1401A09	425.00	1401B09	375.00	1401C09	320.00	1401D09	245.00
WEIGHT SETS WITH TRACEABLE CERTIFICATE										
1mg to 100 g	1401D30	\$1,075.00	1401E01	\$935.00	1401F01	\$795.00	—	—	—	—
1g to 100 g	1401D32	595.00	1401E03	525.00	1401F03	480.00	—	—	—	—
WEIGHT SETS WITH NVLAP CALIBRATION CERTIFICATE										
1mg to 100 g	1401F30	\$1,495.00	1401G01	\$1,375.00	1401H01	\$1,195.00	—	—	—	—
1g to 100 g	1401F32	805.00	1401G03	745.00	1401H03	650.00	—	—	—	—
ONE PIECE FLAT ALUMINUM INDIVIDUAL WEIGHTS										
1 mg	1401F60	\$49.00	1401J01	\$44.00	1401K01	\$22.00	1401L01	\$19.00	1401M01	\$17.00
2 mg	1401F62	49.00	1401J03	44.00	1401K03	22.00	1401L03	19.00	1401M03	17.00
5 mg	1401F64	49.00	1401J05	44.00	1401K05	22.00	1401L05	19.00	1401M05	17.00
10 mg	1401F66	49.00	1401J07	44.00	1401K07	22.00	1401L07	19.00	1401M07	17.00
20 mg	1401F68	49.00	1401J09	44.00	1401K09	22.00	1401L09	19.00	1401M09	17.00
ONE PIECE FLAT STAINLESS STEEL INDIVIDUAL WEIGHTS										
50 mg	1401F70	\$49.00	1401J11	\$44.00	1401K11	\$25.00	1401L11	\$21.00	1401M11	\$17.00
100 mg	1401F72	49.00	1401J13	44.00	1401K13	25.00	1401L13	21.00	1401M13	17.00
200 mg	1401F74	49.00	1401J15	44.00	1401K15	25.00	1401L15	21.00	1401M15	17.00
500 mg	1401F76	49.00	1401J17	44.00	1401K17	25.00	1401L17	21.00	1401M17	17.00
TWO PIECE POLISHED STAINLESS STEEL INDIVIDUAL WEIGHTS										
1 g	1401F78	\$49.00	1401J19	\$44.00	1401K19	\$38.00	1401L19	\$34.00	1401M19	\$27.00
2 g	1401F80	49.00	1401J21	44.00	1401K21	38.00	1401L21	34.00	1401M21	27.00
5 g	1401F82	49.00	1401J23	44.00	1401K23	38.00	1401L23	34.00	1401M23	27.00
10 g	1401F84	49.00	1401J25	44.00	1401K25	42.00	1401L25	37.00	1401M25	30.00
20 g	1401F86	49.00	1401J27	44.00	1401K27	42.00	1401L27	37.00	1401M27	34.00
50 g	1401F88	57.00	1401J29	51.00	1401K29	49.00	1401L29	48.00	1401M29	39.00
100 g	1401F90	69.00	1401J31	62.00	1401K31	59.00	1401L31	58.00	1401M31	49.00

TROEMNER

CYLINDRICAL BALANCE WEIGHTS

Ideal for electronic balances, larger scales and economical everyday use

- Three tolerance levels
- Polished stainless steel cylindrical style
- Sizes from 40 gram to 20 kilogram

These two-piece, cylindrical weights are more economical than screw knobs and made to the same exacting tolerances. They are ideal for routine calibrations. They are available in a wider variety of specific sizes, as well as very large kilogram sizes, many more than shown here.

Weights and sets are supplied in foam-lined polypropylene cases, with one cotton glove, except 10 and 20 kg. These have grip handles instead. All weights or sets are available furnished with Traceable or NVLAP Calibration Certificates. Some may be special order. Call or fax for catalog number and pricing of weights or certificates not shown here.



1416R01 series

ELECTRONIC BALANCE CALIBRATION WEIGHTS

DESCRIPTION	ULTRA CLASS		ASTM CLASS 1		ASTM CLASS 4	
	THOMAS NO.	PRICE	THOMAS NO.	PRICE	THOMAS NO.	PRICE
WEIGHT SET						
100g to 1 kg	—		1416R01	\$530.00	—	
INDIVIDUAL WEIGHTS						
40 g	1416S01	\$48.00	1416T26	\$42.00	1416X02	\$38.00
50 g	1416S03	47.00	1416T30	42.00	1416X04	38.00
100 g	1416S05	57.00	1416T35	48.00	1416X05	39.00
200 g	1416S07	68.00	1416T40	56.00	1416X07	47.00
400 g	1416S09	90.00	1416T45	75.00	1416X08	68.00
500 g	1416S11	95.00	1416T51	77.00	1416X09	61.00
1 kg	1416S13	115.00	1416T55	95.00	1416X11	77.00
2 kg	1416S15	135.00	1416T61	118.00	1416X13	99.00
4 kg	1416S17	260.00	1416T71	225.00	1416X14	199.00
5 kg	1416S19	305.00	1416T76	265.00	1416X15	205.00
10 kg*	1416S21	655.00	1416T78	570.00	1416X16	395.00
20 kg*	1416S23	975.00	1416T80	850.00	1416X17	399.00

Storage Cases* (Optional accessory on 10 kg and 20 kg only)

1416T82	STORAGE CASE For 10 kg Weight	\$180.00
1416T84	STORAGE CASE For 20 kg Weight	180.00



Thomas Tips

Weight Recalibration Service

We offer a prompt recalibration and certification service for analytical and electronic balance weights. They will be checked and adjusted back to within their prescribed tolerance limit by the nation's largest commercial metrology laboratory.

The following chart can be used to approximate your recalibration service fee for the most commonly requested NVLAP Weight Calibration Certificate. However, please call our Customer Service department for shipping instructions before shipping your weights in for service.

CHARGES FOR NVLAP WEIGHT CALIBRATION CERTIFICATE

Size of weight	*Recalibration Service Fee For Each Weight
1 mg to 100 g	\$38.00
200 g to 1 kg	76.00
2 kg to 25 kg	102.00
30 kg to 500 kg	318.00

*Prices subject to change, call for update.

TROEMNER

BRASS WEIGHT SETS

For routine weighing where economy is essential



- Lacquered brass
- Weights 100 mg and under meet NIST Class F tolerances
- Weights under 100 mg meet OIML Class M2 tolerances
- Popular student weight set

1 mg to 100 mg weights are made of aluminum. 200 mg to 500 mg weights are stainless steel. Weights 1g and over are lacquered brass. Most sets supplied in polypropylene box with cover. 1420B55 and 1420B60 gram only sets come in a molded plastic block without lid. All milligram sets include forceps. For the popular student set, order Thomas number 1420B15.

1419H35

THOMAS NO.	WEIGHT SET	GRAM WEIGHTS											FRACTIONAL WEIGHTS										PRICE
		2000	1000	500	200	100	50	20	10	5	2	1	500	200	100	50	20	10	5	2	1		
1419H27	1 mg to 500 mg	—	—	—	—	—	—	—	—	—	—	—	1	2	1	1	2	1	1	2	1	\$25.00	
1419H30	1 mg to 50 g	—	—	—	—	—	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	37.50	
1419H35	1 mg to 100 g	—	—	—	—	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	38.50	
1420B15	10 mg to 50 g	—	—	—	—	—	1	1	2	1	2	1	1	2	1	1	2	1	—	—	—	34.25	
1420B55	1 g to 500 g	—	—	1	1	2	1	1	2	1	2	1	—	—	—	—	—	—	—	—	—	54.00	
1420B60	1 g to 1000 g	—	1	1	1	2	1	1	2	1	2	1	—	—	—	—	—	—	—	—	—	82.00	
1420B65	1 g to 2000 g	1	1	1	2	1	1	1	2	1	2	1	—	—	—	—	—	—	—	—	—	161.50	
1420B70	1 mg to 2000 g	1	1	1	2	1	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	171.00	

TROEMNER

STAINLESS STEEL TEST WEIGHT SETS



- To test commercial and non-commercial scales
- NIST Class F tolerances
- Designed for servicemen

Troemner precision stainless steel weights are manufactured to meet the most exacting requirements for accuracy and appearance.

Steel bar stock, chosen for its uniform density, high resistance to wear and corrosion and low magnetic properties is precision machined with computer-based metalworking equipment. Weight bottoms are slightly concave, to expose the smallest possible area to wear from friction with bench surfaces. Weight heads and necks are precisely shaped to give a solid, sure grip to forceps or weight lifters.

1420S01

AVOIRDUPOIS WEIGHT SETS

THOMAS NO.	WEIGHT SET	LB. WEIGHTS			OUNCE WEIGHTS									FRACTIONAL POUND WEIGHTS								PRICE	
		5	2	1	8	4	2	1	1/2	1/4	1/8	1/16	1/32	0.2	0.1	0.05	0.02	0.01	0.005	0.002	0.001		
1420R01	1/32 oz. to 2 lb.	—	1	1	1	1	1	1	1	1	1	1	1	2	—	—	—	—	—	—	—	—	\$234.00
1420R03	1/32 oz. to 5 lb.	1	2	1	1	1	1	1	1	1	1	1	2	—	—	—	—	—	—	—	—	322.00	
1420R05	.001 to 5 lb.	5	—	5	1	1	11	1	1	1	1	1	2	2	1	1	2	1	1	2	2	695.00	

METRIC WEIGHT SETS

THOMAS NO.	WEIGHT SET	GRAM WEIGHTS											FRACTIONAL WEIGHTS (mg)										PRICE
		2000	1000	500	200	100	50	20	10	5	2	1	500	200	100	50	20	10	5	2	1		
1420S01	1mg to 2000g	1	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	\$380.00	
1420S03	1mg to 2000g	5	—	5	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	860.00	

BALANCEBANKS™

Provide fingertip access to weighing supplies

- Compartments keep weighing supplies clean
- Heavy duty, chemical resistant, PVC construction
- Promotes lab cleanliness



1423A01

Mini BalanceBank™

- Holds Kimwipes®, spatulas, pens, paper, calculators, small and medium weigh papers and boats
- Dimensions: 12" W x 12" H x 5" D



1423A10

Top Loader BalanceBank™

- Holds all the supplies the Mini can plus large (6" x 6") weigh papers and boats
- Dimensions: 12" W x 12" H x 7" D

1423A01	BALANCEBANK, Mini	\$70.55
1423A10	BALANCEBANK, Top Loader	80.78

LABTRONICS

BALANCETALK™

Capture balance, scale or indicator readings with your PC

- Easy to use
- Save time and effort

Data from virtually any instrument can be transferred via RS232 interface directly into programs such as Excel®, Lotus®, Quattro®, Access®, FoxPro®, SigmaPlot® and many more. In selected formats, a time stamp and cumulative time and date can be added to the data. Simple fill-in-the-blank screens simplify the set-up process. Included is a simple spreadsheet program which can be used to capture, view and print results. The data can also be saved to a clipboard and added to other programs. Software is pre-configured with many standard weighing applications including moisture analysis, check weighing, density measurement, content uniformity, difference and counting. Works with Windows® 3.1, 95, 98 and NT.



1424A01

1424A01	BALANCETALK	\$395.00
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BALANCE TABLES

Marble table greatly reduces vibration, for analytical and micro balances

- Consists of three massive rectangular slabs of marble, 3 inches thick, braced by an iron pipe
- Overall dimensions 36 x 24 x 31 inches high



1425H80

Because of weight, table will be shipped directly from quarry, F.O.B. Center, Rutland, VT.

CAUTION: Intended location must withstand the load of 651 lbs.

1425H80	MARBLE BALANCE TABLE	\$1,139.00
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Marble Slab



1425H85

- Polished marble slab, for use on laboratory tables to reduce vibration

Overall dimensions 20 x 13 x 2 inches thick; weight: 50 lbs. Shipped directly from quarry, F.O.B. Center, Rutland, VT.

1425H85	MARBLE SLAB	\$181.50
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Laminated with Granite Inset

- Minimize high-frequency vibrations
- Wood, covered with laminated plastic
- Polished granite block, 16" x 18", mounted in top of table rests on four shock absorbers
- Hollow sides can be filled with sand to increase weight and stability (sand not included)



1425J50

Should be installed on a sturdy floor, preferably concrete. Model 1425J50 is 23½ x 29¼ x 31¼ inches high; balance supported 28 inches above floor (desk height); net weight approximately 200 lbs. Model 1425J55 is 23½ x 29¼ x 34 inches high; balance supported 30 inches above floor (bench height); net weight approximately 249 lbs.

1425J50	TABLE, Desk-height	\$650.00
1425J55	TABLE, Bench-height	885.00

NATIONAL WEATHER SERVICE TYPE BAROMETER



- Provided with rack and pinion for precise adjustment of scale vernier
- Graduated in inches and millimeters for use at elevations between sea level and 914 meters
- Mercury enclosed in leather bag in bronzed metal casing
- Level adjusted to reference zero by knurled thumbscrew which exerts pressure on bottom of bag
- Glass barometer column enclosed in bronzed metal tube
- Scale range of 25 1/2 to 31 inches and 646 to 800 mm, with vernier reading to .01 inches and 0.1 mm
- Includes thermometer 7 inches long, with ranges -25° to +50°C and -10° to +120°F
- Mounting contains two white reflectors to facilitate observation of mercury meniscus, post for suspending barometer and circular bracket with centering screws for adjusting position of barometer

1473J15

Overall dimensions: 43 x 3 3/4 x 4 inches deep.

1473J15 BAROMETER \$780.00



DIGITAL BAROMETER



1473J20

- Altitude adjustment for exact barometer readings
- Ranges: 23.45 to 31.01 Hg or 794 to 1050 mb; 23 to 131°F or -5 to 55°C; 25 to 95% RH
- Accuracy: ±0.15Hg (±5 mb); ±1°C; ±5% RH

Monitors temperature, weather forecast, barometric pressure and relative humidity conditions and

outputs the data to a computer or data logger. Also equipped with a stopwatch/time-of-day clock. A four line LCD provides the user with the current readings and clear graphics in an easy-to-read format. Dimensions: 3 1/2" x 3" x 1"; weight: 7 oz. Includes instructions and four AAA batteries.

1473J20 BAROMETER DIGITAL MODULE \$154.75

1473J25 DATA ACQUISITION SYSTEM ACCESSORY 100.00



ELECTRONIC DIGITAL BAROMETER

Simultaneous display of barometer pressure, bar graph of barometric trends, humidity, temperature, time and date



1474470

- Accuracy: ±0.15 in. Hg/±5mBar
Temperature: ±1°C
Humidity: ±5%RH
- Adjustable altitude compensation from 3500 m
- Visual indicator displays weather forecast of sunny, cloudy or rainy
- Displays 10-98.1 range of relative humidity with resolution of 1%
- Thermometer indicates temperature measurements between 23-131°F or -5 to 55°C

Barometer measures atmospheric pressure from 23.4 to 31.01 in. of Hg, with resolution of .03" Hg and 794-1050 mBAR with resolution of 1 mBAR. Memory captures reading every hour — can recall to display the last 24 readings. Bar graph shows current reading and trend for previous 1, 3, 6, 12 and 24 hours. Clock displays time in AM/PM or military time. Touch switch to display time and date. Comes complete with lab bench stand, wall mount and 4 AAA batteries. Dimensions: 5.25" W x 7.25" H x 1" D.

1474470 ELECTRONIC DIGITAL BAROMETER \$133.47



COMPACT DIGITAL BAROMETER

Graphically displays the barometric trend



1474A73

- Measures atmospheric pressure, temperature and relative humidity
- Displays projected weather conditions

Barometric trend shows present reading and previous 1, 3, 6, 12 and 24 hours in line- or bar-chart format. Hourly barometric readings are stored for the previous 24 hours and can be recalled and displayed for each hour.

Forecasting indicators show projected weather conditions using symbols for Sunny, Cloudy, Partly Cloudy and Rainy. Unit features an altitude compensator which can be set from 0 to 2500 meters. Unit also has switches that display the temperature in °F or °C and displays the barometric pressure in millibars or inches of mercury.

Detachable base support and integral wall mounting bracket allows unit to be positioned where it is needed. Uses 4 AAA batteries (supplied). Overall dimensions: 7" W x 3 1/2" H x 1" D. Screen dimensions: 2" W x 2 1/2" H. Weight: 7 ounces.

SPECIFICATIONS:

	Barometric	Temperature	Humidity
Range:	794 to 1050 mb (29.45 to 31.01 in Hg)	23.0 to 131.0°F (-5.0 to 55.0°C)	25% to 90% RH
Resolution:	1mb (0.02inHg)	1°	1%
Accuracy:	±5mb (±0.15inHg)	±1°C	±5% RH

1474A73 BAROMETER, Compact Digital \$102.29

SWIFT INSTRUMENTS

BAROMETER/THERMOMETER

Genuine brass case

- Open face dial
- Highly polished barometer movement

Liquid thermometer calibrated in 32-122°F or 0-50°C. Temperature compensated barometer calibrated in inches of mercury and millibars. Case is highly polished and lacquered.



1474A80

1474A80 BAROMETER/THERMOMETER \$96.00

SPER SCIENTIFIC

DIAL BAROMETER

For classroom, lab or industrial use

- Large, clear, dual scale
- Four inch dial is easy to read from a distance

Gives readings in hecto Pascal (hPa) from 940 to 1060 readable to 1 hPa and cm of Hg pressure from 71 to 80 readable to .1cm. Barometer has an accuracy of ±4 hPa. Complete with wall mounts. Weight: 2.6 oz.



1474B02

1474B02 DIAL BAROMETER \$23.00

STANDARD BATTERIES



1481C10



1481C96



1481F25



1481G60



1481G65



1481K75

The batteries listed here are used with most of the scientific instruments, calculators, electronic instruments and timers listed in this catalog. The proper replacement battery is referenced in the specific catalog location where such devices are listed.

Other types of batteries not listed here can be obtained on special order; call your Customer Service representative for information.

NOTE: brand names may vary from those pictured due to available supply. Photos do not represent actual size of battery.

STANDARD BATTERIES

THOMAS NO.	TYPE	DESCRIPTION	DIMENSIONS, inches	VOLTS	TERMINALS	QTY.	PRICE
1481C08	C	Alkaline	1 x 2	1.5	Flashlight	Each	\$5.50
1481C10	C	Alkaline	1 x 2	1.5	Flashlight	Pk. 4	20.40
1481C19	D	Alkaline	5 1/4 x 2 1/2	1.5	Flashlight	Pk. 2	12.80
1481C92	AA	Alkaline	1 1/2 x 2	1.5	Flashlight	Pk. 4	9.55
1481C94	AAA	Alkaline	1 1/2 x 1 1/2	1.5	Flashlight	Pk. 4	12.15
1481C96	AAA	Alkaline	1 1/2 x 1 1/2	1.5	Flashlight	Pk. 8	24.30
1481F25	AL502	Alkaline	1 1/2 x 2	4.5	Flat	Each	16.00
1481G60	F4BP	Lighting	2 1/4 x 2 1/4 x 4	6	Binding Posts (2)	Each	9.20
1481G65	F4M	Lantern	2 1/4 x 2 1/4 x 4 1/2	6	Coiled Springs	Each	17.55
1481K75	9V	Alkaline	1 1/2 x 1 1/2 x 1 1/2	9	Snap	Each	7.75

RECHARGEABLE NICKEL-METAL HYDRIDE BATTERIES

Save the high cost of replacing frequently used batteries in portable lab equipment



1481K92

Voltage of 1.2 V is slightly lower than 1.5 V of standard or alkaline batteries. Check equipment's manual for compatibility.

1481K89	BATTERY, Nickel-Metal Hydride, AAA, Pk. 2	\$29.00
1481K92	BATTERY, Nickel-Metal Hydride, AA, Pk. 2	34.40
1481K95	BATTERY, Nickel-Metal Hydride, C, Pk. 2	36.75
1481K96	BATTERY, Nickel-Metal Hydride, D, Pk. 2	33.30
1481L07	BATTERY, Nickel-Metal Hydride, 9V, Each	36.75



Recycle Batteries

In the interest of protecting the environment, please check with your local authorities for proper disposal of exhausted batteries. **Please do not put them in the trash!**

SPECIAL APPLICATION BATTERIES



1482J50



1482J24

- Environmentally safe substitute for older mercury batteries
- Flat terminals
- Alkaline

THOMAS NO.	REPLACES	DIAMETER x HEIGHT (in.)	VOLTS	QTY.	PRICE
1482J24	RM1R	0.625 x 0.645	1.35	4	\$14.50
1482J12	TR134R	0.673 x 2.620	6.0	2	27.25
1482J50	PC135A	2.673 x 3.276	7.5	2	30.75

BUTTON BATTERIES

- Used in calculators and small testing equipment
- See Cross Reference Chart below for assistance in selecting right size



1483E30

THOMAS NO.	TYPE	DIAMETER x HEIGHT (mm)	VOLTS	QTY.	PRICE
1483E25	357, Silver Oxide	11.6 x 5.3	1.5	Ex.	\$9.90
1483E30	392, Silver Oxide	7.9 x 3.6	1.5	Ex.	6.90
1483E35	393, Silver Oxide	7.9 x 5.3	1.5	Ex.	3.05
1483E40	A76, MnO ₂	11.6 x 5.4	1.5	Ex.	3.25
1483E45	AG67SE, Zn/Air	11.6 x 5.3	1.4	Pk. 4	14.70

Cross Reference Chart For Button Batteries

Finding the correct battery is not always easy. Many batteries have a standard size designation regardless of manufacturer, like AA, AAA, C, D and 9 V. However, flat or button batteries have no such standard. The part number is marked on the battery, but varies by manufacturer. Use the chart below to help you select the proper battery. Batteries listed in the same row are equivalent in size, voltage and specifications and can be readily interchanged among manufacturers.

THOMAS NO.	EVEREADY	DURACELL	RAY-O-MAC	PANASONIC
1483E25	357	D357	357	SP357
1483E30	392	D392	392	SP392
1483E35	393	D393	393	SP393
1483E40	A76	PK76A	—	LR64
1483E45	AG67SE	DA67S	L6752A	P267S



BATTERY TESTER

Traceable[®] to NIST for accuracy



1483E50

- Accurate and long-lasting
- Color-coded
- Self-powered; requires no internal battery
- Checks any battery in one second
- Accuracy: $\pm 5\%$
- Tests alkaline, carbon, silver-oxide, mercury, lithium, nickel-cadmium and more

Under actual operating conditions provides true resistive load readings equal to real world usage. Tests battery voltages from 1.35 to 12 volts on 13 ranges.

Color-coded scale immediately indicates battery condition. Individually serial-numbered Traceable Certificate is provided to indicate traceability to standards provided by NIST. Gold-plated printed circuit board and silver-plated switches ensure both accuracy and longevity. Dimensions: $3\frac{1}{2}'' \times 2\frac{1}{2}'' \times 1''$.

1483E50 TRACEABLE BATTERY TESTER \$30.75

POLARWARE

GRIFFIN LOW FORM BEAKERS

Seamless stainless steel construction with pour spout



1526Q20, Q40 and Q60

- Pour spout allows for easy transfer of liquids
- Capacity full-mark near top of beaker assures accurate measuring

1526Q20	BEAKER, 2" I.D., 125 mL	\$29.90
1526Q30	BEAKER, 2½" I.D., 250 mL	30.70
1526Q40	BEAKER, 3½" I.D., 600 mL	35.50
1526Q50	BEAKER, 4½" I.D., 1,200 mL	44.00
1526Q60	BEAKER, 5½" I.D., 2,000 mL	61.90
1526Q80	BEAKER, 6¾" I.D., 4,000 mL	86.30

POLARWARE

BAIN MARIE TYPE BEAKERS

Seamless stainless steel construction



- With turned rim and parallel sides
- Without spout
- Stainless steel lids offered separately

Beaker dimensions are listed in inches by H x o.d. x i.d.

1527C25 series

1527C25	BEAKER, 5½ x 4½ x 4½, 1,200 mL	\$30.40
1527C35	BEAKER, 6½ x 5½ x 4½, 2,000 mL	27.30
1527C45	BEAKER, 7½ x 6½ x 6, 3,100 mL	32.10
1527C55	BEAKER, 8 x 7½ x 6½, 3,800 mL	35.60
1527C65	BEAKER, 8½ x 8½ x 7½, 5,700 mL	46.50
1527C75	BEAKER, 9½ x 8½ x 8, 7,600 mL	54.80
1527C85	BEAKER, 11½ x 9½ x 9½, 11,400 mL	67.40
1527D01	LID, for 1527C35 Beaker	13.20
1527D03	LID, for 1527C45 Beaker	14.30
1527D05	LID, for 1527C55 Beaker	15.50
1527D07	LID, for 1527C65 Beaker	17.90
1527D09	LID, for 1527C75 Beaker	18.90
1527D11	LID, for 1527C85 Beaker	21.50

CORNING

PYREX® BEAKERS WITH HANDLE



1530K40

- Corning 1010
- Handle attached by an adjustable, stainless steel strap which fits securely into a shallow groove molded in upper part of beaker

Beaker (1530K40) fitted with molded glass handle which facilitates pouring. Replacement beaker (1530K50) supplied without handle or strap.

1530K40	BEAKER, 3,000 mL	\$137.79
1530K43	BEAKER, 3,000 mL, Cs. 8	\$41.44
1530K50	BEAKER, Replacement, 3,000 mL	69.51
1530K53	BEAKER, Replacement, 3,000 mL, Cs. 8	434.48

Chemicals and Reagents



The red-edged section of this catalog (in the back of the book) contains our selection of reagents arranged in alpha-numeric sequence. The reagents and chemicals listed are those which we have found to be the most frequently required for routine laboratory use; these are normally carried in our stock for immediate shipment.

If you require a product not listed in our catalog, call and let us know what your needs are. We can deliver over 20,000 reagents from America's foremost chemical manufacturers, and we will be happy to fill your order promptly and efficiently.

KIMBLE

KIMAX® BRAND BEAKERS

Strong and durable

- High resistance to mechanical and thermal shock and chemical attack
- Uniform sidewall and bottom thickness, especially in the critical radius point of the heel area



1530L26

Thick, slightly flared, beaded top with spout is designed to have excellent pouring characteristics. Durable, matte-finish marking area for use with ordinary pencil. Designed from ASTM specification E 960, Type I requirements. Capacity is approximately $\pm 5\%$.

White, graduated scale is provided on all sizes from 20 to 4,000 mL. 20 mL Beakers are graduated in 5 mL intervals; 30 mL, 50 mL, and 100 mL Beakers in 10 mL intervals; 150 mL Beakers in 20 mL intervals; 250 mL, and 400 mL Beakers in 25 mL intervals; 600 mL, 800 mL and 1,000 mL Beakers in 50 mL intervals.

1530L26	BEAKER, 10 mL, Pk. 12	548.10
1530L28	BEAKER, 10 mL, Cs. 48	146.66
1530L46	BEAKER, 20 mL, Pk. 12	41.66
1530L48	BEAKER, 20 mL, Cs. 48	127.20
1530L50	BEAKER, 30 mL, Pk. 12	41.34
1530L58	BEAKER, 30 mL, Cs. 48	126.24
1530L66	BEAKER, 50 mL, Pk. 12	41.34
1530L68	BEAKER, 50 mL, Cs. 48	126.24
1530L76	BEAKER, 100 mL, Pk. 12	43.70
1530L78	BEAKER, 100 mL, Cs. 48	133.64
1530L86	BEAKER, 150 mL, Pk. 12	41.82
1530L88	BEAKER, 150 mL, Cs. 48	127.66
1530M11	BEAKER, 250 mL, Pk. 12	41.82
1530M13	BEAKER, 250 mL, Cs. 48	127.66
1530M21	BEAKER, 400 mL, Pk. 12	49.20
1530M23	BEAKER, 400 mL, Cs. 48	150.24
1530M31	BEAKER, 600 mL, Pk. 6	31.36
1530M33	BEAKER, 600 mL, Cs. 36	143.64
1530M41	BEAKER, 800 mL, Pk. 6	43.15
1530M43	BEAKER, 1,000 mL, Pk. 6	131.76
1530M51	BEAKER, 1,000 mL, Cs. 24	98.95
1530M53	BEAKER, 1,500 mL, Pk. 4	180.00
1530M60	BEAKER, 1,500 mL, Cs. 16	47.58
1530M71	BEAKER, 2,000 mL, Pk. 4	77.87
1530M73	BEAKER, 2,000 mL, Cs. 6	118.68
1530M90	BEAKER, 4,000 mL, Cs. 6	61.65
1530M93	BEAKER, 4,000 mL, Cs. 6	282.36

KIMBLE

KIMAX® BEAKER

Heavy metal free

- Capacity: 250 mL
- For use in trace metal investigation via atomic adsorption. Processed to remove all heavy metal residue.



1530M10

1530M10	BEAKER, Metal Free, Cs. 10	856.90
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KIMBLE

BEAKER STARTER PACK



1530N25

- Great for start-up projects

Assortment includes five of the most popular low form glass Griffin beakers. Consists of one each of the following:

Beaker Capacity	Subdivision	OD x H to light
50 mL	10 mL	41 x 53 mm
100 mL	10 mL	50 x 71 mm
250 mL	25 mL	68 x 86 mm
600 mL	50 mL	88 x 122 mm
1000 mL	50 mL	107 x 143 mm

1530N25	BEAKER STARTER PACK	822.62
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KIMBLE

COLORFUL BEAKERS

Jazz up your lab with brightly colored beakers



1530A28 series

- Brighten your benchtop
- Reduce cross contamination
- Identify glassware from lab to lab

Colorful glassware brings both style and function to your lab. Available in raging red, sunny yellow, cool green and bright blue, the highly durable finish of the marking spots and graduations make identification a snap. Made of Kimax® KG-33 glass, all sizes have a durable, colored, matte-finish marking area for use with an ordinary pencil. A colored, easy-to-read, graduated scale is provided on all sizes. Designed from ASTM Specification E960, Type 1 requirements.

1530M28	BEAKER, 50 mL, Red, Case 12	340.56
1530M31	BEAKER, 100 mL, Red, Case 12	46.32
1530M34	BEAKER, 150 mL, Red, Case 12	43.56
1530M37	BEAKER, 250 mL, Red, Case 12	43.56
1530M40	BEAKER, 400 mL, Red, Case 12	51.96
1530M43	BEAKER, 600 mL, Red, Case 6	32.62
1530M46	BEAKER, 1000 mL, Red, Case 6	62.34
1530M49	BEAKER, 50 mL, Yellow, Case 12	43.56
1530M52	BEAKER, 100 mL, Yellow, Case 12	46.32
1530M55	BEAKER, 150 mL, Yellow, Case 12	43.56
1530M58	BEAKER, 250 mL, Yellow, Case 12	43.56
1530M61	BEAKER, 400 mL, Yellow, Case 12	51.96
1530M64	BEAKER, 600 mL, Yellow, Case 6	32.62
1530M67	BEAKER, 1000 mL, Yellow, Case 6	62.34
1530M70	BEAKER, 50 mL, Green, Case 12	43.56
1530M73	BEAKER, 100 mL, Green, Case 12	46.32
1530M76	BEAKER, 150 mL, Green, Case 12	43.56
1530M79	BEAKER, 250 mL, Green, Case 12	43.56
1530M82	BEAKER, 400 mL, Green, Case 12	51.96
1530M85	BEAKER, 600 mL, Green, Case 6	32.62
1530M88	BEAKER, 1000 mL, Green, Case 6	62.34
1530M91	BEAKER, 50 mL, Blue, Case 12	43.56
1530M94	BEAKER, 100 mL, Blue, Case 12	46.32
1530M97	BEAKER, 150 mL, Blue, Case 12	43.56
1530R01	BEAKER, 250 mL, Blue, Case 12	43.56
1530R04	BEAKER, 400 mL, Blue, Case 12	51.96
1530R07	BEAKER, 600 mL, Blue, Case 6	32.62
1530R10	BEAKER, 1000 mL, Blue, Case 6	62.34

CORNING

PYREX® GRIFFIN LOW FORM BEAKERS

10 to 150 mL Beakers



1531H46

- With white enamel graduations

10 and 20 mL beakers graduated in 5 mL intervals; 30 mL through 150 mL beakers in 10 mL intervals. Sizes 20 through 150 mL furnished in

stackable, foamed plastic tray containing 12 beakers; cases contain four trays.

1531H37	BEAKER, 10 mL, Pk. 12	.....	\$48.10
1531H39	BEAKER, 10 mL, Cs. 48	.....	146.08
1531H40	BEAKER, 20 mL, Pk. 12	.....	41.34
1531H40	BEAKER, 20 mL, Cs. 48	.....	126.24
1531H56	BEAKER, 30 mL, Pk. 12	.....	41.34
1531H56	BEAKER, 30 mL, Cs. 48	.....	126.24
1531H60	BEAKER, 50 mL, Pk. 12	.....	41.34
1531H60	BEAKER, 50 mL, Cs. 48	.....	126.24
1531H76	BEAKER, 100 mL, Pk. 12	.....	43.70
1531H76	BEAKER, 100 mL, Cs. 48	.....	133.44
1531H86	BEAKER, 150 mL, Pk. 12	.....	41.34
1531H86	BEAKER, 150 mL, Cs. 48	.....	126.24

250 mL to 1,000 mL Beakers



1531J21

- With white enamel graduations

250 mL and 400 mL beakers graduated in 25 mL intervals; 600 mL, 800 mL and 1,000 mL in 50 mL intervals.

1531J11	BEAKER, 250 mL, Pk. 12	.....	\$41.34
1531J13	BEAKER, 250 mL, Cs. 48	.....	126.24
1531J21	BEAKER, 400 mL, Pk. 12	.....	49.20
1531J23	BEAKER, 400 mL, Cs. 48	.....	150.24
1531J31	BEAKER, 600 mL, Pk. 6	.....	30.99
1531J33	BEAKER, 600 mL, Cs. 36	.....	141.84
1531J41	BEAKER, 800 mL, Pk. 6	.....	42.66
1531J43	BEAKER, 800 mL, Cs. 24	.....	130.32
1531J51	BEAKER, 1,000 mL, Pk. 6	.....	58.95
1531J53	BEAKER, 1,000 mL, Cs. 24	.....	180.00

1,500 mL to 4,000 mL Beakers



1531J61

- With white enamel graduations

1500 mL and 2000 mL beakers graduated in 200 mL intervals; 3000 mL size in 250 mL; 4000 mL size in 500 mL intervals.

1531J61	BEAKER, 1,500 mL, Pk. 4	.....	\$47.58
1531J63	BEAKER, 1,500 mL, Cs. 16	.....	145.28
1531J71	BEAKER, 2,000 mL, Pk. 4	.....	77.87
1531J73	BEAKER, 2,000 mL, Cs. 8	.....	119.68
1531J80	BEAKER, 3,000 mL, Cs. 6	.....	33.33
1531J83	BEAKER, 3,000 mL, Cs. 6	.....	151.74
1531J90	BEAKER, 4,000 mL, Cs. 6	.....	61.09
1531J93	BEAKER, 4,000 mL, Cs. 6	.....	279.78

Pyrex Griffin Beaker Assortment

- One each of the following sizes: 50, 100, 250, 600 and 1,000 mL.

1531J95	BEAKER, Assortment	\$22.38
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50-1,000 mL Student Grade Beakers



1531K15

- With spout

For convenience the 250 through 1,000 mL beakers have a double-graduated metric scale to indicate approximate content; all sizes have a large, triangular marking spot.

50, 100 and 150 mL beakers graduated in 10 mL intervals; 250 and 400 mL beakers graduated in 25 mL intervals; 600, 800 and 1,000 mL beakers graduated in 50 mL intervals.

1531K03	BEAKER, 50 mL, Cs. 6	.....	\$30.60
1531K06	BEAKER, 100 mL, Cs. 12	.....	32.40
1531K09	BEAKER, 150 mL, Cs. 12	.....	30.60
1531K12	BEAKER, 250 mL, Cs. 12	.....	29.52
1531K15	BEAKER, 400 mL, Cs. 12	.....	32.40
1531K18	BEAKER, 600 mL, Cs. 6	.....	21.16
1531K21	BEAKER, 800 mL, Cs. 6	.....	26.20
1531K24	BEAKER, 1,000 mL, Cs. 6	.....	40.98

CORNING

PYREX® HEAVY DUTY BEAKERS



1532N56

- Extra-heavy walls and rim to minimize breakage
- Case contains four trays

150 mL beakers are furnished in a stackable, foamed plastic tray containing 12 beakers and are

graduated in 10 mL intervals. 250 and 400 mL beakers are graduated in 25 mL intervals; 600, 800 and 1,000 mL in 50 mL intervals; 2,000 mL in 200 mL intervals and 4,000 mL in 500 mL intervals.

1532N06	BEAKER, 150 mL, Pk. 12	.....	\$73.29
1532N08	BEAKER, 150 mL, Cs. 48	.....	239.04
1532N10	BEAKER, 250 mL, Pk. 12	.....	77.19
1532N10	BEAKER, 250 mL, Cs. 48	.....	235.88
1532N20	BEAKER, 400 mL, Pk. 12	.....	100.77
1532N20	BEAKER, 400 mL, Cs. 48	.....	307.80
1532N30	BEAKER, 600 mL, Pk. 6	.....	59.34
1532N30	BEAKER, 600 mL, Cs. 36	.....	271.80
1532N50	BEAKER, 1,000 mL, Pk. 6	.....	113.11
1532N50	BEAKER, 1,000 mL, Cs. 24	.....	345.36
1532N70	BEAKER, 2,000 mL, Pk. 4	.....	154.06
1532N70	BEAKER, 2,000 mL, Cs. 8	.....	235.20
1532N90	BEAKER, 4,000 mL, Pk. 4	.....	75.23
1532N90	BEAKER, 4,000 mL, Cs. 4	.....	229.72

Thomas Tips

PYREX® Beakers



Pyrex 7740 Borosilicate Glass is manufactured with uniform wall thickness and offers an optimum balance between thermal shock resistance and mechanical strength.

Most impact breakage occurs on a beaker's rim. Pyrex brand beakers have extra glass in the rim for extra strength. The pour spout (where applicable) is gently sloped rather than hooked, minimizing breakage. The low-flare spout allows controlled pouring.

Thomas Scientific

KIMBLE

KIMAX® HEAVY DUTY BEAKERS

- Thick walls reduce breakage

Graduation intervals: 250 and 400 mL beakers: 25 mL intervals; 600 mL beakers: 50 mL intervals; 1,000 mL beakers: 100 mL intervals; 2,000 mL beakers: 200 mL intervals; and 4,000 mL beakers: 500 mL intervals.



1532R06

1532R06	BEAKER, 250 mL, Pk. 12	\$77.97
1532R08	BEAKER, 250 mL, Cs. 48	298.08
1532R16	BEAKER, 400 mL, Pk. 12	101.71
1532R18	BEAKER, 400 mL, Cs. 48	310.56
1532R26	BEAKER, 600 mL, Pk. 6	59.34
1532R28	BEAKER, 600 mL, Cs. 36	271.80
1532R46	BEAKER, 1,000 mL, Pk. 6	113.11
1532R48	BEAKER, 1,000 mL, Cs. 24	345.36
1532R66	BEAKER, 2,000 mL, Pk. 4	154.05
1532R68	BEAKER, 2,000 mL, Cs. 8	295.20
1532R86	BEAKER, 4,000 mL, Pk. 2	70.79
1532R88	BEAKER, 4,000 mL, Cs. 4	215.15

GUTH

KOOL-GRIP® BEAKERS

Handle hot or dangerous liquids without tongs or towels

- Cork jackets provide a firm, safe and more comfortable grip
- Of heat-resistant Pyrex® brand glass



1533E47

1533E41	BEAKER, 250 mL	\$10.03
1533E43	BEAKER, 400 mL	10.01
1533E45	BEAKER, 600 mL	11.21
1533E47	BEAKER, 800 mL	11.14

Thomas Tips

Kimax® Beakers



Kimax Brand KG-33 borosilicate glass has a low coefficient of expansion and a very high resistance to chemical attack. It meets the requirements for Type I Class A glass of ASTM E438 "Glasses in Laboratory Apparatus". The alkali content is low and it is made without elements of the calcium magnesium and zinc groups of heavy metals. The combined total of arsenic and antimony oxides is less than 0.005%.

CORNING

PYREX® TALL FORM BEAKERS

- With spout

Sizes 100 and 200 mL furnished in stackable, foamed plastic tray containing 12 beakers; tray cavity can be lined with ice; cases contain four trays. All other sizes packed in partitioned cartons.



1535E07

THOMAS NO.	CAPACITY	GRADUATED	INTERVAL	TAKES WATCH GLASS	QTY.	PRICE
1535E11	100 mL	20 to 80 mL	10 mL	65 mm	Pk. 12	\$51.09
Cs. 48					196.00	
1535E21	200 mL	25 to 150 mL	25 mL	75 mm	Pk. 12	53.92
1535E23					Cs. 48	164.64
1535E31	300 mL	25 to 250 mL	25 mL	90 mm	Pk. 12	60.36
1535E33					Cs. 48	184.32
1535E41	400 mL	25 to 325 mL	25 mL	100 mm	Pk. 6	32.70
1535E43					Cs. 36	149.76
1535E51	600 mL	50 to 450 mL	50 mL	100 mm	Pk. 6	35.92
1535E53					Cs. 30	137.10
1535E61	800 mL	50 to 550 mL	50 mL	115 mm	Pk. 6	46.53
1535E63					Cs. 24	142.08
1535E81	1,000 mL	50 to 950 mL	50 mL	125 mm	Pk. 6	62.33
1535E83					Cs. 18	142.74

KIMBLE

KIMAX® TALL FORM BERZELIUS BEAKERS

- With spout
- Designed from ASTM E 960 Type III

100 mL size graduated in 10 mL intervals; 200, 300 and 400 mL size in 25 mL intervals; 500, 600 and 1,000 mL size in 50 mL intervals.

1535H11	BEAKER, 100 mL, Pk. 12	\$51.25
1535H13	BEAKER, 100 mL, Cs. 48	156.48
1535H21	BEAKER, 200 mL, Pk. 12	54.39
1535H23	BEAKER, 200 mL, Cs. 48	166.08
1535H31	BEAKER, 300 mL, Pk. 12	60.68
1535H33	BEAKER, 300 mL, Cs. 48	165.28
1535H41	BEAKER, 400 mL, Pk. 6	32.85
1535H43	BEAKER, 400 mL, Cs. 36	150.48
1535H51	BEAKER, 500 mL, Pk. 6	40.71
1535H53	BEAKER, 500 mL, Cs. 30	156.40
1535H61	BEAKER, 600 mL, Pk. 6	46.85
1535H63	BEAKER, 600 mL, Cs. 24	143.04
1535H81	BEAKER, 1,000 mL, Pk. 6	62.88
1535H83	BEAKER, 1,000 mL, Cs. 18	144.00



1535H11

DYNALON

PLASTIC GRADUATED
BEAKERS

Griffin style



1542D02

- Special no-drip pouring spouts
- Constructed of chemically resistant, autoclavable polypropylene
- Griffin Style

For general laboratory use. Will withstand temperatures up to 120°C. Graduated in mL.

1542D02	BEAKER, 50 mL, Cs. 40	81.36
1542D04	BEAKER, 100 mL, Cs. 45	88.85
1542D06	BEAKER, 250 mL, Cs. 45	89.39
1542D08	BEAKER, 500 mL, Cs. 35	123.25
1542D10	BEAKER, 1,000 mL, Cs. 12	53.44
1542D12	BEAKER, 2,000 mL, Cs. 4	42.62
1542D14	BEAKER, 5,000 mL, Cs. 4	85.67

Low form with handle



1542D23

- Better stability
- Autoclavable polypropylene

Ideal for urine collection and industrial applications; graduated in liters and milliliters.

1542D23	BEAKER, w/Handle, 500 mL, Ea.	35.70
1542D24	BEAKER, w/Handle, 500 mL, Cs. 24	123.08
1542D25	BEAKER, w/Handle, 1,000 mL, Ea.	5.74
1542D26	BEAKER, w/Handle, 1,000 mL, Cs. 24	124.01
1542D27	BEAKER, w/Handle, 2,000 mL, Ea.	6.15
1542D28	BEAKER, w/Handle, 2,000 mL, Cs. 12	88.04
1542D29	BEAKER, w/Handle, 3,000 mL, Ea.	6.13
1542D30	BEAKER, w/Handle, 3,000 mL, Cs. 12	87.75
1542D31	BEAKER, w/Handle, 5,000 mL, Ea.	31.98
1542D32	BEAKER, w/Handle, 5,000 mL, Cs. 12	345.33

AZLON

POLYPROPYLENE
BEAKERSTapered, low-form, printed
graduations

1542D40

- Shatter resistant
- Chemically resistant
- Autoclavable

Beakers are manufactured from virgin, high clarity polypropylene and feature easy-to-read, blue, printed graduations.

Anti-lock feature prevents beakers from sticking together when stacked. Include SPI recycling codes and are batch stamped for full traceability. Can be used with temperatures up to 121°C.

1542D40	BEAKER, 25 mL, Pk. 10	\$13.69
1542D42	BEAKER, 50 mL, Pk. 10	13.69
1542D44	BEAKER, 100 mL, Pk. 10	17.10
1542D46	BEAKER, 250 mL, Pk. 10	38.05
1542D48	BEAKER, 400 mL, Pk. 10	32.46
1542D50	BEAKER, 500 mL, Pk. 10	43.63
1542D52	BEAKER, 600 mL, Pk. 10	25.37
1542D54	BEAKER, 1,000 mL, Pk. 10	37.90
1542D56	BEAKER, 2,000 mL, Pk. 10	15.74
1542D58	BEAKER, 3,000 mL, Pk. 10	16.93
1542D60	BEAKER, 5,000 mL, Pk. 10	23.82

Thomas Tips
Polypropylene (PP)

Translucent, autoclavable and has no known solvent at room temperature. It is slightly more susceptible than polyethylene to strong oxidizing agents. It offers the best stress-crack

resistance of the polyolefins. Products made of polypropylene are brittle at 0°C and may crack or break if dropped from benchtop height.

NALGE

POLYPROPYLENE
BEAKERS

Unbreakable in ordinary use



1542E06 series

- Nalge 1201
- Autoclavable
- Superior chemical resistance
- Break resistant with ribs for easy stacking, maximum temperature use 135°C

Contact-clear wall allows easy observation of liquid level within the beaker. 30 and 50 mL beakers are graduated in 5 mL intervals; 100 and 150 mL beakers are graduated in 10 mL intervals; 250 mL beakers are graduated in 25 mL intervals; 400 and 600 mL beakers are graduated in 50 mL intervals; 1,000 mL beakers are graduated in 100 mL intervals; 2,000 mL beakers are graduated in 200 mL intervals; and 4,000 mL beakers are graduated in 250 mL intervals. Not for use on hotplates. Meets the ISO/DIS 7056 International Standards for Laboratory Plasticware Accuracy.

1542E06	BEAKER, 30 mL, Pk. 12	\$20.84
1542E08	BEAKER, 30 mL, Cs. 48	83.37
1542E10	BEAKER, 50 mL, Pk. 12	29.84
1542E12	BEAKER, 50 mL, Cs. 48	83.37
1542E20	BEAKER, 100 mL, Pk. 12	26.05
1542E22	BEAKER, 100 mL, Cs. 48	104.20
1542E30	BEAKER, 150 mL, Pk. 12	33.30
1542E32	BEAKER, 150 mL, Cs. 48	133.20
1542E40	BEAKER, 250 mL, Pk. 6	23.13
1542E42	BEAKER, 250 mL, Cs. 36	138.77
1542E50	BEAKER, 400 mL, Pk. 6	33.35
1542E52	BEAKER, 400 mL, Cs. 36	200.11
1542E60	BEAKER, 600 mL, Pk. 4	28.80
1542E62	BEAKER, 600 mL, Cs. 24	172.81
1542E70	BEAKER, 1,000 mL, Pk. 3	27.16
1542E72	BEAKER, 1,000 mL, Cs. 12	108.65
1542E80	BEAKER, 2,000 mL, Ea.	13.75
1542E82	BEAKER, 2,000 mL, Cs. 6	119.52
1542E90	BEAKER, 4,000 mL, Ea.	34.16
1542E92	BEAKER, 4,000 mL, Cs. 4	136.65

NALGE

ECONOMY SERIES
POLYPROPYLENE
BEAKERS

Flared rim and spout



1542G10 series

- Nalge 1202
- Rigid and hard
- Raised base
- Autoclavable
- Walls are tapered and ribbed for nesting and storage

1542G10	BEAKER, 30 mL, Pk. 12	83.58
1542G12	BEAKER, 30 mL, Cs. 48	33.36
1542G20	BEAKER, 50 mL, Pk. 12	9.58
1542G22	BEAKER, 50 mL, Cs. 48	38.36
1542G30	BEAKER, 100 mL, Pk. 12	13.67
1542G32	BEAKER, 100 mL, Cs. 48	54.69
1542G40	BEAKER, 150 mL, Pk. 12	18.79
1542G42	BEAKER, 150 mL, Cs. 48	67.16
1542G50	BEAKER, 250 mL, Pk. 6	11.03
1542G52	BEAKER, 250 mL, Cs. 36	66.15
1542G60	BEAKER, 400 mL, Pk. 6	15.50
1542G62	BEAKER, 400 mL, Cs. 36	53.17
1542G70	BEAKER, 600 mL, Pk. 4	13.30
1542G72	BEAKER, 600 mL, Cs. 24	79.82
1542G80	BEAKER, 1,000 mL, Pk. 3	14.90
1542G82	BEAKER, 1,000 mL, Cs. 12	59.50
1542G86	BEAKER, 2,000 mL, Ea.	10.28
1542G88	BEAKER, 2,000 mL, Cs. 6	61.65
1542G95	BEAKER, 4,000 mL, Ea.	15.60
1542G97	BEAKER, 4,000 mL, Cs. 4	62.39

AZLON

POLYPROPYLENE
BEAKERSTapered, low-form, molded
graduations

1542H01 series

- Shatter resistant
- Chemically resistant
- Autoclavable

Beakers are manufactured from virgin, high clarity polypropylene and feature molded graduations. Anti-lock feature prevents beakers from sticking together when stacked. Include SPI recycling codes and are batch stamped for full traceability. Can be used with temperatures up to 121°C.

1542H01	BEAKER, 25 mL, Pk. 10	89.71
1542H03	BEAKER, 50 mL, Pk. 10	9.71
1542H05	BEAKER, 100 mL, Pk. 10	12.14
1542H07	BEAKER, 250 mL, Pk. 10	19.93
1542H09	BEAKER, 400 mL, Pk. 10	28.05
1542H11	BEAKER, 500 mL, Pk. 10	30.00
1542H13	BEAKER, 600 mL, Pk. 10	18.02
1542H15	BEAKER, 1,000 mL, Pk. 10	26.92
1542H17	BEAKER, 2,000 mL, Pk. 10	10.82
1542H19	BEAKER, 3,000 mL, Pk. 10	11.69
1542H21	BEAKER, 5,000 mL, Pk. 10	16.50

DISPOSABLE GRADUATED
POLYPROPYLENE
BEAKERS

1542K13 series

- Chemically resistant
- Autoclavable
- Less rigid than reusable type
- Liquid level can be easily seen through translucent wall
- Low form beakers have spout and ribs on rim

Size 15 mL, graduated in 5 mL and 18 oz. intervals; sizes 30 and 50 mL, in 5 mL and 14 oz.; sizes 100 and 150 mL, in 5 mL and 12 oz.; size 250 mL, in 10 mL and 1 oz.; and sizes 400 and 600 mL, in 25 mL and 1 oz.

1542K13	BEAKER, 15 mL, Bg. 100	\$18.00
1542K15	BEAKER, 15 mL, Cs. 1,000	180.00
1542K21	BEAKER, 30 mL, Bg. 100	21.90
1542K23	BEAKER, 30 mL, Cs. 1,000	219.00
1542K30	BEAKER, 50 mL, Bg. 100	24.00
1542K32	BEAKER, 50 mL, Cs. 1,000	240.00
1542K40	BEAKER, 100 mL, Bg. 100	36.15
1542K42	BEAKER, 100 mL, Cs. 1,000	361.50
1542K50	BEAKER, 150 mL, Bg. 100	56.55
1542K52	BEAKER, 150 mL, Cs. 1,000	565.50
1542K56	BEAKER, 250 mL, Bg. 50	34.35
1542K58	BEAKER, 250 mL, Cs. 500	343.50
1542K70	BEAKER, 400 mL, Bg. 50	47.10
1542K72	BEAKER, 400 mL, Cs. 500	471.00
1542K78	BEAKER, 600 mL, Bg. 25	27.10
1542K82	BEAKER, 600 mL, Cs. 500	542.80

DISPOSABLE POLYSTYRENE BEAKERS



1542S11 series

- Disposable, translucent polystyrene, resistant to diluted or weak acids, alcohols and bases
- Usable to 200°F, with four-way pour spouts

Smaller sizes suitable for use as sampling cup for atomic absorption units, flame photometers and blood cell counters. Graduations on 150 mL and larger, accurate to ±5%.

1542S11	BEAKER, 5 mL, Pk. 1000	957.00
1542S10	BEAKER, 10 mL, Pk. 1000	80.00
1542S21	BEAKER, 20 mL, Pk. 500	72.50
1542S31	BEAKER, 50 mL, Pk. 500	90.00
1542S41	BEAKER, 100 mL, Pk. 100	31.50
1542S51	BEAKER, 250 mL, Pk. 100	40.00
1542S76	BEAKER, 500 mL, Pk. 100	58.00
1542S96	BEAKER, 1,000 mL, Pk. 100	86.75

TRI-STIR BEAKERS

Disposable graduated polypropylene construction



1542V01 series

- Flat bottom for magnetic stirring (not for use on hot plates)
- Chemical resistant
- Autoclavable
- Constructed with sloping sides that allow nesting for storage

Unique triangular flanged rim with notches forms

three spill-resistant pouring spouts; rim can also support beakers in the opening of a water bath. Substance volume is easily read in graduations through the beaker's translucent wall.

1542V13 Variety Pack contains five each of the six sizes. Dimensions (H x o.d.; mm): 50 mL beakers: 55 x 44; 100 mL beakers: 74 x 59; 250 mL beakers: 88 x 78; 400 mL beakers: 110 x 80; 800 mL beakers: 135 x 110; 1,000 mL beakers: 145 x 113.

1542V01	BEAKER, 50 mL, Cs. 100	\$21.30
1542V03	BEAKER, 100 mL, Cs. 100	24.60
1542V05	BEAKER, 250 mL, Cs. 100	34.50
1542V07	BEAKER, 400 mL, Cs. 100	36.65
1542V09	BEAKER, 800 mL, Cs. 100	45.50
1542V11	BEAKER, 1,000 mL, Cs. 100	54.15
1542V13	BEAKER VARIETY SET, Pk. 30	39.45

POLYPROPYLENE TRI-POUR BEAKER



1543D00 series

- Triangular flange forms rim into three shallow pouring spouts; also serves to support beakers in openings of water bath
- Disposable, particularly where cleaning is expensive or inconvenient
- Chemically resistant, autoclavable

Substance volume is easily read through beaker's translucent wall. Sloping sides allow nesting for storage. Recess below rim takes accessory caps. Caps, of waxed cardboard, have flat tabs for lifting.

Tri-Pour Beakers

1543D00	BEAKER, 50 mL, Ct. 100	\$29.27
1543D40	BEAKER, 100 mL, Ct. 100	24.70
1543D50	BEAKER, 250 mL, Ct. 100	38.19
1543D60	BEAKER, 400 mL, Ct. 100	40.54
1543D70	BEAKER, 800 mL, Ct. 100	49.35
1543D80	BEAKER, 1,000 mL, Ct. 100	60.59

Caps for Tri-Pour Beakers

1543F30	CAPS, 50 mL, Pk. 500	\$29.10
1543F40	CAPS, 100 mL, Pk. 500	23.73
1543F50	CAPS, 250 mL, Pk. 500	30.55
1543F60	CAPS, 400 mL, Pk. 500	33.00
1543F70	CAPS, 800 mL, Pk. 250	24.80
1543F80	CAPS, 1,000 mL, Pk. 250	29.92

POLYPROPYLENE STACUPS®

- Sterilizable
- Chemically unreactive
- Rim can be squeezed to form pouring spout
- Reusable but economically priced for one-time use



1543J40

Resistant to temperatures up to 121°C (250°F). Resistant to most solvents, acids, alkalies, salts, organics and biologicals. Cups are available in a 120cc/4 oz. size with 10cc/0.5 oz. graduations and a 500cc/17 oz. size with 25cc/0.5 oz. graduations. Model 1543J61 polystyrene lids

are for use with 120cc cups and will also fit 1543J86 disposable Discups®. Model 1543J65 lids are constructed of a tight-fitting, stretch polyethylene and are for use with 500cc cups.

Staccups

1543J20	CUP, 120 cc/4 oz., Pk. 25	\$10.00
1543J25	CUP, 120 cc/4 oz., Cs. 1000	400.00
1543J40	CUP, 500 cc/17 oz., Pk. 25	16.00
1543J45	CUP, 500 cc/17 oz., Cs. 500	320.00

Lids for Staccups

1543J61	LID, Small, PS, Pk. 100	\$12.05
1543J63	LID, Small, PS, Cs. 2400	306.40
1543J85	LID, Large, PE, Pk. 25	11.50
1543J87	LID, Large, PE, Pk. 500	276.00

DISPOSABLE PAPER DISCUPS®

- 120cc/4 oz. cup with 10cc/0.5 oz. graduations
- Constructed of unwaxed, plain, finished paper
- Economically priced



1543J86

Lids available in frosted polystyrene, see Thomas number 1543J61.

1543J86	PAPER CUP, 120 cc/4 oz. Sleeve of 100	\$18.75
1543J88	PAPER CUP, 120 cc/4 oz. Cs. 2,500	450.00

AZLON

POLYMETHYLPENTENE BEAKERS

Tapered, low-form, molded graduations

- Shatter resistant
- Chemically resistant
- Autoclavable
- Glass-like clarity



1543K01 series

Beakers are manufactured from polymethylpentene and feature molded graduations. Anti-lock feature prevents beakers from sticking together when stacked. Include SPI recycling codes and are batch stamped for full traceability. Can be used with temperatures up to 180°C.

1543K01	BEAKER, 25 mL, Pk. 10	\$15.00
1543K03	BEAKER, 50 mL, Pk. 10	15.00
1543K05	BEAKER, 100 mL, Pk. 10	18.86
1543K07	BEAKER, 250 mL, Pk. 10	15.47
1543K09	BEAKER, 400 mL, Pk. 10	21.76
1543K11	BEAKER, 500 mL, Pk. 10	24.07
1543K13	BEAKER, 600 mL, Pk. 5	28.00
1543K15	BEAKER, 1,000 mL, Pk. 5	8.42
1543K17	BEAKER, 2,000 mL, Ea.	17.38
1543K19	BEAKER, 3,000 mL, Ea.	16.69
1543K21	BEAKER, 5,000 mL, Ea.	26.34

Tapered, low-form, printed graduations

Identical to 1543K01 series beakers except graduations are printed in easy-to-read, blue graduations.



1546B01 series

1546B01	BEAKER, 25 mL, Pk. 10	\$23.58
1546B03	BEAKER, 50 mL, Pk. 10	25.82
1546B05	BEAKER, 100 mL, Pk. 10	27.35
1546B07	BEAKER, 250 mL, Pk. 10	22.44
1546B09	BEAKER, 400 mL, Pk. 10	31.59
1546B11	BEAKER, 500 mL, Pk. 10	34.90
1546B13	BEAKER, 600 mL, Pk. 5	40.59
1546B15	BEAKER, 1,000 mL, Pk. 5	12.13
1546B17	BEAKER, 2,000 mL, Ea.	25.13
1546B19	BEAKER, 3,000 mL, Ea.	27.30
1546B21	BEAKER, 5,000 mL, Ea.	38.14

NALGE

POLYMETHYLPENTENE
BEAKERS

Plastic, with glass-like clarity, strong and impact-resistant



1546C05 series

- Nalge 1203 series
- Low form with spout
- Autoclavable
- Usable continuously to 150°C, intermittently to 175°C

Excellent chemical resistance, although attacked by powerful oxidizing agents and affected by prolonged exposure to hydrocarbons, ethers, etc. Not for use on hot plate. Meets ISO/DIS 7056 International Standards for Laboratory Plasticware Accuracy.

Graduation intervals: 30 and 50 mL sizes: 5 mL intervals; 100 and 150 mL: 10 mL intervals; 250 mL, 25 mL intervals; 400 and 600 mL, 50 mL intervals; 1,000 mL, 100 mL intervals; 2,000 mL, 400 mL intervals; 4,000 mL, 500 mL intervals.

1546C05	BEAKER, 30 mL, Pk. 12	.....	\$21.61
1546C06	BEAKER, 30 mL, Cs. 36	.....	94.82
1546C15	BEAKER, 50 mL, Pk. 12	.....	31.61
1546C18	BEAKER, 50 mL, Cs. 36	.....	94.82
1546C25	BEAKER, 100 mL, Pk. 12	.....	36.34
1546C28	BEAKER, 100 mL, Cs. 36	.....	115.02
1546C35	BEAKER, 150 mL, Pk. 12	.....	50.32
1546C38	BEAKER, 150 mL, Cs. 36	.....	150.95
1546C45	BEAKER, 250 mL, Pk. 6	.....	33.53
1546C48	BEAKER, 250 mL, Cs. 24	.....	134.13
1546C55	BEAKER, 400 mL, Pk. 6	.....	48.98
1546C58	BEAKER, 400 mL, Cs. 24	.....	195.99
1546C65	BEAKER, 600 mL, Pk. 4	.....	40.84
1546C68	BEAKER, 600 mL, Cs. 12	.....	122.51
1546C75	BEAKER, 1,000 mL, Pk. 3	.....	37.36
1546C78	BEAKER, 1,000 mL, Cs. 12	.....	149.42
1546D10	BEAKER, 2,000 mL, Ea.	.....	29.49
1546D13	BEAKER, 2,000 mL, Cs. 4	.....	117.91
1546B30	BEAKER, 4,000 mL, Ea.	.....	42.14
1546B33	BEAKER, 4,000 mL, Cs. 4	.....	398.57

NALGE

TEFLON® LOW FORM
BEAKERS

Chemical resistant Teflon® PFA



1548A10 series

- Rigid, injected molded walls
- Temperature range: -270°C to 250°C
- Autoclavable

NOTE: not for use on hot plates.

1548A76	BEAKER, PFA, 30 mL, Ea.	.....	\$20.31
1548A80	BEAKER, PFA, 30 mL, Cs. 6	.....	121.86
1548A84	BEAKER, PFA, 50 mL, Ea.	.....	24.28
1548A88	BEAKER, PFA, 50 mL, Cs. 6	.....	145.53
1548A92	BEAKER, PFA, 100 mL, Ea.	.....	28.38
1548A96	BEAKER, PFA, 100 mL, Cs. 6	.....	170.29
1548B01	BEAKER, PFA, 150 mL, Ea.	.....	38.54
1548B05	BEAKER, PFA, 150 mL, Cs. 6	.....	231.23
1548B09	BEAKER, PFA, 250 mL, Ea.	.....	52.72
1548B14	BEAKER, PFA, 250 mL, Cs. 6	.....	316.30
1548B18	BEAKER, PFA, 400 mL, Ea.	.....	64.93
1548B22	BEAKER, PFA, 400 mL, Cs. 4	.....	259.73
1548B26	BEAKER, PFA, 600 mL, Ea.	.....	93.15
1548B30	BEAKER, PFA, 600 mL, Cs. 4	.....	372.58
1548B34	BEAKER, PFA, 1,000 mL, Ea.	.....	137.84
1548B38	BEAKER, PFA, 1,000 mL, Cs. 4	.....	561.38

NALGE

TEFLON® PFA BEAKERS
WITH HANDLES

A safer alternative to glass or traditional straight-sided beakers plus the chemical resistance of Teflon



1548F90

- Molded handle provides easy, safe handling and pouring
- Temperature range: -270° to +250°C
- Easy to clean
- Thick, rigid walls are translucent for easy observations of liquid level
- Beakers have molded-in graduations in mL and ounces

PFA is excellent for high-purity work such as electronics manufacturing and environmental testing.

1548F85	BEAKER, 1,000 mL, Ea.	.....	\$196.04
1548F90	BEAKER, 3,000 mL, Ea.	.....	271.95

Thomas Tips

Polymethylpentene (PMP)



Similar to polypropylene, but it has an isobutyl group instead of a methyl group attached to each monomer group of the chain. Its chemical resistance is close to that of polypropylene. It is more easily softened by some hydrocarbons and chlorinated solvents. PMP is slightly more susceptible than polypropylene to attack by oxidizing agents. Its excellent transparency, rigidity and resistance to chemicals and high temperatures make PMP a superior material for labware. PMP withstands repeated autoclaving, even at 150°C. It can withstand intermittent exposure to temperatures as high as 175°C. Products made of PMP are brittle at ambient temperature and may crack or break if dropped from benchtop height.

Teflon® PFA

Translucent and slightly flexible. It has the widest temperature range of the fluoropolymers, from -270°C to +250°C with superior chemical resistance across the range. It has better strength, stiffness and creep resistance than TFE. Teflon PFA has a low coefficient of friction, outstanding antistatic properties and is flame-resistant.

NALGE

STUDENT LABWARE KIT

Consists of a useful and varied assortment of the most popular labware items for the high school chemistry laboratory



1548602

- Break-resistant plastic labware means a safe, quiet laboratory and the economics of longer equipment life and lower replacement costs

Contents:

- (4) Griffin Low-Form Beakers - 50, 100, 250 and 400 mL
- Half-Rack
- Stirring Rod
- (2) Graduated Cylinders - 25 and 100 mL
- (2) 50 mL sample Vials with closure
- 250 mL Wash Bottle
- Forceps
- 6 ft. 180 clear Plastic Tubing ($\frac{1}{8}$ inch i.d.)
- (2) Narrow-Mouth Bottles - 250 and 500 mL
- Safety Thistle Tube
- 250 mL Erlenmeyer Flask
- (6) 68 mm Disposable Droppers
- 65 mm i.d. Analytical Funnel
- 30 mL Drop-Dispenser Bottle
- 100 mm Powder Funnel

1548602 STUDENT LABWARE KIT 852.03

1548604 STUDENT LABWARE KIT, Co. 6 312.19

DYNALON

HEAVY WALL PTFE BEAKERS

Unaffected by virtually all chemicals

- Isostatically molded from virgin PTFE
- Machine finished, smooth surface allows for easy cleaning and eliminates contamination
- Withstands temperatures from cryogenic range to 260°C



1548625 and 620

Resists adhesion by practically all substances. Supplied with pouring spout. Beaker covers sold separately.

NOTE: PTFE is affected by molten alkali metals.

Beakers

1548620	BEAKER, 10 cc	89.72
1548623	BEAKER, 25 cc	11.47
1548626	BEAKER, 50 cc	12.66
1548629	BEAKER, 100 cc	16.07
1548633	BEAKER, 250 cc	32.89
1548636	BEAKER, 400 cc	49.06
1548639	BEAKER, 500 cc	42.51
1548642	BEAKER, 600 cc	62.18
1548645	BEAKER, 1000 cc	108.29
1548648	BEAKER, 2000 cc	167.41
1548651	BEAKER, 5000 cc	607.23

Beaker Covers

1548655	BEAKER COVER, 10 cc	54.26
1548658	BEAKER COVER, 25 cc	5.36
1548661	BEAKER COVER, 50 cc	5.69
1548664	BEAKER COVER, 100/250 cc	7.54
1548665	BEAKER COVER, 250 cc	8.20
1548667	BEAKER COVER, 500 cc	19.27
1548670	BEAKER COVER, 400/600 cc	14.20
1548673	BEAKER COVER, 1000 cc	19.67
1548676	BEAKER COVER, 2000 cc	26.67

Thomas Tips

Teflon® PTFE or TFE

Has remarkable chemical resistance to all known solvents and the lowest friction coefficient of any solid. It is repeatedly autoclavable, incombustible and may be used to 260°C. PTFE's chemical stability and non-wettability make it suitable for use in extreme circumstances.



NORTON

TEFLON® BEAKERS, TFE



1548L05 series

- Thin, flat bottom allows rapid heat transfer
- Can be heated directly on a hot plate to 500°F

Low form beaker with spout have an extremely smooth finish which resists contamination. Chemically cleaned at factory. Usable from -265° to +315°C. Individually packaged in polyethylene bags; tough, opaque plastic extremely chemical resistant.

1548L05	BEAKER, 1 mL	.....	\$10.61
1548L15	BEAKER, 5 mL	.....	14.59
1548L25	BEAKER, 10 mL	.....	17.51
1548L35	BEAKER, 30 mL	.....	35.17
1548L45	BEAKER, 50 mL	.....	34.83
1548L55	BEAKER, 100 mL	.....	31.77
1548L65	BEAKER, 250 mL	.....	51.89
1548L75	BEAKER, 400 mL	.....	72.58
1548L85	BEAKER, 600 mL	.....	106.33
1548L95	BEAKER, 1,000 mL	.....	157.76

HUMBOLDT

BEAKER TONGS

For 100 mL to 1,500 mL beakers



1557S28

- Stainless steel with riveted joint and fiberglass-covered jaws; overall length 12 $\frac{1}{2}$ "

1557S28	BEAKER TONGS	\$33.94
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For 50 mL to 2,000 mL beakers



1557S80

- Made of cadmium-plated, 6 mm steel wire with vinyl-covered jaws

Maximum jaw opening 4 $\frac{1}{2}$ " overall length 9". Should not be subjected to temperatures above 110°C.

1557S80	BEAKER TONGS	\$6.75
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CORNING

PYREX® BELL JARS

High form, with knob and finely ground flange



1577J18

- Corning 6885
- Made from specially selected mold-blown blanks

Bottom flange has a finely ground finish to assure tight sealing with ground glass plates.

Dimensions (i.d. x o.d.): 1577J18 Jar: 5 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ "; 1577J33 Jar: 6 $\frac{1}{8}$ " x 6 $\frac{1}{8}$ "; 1577J48 Jar: 8 $\frac{1}{8}$ " x 8 $\frac{1}{8}$ "; Height of jar (excluding knob) given in listings below.

1577J18	BELL JAR, 9", Cs. 2	.....	\$941.16
1577J33	BELL JAR, 11", Cs. 2	699.60
1577J48	BELL JAR, 15", Cs. 2	858.02

4
Easy Ways
to Order

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800 345 2100
856 467 2000

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800 345 5232
856 467 3087

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Thomas Scientific
P.O. Box 99
Sewesboro, NJ 08085

Electronic

• www.thomssc.com
• e-commerce
• EDI

NALGE

VACUUM CHAMBERS

Nalge 5305 series

- Transparent, cylindrical polyetherimide jar inverted on white polycarbonate base plate that has removable tubing adapter for connection to $\frac{1}{2}$ -inch i.d. vacuum tubing
- Vacuum rating 29 inches Hg @25°C
- Jar has amber cast and seals against Neoprene gasket in base
- Molded circular ridges on base help to center jar, prevent it from shifting and minimize deformation



1577T14, 1577T18

Resistant to acids, bases, aliphatic alcohols, aliphatic hydrocarbons and saturated halogenated hydrocarbons. Base has more limited chemical resistance: usable with weak acids and aliphatic alcohols and fair resistance to aliphatic hydrocarbons. Wall thickness $\frac{1}{8}$ inch; o.d. x height shown in listings. Avoid prolonged exposure to the following chemicals or their vapors: amines, aldehydes, esters, aromatic hydrocarbons and ketones.

WARNING: do not autoclave when used for vacuum service. Not usable with most organic solvents. Contact with unsaturated or partially halogenated hydrocarbons may cause immediate failure of jar.

1577T14	BELL JAR, 8 $\frac{1}{2}$ x 10 $\frac{1}{2}$ in.	\$188.45
1577T18	BELL JAR, 12 x 12 in.	299.46

Base Plate

- White polycarbonate

Plate is 13 $\frac{1}{2}$ " x 1" thick, with three concentric Neoprene gaskets, 8", 11 $\frac{1}{2}$ " and 9" o.d. Gaskets lie in channels separated by concentric ridges which serve to center and to brace rim of bell jar.

1577J38	BASE PLATE, 13 in.	\$40.57
1577J40	BASE PLATE, 13 in. Cl. 4	198.28

Jars

- Transparent polyetherimide with amber cast

As furnished with 1577T14 and 1577T18 Bell Jars. Replacement gaskets are available.

1577T50	JAR, 8 $\frac{1}{2}$ x 10 in.	\$105.55
1577T60	JAR, 12 x 12 in.	298.09

VACUUM PUMP PLATE



1577T90

- For use with bell jars up to 9" in diameter
- Plate is nickel-plated steel, 1 $\frac{1}{2}$ " thick, ground flat to seal
- Has $\frac{1}{2}$ " hose connector; vacuum release valve and rubber sealing gaskets

1577T90	VACUUM PUMP PLATE	\$265.00
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POLYPROPYLENE STORAGE BINS

- Stackable
- Autoclavable at 121°C (250°F)
- Resistant to most weak acids and alkalies and to many organic solvents



1587L40

Finger grips on sides, curved bottom at front and anti-slide stop on top preventing stacked bins from shifting forward. Slot on front to hold label. Full-width hanger lip allows suspension from bench rack (1587L40) or wall panel (1587L50). Sized to fit in even numbers between vertical supports on standard 36 inch wide shelving. Available in red or blue on special order. Required rack not included, see Thomas number 1587L40.

POLYPROPYLENE STORAGE BINS

THOMAS NO.	DIMENSIONS (Inside) (Outside)	SLOT SIZE	SIZE	QUANTITY (carton)	PRICE
1587J10	3 $\frac{1}{2}$ " x 4" x 2 $\frac{1}{2}$ " (4 $\frac{1}{2}$ x 5 $\frac{1}{2}$ x 3")	3" x 1"	X-Small	24	\$29.20
1587J25	3 $\frac{1}{2}$ " x 6" x 2 $\frac{1}{2}$ " (4 $\frac{1}{2}$ x 7 $\frac{1}{2}$ x 3")		Small		
1587J40	4 $\frac{1}{2}$ " x 9 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " (5 $\frac{1}{2}$ x 11 x 5)	4" x 1 $\frac{1}{2}$ "	Medium	12	\$6.78
1587J55	6 $\frac{1}{2}$ " x 12" x 6 $\frac{1}{2}$ " (8 $\frac{1}{2}$ x 13 $\frac{1}{2}$ x 7 $\frac{1}{2}$)		Large		
1587J70	15" x 12" x 6 $\frac{1}{2}$ " (16 $\frac{1}{2}$ x 13 $\frac{1}{2}$ x 7 $\frac{1}{2}$)		X-Large			8	78.48