



Section V

GENERAL EQUIPMENT

This section proposes a wide range of laboratory equipment and accessories that cannot be located in a specific application, but they are utilized for general purposes and are suitable to perform properly different measuring procedures of liquids and solids, weighing, temperature, containers, still, pH, chemicals, reagents etc.

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GENERAL EQUIPMENT

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MECHANICAL BALANCES, ORIGINAL "OHAUS"

MODELS:

V014

DIAL-O-GRAM Balance 310 g. capacity $\times$ 0,01 g sensitivity, triple beam with vernier. Includes stainless steel pan, zero adjustment. Weight 3 Kg



V016-02

BALANCE, 16 Kg capacity $\times$ 5 g sensitivity. Bearing plate dia. 254 mm. Complete with set of weights. Weight 15 Kg



V015

CENT-O-GRAM Balance 311 g. capacity $\times$ 0,01 g sensitivity, four beams. Includes stainless steel pan, zero adjustment. Weight 3 Kg

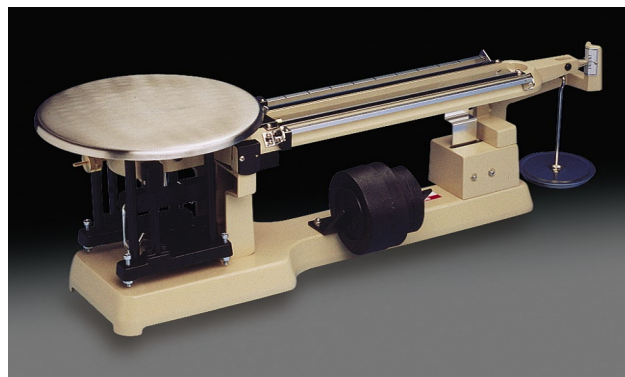
V016

TRIPLE BEAM Balance 2610 capacity $\times$ 0,1 g sensitivity. Includes stainless steel pan, set of weights. Weight 4 Kg



V017

HEAVY DUTY SOLUTION Balance 20 Kg. capacity $\times$ 1 g sensitivity. Complete with set of weights, sliding weight for tare up to 2270 g, holding plate 280 mm diameter. Weight 20 Kg



V018

HARVARD TRIP DUAL PAN Balance 2000 g. capacity $\times$ 0,1 g sensitivity. The plates are stainless steel. Complete with set of weights. Weight 6 Kg



V016-01

TRIPLE BEAM Balance 2610 capacity $\times$ 0,1 g sensitivity, with vernier. Weight 4 Kg





V023-01

Moisture determination balance

160 g. capacity $\times$ 0,001/0,01 g. sensitivity with tare up to 10 g.
Samples are dried by a infrared lamp with adjustable heat control.
A built-in-timer 0-61 min. switches off the heater at the end of the drying cycle which is signaled by a bell. Moisture loss percentage and residual mass are read directly from the lighted scale.

Power supply:
220-240 V 1ph 50/60 Hz

V023-01



V023-02

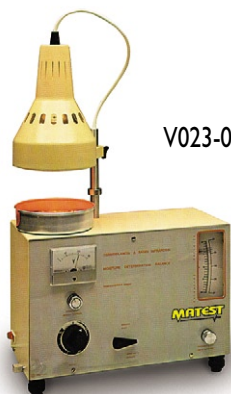
Moisture determination balance

Capacity: 10 g. of material
Dial range 0 -20% and 20 - 40%
Accuracy 0,1%
Direct reading of moisture on a wide dial

Timer 0 - 30 minutes

Power supply:
220-240 V 1ph 50/60 Hz

V023-02



Semi-automatic zero-centering balance

This scale with central zero is particularly suitable for predetermined weights. It has two pans; the sample is placed on the main pan and the weights are placed on the other until the pointer indicates the dial.

Weights are not included and should be ordered separately.

MODELS:

V031 Capacity 10 Kg. sens. 1 g. Dial -100 +100 g

V034 Capacity 30 Kg. sens. 5 g. Dial -250 +250 g



V031

WEIGHTS FOR BALANCES:

V036

SET OF BRASS WEIGHTS comprised in a wooden box.

Total weight reaching 1000 g. The set is formed by: 1x500 g, 1x200 g, 2x100 g, 1x50 g, 1x20 g, 2x10 g, 1x5 g, 2x2 g, 1x1 g

V036-02 Weight 0,5 Kg, cast iron, calibrated

V037 Weight 1 Kg, cast iron, calibrated

V038 Weight 2 Kg, cast iron, calibrated

V039 Weight 5 Kg, cast iron, calibrated

V040 Weight 10 Kg, cast iron, calibrated

V040-01 Weight 20 Kg, cast iron, calibrated

V036-02 ÷ V040-01



V036

V041

DENSITY BASKET

STANDARDS: ASTM C127 - AASHTO T85

Used for specific gravity tests, stainless steel made, dia. 200x200 mm, mesh size 3,35 mm

Weight 1,5 Kg



V042



V041

B017-01

B017-01

Density Basket, stainless steel made, dia. 150x135 mm, mesh size 0,074 mm. Weight 500 g

B017-02

Density Basket, stainless steel made, dia. 150x135 mm, mesh size 0,400 mm. Weight 600 g

B017-04

Density Basket, stainless steel made, dia. 150x135 mm, dual mesh size 0,074 and 0,400 mm. Weight 700 g

A103

Density Basket, stainless steel made, dia. 120 x 160 mm, mesh size 3,35 mm

V042

Density tank, dimensions 370x370x330 mm
Weight: 3 Kg

ROTARY AUTOMATIC SCALES

Five pointer turns allow a larger amplitude of the subdivision.
Double quadrant and under quadrant sacking for multiples.
Oil oscillation shock-absorber, with exterior adjustment.
Displacement of the head in all positions without angulation limit.
Pan, mass-produced, stainless steel.

Models	Capacity	Sensitivity
V044	5 Kg	2 g
V046	20 Kg	5 g
V047	30 Kg	10 g
V057	60 Kg	20 g
V059	150 Kg	50 g
V060	300 Kg	100 g



V047



V057

BATCHING SCALE

Completely produced in painted metal, double oscillation, case in strong profiled, platform in reinforced steel. The sliding weight and accessories are brass made while the rod is from chromed steel. Supplied complete with set of weights.

Models	Capacity	Sensitivity
V050	100 Kg	100 g
V052	300 Kg	100 g
V053	500 Kg	100 g



V050

SEMI-AUTOMATIC SPECIFIC GRAVITY BALANCES

Used both for general laboratory purposes and for specific gravity determination of liquids and solids. Supplied complete with plexiglass tank, wire basket, set of weights and standard pan for normal weighting operations.

Model	Capacity	Sens.	Scale range	Volumes up to
V091	2 Kg	0,2 g	20 g	1000 ml
V092	5 Kg	0,2 g	20 g	1000 ml
V093	10 Kg	0,5 g	100 g	4000 ml



V092





V064

Analytical balance

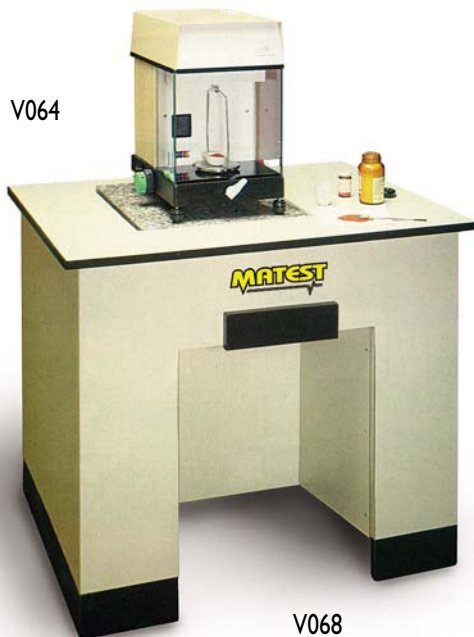
Single pan, optical reading. Capacity 200 g. and sensitivity 0,1 mg. Ideal for very accurate weightings and for heat of hydration cement tests. Weightings by subtraction. Pre-weighting device to avoid damages to knives.

Outer handling of all weights up to 199,9 g. Stainless steel pan, 100 mm. dia., hangers height 167 mm. Wide screen up to 100 mg. Direct optical reading of the 2nd and 3rd decimal figure and vernier for the 4th. Levelling feet and air bubble. Dust-proof plastic cover.

Power supply: 220-240 V 1ph 50/60 Hz

Dimensions: 310x400x450 mm

Weight: 11 Kg



V064

V068

V068

Vibration-free assembly

Wholly plastic coated table 90x70x80 cm, with sand and rubber dampers totally independent from the inner damping frame. Marble support for the instrument 38x44 cm. and small drawer. Inner iron rack consisting of four hollow legs filled up with thin sand and rubber, to absorb all kinds of vibration. This unit is specially needed by analytical and high precision balances, so as to grant steady support and to avoid external vibrations.

V085

Specific gravity frame (Bouyancy balance system)

STANDARDS: BS 812:2 - 1881:114 - EN 12390:7 - UNI 6394

Used for specific gravity determination of concrete, aggregates etc. It must be utilized with a suitable electronic balance fitted with an under - hook facility (see table at next pages).

Robust steel frame made, it incorporates on its lower part a platform adjustable in height, holding a water container; and allowing the specific gravity test. The balance is not included and must be ordered separately.

Dimensions: 510x510x1150 mm Weight: 50 Kg

ACCESSORIES:

V085-01 Cradle for holding concrete cube and cylinder specimens

V041 Density Basket, stainless steel, dia. 200 x 200 mm, mesh 3,35 mm

V065

Analytical balance

Single pan, digital reading. Capacity 210 g. and sensitivity 0,1 mg. Ideal for very accurate weightings and for heat of hydration cement tests. Weighting by subtraction. Pre-weighting device. Outer handling of all weights up to 199,9 g. Direct reading on a wide 7- segment led display up to the 4th decimal figure. Reading hold up for any interval of time. BCD output for the printer (accessory).

Dust-proof plastic cover. Levelling feet and air bubble.

Power supply: 220-240 V 1ph 50/60 Hz

Weight: 13 Kg

V065-01

ANALYTICAL BALANCE, identical to mod. V65 but having capacity 120 g and sens. 0,1 mg. Supplied complete.



V065

V072-02



V085-01

V085

ELECTRONIC PRECISION TOP LOADING AND PLATFORM BALANCES

Immediate zeroing and tare, automatic stabilization, automatic changeover of scale sensitivity (dual range models only).

Power supply (electric models): 220-240V 1ph 50/60 Hz

section V



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V072-09



V073-07



V070-02



V071-08



V073-05



V072-05



V073-06



V071-07



V072-06



Model	Capacity	Sensitivity	Pan dimensions mm	Note:	Accessories
V070-01	150 g	0,005 g	124x144	C + G	
V070-02	160 g	0,001 g	Ø 110	A + F	G + H
V070-03	300 g	0,01 g	Ø 110	C + G	
V070-04	300 g	0,1 g	132x160	C	
V070-05	330 g	0,001 g	Ø 110	A + F	G + H
V070-06	500 g	0,001 g	Ø 110	A + F	G + H
V070-07	600 g	0,02 g	Ø 110	C + G	
V070-08	600 g	0,2 g	132 x 160	C	
V070-09	800 g	0,01 g	Ø 160	A + F	G + H
V071-01	1000 g	1 g	180x180	B	
V071-02	1200 g	0,02 g	140x170	C + G	
V071-03	1500 g	0,5 g	132x160	C	
V071-04	1700 g	0,01 g	Ø 160	A + F	G + H
V071-10	2200 g	0,01 g	Ø 160	A + F + G	
V071-05	3000 g	0,1 g	140x170	C + G	
V071-06	3000 g	1 g	232x232	C	
V071-07	3500 g	0,01 g	Ø 160	A + F	G + H
V071-11	4100 g	0,01 g	Ø 160	A + F + G	
V071-08	4500 g	0,1 g	Ø 160	A + F	G + H
V071-12	600/4500 g	0,01/0,1 g	Ø 160	A + F + G	
V071-09	5000 g	1 g	150x160	A	
V072-01	5000 g	5 g	180x180	B	
V072-02	800/5500 g	0,01/0,1 g	Ø 160	A + F	G + H
V072-03	7500 g	0,1 g	200x200	A	
V072-10	8000 g	0,1 g	190x210	A + F + G	
V072-04	1000/10000 g	0,1/1 g	190x210	A + F	G + H
V072-05	10 Kg	0,5 g	250x210	D + G	
V072-06	12 Kg	0,1 g	320x210	A + F	G + H
V072-07	15 Kg	0,5 g	210x210	D	
V072-11	15 Kg	1 g	320x210	A + F + G	
V072-08	15 Kg	5 g	232x232	C + G	
V072-09	4500/16000 g	0,1/1 g	320x210	A + F	G + H
V073-01	16 Kg	0,1 g	320x210	A + F	G + H
V073-02	20 Kg	1 g	250x210	D + G	
V073-09	4500/20000 g	0,1/1 g	320x210	A + F + G	
V073-03	30 Kg	0,5 g	450x500	A	
V073-10	30 Kg	1 g	320x210	A + F + G	G + H
V073-04	4500/30000 g	0,1/1 g	320x210	A + F	G + H
V073-05	30 Kg	10 g	300x330	E	
V073-06	60 Kg	1 g	450x500	A	G + H
V073-07	60 Kg	20 g	360x450	C	
V073-08	60 Kg	5 g	430x530	E + G	
V074-01	100 Kg	10 g	430x530	E + G	
V074-02	200 Kg	20 g	430x530	E + G	
V074-03	300 Kg	50 g	430x530	E + G	

NOTE: Standard equipment

A = Power supply only 220-240 V 1ph 50/60 Hz

B = Power supply only alkaline batteries

C = Power supply alkaline batteries, and
also 220-240 V 1ph 50/60 Hz

D = Power supply: only rechargeable batteries

E = Power supply: rechargeable batteries, and
also 220-240 V 1ph 50/60 Hz

F = Under balance weighting facility for specific gravity tests

G = RS 232 port

ACCESSORIES:

G = **V074-11**

H = **V074-12**

RS 232 port with connection cable

Printer complete with connection cable



V065-02

Electronic analytical balance

Capacity: 200 g
 Readability: 0,1 mg
 Tolerance: +/- 0,2 mg
 Outer keyboard with direct reading on a wide LCD display.
 Data interface: RS 232
 Single pan dia. 85 mm
 Tare range: by subtraction up to full capacity.
 Dust proof plexiglass cover.
 Ideal for very accurate weightings and for heat of hydration cement tests.
 Power supply: 230V 50/60Hz 1ph
 Dimensions: 315 x 225 x 330 mm
 Weight : 10 kg approx.



V065-02

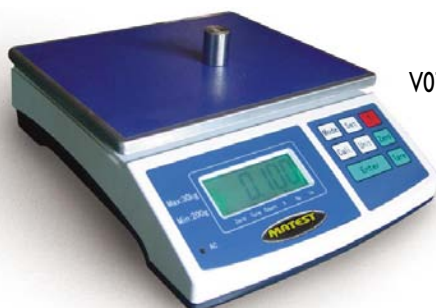
ELECTRONIC PRECISION TOP LOADING AND PLATFORM BALANCES

Immediate auto zeroing and tare for the whole range, automatic stabilization.
 Rechargeable batteries with battery charger included.
 It can be used also during recharging.
 Data output RS 232 C
 Direct reading on a wide LCD display
 Power supply: 230V 50/60Hz 1ph



V075-01÷V075-05

Model	Capacity	Readability	Divisions	Pan dimensions
V075-01	150 g	0,005 g	30000	Ø 115 mm
V075-02	300 g	0,01 g	30000	"
V075-03	600 g	0,01 g	60000	"
V075-04	1100 g	0,01 g	110000	"
V075-05	1500 g	0,05 g	30000	"



V075-10÷V075-13

V075-20÷V075-22



Model	Capacity	Readability	Divisions	Pan dimensions
V075-10	3 kg	0,1 g	30000	270 x 220 mm
V075-11	6 kg	0,2 g	30000	270 x 220 mm
V075-12	15 kg	0,5 g	30000	270 x 220 mm
V075-13	30 kg	1 g	30000	270 x 220 mm

Model	Capacity	Readability	Divisions	Platform dimensions
V075-20	60 kg	2 g	30000	600 x 450 mm
V075-21	150 kg	5 g	30000	600 x 450 mm
V075-22	300 kg	10 g	30000	600 x 450 mm

Digital specific gravity balances

Precision electronic balances for specific gravity determination.
Power supply 230V 1ph 50/60Hz and rechargeable batteries with battery charger supplied with.

Automatic tare on the full range, weighting in percentage.

Weightings memory button.

Suitable also for standard weightings.

Top pan dimensions: 225 x 300 mm

Dimensions: 320 x 340 x 125 mm

Weight : 3,8 kg

Available Models:

V090-01 Balance 6000 g capacity 0,1 g sens.

V090-02 Balance 15000 g capacity 0,2 g sens.

V090-03 Balance 30000 g capacity 0,5 g sens

NEEDED ACCESSORY:

V090-10

Specific Gravity Kit, composed by :

Support bridge frame, plexiglas tank, under hook device, stainless steel basket.



section V



News

LABORATORY GLASSWARE

Measuring cylinders, available in the following models:

Capacità	transparent plastic spouted	glass with stopper	opaque plastic spouted	transparent glass spouted
10 ml.	V098	V099	V100	V101
25 ml.	V098-01	V099-01	V100-01	V101-01
50 ml.	V098-02	V099-02	V100-02	V101-02
100 ml.	V098-03	V099-03	V100-03	V101-03
250 ml.	V098-04	V099-04	V100-04	V101-04
500 ml.	V098-05	V099-05	V100-05	V101-05
1000 ml.	V098-06	V099-06	V100-06	V101-06
2000 ml.	V098-07	V099-07	V100-07	V101-07



Pyknometers, pyrex glass, with ground-in-perforated stopper

Capacity	Mouth 29 mm	Wide Mouth 50 mm
250 ml	V105-03	=
500 ml	V105	V105-04
1000 ml	V105-01	V105-05
2000 ml	V105-02	V105-06



Beakers, pyrex glass with spout. Squat form.

Model	Capacity
V104	25 ml.
V104-01	50 ml.
V104-02	100 ml.
V104-03	250 ml.
V104-04	600 ml.
V104-05	1000 ml.
V104-06	2000 ml.
V104-07	5000 ml.



Pyknometers, borosilicate glass.

STANDARD: EN 1097-6

Complete with capillary tube, stopper and funnel, used to determine the voids and bulk density of aggregates

Model	Capacity
V103	500 ml
V103-01	1000 ml

Conical flasks, Erlenmeyer, pyrex glass wide mouth

Model	Capacity
V106	100 ml.
V106-01	250 ml.
V106-02	500 ml.
V106-03	1000 ml.
V106-04	2000 ml.





V107...

V106...

V103

V109-04...

V109...

Filter flasks, pyrex glass, for Vacuum filtering

Model	Capacity	Perforated bung with glass tube
V107	250 ml.	V107-11
V107-01	500 ml.	V107-12
V107-02	1000 ml.	V107-13
V107-03	2000 ml.	V107-14

Specific gravity Gay-Lussac bottles

Model	Capacity
V108	25 ml.
V108-01	50 ml.
V108-02	100 ml.



V108...

Volumetric flask, borosilicate glass, with plastic stopper

STANDARDS: BS-ISO 1042 - ASTM D854

Model	Capacity
V109	100 ml.
V109-01	250 ml.
V109-02	500 ml.
V109-03	1000 ml.

Reagent bottles

Model	Capacity
V108-10	250 ml
V108-11	500 ml
V108-12	1000 ml



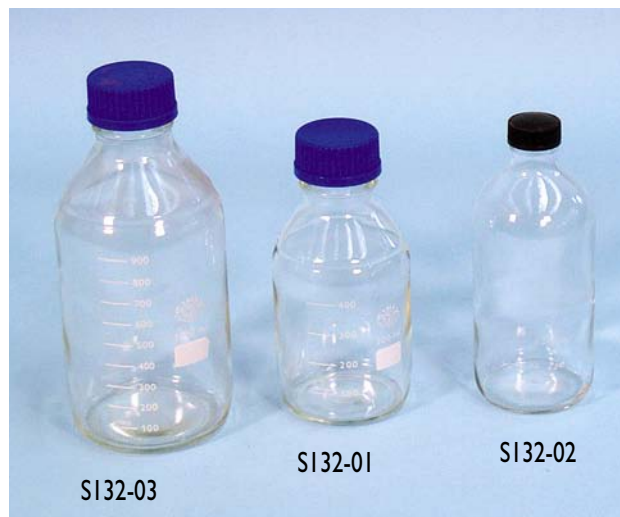
V108-10...

Volumetric flask, unstoppered, borosilicate glass

Model	Capacity
V109-04	100 ml.
V109-05	250 ml.
V109-06	500 ml.
V109-07	1000 ml.

Graduated impurities test bottles, stoppered, pyrex glass

Model	Capacity	Standard
SI32-01	500 ml	ASTM C40
SI32-02	500 ml	UNI 8020-14
SI32-03	1000 ml	ASTM C40



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Weighting bottles, glass, with cover

Model	Dimensions
VI10	dia. 50 x h. 30 mm
VI10-01	dia. 25 x h. 40 mm
VI10-02	dia. 70 x h. 50 mm
VI10-03	dia. 40 x h. 60 mm

Glass funnels

Model	Diameter
VI19	25 mm
VI19-01	50 mm
VI19-02	100 mm
VI19-03	150 mm

Hubbard-Carmick specific gravity bottle STANDARD: ASTM D70

Model	Capacity
VIII	24 ml.
VIII-01	25 ml.



Watch glass (beaker cover)

Model	Diameter
VI15	100 mm
VI15-01	130 mm

VI23
Petri dish, with cover, dia. 100 mm, pyrex glass

VI24 **Dropping bottle**, 100 ml capacity



Graduated pipettes, MOHR type, soda glass

Model	Capacity	Sub-divisions
VI42	1 ml	0,01 ml
VI42-01	5 ml	0,1 ml
VI42-02	10 ml	0,1 ml
VI42-03	25 ml	0,1 ml
VI42-04	50 ml	0,1 ml
VI42-05	100 ml	0,2 ml

Graduated burettes, soda glass with stopcock

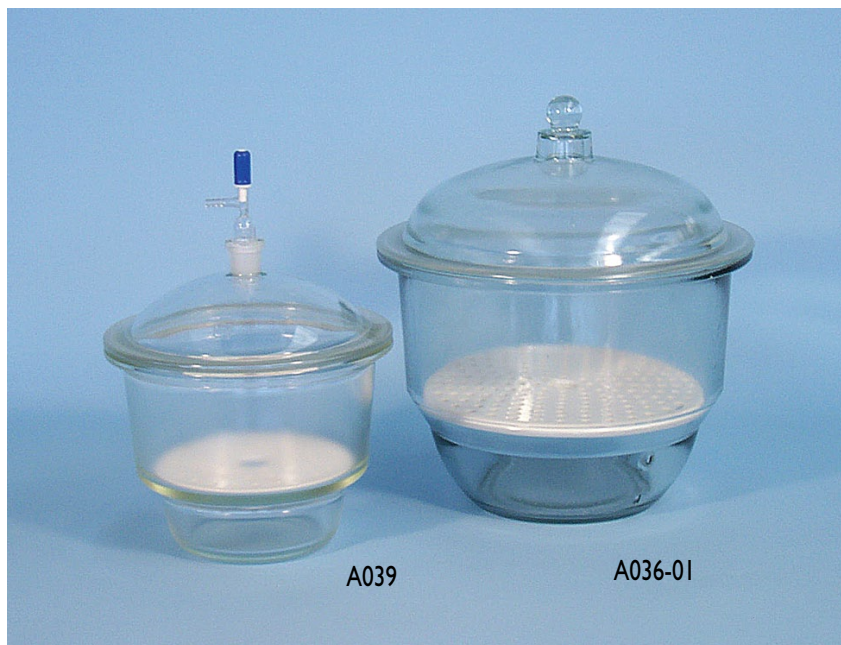
Model	Capacity	Sub-divisions
VI43	25 ml	0,1 ml
VI43-01	50 ml	0,1 ml
VI43-02	100 ml	0,2 ml

VI47

Stirring rod, glass, 8 mm dia. x 250 mm long.
Pack of 10

VI47-01

Marking pencil, glass, pack of 12



Desiccators

Complete with perforated plate

Model	Diameter
A035	200 mm
A036	250 mm
A036-01	300 mm

Vacuum type desiccators

Complete with perforated plate

Model	Diameter
A039	200 mm
A040	250 mm
A040-01	300 mm



VI38

Filter funnel, pyrex glass, dia. 90 mm. for particle analysis
tests to BS 1377

PORCELAIN PRODUCTS

Mortar and Pestle, porcelain

Model	Diameter	Height
VII 2	100 mm	60 mm
VII 2-01	125 mm	65 mm
VII 2-02	150 mm	76 mm
VII 2-03	180 mm	92 mm
VII 2-04	200 mm	100 mm



VII 13
Rubber heated pestle

Evaporating dishes, porcelain, with sput

Model	Diameter
VII 4	60 mm
VII 4-01	80 mm
VII 4-02	100 mm
VII 4-03	120 mm
VII 4-04	160 mm
VII 4-05	210 mm
VII 4-06	245 mm
VII 4-07	300 mm

- VII 7** Porcelain Crucible, 30 ml. squat form
- VII 7-01** Porcelain Lid for VII 7
- VII 7-02** Porcelain Crucible, 50 ml. squat form
- VII 7-03** Porcelain Lid for VII 7-02
- VII 7-04** Platinum crucible 25 ml

V140
Buchner funnel, porcelain, 115 mm. diameter for use with 110 mm. dia. filter paper:



PLASTIC PRODUCTS



Decanters, polypropylene made

Model	Capacity
VI02	250 ml.
VI02-01	500 ml.
VI02-02	1000 ml.
VI02-03	2000 ml.
VI02-04	3000 ml.

Wash bottles, plastic

Model	Capacity
VI20	100 ml.
VI20-01	250 ml.
VI20-02	500 ml.
VI20-03	1000 ml.

Funnels, plastic

Model	Diameter
VI35	100 mm
VI35-01	140 mm
VI35-02	210 mm

Funnels, wide mouth, plastic

Model	Diameter	
VI36	max. 80 mm	min. 15 mm
VI36-01	max. 120 mm	min. 30 mm
VI36-02	max. 150 mm	min. 35 mm

Funnels, long stem, plastic

Model	Diameter
VI37	60 mm
VI37-01	80 mm
VI37-02	100 mm

Bottles, plastic, stoppered

Model	Capacity
VI18	250 ml.
VI18-01	500 ml.
VI18-02	1000 ml.
VI18-03	2000 ml.
VI21	5 litri
VI21-01	10 litri



VI28 Bucket plastic, with handle capacity 12 litres



Boxes plastic, stacking

Model	Dimensions	Capacity
VI27	380x280x195 mm	20 litri
VI27-01	560x330x280 mm	50 litri
VI27-02	650x380x320 mm	80 litri



Sample bags, heavy plastic

Model	Dimensions
VI45	25x35 cm
VI45-01	40x60 cm



DIGITAL THERMOMETERS, complete with depth stainless steel probe, for temperature measurements of liquid, fluid, semisolid, granular materials, air:
The probe is directly connected to the digital unit.

Model	Temp. range °C	Resolution °C	Accuracy °C	Probe dimensions dia. x lenght
VI50	-50 +150	0,1	± 0,3	3x105 mm
VI51	-50 +220	0,1	± 0,3	5x125 mm
VI52	-40 +550	1	± 2	3x130 mm

VI53

Digital thermometer, including remote probe connected to the instrument with a cable 1 metre long.

Temperature range: -50 +150 °C
Resolution: 0,1 °C. Accuracy: ± 0,3 °C
Stainless steel probe dia. 3x160 mm

VI54

Digital microprocessor thermometer

Rugged, easy to use portable instrument with K type sensor for high temperature measurements, it is equipped with a membrane keyboard and microprocessor with memory functions of: hold, min/max temperatures measured in the cycle, °C/F readings.

Dual temperature range: -50 a +150 °C risoluz. 0,1 °C
-50 a +950 °C risoluz. 1 °C

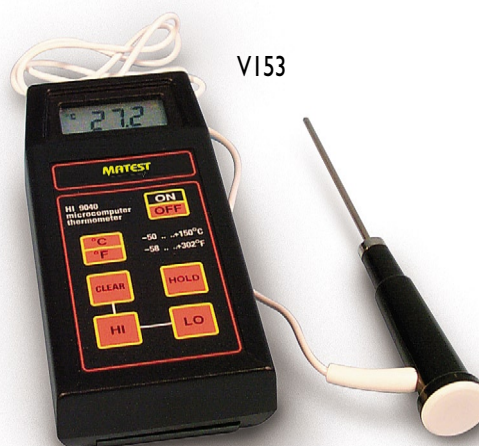
Accuracy: ± 0,5% full scale

Power supply: 1x9V battery with 500 hours use

Supplied **"without"** probe to be selected and ordered separately.

ACCESSORIES:

Stainless steel probe, complete with 1 metre cable and connector



VI54-01 Penetration probe dia. 3x120 mm.
Max temperature: 900 °C

VI54-02 Surface probe, dia. 16x260 mm.
Max temperature: 650 °

VI54-03 Air probe, dia. 3x245 mm. Max temperature: 300 °C

VI54-04 General purpose probe, dia. 5x220 mm.
Max temperature: 900 °C

VI54-05 K type thermocouple 5 m long

VI54-06 Coupling unit



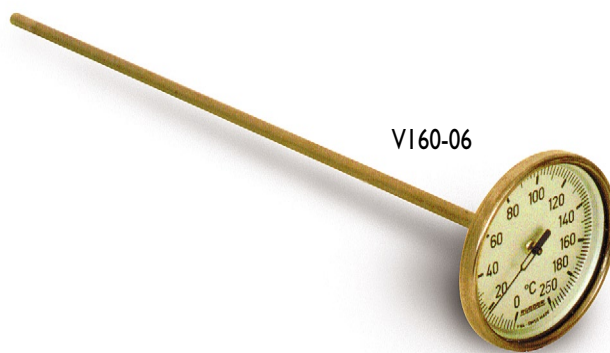
VI54-01...



DIAL THERMOMETERS, for general purpose use, and temperature measurement of freshly mixed concrete, bituminous mixtures. Stainless steel made.



Model	Range	Sub-divisions	Dial dia.	Stem lenght
VI60	-40 +40 °C	1 °C	50 mm	250
VI60-01	0 +60 °C	1 °C	50 mm	250
VI60-02	0 +100 °C	2 °C	50 mm	250
VI60-03	0 +250 °C	5 °C	50 mm	250
VI60-04	0 +400 °C	10 °C	50 mm	250
VI60-05	0 +60 °C	1 °C	75 mm	600
VI60-06	0 +250 °C	5 °C	75 mm	600



VI60-06

ARMOURED THERMOMETERS

Model	Range	Sub-divisions
VI62	0 ÷ 100 °C	1 °C
VI62-01	0 ÷ 200 °C	2 °C



VI63

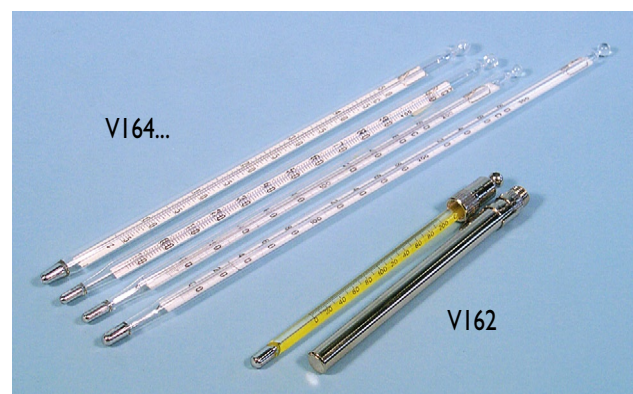
VI63

Max./Min. Thermometer, range -30°C +50 °C

THERMOMETERS,

glass stem and mercury system, for general laboratory use.

Model	Range	Sub-divisions
VI64	-5 + 50 °C	0,5 °C
VI64-01	-10 + 100 °C	1 °C
VI64-02	-10 + 200 °C	1 °C
VI64-03	-10 + 300 °C	1 °C



VI64...

VI62

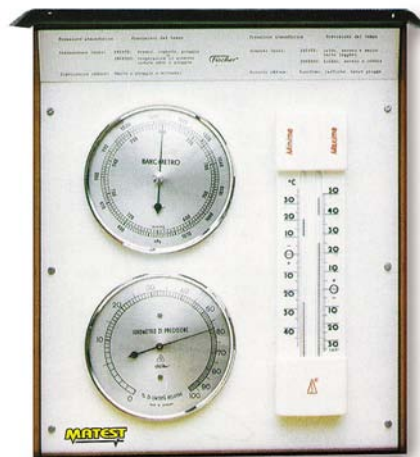


VI48

Weather station for external use.

Comprising: aneroid barometer; min/max thermometer; hair hygrometer.

Dimensions: 260x180 mm



VI48

VI48-01

Hand anemometer cup, for direct reading of wind speed in four scales.

Measuring ranges: 0 - 120 Km/h

0 - 70 Knots

0 - 35 m/s

0 - 12 beaufort

Weight: 500 g



VI48-01

VI67

Rain gauge.

for measuring rain fall. Simple model in plastic material

VI67-01

Rain gauge, for measuring rain fall; professional model, brass made. Capacity 250 cc corresponding to 25 ml of rain with 0,1 mm resolution.



VI67

VI68

Thermohygrograph, for external use

Simultaneous recording of temperature and humidity on the same chart.

Temperature range: -35 °C +45 °C

Humidity range: 0 - 100%

Time scale: 24 hours or 7 days.

Spring operated. Supplied complete

Weight: 6 Kg



VI68



VI67-01

SPARE PARTS:

VI68-02 Diagrams for thermohygrograph mod.VI68.

Pack of 55

VI68-03 Diagrams for thermohygrograph mod.VI68-01.

Pack of 55

VI68-04 Writing pen for thermohygrograph.

Pack of 4

VI69 Hair hygrometer, range 0 to 100%



VI69

VI68-01

Thermohygrograph, internal use, same to mod.VI68 but with temperature range 0 +40 °C.

Battery operated

VI70

Stop watch, digital, non magnetic, having also watch functions.
Precision 0,1 second.

VI70-01

Stop watch, mechanical dial type, non magnetic.
Precision 0,1 second.

VI71

Timing device, 0 to 60 minutes, with alarm.



VI66-01

Conductivity meter – thermometer, digital, portable. Used for site and laboratory measurements of the conductivity in soils.

Measuring scale: 0 - 3999 $\mu\text{S}/\text{cm}$ - resolution 1 $\mu\text{S}/\text{cm}$ - accuracy 1%

Temperature in $^{\circ}\text{C}$. and $^{\circ}\text{F}$., range 0 - 60 $^{\circ}\text{C}$., resolution 0,1 $^{\circ}\text{C}$.

Temperature calibration and compensation: automatic.

Use conditions: 0 to 50 $^{\circ}\text{C}$.; R.H. 100%

Feeding: battery.

Weight: 100 g



VI66-01

Soil hydrometers

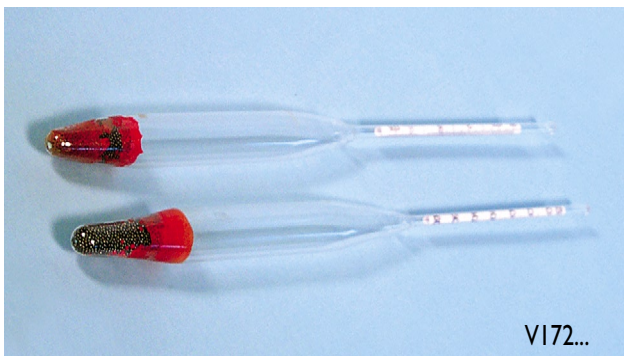
VI72 Range 0,995 - 1,038 g/ml, div. 0,001 - 151 H

VI72-02 Range -5 + 60 g/litre - 152 H

VI72-03 Range 0,995 - 1,030 g/ml - BS 1377 - long stem

VI72-04 Range 1,000 to 1,200 g/ml for additives

VI72-05 Range 1200 to 1300 g/ml for aggregates. EN 1367-2



VI72...

VI65

Thermo-hygrometer, digital, portable, with detachable probe, it measures and displays in a short time both relative humidity and temperature.

Scala: R.H. 10,0 to 95,0% - resolution 0,1% - accuracy $\pm 2\%$
 $^{\circ}\text{C}$ 0,0 to 60,0 - resolution 0,1 $^{\circ}\text{C}$ - accuracy $\pm 0,4$ $^{\circ}\text{C}$

Battery: 1x9 V

Dimensions: 185x82x45 mm

Weight: 400 g



VI65

General equipment

section V

V173 BUNSEN BURNER, universal, with air control, complete with tripod dia. 100x150 mm and iron wire gauze 150 mm square with ceramic centre.

V173-01 Bunsen Burner; universal, with air control

V173-02 Tripod dia. 100 x 150 mm

V173-05 Tripod dia. 120 x 220 mm

V173-06 Tripod dia. 150 x 230 mm

V173-03 Iron wire gauze, 150 mm square with ceramic centre

V173-04 Iron wire gauze, 200 mm square with ceramic centre

V174 CRUCIBLE TONGS

V175 VERNIER CALIPER, 0-160 mm x 0,02 mm

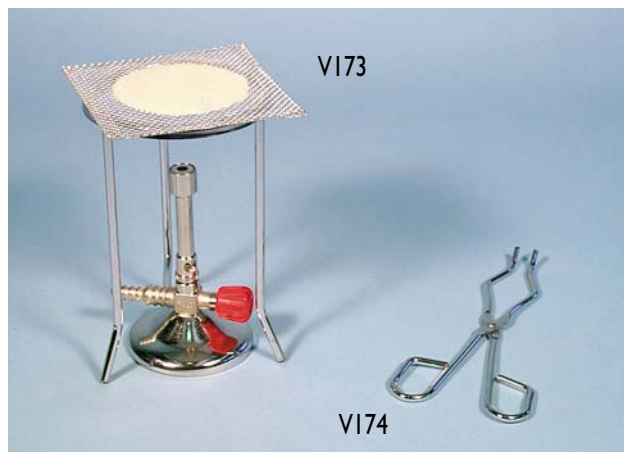
V175-01 VERNIER CALIPER, 0-205 mm x 0,02 mm

V175-02 DIGITAL VERNIER CALIPER, 0-200 mm x 0,01 mm. Readings in mm and inch.

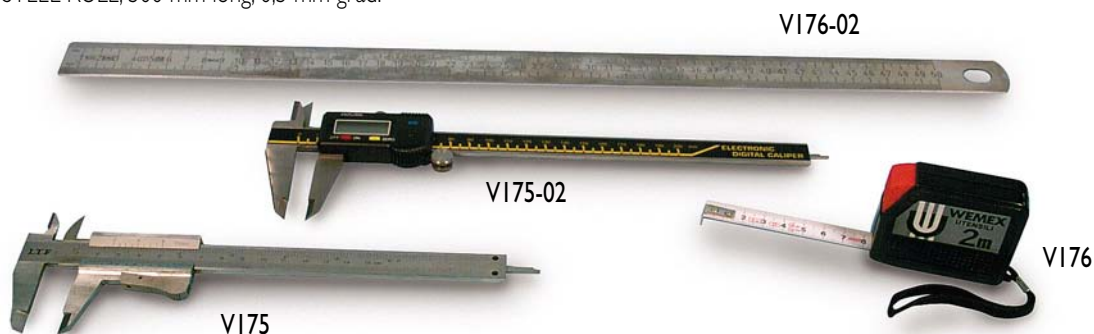
V176 STEEL FOLDING RULE, 2 metres long

V176-01 STEEL RULE, 300 mm long, 0,5 mm grad.

V176-02 STEEL RULE, 500 mm long, 0,5 mm grad.



304



V177 HEAT RESISTANT GLOVES

V177-01 NEOPRENE GLOVES



V178 SOFT BRUSH, for cleaning sieves etc.

V178-01 FINE WIRE BRUSH

V178-03 BOTTLE BRUSH dia. 50 mm

V179 BRISTLE, round, 35 mm. dia. soft hair

V179-01 BRISTLE, flat 62 mm. soft hair

V179-02 SIEVE BRUSH, double-ended, brass/nylon

V179-03 SIEVE BRUSH, double-ended, soft/hard nylon

V179-04 SIEVE BRUSH, fine brass

V179-05 SOFT HAIR BRUSH, dia. 3 mm - BS812

V179-06 BRISTLE, flat, 60 mm, nylon



V178 ÷ V179-06

METAL CONTAINERS AND PRODUCTS:

Mixing bowls, stainless steel

Model	Diameter
V116	240 mm
V116-01	300 mm
V116-02	350 mm

V112-05

Mortar and Pestle, stainless steel, dia. 135 mm..

Tins, with or without cover

- V122** Dia. 55 x 36 mm aluminium, with cover
- V122-01** Dia. 55 x 65 mm aluminium, with cover
- V122-02** Dia. 75 x 50 mm aluminium, with cover
- V122-03** Dia. 57 x 32 mm aluminium, without cover
- V122-04** Dia. 45 x 13 mm aluminium, without cover
- V122-05** Dia. 55 x 35 mm brass, without cover
- V122-06** Dia. 70 x 45 mm brass, without cover
- V122-07** Dia. 90 x 20 mm di aluminium, with cover
- V122-11** Dia. 55 x 36 mm aluminium, without cover

Tins, with cover, hermetic, polypropylene made
Pack of 6 pieces.

- V126** Dia. 40 x h 46 mm
- V126-01** Dia. 40 x h 77 mm
- V126-02** Dia. 48 x h 40 mm
- V126-03** Dia. 48 x h 60 mm
- V126-04** Dia. 67 x h 40 mm
- V126-05** Dia. 67 x h 53 mm
- V126-06** Dia. 100 x h 48 mm

PANS: ALUMINIUM, GALVANIZED AND STAINLESS STEEL MADE

Model	Dimensions mm	Material
V182	600x600x80	galvanized steel
V182-03	500x400x120	galvanized steel
V182-04	250x120x80	galvanized steel
V182-06	306x306x38	galvanized steel
V182-07	460x460x50	galvanized steel
V182-08	910x910x76	galvanized steel
V182-01	370x260x50	alluminium
V182-02	330x220x50	alluminium
V182-05	270x180x50	alluminium
V182-10	250x180x47	stainless steel
V182-11	300x220x50	stainless steel
V182-12	350x250x57	stainless steel
V182-13	400x280x60	stainless steel



SAMPLE CONTAINERS, tinned steel, airtight lid

Model	Capacity
V125	0,5 litre
V125-01	1 litre
V125-02	3 litres
V125-03	5 litres
V125-04	10 litres



ROUND ALUMINIUM SCOOPS

Model	Dimensions mm	Capacity ml
VI83	245x80	325
VI84	260x90	500
VI84-01	335x120	1000
VI84-02	380x145	1550
VI84-03	420x160	2600



VI83 ÷ VI84-03

FLAT ALUMINIUM SCOOPS

Model	Dimensions mm	Capacity ml
VI84-04	210x70	165
VI84-05	310x110	450
VI84-06	350x135	755
VI84-07	400x155	1550



VI84-04...

ROUND STAINLESS STEEL SCOOPS

Model	Dimensions mm	Capacity ml
VI85	100x185	500 ml
VI85-01	120x200	1000 ml
VI85-02	150x270	2000 ml

VI85-03 125x250 5 Kg of concrete
STANDARDS: EN 12350/1 - UNI 9416
BS 1881:101



VI85 ÷ VI85-02

VI85-03

FLEXIBLE SPATULAS

stainless steel

Model	Blade length mm
VI92	100
VI92-01	150
VI92-02	200
VI92-03	300



VI92 ÷ VI92-07

VI92-08

RIGID SPATULAS, stainless steel

Model	Blade width mm
VI92-04	20
VI92-05	50
VI92-06	70
VI92-07	100

VI92-08 CHATTAWAY SPATULA





V186 SAMPLING SPOON, large sized

V186-01 LADLE, stainless steel

V187 RECTANGULAR TROWEL 120x260 mm
stainless steel

V188 TROWEL 100x200 mm - stainless steel

V189 TROWEL 60x140 mm - stainless steel

V193 STEEL HAMMER, 300 g

V194 STEEL MALLET, 1000 g

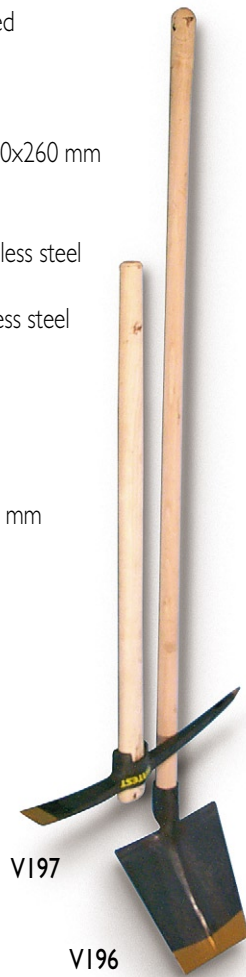
V195 RUBBER MALLET, head dia. 55 mm

V196 SHOVEL, with handle

V197 PICK MATTOCK, with handle

V198 DENSITY CHISEL, 300 mm
long x 25 mm wide

V199 DENSITY PICK, small sized



Hot plates, complete with thermoregulator
Power supply: 220-240 V 1 ph 50/60 Hz

MODELS:

V200 Round dia. 185 mm - 1500 W

V200-02 Round dia. 220 mm - 2000 W

B074 Round dia. 160 mm - 1000 W

V200-01 Rectangular 200x300 mm - 1500 W

V200-03 Rectangular 300x400 mm - 2400 W

V200-05 Rectangular 400x500 mm - 3400 W

V200-06 Rectangular 400x600 mm - 4000 W



V200



V200-03



B073-01

B073-01

Magnetic stirrer/heater for titration and stirring of
liquid and semi-solid materials. Plate dia. 150 mm.
Variable speed and temperature by electronic regulators.
Supplied complete with magnetic teflon coated follower.
Power supply: 220-240 V 1 ph 50 Hz 400 W



V201

Warm air drier, for general laboratory purposes, to dry soil and aggregate samples.

Power supply: 220-240V 1 ph 50 Hz 1200 W



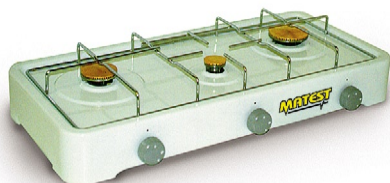
V201

V201-01

Butane three-burner field heater; to be used with a common butane cylinder

Dimensions: 600x320x90 mm

Weight: 5 Kg



V201-01

V202

Aspirator pump, used with current water having approx. pressure of 0,7 Kg/cm² to create a moderate vacuum.



V202

S351

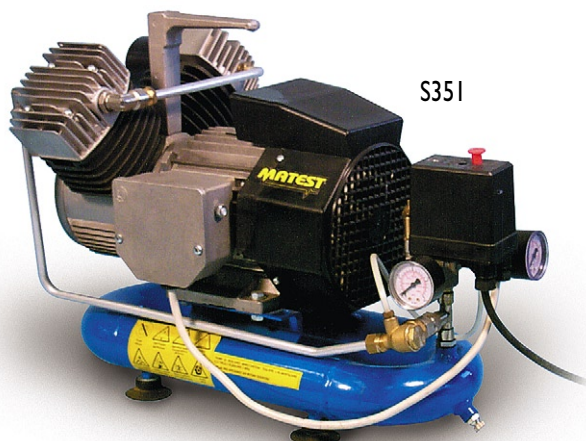
Air compressor

Max pressure: 17 bar

Power supply: 220-240V 1 ph 50 Hz

Dimensions: 520x310x400 mm

Weight: 35 Kg



S351

V203

Vacuum pump portable, one stage type, it produces an ultimate vacuum of 650 mm. Hg.

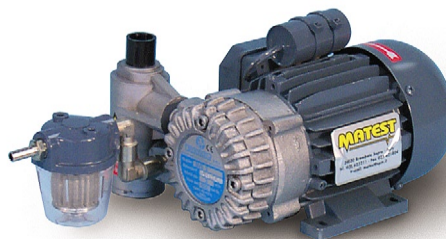
Volume sucked: 2 Cu.m/h

Supplied complete with water trap and electric cable

Power supply: 220-240V 1 ph 50 Hz

Dimensions: 180x180x220 mm

Weight: 5 Kg.



V203

V204

Vacuum pump portable, volume sucked: 5 Cu.m/h

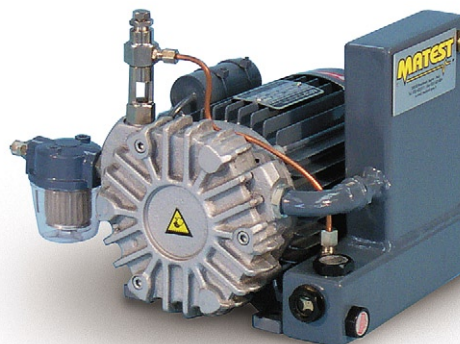
Ultimate vacuum 730 mm/Hg

Supplied complete with water trap and electric cable

Power supply: 220-240V 1 ph 50 Hz

Dimensions: 220x260x190 mm

Weight: 12 Kg



V204

V206

Air compressor

Receiver capacity is 50 litres and it delivers 70 litres of air per minute at 6 ATM.

Max pressure is 8 Kg/sq.cm.

Power supply: 220-240V 1 ph 50 Hz

Weight: 30 Kg



V206



V212

Water still 5 litre/hour

Used to produce distilled water, it is equipped of an automatic device to keep the water at a constant level. All stainless steel made it can be easily dismantled for cleaning and maintenance.

Power supply: 220-240V 1ph 50/60 Hz 4000 W

Dimensions: 550x300x650 mm

Weight: 16 Kg



V212

V214

Digital pH meter and thermometer

Accurate, compact model, in plastic carrying case, designed for fast but precise operations also on field conditions.

Measuring range: 0 - 14 pH with resolution of 0,01 pH

Temperature range: -50 +150 °C subdiv. 0,1 °C

Temperature compensation: 0 to 100 °C

Feeding: common 9 V battery

Supplied complete with combination electrode, temperature probe, butter solution powders pH 4 and 7, plastic beakers, accessories.

Weight: 3 Kg



V214

V213

Water still 10 litre/hour

Basically similar to mod.V212.

Power supply: 220-240V 1ph 50/60 Hz 8000 W

Dimensions: 600x360x750 mm

Weight: 20 Kg

V217

pH meter – thermometer, digital, portable.

Measuring range: 0 to 14 pH with resolution 0,01 pH

Supplied complete with electrode, buffer solutions pH 4 and pH 7 (5 pieces each).

Temperature in °C. and °F.

Range: 0 - 60°C. - resolution 0,1 °C.

Automatic pH calibration.

Automatic temperature compensation.

Battery feeded.

Weight: 100 g.



V217

Filter paper, pack of 100 pieces

Model	Whatman n°
V218-01	1 x 110 mm dia.
V218-02	1 x 150 mm dia.
V218-03	2 x 110 mm dia.
V218-04	5 x 150 mm dia.
V218-05	40 x 150 mm dia.
V218-06	44 x 150 mm dia.
V218-07	44 x 110 mm dia.
V218-08	50 x 110 mm dia.
V218-09	54 x 150 mm dia.
V218-10	540 x 150 mm dia.
V218-11	541 x 110 mm dia.
V218-12	54 x 400 mm dia.

V218...



General equipment

section V

Metal stands, with rod

- V219** Metal stand, base 165x140. Rod dia. 10x500 mm. Weight: 3 Kg
- V219-01** Metal stand, base 200x260. Rod dia. 12x800 mm. Weight: 5 Kg
- V220** Hoffman screw clamp, max opening 25 mm
- V220-01** Mohr clamp
- V220-02** Double sleeve metal/metal. Dia. 10÷25 mm
- V220-03** Double sleeve metal/metal. Dia. 10÷20 mm
- V220-04** Simple clamp. Dia. 10÷20 mm
- V220-05** Simple clamp. Dia. 20÷30 mm



V222

Tool kit, for general purpose uses and normal maintenance of laboratory equipment.
Weight: 7 Kg



Laboratory trolley, used for laboratory displacement of heavy pieces like moulds, soil and concrete samples etc.
Steel made, mounted on rubber wheels.

- V224** Trolley platform size 600x400 mm. Weight: 20 Kg
- V224-01** Trolley platform size 1000x600 mm. Weight: 50 Kg
- V225** Trolley at double shelf size 800x450 mm. Weight: 20 Kg



V226

Wheelbarrow, pneumatic type



Rubber tubing

Model	Inside dia.	Length
V230	5 mm	5 metri
V230-01	6,5 mm	5 metri
V230-02	8 mm	5 metri



310

MATEST

V241

Sand bath, for the homogeneous heating or evaporation of the content of beakers flasks et.

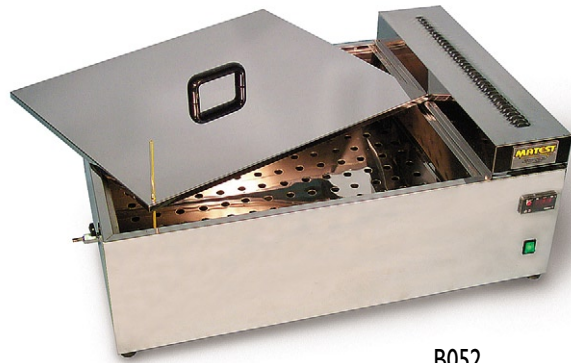
Inside dimensions: 300x240x90 mm Volume: 7 litres

Power supply: 220-240V 1 ph 50/60 Hz

Weight Kg. 17



V241



B052

Thermostatic water baths

See Sections: Asphalt/Bitumen
Cement/Mortars
Soils

CHEMICALS

Model	Description	Q.ty
V300-01	Hydrochloric acid	1000 ml
V300-02	Hydrofluoric acid	1000 ml
V300-03	Nitric acid	1000 ml
V300-04	Sulfuric acid	1000 ml
V300-05	Distilled water	1000 ml
V300-06	Hydrogen peroxide	1000 ml
V300-07	Ferric alum, indicator solution	1000 g
V300-08	Ammonia	1000 ml
V300-09	Ammonium carbonate	1000 g
V300-10	Ammonium chloride	1000 g
V300-11	Anhydride phosphoric	500 g
V300-12	Silver nitrate 10 N	1000 ml
V300-13	Barium chloride	1000 g
V300-14	Calcium chloride	1000 g
V300-15	Silica gel	1000 g
V300-16	Glycerine	1000 ml

Model	Description	Q.ty
V300-17	Mercury (pure)	1000 g
V300-18	Vaseline oil	1000 ml
V300-19	Paraffin wax	5000 g
V300-20	Potassium bichromate	1000 g
V300-21	Sodium carbonate	1000 g
V300-22	Sodium chloride	1000 g
V300-23	Sodium hexametaphosphate	1000 g
V300-24	Sodium hydroxide	1000 g
V300-25	Sodium sulfate	1000 g
V300-26	Trichloroethylene	40 Kg
V300-27	Zinc chloride	1000 g
V300-28	Blue of methylene	100 g
V300-29	Kaolinite	500 g
V300-30	Ion exchange resin	500 g
V300-30	Blu Matest painting for retouches	500 g



V300...

