



# Section V

GENERAL EQUIPMENT

section V



*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.*



**MECHANICAL BALANCES ORIGINAL "OHAUS"**

MODELS:

**V014**

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



**V015**

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

**V016**

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



**V017**

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



**ROTARY AUTOMATIC SCALES**

Five pointer turns allowig a larger amplitude of the subdivision. Double quadrant and under quadrant sicking 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
<b>V057</b>	60 Kg	20 g
<b>V059</b>	150 Kg	50 g

**V051**

**BATCHING SCALE**

Capacity: 200 Kg.

Sens. 100 g.

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.



**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



section V





**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



V035-03

**Standard calibration weights**

Used for the periodic verification of the balance readings.  
CLASS: M1  
Made in Italy  
The weights are also available with SIT Calibration Certificate.

Code	Weight	SIT Certificate	Wooden box
<b>V035-01</b>	50 g	no	yes
<b>V035-01CER</b>	50 g	yes	yes
<b>V035-02</b>	100 g	no	yes
<b>V035-02CER</b>	100 g	yes	yes
<b>V035-03</b>	200 g	no	yes
<b>V035-03CER</b>	200 g	yes	yes
<b>V035-04</b>	500 g	no	yes
<b>V035-04CER</b>	500 g	yes	yes
<b>V035-05</b>	1 kg	no	no
<b>V035-05CER</b>	1 kg	yes	no
<b>V035-06</b>	2 kg	no	no
<b>V035-06CER</b>	2 kg	yes	no
<b>V035-07</b>	5 kg	no	no
<b>V035-07CER</b>	5 kg	yes	no
<b>V035-08</b>	10 kg	no	no
<b>V035-08CER</b>	10 kg	yes	no

**V023-01**

**Moisture determination balance**

160 g. capacity x 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: 230V 1ph 50/60 Hz



V023-01

**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

Designed for laboratory general purposes, most of them are fitted with under balance weighting facility for specific gravity tests, and RS232 for PC or printer connection.

Sturdy and precise, they are fitted with strain gauge cells and large backlighted display.

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

Power supply and standard - optional accessories are listed for each model of balance and described in the legend.

section V



384



V072-09



V072-05



V070-02



V071-07



V075-13



V075-06



V073-06



V072-06



Model	Capacity	Readability	Pan dimensions mm	Standard accessories	Optional accessories
<b>V070-02</b>	160 g	0,001 g	Dia. 110	A + F + G	H
<b>V070-05</b>	330 g	0,001 g	Dia. 110	A + F + G	H
<b>V070-06</b>	500 g	0,001 g	Dia. 110	A + F + G	H
<b>V071-02</b>	1200 g	0,01 g	Dia. 130	E + F + G	H
<b>V071-10</b>	2200 g	0,01 g	Dia. 160	A + F + G	H
<b>V071-07</b>	3100 g	0,01 g	Dia. 160	A + F + G	H
<b>V071-11</b>	4100 g	0,01 g	Dia. 160	A + F + G	H
<b>V072-02</b>	800/5500 g	0,01/0,1 g	Dia. 160	A + F + G	H
<b>V072-05</b>	10 kg	0,1 g	175x200	E + F + G	H
<b>V072-06</b>	12 kg	0,1 g	320x360	E + G	H
<b>V072-09</b>	4500/16000 g	0,1/1 g	320x210	A + F + G	H
<b>V073-01</b>	16 kg	0,1 g	320x360	E + G	H
<b>V073-04</b>	4500/32000 g	0,1/1 g	320x360	A + F + G	H
<b>V073-06</b>	60 kg	1 g	425x535	E	G + H
<b>V075-02</b>	300 g	0,005 g	Dia. 116	E + G	H
<b>V075-03</b>	600 g	0,01 g	Dia. 116	E + G	H
<b>V075-06</b>	3000 g	0,05 g	125x145	E + G	H
<b>V075-11</b>	6 kg	0,1 g	225x300	E	F + G + H
<b>V075-12</b>	15 kg	0,2 g	225x300	E	F + G + H
<b>V075-13</b>	30 kg	0,5 g	225x300	E	F + G + H
<b>V075-20</b>	60 kg	2 g	450x600	E	F + G + H
<b>V075-21</b>	150 kg	5 g	450x600	E	F + G + H
<b>V075-22</b>	300 kg	10 g	450x600	E	F + G + H

Legend:

#### STANDARD ACCESSORIES

- A = Power supply only 230V 1ph 50/60Hz
- E = Power supply: rechargeable batteries and also 230V 1ph 50/60Hz
- F = Under balance weighting facility for specific gravity tests
- G = RS 232 port

#### OPTIONAL ACCESSORIES:

- F = **V074-10** Under balance weighting facility for specific gravity tests
- G = **V074-11** RS232 port with connection cable
- H = **V074-12** Printer complete with connection cable

**V085**

**Specific gravity frame  
(Bouyancy balance system)**

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

Used for specific gravity determination of concrete, aggregates etc. To be used with a suitable electronic balance fitted with an under - hook facility.

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 (see table at next pages).

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



V085

**V086 KIT**

**Specific gravity kit**

Used for specific gravity determination of solid materials. Simplified and economical solution.

The kit is composed by:

**V086** Support bridge frame with hook rod.

**V042** Density tank, plastic, 370x370x330 mm

**V041** Density basket, stainless steel, dia. 200x200 mm, mesh size 3,35 mm

To be used with a suitable electronic balance fitted with under - hook facility (see table at previous pages).

V071-07



V086 KIT

ACCESSORY for V086 KIT:

**V085-01** Cradle for holding concrete cube and cylinder specimens

**V041**

DENSITY BASKET

STANDARDS: ASTM C127 / AASHTO T85 / BS 812:2

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

Weight 1,5 Kg



V041

B017-01

**B017-01**

Density Basket, stainless steel made, dia. 150x135 mm, mesh size 0,063 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 0,063 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 plastic, dimensions 370x370x330 mm Weight: 3 Kg



V042

**LABORATORY GLASSWARE**

**Measuring cylinders**, available in the following models:

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



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

Capacity	Mouth 29 mm	Wide Mouth 50 mm
250 ml	<b>V105-03</b>	=
500 ml	<b>V105</b>	<b>V105-04</b>
1000 ml	<b>V105-01</b>	<b>V105-05</b>
2000 ml	<b>V105-02</b>	<b>V105-06</b>
3000 ml	=	<b>V105-08</b>



**Beakers**, pyrex glass with spout. Squat form.

Model	Capacity
<b>V104</b>	25 ml.
<b>V104-01</b>	50 ml.
<b>V104-02</b>	100 ml.
<b>V104-03</b>	250 ml.
<b>V104-04</b>	600 ml.
<b>V104-05</b>	1000 ml.
<b>V104-06</b>	2000 ml.
<b>V104-07</b>	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
<b>V103</b>	500 ml
<b>V103-01</b>	1000 ml
<b>V103-02</b>	2000 ml

**Conical flasks, Erlenmeyer**, pyrex glass wide mouth

Model	Capacity
<b>V106</b>	100 ml.
<b>V106-01</b>	250 ml.
<b>V106-02</b>	500 ml.
<b>V106-03</b>	1000 ml.
<b>V106-04</b>	2000 ml.





V107...

V106...

V103...

V109-04...

V109...

**Filter flasks**, pyrex glass, for Vacuum filtering

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

**Specific gravity Gay-Lussac bottles**

Model	Capacity
<b>V108</b>	25 ml.
<b>V108-01</b>	50 ml.
<b>V108-02</b>	100 ml.



V108...

**Volumetric flask**, borosilicate glass, with plastic stopper

STANDARDS: BS-ISO 1042 - ASTM D854

Model	Capacity
<b>V109</b>	100 ml.
<b>V109-01</b>	250 ml.
<b>V109-02</b>	500 ml.
<b>V109-03</b>	1000 ml.
<b>V109-08</b>	2000 ml.

**Reagent bottles**

Model	Capacity
<b>V108-10</b>	250 ml
<b>V108-11</b>	500 ml
<b>V108-12</b>	1000 ml



V108-10...

**Volumetric flask**, unstoppered, borosilicate glass

Model	Capacity
<b>V109-04</b>	100 ml.
<b>V109-05</b>	250 ml.
<b>V109-06</b>	500 ml.
<b>V109-07</b>	1000 ml.
<b>V109-09</b>	2000 ml.



**Graduated impurities test bottles,**

stoppered, pyrex glass

Model	Capacity	Standard
<b>S132-01</b>	500 ml	ASTM C40
<b>S132-02</b>	500 ml	UNI 8020-14
<b>S132-03</b>	1000 ml	ASTM C40



section V

**Weighting bottles,** glass, with cover

Model	Dimensions
<b>V110</b>	dia. 50 x h. 30 mm
<b>V110-01</b>	dia. 25 x h. 40 mm
<b>V110-02</b>	dia. 70 x h. 50 mm
<b>V110-03</b>	dia. 40 x h. 60 mm

**Glass funnels**

Model	Diameter
<b>V119</b>	25 mm
<b>V119-01</b>	50 mm
<b>V119-02</b>	100 mm
<b>V119-03</b>	150 mm

**V111**  
**Hubbard specific gravity bottle**

STANDARD: ASTM D70

Capacity: 24 ml.

**V111-01**  
**Hubbard-Carmick specific gravity bottle**

STANDARD: ASTM D70

Capacity: 25 ml.



**Watch glass**

(beaker cover)

Model	Diameter
<b>V115</b>	100 mm
<b>V115-01</b>	130 mm

**Petri dish** with cover, pyrex glass

Model	Diameter
<b>V123</b>	100 mm
<b>V123-01</b>	60 mm

**V124** **Dropping bottle,** 100 ml capacity





## Graduated pipettes, MOHR type, soda glass

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

## Graduated burettes, bended,

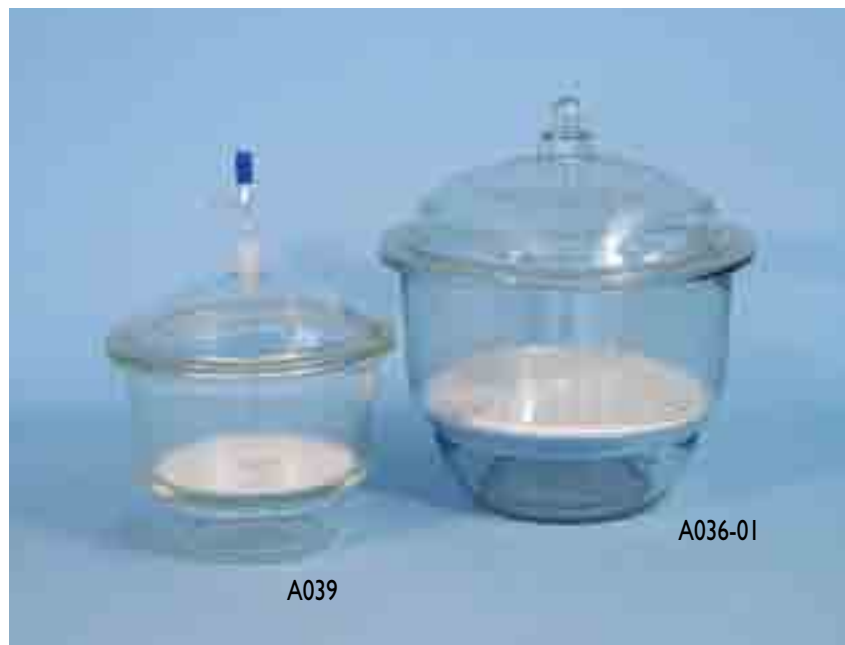
soda glass with stopcock

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

## Graduated burettes, right,

soda glass with stopcock

Model	Capacity	Sub-divisions
<b>VI43-05</b>	10 ml	0,02 ml
<b>VI43-06</b>	25 ml	0,1 ml
<b>VI43-07</b>	50 ml	0,1 ml
<b>VI43-08</b>	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 10

## Desiccators, borosilicate glass

Complete with porcelain perforated plate

Model	Diameter
<b>A035</b>	200 mm
<b>A036</b>	250 mm
<b>A036-01</b>	300 mm

## Vacuum type desiccators,

borosilicate glass.

Complete with porcelain perforated plate

Model	Diameter
<b>A039</b>	200 mm
<b>A040</b>	250 mm
<b>A040-01</b>	300 mm

### V300-15

## Silica gel

Pack of 1000 g.



### VI38

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

PLASTIC PRODUCTS



**Decanters**, polypropylene made

Model	Capacity
<b>VI02-01</b>	500 ml.
<b>VI02-02</b>	1000 ml.
<b>VI02-03</b>	2000 ml.
<b>VI02-04</b>	3000 ml.

**S157-05**

**Beaker,**

graduated, plastic,  
3000 ml capacity.  
STANDARD: UNI EN 933-9

**Wash bottles**, plastic

Model	Capacity
<b>VI20</b>	100 ml.
<b>VI20-01</b>	250 ml.
<b>VI20-02</b>	500 ml.
<b>VI20-03</b>	1000 ml.

**Funnels**, plastic

Model	Diameter
<b>VI35</b>	100 mm
<b>VI35-01</b>	140 mm
<b>VI35-02</b>	210 mm

**Funnels**, wide mouth, plastic

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

**Funnels**, long stem, plastic

Model	Diameter
<b>VI37</b>	60 mm
<b>VI37-01</b>	80 mm
<b>VI37-02</b>	100 mm

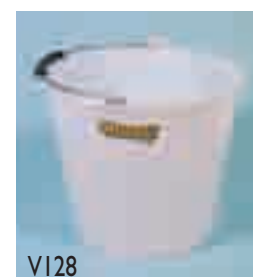
**Bottles**, plastic, wide mouth stoppered

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



**VI28**

**Bucket** plastic, with handle  
capacity 12 litres



**Boxes**

plastic, stacking

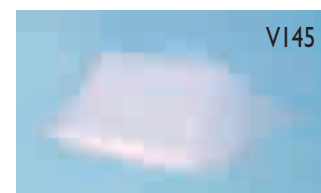
Model	Dimensions	Capacity
<b>VI27</b>	380x280x195 mm	20 litri
<b>VI27-01</b>	560x330x280 mm	50 litri
<b>VI27-02</b>	650x380x320 mm	80 litri



**Sample bags**,

heavy plastic, pack of 100 pcs

Model	Dimensions
<b>VI45-10</b>	25x35 cm
<b>VI45-11</b>	40x60 cm



**PORCELAIN PRODUCTS**

**Mortar and Pestle**, porcelain  
STANDARDS: BS 1377:2 / ASTM D421

Model	Diameter	Height
<b>V112</b>	100 mm	60 mm
<b>V112-01</b>	125 mm	65 mm
<b>V112-02</b>	150 mm	76 mm
<b>V112-03</b>	180 mm	92 mm
<b>V112-04</b>	200 mm	100 mm



section V



**V113**  
**Rubber heated pestle**

**Evaporating dishes**, porcelain, with sput

Model	Diameter
<b>V114-01</b>	80 mm
<b>V114-02</b>	100 mm
<b>V114-03</b>	120 mm
<b>V114-04</b>	160 mm
<b>V114-05</b>	210 mm
<b>V114-06</b>	254 mm

**V114-10**  
**Silica evaporating dish**  
130 mm dia. x 30 mm high.  
Capacity: 160 ml

- V117** Porcelain Crucible, 30 ml. squat form
- V117-01** Porcelain Lid for V117
- V117-02** Porcelain Crucible, 50 ml. squat form
- V117-03** Porcelain Lid for V117-02
- V117-04** Platinum crucible 25 ml

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



**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.VI 68.

Pack of 55

**VI68-03** Diagrams for thermohygrograph mod.VI 68-01.

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.VI 68 but with temperature range 0 +40 °C.

Battery operated

**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 length
<b>VI50</b>	-50 +150	0,1	± 0,3	3x105 mm
<b>VI51</b>	-50 +220	0,1	± 0,3	5x125 mm
<b>VI52</b>	-40 +550	1	± 2	3x130 mm



section V

**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, readings in °C or °F.  
Dual temperature range: -50 to +200 °C resol. 0,1 °C  
+200 to +1350 °C resol. 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 probes, 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



**C303**  
**Digital recording thermometer**, four channels, for precast concrete.

**C303-10**  
**Digital recording concrete**, four channels and infrared interface, for precast concrete.

Technical data and accessories: see pag. 199



**DIAL THERMOMETERS**

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

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



**ASTM, IP, NF thermometers**, glass stem and mercury system

Model	Range °C	Graduation °C	ASTM	IP
<b>B057-08</b>	23 a 27	0,1		38C
<b>B063-01</b>	-2 a 300	1	7C	5C
<b>B064-03</b>	150 a 175	0,5	13C	47C
<b>B069-11</b>	-2 a 400	1	8C	6C
<b>B072-01</b>	-2 a 80	0,2	15C	60C
<b>B072-02</b>	30 a 200	0,5	16C	61C
<b>B077-02</b>	-38 a 30	0,5		42C
<b>B082-01</b>	18 a 28	0,2	23C	
<b>B082-02</b>	39 a 54	0,2	24C	
<b>B082-03</b>	95 a 105	0,2	25C	
<b>B083-07</b>	0 a 44	0,2		8C
<b>B086-10</b>	-6 a 400	2,0	11C	28C
<b>B089</b>	19 a 27	0,1	17C	
<b>B089-01</b>	34 a 42	0,1	18C	23C
<b>B089-02</b>	49 a 57	0,1	19C	
<b>B089-03</b>	57 a 65	0,1	20C	
<b>B089-04</b>	79 a 87	0,1	21C	
<b>B092-10</b>	-5 a 110	0,5	9C	15C
<b>B092-11</b>	-20 a 50	0,5	57C	
<b>B094-10</b>	90 a 370	2,0	10C	16C
<b>B082-04</b>	0 a 55	0,2	NFT66-020	



**ARMOURED THERMOMETERS**

Model	Range °C	Graduation °C
<b>VI62</b>	0 ÷ 100	1
<b>VI62-01</b>	0 ÷ 200	2

**VI63 Max./Min. Thermometer**, range -30°C +50 °C



**THERMOMETERS**

glass stem and mercury system, for general laboratory use.

Model	Range °C	Graduation °C
<b>VI64</b>	-5 + 50	0,5
<b>VI64-01</b>	-10 + 100	1
<b>VI64-02</b>	-10 + 200	1
<b>VI64-03</b>	-10 + 300	1





**V170**

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

**V170-01**

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

**V171**

**Timing device**, 0 to 60 minutes, with alarm.



**V166-01**

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

Measuring scale: 0 - 3999 uS/cm - resolution 1 uS/cm - accuracy 1%  
Temperature in °C. and °F., range 0 - 60°C., resolution 0,1°C.

Temperature calibration and compensation: automatic.

Use conditions: 0 to 50°C; R.H. 100%

Feeding: battery.

Weight: 100 g



V166-01

**Soil hydrometers**

**V172** Range 0,995 - 1,038 g/ml, div. 0,001 - 151 H

**V172-02** Range -5 + 60 g/litre - 152 H

**V172-03** Range 0,995 - 1,030 g/ml - BS 1377 - long stem

**V172-04** Range 1,000 to 1,200 g/ml for additives

**V172-05** Range 1200 to 1300 g/ml for aggregates. EN 1367-2



V172...

**V165**

**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  $\pm 2\%$   
°C 0,0 to 60,0 - resolution 0,1 °C - accuracy  $\pm 0,4$  °C

Battery: 1x9V

Dimensions: 185x82x45 mm

Weight: 400 g



V165



**V173 KIT** 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.

**V175-03** DIGITAL VERNIER CALIPER, 0-153 mm x 0,01 mm.

**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.



**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



## METAL CONTAINERS AND PRODUCTS:

**Mixing bowls**, stainless steel

Model	Diameter
V116-03	160 mm
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



### Plastic containers with airtight lid

Pack of 10 pieces

Model	Capacity	Handle	Quantity
V125-10	0,7 litres	no	10 pcs
V125-12	1 litres	no	10 pcs
V125-14	3,4 litres	si	10 pcs
V125-16	6,1 litres	si	10 pcs
V126-18	12,5 litres	si	10 pcs

### SAMPLE CONTAINERS, tinned steel, airtight lid

Model	Capacity
V125	0,5 litre
V125-01	1 litre
V125-03	5 litres



### 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	265x195x47	stainless steel
V182-11	315x240x50	stainless steel
V182-12	370x270x57	stainless steel
V182-13	420x305x60	stainless steel



V182-01...



**ROUND ALUMINIUM SCOOPS**

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



VI83 ÷ VI84-03

**FLAT ALUMINIUM SCOOPS**

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



VI84-04...

**ROUND STAINLESS STEEL SCOOPS**

Model	Dimensions mm	Capacity ml
<b>VI85</b>	100x185	500 ml
<b>VI85-01</b>	120x200	1000 ml
<b>VI85-02</b>	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
<b>VI92</b>	100
<b>VI92-01</b>	150
<b>VI92-02</b>	200
<b>VI92-03</b>	300



VI92 ÷ VI92-07

VI92-08

**RIGID SPATULAS**, stainless steel

Model	Blade width mm
<b>VI92-04</b>	20
<b>VI92-05</b>	50
<b>VI92-06</b>	70
<b>VI92-07</b>	100

**VI92-08** CHATTAWAY SPATULA  
 120 mm long.

section V



# GENERAL EQUIPMENT

## section V



400

- 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
- V194-01** STEEL MALLET, 2000 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
- S124** WIRE SAW
- S125** TRIMMING KNIFE



**Hot plates**, complete with thermoregulator  
Power supply: 230V 1ph 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



V200-01



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: 230V 1 ph 50 Hz 400W



**V203**

**Vacuum pump** portable, one stage type, it produces an ultimate vacuum of 650 mm. Hg (150 mbar)  
 Volume sucked: 2 Cu.m/h  
 Supplied complete with water trap and electric cable  
 Power supply: 230V 1ph 50 Hz  
 Dimensions: 180x180x220 mm  
 Weight: 5 Kg.



**V204**

**Vacuum pump** portable, volume sucked: 5 Cu.m/h  
 Ultimate vacuum 730 mm/Hg (40 mbar)  
 Supplied complete with water trap and electric cable  
 Power supply: 230V 1ph 50 Hz  
 Dimensions: 220x260x190 mm  
 Weight: 12 Kg



**Vacuum Pump**, lubricated, paddle rotatory type.  
 Supplied complete with:  
 Thermal protection with automatic resetting, assembled inside the motor.  
 On/Off luminous switch, cable, carrying handle, base, bottle of special oil.  
 CE labelled with certificate of conformity.  
 Ideal for laboratory and site use to produce vacuum  
 Rotation speed: 2800 rpm  
 Power supply: 230V 1ph 50/60Hz

Available models:

Models		V205	V205-01	V205-02
Free air displacement	litri/min.	75	75	150
Ultimate vacuum	mbar	0,1	0,01	0,01
Stages		1	2	2
Motor power	W	180	240	370
Dimensions	mm	300x150x240	300x150x240	350x150x275
Weight	kg	8,4	9,8	11



SPARE PART:  
**V205-11**  
 Special oil for vacuum pumps.  
 Bottle of 500 cc.



ACCESSORIES:

- V205-10** Vacuum regulator, complete with vacuum gauge dia. 80 mm, regulation cock, suction filter.
- V230-03** Rubber tube, lined for vacuum, 3 m long
- V205-12** Condensed water trap

**V202**

**Aspirator pump**, used with current water having approx. pressure of 0,7 Kg/cm<sup>2</sup> to create a moderate vacuum.





**V201**

**Warm air drier**, for general laboratory purposes, to dry soil and aggregate samples.  
Power supply: 230V 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

**V208-10**

**Voltage stabilizer**

It maintains the voltage stable, by adjusting and linearizing the tension variations.  
Advantages: high quality of the tension, better load protection against electromagnetic disturbances.  
Recommended when electronic, informatic, PC devices are used.  
Power: 4 kVA  
Accuracy: +/- 3%  
Nominal output voltage: 18A  
230V 1ph 50Hz  
Weight: 25 kg



V208-10

**S351**

**Air compressor**

Max pressure: 17 bar  
Receiver capacity: 5 litres  
Power supply: 230V 1ph 50 Hz  
Dimensions: 520x310x400 mm  
Weight: 35 Kg



S351

**V207**

**Laboratory air compressor**

Max. pressure: 10 bar  
Air delivery: 250 litre/minute at room pressure.  
Reservoir capacity: 50 litres  
Recommended for continuous working pressure up to 8 bar  
Power supply: 230V 1ph 50Hz 1,5 KW  
Weight: 40 kg approx.

V207



**V206**

**Air compressor**

Receiver capacity is 50 litres and it delivers 70 litres of air per minute at 6 ATM.  
Air delivery: 240 litre/minute at room pressure.  
Max pressure is 8 Kg/sq.cm (800 kPa)  
Power supply: 230V 1ph 50 Hz  
Weight: 30 Kg

V206



**V206-01**

**Air compressor**

Same to mod.V206 but with:  
Air reservoir: 100 litres capacity  
Air delivery : 250 litre/minute

**V206-02**

**Air compressor**

Same to mod.V206, but with:  
Air reservoir: 200 litres capacity  
Air delivery: 400 litres/minute.

**WATER STILLS**

Used to produce distilled water for laboratory purposes, it is equipped of an automatic device to keep the water at a constant level and to cut off the current in case of shortage of water.  
Power supply: 230V 1 ph 50/60Hz



Available models:

**V212**

**Water still 5 litres/h capacity**

All stainless steel made, it is easily dismantable for cleaning and maintenance.

Power: 4000W

Dimensions: 550x300x650 mm. Weight: 16 kg

**V213**

**Water still 10 litres/h capacity**

Basically similar to mod.V212

Power: 8000W

Dimensions: 600x360x750 mm. Weight: 20 kg

**V211**

**Water still 4 litres/h capacity**

Power: 3000W

Dimensions: 250x222x542 mm. Weight: 13 kg

**V211-01**

**Water still 8 litres/h capacity**

Power: 6000W

Dimensions: 260x260x610 mm. Weight: 16,5 kg

**Filter paper**, pack of 100 pieces

Model	Whatman n°
<b>V218-01</b>	1 x 110 mm dia.
<b>V218-02</b>	1 x 150 mm dia.
<b>S200-14</b>	5 x 150 mm dia.
<b>V218-05</b>	40 x 150 mm dia.
<b>V218-06</b>	44 x 150 mm dia.
<b>V218-07</b>	44 x 110 mm dia.
<b>V218-08</b>	50 x 110 mm dia.
<b>V218-09</b>	54 x 150 mm dia.
<b>V218-10</b>	540 x 150 mm dia.
<b>V218-11</b>	541 x 110 mm dia.
<b>V218-12</b>	54 x 400 mm dia.

V218..



**V214**

**Digital pH meter and thermometer**

STANDARDS: BS 1377:3 / ASTM D1067

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 9V battery

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

Weight: 3 Kg



V214

**V217**

**pH meter – thermometer**, digital, portable.

STANDARDS: BS 1377:3 / ASTM D1067

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.



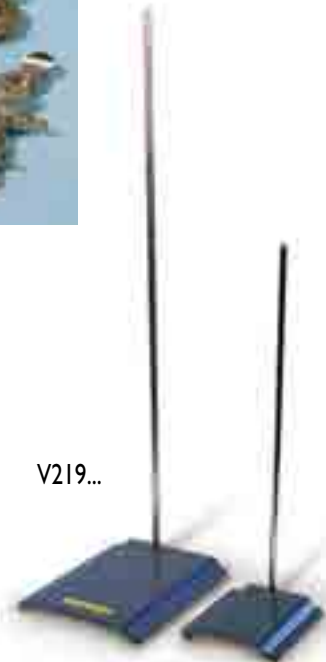
V217





**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
<b>V230</b>	5 mm	5 metre
<b>V230-01</b>	6 mm	5 metre
<b>V230-02</b>	8 mm	5 metre

**V230-03 Special tubing for vacuum** applications  
8 mm inside dia. by 3 metre length.



**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: 230V I ph 50/60 Hz

Weight Kg. 17



V241



B052

**Thermostatic water baths**

See Sections: Asphalt/Bitumen pag. 91

Cement/Mortars pag. 266

Soils pag. 313

**CHEMICALS**

Model	Description	Q.ty
V300-01	Hydrochloric acid	1000 ml
V300-03	Nitric acid	1000 ml
V300-04	Sulfuric acid	1000 ml
V300-05	Distilled water	2000 ml
V300-06	Hydrogen peroxide	1000 ml
V300-08	Ammonia	1000 ml
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
V300-17	Mercury (pure)	1000 g
V300-18	Vaseline oil	1000 ml

Model	Description	Q.ty
V300-19	Paraffin wax	5000 g
V300-20	Potassium bichromate	1000 g
V300-21	Sodium carbonate	1000 g
V300-23	Sodium hexametaphosphate	1000 g
V300-24	Sodium hydroxide	1000 g
V300-25	Sodium sulfate	1000 g
V300-26	Tricloroetilene	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...

