

# Neu-tec Group - Velp Scientific

2004 PRICE LIST V 02/04 Authorized Distributor www.clarksonlab.com

## Environmental Line

Cat. No.	Model	List Price \$US
10.0120	THERMOREACTOR for C.O.D. 6 places type ECO 6 6 places thermoreactor for C.O.D. analysis. Setting of temperature and time by microprocessor; temperature up to 150°C, time up to 120 min. Acoustic signal of end of cycle with automatic switch off. It allows simultaneous operation for 6 samples of 20 ml. Complete with C.O.D. method. Complementary parts:	\$890
11.1040(*)	N.6 COD test tubes Ø 42x200 mm, 200 ml with cone SN 29/32	\$30
11.1041(*)	N.6 Air refrigerators with ground cone	\$28
11.1045(*)	N.6 Antisplash bells	\$11
11.1042(*)	N.6 PTFE sheaths for 29/32 cones	\$8
11.1043	N.1 Stainless steel handle for removing 6 test tubes Ø 42 mm simultaneously	\$93
	<i>Upon request:</i>	
11.1044	Anticorodal reducer Ø 42 mm with 3 holes Ø 16 mm	\$36
11.1046	Anticorodal reducer Ø 42 mm with 1 hole Ø 22 mm	\$39
10.0126	THERMOREACTOR for C.O.D. type ECO 16 16 places thermoreactor for C.O.D. analysis and specific decomposition procedures (14 places for test tubes with external Ø 16 mm and 2 places for test tubes with external Ø 22 mm). Setting of temperature and time by a microprocessor, temperature up to 150°C, time up to 120 min. Acoustic signal of end of cycle with automatic switch off. <i>Upon request:</i>	\$805
916 80	Set of glass test tubes internal Ø 14 mm and external Ø 16 mm	\$43
916 36	Holder for 12 round glass cells	\$51
11.1051	Safety screen	\$36
	<i>Accessories for sludge analysis:</i>	
916 66	Test tube for sample decomposition Ø 22 mm cone NS 19/26, glass stopper	\$60
916 67	Condenser 200 mm, type KS with 3 meter polyethylene tubing	\$115
916 68	Absorption attachment for condenser, NS 29/32	\$123
10.0127	THERMOREACTOR for C.O.D. type ECO 8  Thermoreactor for C.O.D. analysis and specific decomposition procedures. Programmable reaction temperatures: 70, 100, 120 and 150°C. Programmable reaction times: 30 or 60 or 120 min. or continuous operation. Acoustic signal at the end of cycle with automatic switch off. The thermoreactor can hold 8 test tubes with external Ø 16 mm and 1 test tube with external Ø 22 mm. <i>Upon request:</i>	\$605
916 80	Set of glass test tubes internal Ø 14 mm and external Ø 16 mm	\$43
916 36	Holder for 12 round glass cells	\$51
11.1051	Safety screen	\$36
	<i>Accessories for sludge analysis:</i>	
916 66	Test tube for sample decomposition Ø 22 mm cone NS 19/26, glass stopper	\$60
916 67	Condenser 200 mm, type KS with 3 meter polyethylene tubing	\$115
916 68	Absorption attachment for condenser, NS 29/32	\$123
10.0127/A	THERMOREACTOR for C.O.D. type ECO 8 with safety cover	\$703

Thermoreactor for C.O.D. analysis and specific decomposition procedures. It allows to choose between four temperatures (70, 100, 120 and 150°C) and among heating times of 30, 60, 120 minutes or infinite. Acoustic signal at the end of cycle with automatic switch off. The thermoreactor can hold 8 test tubes with external Ø 16 mm and 1 test tube with external Ø 22 mm. A voltage changer, allows a connection to electric nets 230 V or 115 V. The complete working safety is assured by: test tubes cover, protection on the heating block, safety thermostat.

*Upon request:*

916 80	Set of glass test tubes internal Ø 14 mm and external Ø 16 mm	\$43
916 36	Holder for 12 round glass cells	\$51
<i>Accessories for sludge analysis:</i>		
916 66	Test tube for sample decomposition Ø 22 mm cone NS 19/26, glass stopper	\$60
916 67	Condenser 200 mm, type KS with 3 meter polyethylene tubing	\$115
916 68	Absorption attachment for condenser, NS 29/32	\$123

*(\*) code number and price refer to one single piece.*

10.0125	THERMOREACTOR for C.O.D. type ECO 25 with safety cover	\$833
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Thermoreactor for C.O.D. analysis and specific decomposition procedures. It allows to choose between four temperatures (70, 100, 120 and 150°C) and among heating times of 30, 60, 120 minutes or infinite. Acoustic signal at the end of cycle with automatic switch off. The thermoreactor can hold 25 test tubes with external Ø 16 mm. A voltage changer, allows a connection to electric nets 230 V or 115 V. The complete working safety is assured by: test tubes cover, protection on the heating block, safety thermostat.

*Upon request:*

916 80	Set of glass test tubes internal Ø 14 mm and external Ø 16 mm	\$43
916 36	Holder for 12 round glass cells	\$51
11.1039	Extractor for test tubes	\$66
10.0131	B.O.D. 6 places type BMS 6	\$895

Apparatus for manometric Biochemical Oxygen Demand determination (6 places). The instrument is supplied complete of the accessories and B.O.D. method.

10.0132	B.O.D. 10 places type BMS 10	\$1,400
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Apparatus for manometric Biochemical Oxygen Demand determination (10 places). The instrument is supplied complete of the accessories and B.O.D. method.

10.0133	B.O.D. Sensor	\$225
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Pollution free (without mercury), microprocessor controlled equipment for B.O.D. measurement by manometric technique. The equipment is placed directly on the bottle containing sample and gives a direct measure of B.O.D. value expressed as mg/l. The values are presented by a large display. 5 B.O.D. values at one day intervals are memorized. There is the possibility of continuing the incubation up to 21-28 days (total B.O.D.). Interchangeability with equipment already in use.

10.0134	B.O.D. Sensor Set	\$245
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A complete set of B.O.D. Sensor, B.O.D. bottle, holder for carbon dioxide absorbing agent and magnetic stirring bar. It allows to perform a single measure. B.O.D. Sensor is a pollution free (without mercury), microprocessor equipment for B.O.D. measurement by manometric technique. The B.O.D. values are directly presented as mg/l by a large display. 5 B.O.D. values at one day intervals are memorized. There is the possibility of continuing the incubation up to 21-28 days (total B.O.D.).

10.0136	B.O.D. Sensor System 6	\$1,790
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Developed according to international safety norms for operator and environmental protection it uses the pollution free (without mercury), microprocessor controlled equipment for B.O.D. (Biochemical Oxygen Demand) of water and wastewater by manometric technique. The values are directly presented as mg/l. *Complete of:* one stirring unit with six places, six B.O.D. Sensors, six holders for carbon dioxide absorbing agent, six B.O.D. bottles and six magnetic stirring bars.

*Technical characteristics:*

	The equipment of reduced dimensions can be held by two lateral handles for an easy introduction into a refrigerated thermostat. The structure is manufactured from stainless steel, epoxy painted, giving an high protection against chemical corrosion. The used motor allows a continuous stirring without stops or heating which could impair the measurement. The equipment is delivered ready to use and with an operation manual.	
10.0137	B.O.D. Sensor System 10	\$2,820
	Developed according to international safety norms for operator and environmental protection it uses the pollution free (without mercury), microprocessor controlled equipment for B.O.D. (Biochemical Oxygen Demand) of water and wastewater by manometric technique. The values are directly presented as mg/l. <i>Complete of:</i> one stirring unit with ten places, ten B.O.D. Sensors, ten holders for carbon dioxide absorbing agent, ten B.O.D. bottles and ten magnetic stirring bars.	
	<i>Technical characteristics:</i> The equipment of reduced dimensions can be held by two lateral handles for an easy introduction into a refrigerated thermostat. The structure is manufactured from stainless steel, epoxy painted, giving an high protection against chemical corrosion. The used motor allows a continuous stirring without stops or heating which could impair the measurement. The equipment is delivered ready to use and with an operation manual.	
10.0140	REFRIGERATING INCUBATOR type FTC 90	\$1,444
	90 liters volume refrigerating incubator purposely built for the incubation of a manometric apparatus for B.O.D. measurement at 6 places or 10 places. Thermostatting obtained by forced ventilation with a fixed temperature of 20°C.	
10.0143	REFRIGERATING INCUBATOR type FTC 90E	\$1,866
	Equipped by the innovative AUTO TUNING thermoregulation. Digital programming and display of temperature from 3 to 50°C. Temperature stability $\pm 0.5^\circ\text{C}$ . Forced ventilation. Volume 90 l. RS232 interface. Useful to incubate any product at a constant temperature and for B.O.D. measurement.	
	<i>Accessories upon request</i>	
12.0010	Connection cable for serial interface RS232	\$38
12.0020	Incubator software	\$247
10.0143/I	REFRIGERATING INCUBATOR type FTC 90I (with internal door)	\$2,034
	Equipped by the innovative AUTO TUNING thermoregulation. Digital programming and display of temperature from 3 to 50°C. Temperature stability $\pm 0.5^\circ\text{C}$ . Forced ventilation. Volume 90 l. RS232 interface. An internal transparent window allows the observation of content. Condensation free internal chamber. Useful to maintain any product at a constant, precisely controlled temperature. The uniform distribution of temperature inside the chamber is assured by the continuous ventilation.	
	<i>Accessories upon request</i>	
12.0010	Connection cable for serial interface RS232	\$38
12.0020	Incubator software	\$247
10.0141	REFRIGERATING INCUBATOR type FOC 225E	\$2,141
	Equipped by the innovative AUTO TUNING thermoregulation. Digital programming and display of temperature from 3 to 50°C. Temperature stability $\pm 0.5^\circ\text{C}$ . Forced ventilation. Volume 220 l. RS232 interface. Useful to incubate any product at a constant temperature and 1 o 2 B.O.D. measurement equipment 6 or 10 places. Internal plugs for power supply controlled by an external switch.	
	<i>Accessories upon request</i>	
	Connection cable for serial interface RS232	\$38
	Incubator software	\$247
10.0141/I	REFRIGERATING INCUBATOR type FOC 225I (with internal door)	\$2,394

	Equipped by the innovative AUTO TUNING thermoregulation. Digital programming and display of temperature from 3 to 50°C. Temperature stability ± 0.5°C. Forced ventilation. Volume 220 l. RS232 interface. An internal transparent window allows the observation of content. Condensation free internal chamber. Useful to maintain any product at a constant, precisely controlled temperature. The uniform distribution of temperature inside the chamber is assured by the continuous ventilation.	
	Accessories upon request	
12.0010	Connection cable for serial interface RS232	\$38
12.0020	Incubator software	\$247
10.0108	LEACHING TEST/JAR TEST 4 places type JLT4	<b>\$1,420</b>
	Flocculator with 4 places for Jar Test and leaching test. Epoxy painted steel structure, rear lighting (on/off), settable height of stirring rods with self-locking device, DC gear motor, setting of speed by microprocessor and visualization of speed by a LCD display from 10 to 300 r.p.m. with selection of 1 r.p.m., electronic timer with two scales: 0-999 minutes or 0-99 hours, possibility of continuous operation, automatic turning off warned by a beeper at the end of set time.	
	<i>Accessories upon request:</i>	
	See next page	
10.0109	LEACHING TEST/JAR TEST 6 places type JLT6	<b>\$1,680</b>
	Flocculator with 6 places for Jar Test and leaching test. Epoxy painted steel structure, rear lighting (on/off), settable height of stirring rods with self-locking device, DC gear motor, setting of speed by microprocessor and visualization of speed by a LCD display from 10 to 300 r.p.m. with selection of 1 r.p.m., electronic timer with two scales: 0-999 minutes or 0-99 hours, possibility of continuous operation, automatic turning off warned by a beeper at the end of set time.	
	<i>Accessories upon request:</i>	
	See below	
10.0111	FLOCCULATOR/JAR TEST 4 places type FC 4 S	<b>\$1,668</b>
	4 places flocculator for Jar Test. Electronic speed control for each stirring position presetted for 10-15-30-45-60-90-120-150-200 r.p.m.	
	<i>Technical characteristics:</i>	
	Epoxy painted metal structure, rear lighting, settable height of stainless steel stirring rods with self-locking device, DC gear motor for each stirring position, individual speed selector for each stirrer.	
	<i>Accessories upon request:</i>	
	See below	
10.0112	FLOCCULATOR/JAR TEST 6 places type FC 6 S	\$2,063
	6 places flocculator for Jar Test. Electronic speed control for each stirring position presetted for 10-15-30-45-60-90-120-150-200 r.p.m.	
	<i>Technical characteristics:</i>	
	The same as FC4S	
	<i>Accessories upon request:</i>	
	See below	
	<i>Accessories upon request for JLT4 - JLT6 - FC 4 S - FC 6 S</i>	
11.1000	Plastic beaker 1000 ml	\$13
11.1001	Glass beaker 1000 ml	\$11
11.1002	Transparent plastic Imhoff cone	\$48
11.1003	Glass graduated Imhoff cone	\$235
11.1004	Stand for two Imhoff cones	\$69
10.0117	JAR TEST type FP 4	<b>\$958</b>
	4 places portable Jar Test operated at 230V AC or at 12 V DC from a car battery by the car cigarette lighter. Speed selector presetted for 20-40-50-100-200 r.p.m. common to all stirring rods. Timer from 0 to 30 min.	
	<i>Upon request:</i>	
11.1000	Plastic beaker 1000 ml	\$13
11.1005	Carrying case	\$79
10.0118	OVERHEAD MIXER type ROTAX 6.8	<b>\$3,300</b>

Equipment purposely designed for the evaluation of solubility in water of pollutants. Overhead mixer according to DIN 38-414. The speed of rotation is controlled electronically from 0 to 30 r.p.m.

*Upon request:*

11.1021	Polyethylene bottle, 2 l	\$13
11.1022	Polyethylene bottle, 1 l	\$9
11.1023	Complementary part holding 8 1 liter bottles (nr. 2 pcs.)	\$629
11.1024	Glass bottle with grinded glass cap, 2 l	\$86
10.0146	GROUP TMD 6 places	<b>\$1,400</b>
	New system for mineralizations (6 places) finalized to trace heavy metal determinations. This apparatus is designed for hot digestions with aqua regia according to DIN 38-414.	
	Spare parts:	
11.1006	Test tube Ø 42x300 mm spherical joint	\$51
11.1007	Allihn condenser	\$79
11.1008	Absorption attachment for condenser	\$75
10.0147	GROUP TMD 20 places	<b>\$3,850</b>
	New system for mineralizations (20 places) finalized to trace heavy metal determinations. This apparatus is designed for hot digestions with aqua regia according to DIN 38-414.	
	Spare parts:	
	Test tube Ø 42x300 mm spherical joint	\$51
	Allihn condenser	\$79
	Absorption attachment for condenser	\$75
10.12150	TURBIDIMETER/NEPHELOMETER PORTABLE type12150	<b>\$1,488</b>
	The 12150 Turbidimeter is a portable, microprocessor controlled nephelometer. It is supplied with battery and and power adapter for field or laboratory use. Its optical configuration assures long term stability and minimizes stray light and color interferences. It allows rapid and repeatable measurements. The microprocessor enables auto-ranging over the full range of 0 to 1100 NTU and provides direct digital readout with a resolution of 0.01 NTU for the lowest range. A RS-232 serial port allows an interface of the turbidimeter with a PC and printer.	
	Complete of:	
	Carrying case, 1 power pack 230 V/AC	
	2 sample vials optically selected glass	
	2 sealed NTU secondary (0.5-10) standards	
	2 NTU primary (0.5-10) (60 ml) standards	
	Accessories upon request:	
11.12020	Tungsten lamp	\$71
11.12030	Set of 2 sample vials optically selected with custom caps	\$94
11.12050	Secondary standard 0,5 NTU	\$83
11.12060	Secondary standard 10 NTU	\$96
11.12070	Secondary standard 40 NTU	\$116
11.12150	Primary standard 0,5 NTU (60 ml)	\$85
11.12160	Primary standard 10 NTU (60 ml)	\$98
11.12170	Primary standard 40 NTU (60 ml)	\$123
10.0340	RADIATION DETECTOR	<b>\$850</b>

A pocket-size meter measures all forms of ionizing radiation. Utilizes industry-standard Geiger-Müller tube, with a mica end-window. Detects: Alfa, Beta, Gamma Radiations, and X ray. Ranges: 0,5 - 5,0 - 50 mR/h. Radiation counts detected are indicated by the flection of the needle on the meter scale, as well as by a flashing led and an audible beeper. Power: 9-V alkaline battery.

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***(Price list is subject to change at any time)***

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# Neu-tec Group - Velp Scientific

## 2004 END USER PRICE LIST

V 02/04

### Stirring Line

Cat. No.	Model	List Price \$US
10.0179	MAGNETIC STIRRER WITHOUT MOTOR MAGNETIC STIRRER WITHOUT MOTOR type ESP	<b>\$173</b>
	Ultrathin stirrer without moving mechanical components, which does not require maintenance. The driving action is generated by a group of coils producing a rotating magnetic field. Microprocessor controlled speed range from 50 to 1.100 r.p.m. Stirring capacity up to 5 liters. <i>Accessories upon request:</i>	
11.1060	Stir bar Ø 10x40 mm	\$15
	<b>STIRRERS</b>	
10.0150	STIRRER type PW	<b>\$1,020</b>
	Can be used for stirring fluids of low/medium/high viscosities. Speed range from 20 to 1200 r.p.m. for stirring up to 70 liters with reference to water. The increase of speed from start is progressive. It allows a continuous work, the electronic control contains safety circuits excluding the motor if some drawback happens. A progressive start avoids spillages of stirred liquids. High power motor controlled by a microprocessor, self blocking chuck and very compact structure. Ergonomic design, safe, reliable and easy use with limited volume and weight.  <i>Accessories upon request: See next page</i>	
10.0151	STIRRER type BS	<b>\$673</b>
	Laboratory stirrer for liquids of low to medium viscosity. Able to stir up to 25 liters with reference to water with a speed range from 50 to 2000 rpm. The instrument allows continuous operation in total safety, as it is equipped with internal safety devices that stop operation in the event of any malfunctions or if working conditions are too strenuous. A progressive start avoids spillages of stirred liquids. The manufacturing materials and technologies used, allow a reliable and noiseless operation with easy of use. The compact structure, the microprocessor controlled motor and the keyless mandrel make the instrument particularly simple to use. Ergonomic design with limited size and weight.  <i>Accessories upon request: See next page</i>	
10.0152	STIRRER type ES	<b>\$520</b>
	Laboratory stirrer for simple stirring of liquids, with medium/low viscosity. Stirring capacity up to 15 l, referred to water. A safety device protects the motor in case of overheating. Reliable and noiseless operation, easy use, minimum space requirements and weight. Self-blocking chuck. Speed range from 50 to 1300 rpm. Progressive start.  <i>Accessories upon request: See next page</i>	
10.0155	STIRRER type DLS	<b>\$913</b>
	Can be used for stirring fluids of low to mean viscosities being able to develop an high torque. The high power of the motor is controlled by a microprocessor allowing a constant rotation speed also when the viscosity of fluid changes. Self blocking chuck for shaft diameters from 1 to 10 mm. Speed range from 50 to 2000 r.p.m. Progressive start. The electronic control contains safety circuits excluding the motor if some drawback happens. Not adapted for flammable or explosive environments. Equipped by two digital displays showing effective and set speeds.  <i>Accessories upon request: See next page</i>	

10.0156	STIRRER type LH	<b>\$960</b>
	Can be used for stirring also highly viscous fluids being equipped by a particularly high torque motor. The high power of the motor is controlled by a microprocessor allowing a constant rotation speed also when the viscosity of fluid changes. Self blocking chuck for shaft diameters from 1 to 10 mm. Speed range from 50 to 2000 r.p.m. Progressive start. The electronic control contains safety circuits escluding the motor if some drawback happens. Not adapted for flammable or explosive environments.	
	Accessories upon request: See below	
10.0157	STIRRER type DLH	<b>\$1,120</b>
	Can be used for stirring also highly viscous fluids being equipped by a particularly high torque motor. The high power of the motor is controlled by a microprocessor allowing a constant rotation speed also when the viscosity of fluid changes. Self blocking chuck for shaft diameters from 1 to 10 mm. Speed range from 50 to 2000 r.p.m. Progressive start. The electronic control contains safety circuits escluding the motor if some drawback happens. Not adapted for flammable or explosive environments. Equipped by two digital displays showing effective and set speeds.	
	Accessories upon request: See below	
	<i>Accessories upon request for PW - BS - ES - DLS - LH – DLH</i>	
11.1300	Supporting rod and base	\$216
11.1301	Double clamp	\$40
11.1302	Ribbon clamp	\$70
11.1304	Stirring shaft with floating blade, stainless steel	\$83
11.1305	Stirring shaft with folding blade, stainless steel	\$83
11.1306	Stirring shaft with fixed blade, stainless steel	\$74
11.1307	Stirring shaft with propeller, stainless steel	\$89
11.1308	Stirring shaft with paddle, 6 holes, stainless steel	\$85
11.1309	Stirring shaft with turbine, stainless steel	\$130
11.1310	Stirring shaft with turbo propeller, stainless steel	\$130
11.1311	Stirring shaft with anchor, stainless steel	\$66
	<b>MAGNETIC STIRRERS</b>	
10.0160	MAGNETIC STIRRER type MST	\$85
	Small stirrer purposely studied for hanging stirring, microtitration particularly useful where a reliable apparatus of limited height is required. ABS structure which grants an high resistance to chemical agents. Stirring capacity up to 5 liters. Electronic speed regulation up to 1100 r.p.m.	
	Upon request:	
11.1056	Magnetic stir bar 6x35 mm	\$5
10.0161	MAGNETIC STIRRER type MICROSTIRRER	\$105
	Small stirrer purposely studied for hanging stirring, microtitration particularly useful where a reliable apparatus of limited height is required. Epoxy painted metal structure with an excellent resistance to chemical agents. Stirring capacity up to 5 liters. Electronic speed regulation up to 1100 r.p.m.	
	Upon request:	
11.1056	Magnetic stir bar 6x35 mm	\$5
11.1057	Magnetic stir bar 6x20 mm	\$5
10.0164	MAGNETIC STIRRER type AGE	\$175
	Stirrer with electronic speed regulation up to 1200 r.p.m. Stirring capacity up to 8 liters. High-power driving magnet operated by a mono-phase motor for continuous operation.	
	Upon request:	
11.1056	Magnetic stir bar 6x35 mm	\$5
11.1057	Magnetic stir bar 6x20 mm	\$5
10.0165	MAGNETIC STIRRER type ATE	\$465

	Stirrer with very high stirring power. Surface 250x285 mm. Stirring capacity up to 25 liters. Costant couple electronic regulation. If the density of a liquid varies the apparatus maintains costant the number of revolutions which can be presetted from 10 to 1000 r.p.m.	
	Upon request:	
11.1056	Magnetic stir bar 6x35 mm	\$5
11.1061	Magnetic stir bar 9,5x60 mm	\$9
10.0177	MAGNETIC STIRRER type MULTISTIRRER 6	\$608
	Stirrer able to stir at the same time up to 6 vessels having a maximum diameter of 85 mm. Maximum stirring capacity 6 beakers of 400 ml. Electronic speed regulation from 50 to 850 r.p.m.	
	Upon request:	
11.1055	Water tank for thermostating samples 408x240x85 mm	\$128
11.1056	Magnetic stir bar 6x35 mm	\$5
10.0178	MAGNETIC STIRRER 15 places type MULTISTIRRER 15	\$775
	Stirrer able to stir at the same time up to 15 vessels having a maximum diameter of 64 mm. Maximum stirring capacity 15 beakers of 250 ml. Electronic speed regulation from 50 to 850 r.p.m.	
	Upon request:	
11.1055	Water tank for thermostating samples 408x240x85 mm	\$128
11.1056	Magnetic stir bar 6x35 mm	\$5
10.0171	VORTEX MIXER type RX3	\$168
	Vortex mixer for mixing contents of test tubes or small flasks. By a slight pressure on the neoprene pick-up attachment (Ø 55 mm) starts the mixing action. Power 45 W.	
10.0176	VORTEX MIXER type ZX3	\$193
	Vortex mixer for mixing contents of test tubes or small flasks. It operates on "manual" position by a slight pressure on the neoprene pick-up attachment (Ø 55 mm) or with the switch on "continuous" position, the mixing action is indipendent from pressing. Stirring frequency can be varied from 0 to 40 Hz.	
	Upon request	
11.1047	Stand for microtiter	\$43
11.1048	Stand for 25 microvials 1.5 ml Eppendorf type	\$55
11.1050	Supporting plate Ø 90 mm	\$41
10.0167	LIGHTED MAGNETIC STIRRER type AMI	\$343
	Stirrer with light. This apparatus is purposely studied for titrations and in particular where perfect light conditions are requested in order to have a good visualization of the end point of a titration. It is especially suitable for those reactions with weak color variation during the colour change. Stirring capacity up to 5 liters. Electronic speed regulation up to 1100 r.p.m.	
	Upon request:	
11.1056	Magnetic stir bar 6x35 mm	\$5
10.0168	LIGHTED MAGNETIC STIRRER type AMI 4	\$1,040
	4 places (separately controlled) stirrer with light. This apparatus is purposely studied for titrations and in particular where perfect light conditions are requested in order to have a good visualization of the end point of a titration. It is especially suitable for those reactions with weak color variation during the colour change. Stirring capacity up to 5 liters for each stirring place. Electronic speed regulation up to 1100 r.p.m.	
	Upon request:	
11.1056	Magnetic stir bar 6x35 mm	\$5
	HEATING MAGNETIC STIRRERS AND PLATES	\$0
10.0162	HEATING MAGNETIC STIRRER type ARE	\$310
	Stirrer with heating plate (Ø 155 mm) built with an aluminium alloy and covered with a special protection assuring a very uniform heating distribution of the whole surface, with a high resistance to chemical agents. Power 780 W. Heating setting by means of a thermoelement from room temperature up to 370°C. Stirring capacity up to 15 liters. Electronic speed regulation up to 1200 r.p.m.	
	Upon request: (see next page)	



10.0163	HEATING MAGNETIC STIRRER type AREX Stirrer with heating plate (Ø 155 mm) built with an aluminium alloy and covered with a special protection assuring a very uniform heating distribution of the whole surface, with a high resistance to chemical agents. Power 800 W. Heating setting by means of a thermoelement from room temperature up to 370°C. Stirring capacity up to 20 liters. Electronic speed regulation up to 1300 r.p.m. It is possible the control of the sample temperature by the use of Vertex thermoregulator with ± 0,5°C precision. <i>Complete of:</i> Threaded supporting rod, spiral cable Upon request: (see below)	\$405
11.1062	DIGITAL THERMOREGULATOR type VERTEX  Digital thermoregulator equipped by a microprocessor and Pt 100 probe with stainless steel shield for electronic control of temperature in a wide interval (-20 +300°C). It allows to program and control the temperature of a heating stirrer by immersion in the heated vessel. The 15 mm high digits of the display allow a clear observation of values. A safety circuit stops heating if the probe is interrupted while at the same time the display shows "error". The equipment is supplied with a clamp and spiral electric cable with connector according to DIN 12878.	\$265
11.1063	VERTEX type VTF - Fuzzy Logic/Timer	\$375
10.0169	HEATING MAGNETIC STIRRER type ARED High power stirring hot plate with heating plate (Ø 180 mm) built with an aluminium alloy and covered with a special protection assuring a very uniform heating distribution on the whole surface, with a high resistance to chemical agents. Power 1300 W. Heating setting by means of a thermoelement from room temperature up to 370°C. Stirring capacity up to 20 liters. Electronic speed regulation up to 1200 r.p.m. Upon request: (see below)	\$465
10.0170	HEATING MAGNETIC STIRRER with TIMER type T.ARE  Stirrer with heating plate (Ø 180 mm) built with an aluminium alloy and covered with a special protection assuring a very uniform heating distribution of the whole surface, with a high resistance to chemical agents. Power 1300 W. Heating setting by means of a thermoelement from room temperature up to 370°C. Stirring capacity up to 10 liters. Electronic speed regulation up to 1200 r.p.m. Programmable timer up to 60 min. with automatic switch off. Upon request: (see below)	\$385
10.0166	HEATING MAGNETIC STIRRER 4 places type AM4  Heating magnetic stirrer with 4 places separately controlled. The heating plates built with an aluminium alloy, are covered with a special protection assuring a very uniform heating distribution on the whole surface with a high resistance to chemical agents. Heating plate Ø 155 mm. Power 800 W (x4). Heating setting by means of thermoelements from room temperature up to 370°C. Stirring capacity up to 10 liters for each stirring plate. Speed regulation up to 1200 r.p.m. Upon request: (see below) Accessories upon request for ARE - AREX - ARED - T.ARE - AM4	\$1,338
11.1056	Magnetic stir bar 6x35 mm	\$5
11.1061	Magnetic stir bar 9,5x60 mm	\$9
11.1069	Supporting rod	\$34
11.1071	Hemispheric bowl for 250 ml flasks	\$74
11.1072	Hemispheric bowl for 500 ml flasks	\$83
11.1073	Hemispheric bowl for 1000 ml flasks	\$123
10.0172	HEATING PLATE type RC2  2 places heating plate (Ø 155 mm) built with an aluminium alloy and covered with a special protection assuring a very uniform heating distribution of the whole surface, with a high resistance to chemical agents. Power 750 W (x2). Heating setting by means of a thermoelement from room temperature up to 370°C. Upon request:	\$313
11.1071	Hemispheric bowl for 250 ml flasks	\$74
11.1072	Hemispheric bowl for 500 ml flasks	\$83

11.1073	Hemispheric bowl for 1000 ml flasks	\$123
10.0174	HEATING PLATE type RC	\$175
	Heating plate (Ø 155 mm) built with an aluminium alloy and covered with a special protection assuring a very uniform heating distribution of the whole surface, with a high resistance to chemical agents. Power 750 W. Heating setting by means of a thermoelement from room temperature up to 370°C.	
	Upon request:	
11.1071	Hemispheric bowl for 250 ml flasks	\$74
11.1072	Hemispheric bowl for 500 ml flasks	\$83
11.1073	Hemispheric bowl for 1000 ml flasks	\$123

## Pumps Line

Code	Description	
10.0154.1	RECIRCULATING WATER VACUUM PUMP type JPV Recirculating water vacuum pump that allows to select the flow of sucking up to 22 l/min. The structure manufactured with polypropylene and ABS is extremely resistant to chemical corrosion and it is very noiseless. The unit is designed for all the uses which require a non pulsating suction; typical examples are rotating evaporators, vacuum filtration, (SPE) etc. PERISTALTIC PUMP type SP 311 Single channel peristaltic pump with variable flow inclusive of tube. Suitable for continuous sampling. 24 V DC motor with gear reduction and electronic speed control. Available in 4 models.	\$1,125
10.0154/2	SP 311/2 from 2 to 35 ml/min.	\$1,030
10.0154/6	SP 311/6 from 6 to 135 ml/min.	\$1,038
10.0154/12	SP 311/12 from 20 to 240 ml/min.	\$1,055
10.0154/60	SP 311/60 from 125 to 1000 ml/min.	\$1,220
	Accessories:	
11.1121/4	Silicone tubing Ø 4x7 mm per mt.	\$6
TBSI002	Silicone tubing Ø 5x8 mm per mt.	\$11

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***(Price list is subject to change at any time)***

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# Neu-tec Group - Velp Scientific

## 2004 END USER PRICE LIST

V 02/04

### Food and Feed Line

Cat. No.	Model	List Price \$US
10.0200	<p>EXTRACTOR for RAW FIBER DETERMINATION 6 places type FIWE 6</p> <p>This unit allows the extraction of sugars, hemicelluloses and similar compound contemporarily from 6 samples of food or feed. Hot and cold extractions. Air pump for sample mixing. Peristaltic pump for reagent discharge. Timer with acoustic warning. Temperature setting. Rotating valves operating all the phases of extraction. Separated discharge of cooling water and reagents. Acoustic and visual signal of water absence.</p> <p>Complete of: Reflector, PVC tube, glass crucibles, hot plate with 2 places type RC2 (230V/50Hz), reagent bottles, pincer for crucibles, holder for 6 crucibles and operation/methods manual.</p> <p>Accessories:</p>	\$8,135
11.1140	Glass crucibles	\$30
11.1135	Water spry device	\$104
10.0201	<p>EXTRACTOR for RAW FIBER DETERMINATION 3 places type FIWE 3</p> <p>This unit allows the extraction of sugars, hemicelluloses and similar compound contemporarily from 3 samples of food or feed. Hot and cold extractions. Air pump for sample mixing. Peristaltic pump for reagent discharge. Timer with acoustic warning. Temperature setting. Rotating valves operating all the phases of extraction. Separated discharge of cooling water and reagents. Acoustic and visual signal of water absence.</p> <p>Complete of: Reflector, PVC tube, glass crucibles, hot plate with 2 places type RC2 (230V/50Hz), reagent bottles, pincer for crucibles, holder for 3 crucibles and operation/methods manual.</p> <p>Accessories:</p>	\$5,603
11.1140	Glass crucibles	\$30
11.1135	Water spry device	\$104
10.0204	<p>COLD EXTRACTOR type COEX</p> <p>The equipment allows a rapid defatting of samples in the same glass crucibles used by extraction unit Velp type Fiwe for subsequent crude fiber determination. The unit is equipped with very efficient rotating valves and peristaltic pump for the discharge of the reagents. It is supplied complete of 6 crucibles.</p> <p>Accessories:</p>	\$5,568
11.1140	Glass crucibles	\$30
10.0209	<p>ENZYMATIC DIGESTER type GDE</p> <p>Thermostating unit composed by an immersion heating head, by a transparent tank and a magnetic stirrer with 6 places, which allows a precise control of temperature during the critical enzymatic digestions. Complete of operation manual.</p>	\$2,808
10.0210	<p>FILTRATION UNIT FOR DIETARY FIBER 6 places type CSF 6</p> <p>6 places filtration equipment for the determination of dietary fiber equipped with electronically settable counterpressure. This instrument make easier and faster the critical filtration step increasing also reproducibility in the analysis of bran, meal, fodder, cereals, etc. It is supplied complete of 6 crucibles and operation manual.</p> <p>Technical characteristics: Peristaltic pump with high suction capacity, electronic setting of counter pressure, separate collection of residues, shortening of filtration time.</p> <p>Accessories:</p>	\$6,993
11.1140	Glass crucibles	\$30

10.0240	EXTRACTOR BY SOLVENTS 3 places type SER 148/3	\$8,263
	<p>3 places equipment for selective extraction of solid and semisolid products by solvents with Randall technique. A relevant reduction of extraction times is obtained by this technique in two phases with an end solvent recovery. Shortening of extraction times from 20 to 80%. Solvent recovery from 50 to 70%. This equipment is designed for optimizing manuality and allows a completely safe extraction. The whole electric and electronic sections are built with new technology allowing a protection rate IP55.</p> <p>Acoustic and visual signal of water absence. Printing of analyses data according to GLP (Good Laboratory Practices).</p> <p>Complete of: extraction cups, extraction thimbles holder, viton and butyl seals, one pack of extraction thimbles (25 pcs.), operation/methods manual</p> <p>Accessories:</p>	
11.1141	Extraction cup	\$48
11.1142	Extraction thimbles holder	\$41
11.1143	Viton seal	\$13
11.1144	Butyl seal	\$13
11.1148	Extraction thimbles (25 pcs.)	\$86
	Upon request:	
11.1009	Printer	\$385
10.0240.20	Heat shield	\$40
10.0240.100	SER148 cable x RS232	\$48
	EXTRACTOR BY SOLVENTS 6 places type SER 148/6	\$11,878
	<p>6 places equipment for selective extraction of solid and semisolid products by solvents with Randall technique. A relevant reduction of extraction times is obtained by this technique in two phases with an end solvent recovery. Shortening of extraction times from 20 to 80%. Solvent recovery from 50 to 70%. This equipment is designed for optimizing manuality and allows a completely safe extraction. The whole electric and electronic sections are built with new technology allowing a protection rate IP55. Acoustic and visual signal of water absence. Printing of analyses data according to GLP (Good Laboratory Practices).</p> <p>Complete of: extraction cups, extraction thimbles holder, viton and butyl seals, one pack of extraction thimbles (25 pcs.), operation/methods manual</p> <p>Accessories:</p>	
11.1141	Extraction cup	\$48
11.1142	Extraction thimbles holder	\$41
11.1143	Viton seal	\$13
11.1144	Butyl seal	\$13
11.1145	Handling device for extraction cups	\$68
11.1146	Weighing cup	\$28
11.1147	Pincer for weighing cups	\$75
11.1148	Extraction thimbles	\$86
11.1149	Thimbles stand (6 places)	\$78
	Upon request:	
11.1009	Printer	\$385
10.0242.20	Heat shield	\$45
10.0240.100	SER148 cable x RS232	\$48
10.0248	REACTOR FOR OXIDATION TESTS ON FOODS type OXITEST	
	<p>The instrument permits to perform the oxidation on lipid containing foods, either solid or liquids, having vegetable or animal origin.</p> <p>Complete of:</p>	
12.0030	Oxitest software	
12.0010	Connecting cable	
10.0182	HEATING DIGESTER 6 places type DK 6 with programmable increases of temperature - 6 places digestion unit for test tubes Ø 42 mm	\$2,003

Setting of temperature and time by an electronic programmer with microprocessor. °C definition from room temperature to 450°C. Setting of heating time up to 120 minutes. With acoustic signal of end of cycle with automatic switch off. Possibility to program up to 4 increases of temperature and times of permanence for each of them. Continuous operation is possible. According to GLP procedures: PC and printer connections. It can handle up to 6 samples at the same time. Efficient vapour removal with the suction cup (upon request) without need of fume hood, anyway it can be connected to the Scrubber type SMS (code 10.0199) together with the recirculating water pump type JP (code 10.0198) for a complete neutralization of fumes.

	Complementary parts:	
11.1080(*)	N.6 Test tubes Ø 42x300 mm	\$19
11.1111	N.1 Glassware handle with heat shields	\$206
11.1096	N.1 Suction cap	\$308
11.1206	N.1 Support system for DK6	\$469
	Upon request for C.O.D.:	
11.1040(*)	N.6 C.O.D. test tubes Ø 42x200 mm, 200 ml cone SN 29/32	\$30
11.1041(*)	N.6 Air refrigerators with ground cone	\$28
11.1045(*)	N.6 PTFE sheaths for 29/32 cones	\$11
11.1042(*)	N.6 Antisplash bells	\$8
11.1049	N.1 Stainless steel glassware handle for COD	\$105
	Upon request:	
11.1009	Printer	\$385
11.1097	Stainless steel stand for glassware handle	\$56
11.1200	Stainless steel drop collector	\$63
10.0184	HEATING DIGESTER 20 places type DK 20 with programmable increases of temperature - 20 places digestion unit for test tubes Ø 42 mm	\$2,840

Setting of temperature and time by an electronic programmer with microprocessor. °C definition from room temperature to 450°C. Setting of heating time up to 120 minutes. With acoustic signal of end of cycle with automatic switch off. Possibility to program up to 4 increases of temperature and times of permanence for each of them. Continuous operation is possible. It can handle up to 20 samples at the same time. Efficient vapour removal with the suction cup (upon request) without need of fume hood, anyway it can be connected to the Scrubber type SMS (code 10.0199) together with the recirculating water pump type JP (code 10.0198) for a complete neutralization of fumes.

	Complementary parts:	
11.1080(*)	N.20 Test tubes Ø 42x300 mm	\$19
11.1112	N.1 Glassware handle with heat shields	\$274
11.1093	N.1 Suction cap	\$824
11.1204	N.1 Support system for DK6	\$563
	Upon request for C.O.D.:	\$0
11.1040(*)	N.20 C.O.D. test tubes Ø 42x200 mm, 200 ml cone SN 29/32	\$30
11.1041(*)	N.20 Air refrigerators with ground cone	\$28
11.1045(*)	N.20 PTFE sheaths for 29/32 cones	\$11
11.1042(*)	N.20 Antisplash bells	\$8
11.1098	N.1 Stainless steel handle 20 places Ø 42 mm	\$184
11.1094	N.1 Stainless steel stand for glassware handle	\$75
	Upon request:	\$0
11.1009	Printer	\$385
11.1202	Stainless steel drop collector	\$83
10.0198	RECIRCULATING WATER PUMP FOR FUMES ASPIRATION type JP	\$1,615

Innovative recirculating water pump that allows to select the flow up to 35 l/min to optimise the functioning according to the different applications. The structure manufactured from polypropylene and ABS gives a high resistance to chemical aggression. When coupled to a Velp Scrubber type SMS (Cod. 10.0199) allows a very effective removal of fumes evolved during acid mineralization.

	Complete of:	
TBVI004	Viton tube (mt. 1,2)	

10.0199	SCRUBBER type SMS	\$813
	<p>The SMS unit is designed for the removal of toxic, noxious and corrosive fumes coming from oxidative mineralizations or other processes. The system is supplied at a two stage configuration: condensation, neutralization. The unit has a variety of applications, from the Kjeldahl method to acid or basic gases control and permits the correct disposal of polluting substances, avoiding dangerous emissions to the workplace and to the environment. The unit grants its maximum efficiency if connected to Velp recirculating water pump type JP (Code 10.0198).</p>	
	<p>Upon request accessories (3° stage - adsorption):</p>	
11.1164	Pack of 10 refill of activated carbon	\$45
11.1165	Filter for activated carbon	\$26
10.0185	HEATING DIGESTER 20 places type DK 20/26 with programmable increases of temperature	\$2,518
	<p>20 places digestion unit for test tubes Ø 26 mm. Setting of temperature and time by an electronic programmer with microprocessor. °C definition from room temperature to 450°C. Setting of heating time up to 120 minutes. With acoustic signal of end of cycle with automatic switch off. Possibility to program up to 4 increases of temperature and times of permanence for each of them. Continuous operation is possible. It can handle up to 20 samples at the same time.</p>	
	<p>Complementary parts:</p>	
11.1091(*)	N.20 Test tubes Ø 26x300 mm	\$21
11.1085	N.1 Stainless steel glassware handle	\$288
	<p>Upon request:</p>	
11.1009	Printer	\$385
10.0186	HEATING DIGESTER 42 places type DK 42/26 with programmable increases of temperature - 42 places digestion unit for test tubes Ø 26 mm	\$3,390
	<p>Setting of temperature and time by an electronic programmer with microprocessor. °C definition from room temperature to 450°C. Setting of heating time up to 120 minutes. With acoustic signal of end of cycle with automatic switch off. Possibility to program up to 4 increases of temperature and times of permanence for each of them. Continuous operation is possible. It can handle up to 42 samples at the same time.</p>	
	<p>Complementary parts:</p>	
11.1091(*)	N.42 Test tubes Ø 26x300 mm	\$21
11.1086	N.1 Stainless steel glassware handle complete with heat shields	\$381
	<p>Upon request:</p>	
11.1009	Printer	\$385
10.0188	HEATING DIGESTER 6 places type DK 6/48 with programmable increases of temperature - 6 places digestion unit for test tubes Ø 48 mm	\$2,373
	<p>Setting of temperature and time by an electronic programmer with microprocessor. °C definition from room temperature to 450°C. Setting of heating time up to 120 minutes. With acoustic signal of end of cycle with automatic switch off. Possibility to program up to 4 increases of temperature and times of permanence for each of them. Continuous operation is possible. It can handle up to 6 samples at the same time. Efficient vapour removal without need of fume hood, anyway it can be connected to the Scrubber type SMS (code 10.0199) together with the recirculating water pump type JP (code 10.0198) for a complete neutralization of fumes.</p>	
	<p>Complementary parts:</p>	
11.1088(*)	N.6 Test tubes Ø 48x260 mm	\$34
11.1113	N.1 Glassware handle with heat shields	\$213
11.1101	N.1 Suction cap	\$385
	<p>Upon request:</p>	
11.1009	Printer	\$385
11.1200	Stainless steel heat shields (nr. 2 pcs.)	\$63
10.0183	STEAM DISTILLING UNIT type UDK 126D	\$3,293

Steam distilling unit for the determination of ammonia, proteic nitrogen (Kjeldahl or direct alkaline distillation), nitric nitrogen (after reduction), phenols, volatile fatty acids, cyanide, sulfur dioxide, etc.: in cereals, animal feed, food, water, soil, chemical. Short distillation time. Alkali addition, when required, in closed system. No transfer of samples. Compact unit.

Complete of:

Test tube Ø 42x300 mm, collecting flask 250 ml, set of tubes, pincer for test tubes, ABS drip tray.

Upon request:

11.1083	Test tube Ø 80x300 mm for alcohol determination	\$68
MEDI013	Spacer for test tube Ø 48 mm - H 260 mm	\$28
ACBO021	Adapter for test tube Ø 26 mm - H 300 mm	\$24
10.0189	SEMI-AUTOMATIC STEAM DISTILLING UNIT type UDK132	\$6,178

For determinations of ammonia nitrogen, proteic nitrogen, (Kjeldahl or direct alkaline distillation), nitric nitrogen (after reduction), phenols, volatile fatty acids, cyanides, sulphur dioxide, alcohol content, etc. in cereals, food and feed, water, soil, sludges, sediments and chemicals. The distillation unit is equipped by a patented steam generator fed with deionized water and is able to produce 100 ml of distillate in only four minutes. The programmable electronic control allows to perform automatically the following operations: sample dilution, sodium hydroxide addition, distillation time, distillation residues removal. Warning by a beeping sound about the end of distillation cycle. No transfer of samples. Limited space required. An innovative system permits the use of test tubes with different heights or Kjeldahl flasks up to 500 ml capacity. The unit can be connected to a printer or a PC for recording all the data related to a performed work according to GLP (Good Laboratory Practice).

Complete of:

Test tube Ø 42x300 mm, collecting flask 250 ml, set of tubes, pincer for test tubes, ABS drip tray.

Upon request:

11.1083	Test tube Ø 80x300 mm for alcohol determination	\$68
MEDI019	Adapter for test tube Ø 48x260 mm	\$66
ACBO021	Adapter for test tube Ø 26 mm	\$24
ACKE001	Keyboard	\$49
10.0191	AUTOMATIC STEAM DISTILLING UNIT type UDK 142 connectable with autotitrators	\$8,138

For determinations of: ammonia nitrogen, proteic nitrogen (Kjeldahl or direct alkaline distillation), nitric nitrogen (after reduction), phenols, volatile fatty acids, cyanides, sulphur dioxide, alcohol content, etc. in cereals, food and feed, water, soil, sludges, sediments and chemicals. The patented steam generator using deionized water permits to obtain 100 ml of distillate in only 3 minutes without any maintenance. An automatic device reduces the consumption of cooling water. An innovative system permits the use of test tubes with different heights or Kjeldahl flasks up to 500 ml capacity. Connectable to various models of auto-titrators. All parameters required for the distillation and titration are programmable. The access to the 20 program menus, in 5 different languages, is very simple and intuitive. It is also possible the connection to a keyboard. The unit can be connected to a printer or a PC for printing or recording all the data related to a performed work according to GLP (Good Laboratory Practice).

Complete of:

Test tube Ø 42x300 mm, collecting flask 250 ml, set of tubes, pincer for test tubes, ABS tank and Keyboard

Upon request:

11.1083	Test tube Ø 80x300 mm for alcohol determination	\$68
MEDI019	Adapter for test tube Ø 48x260 mm	\$66
ACBO021	Adapter for test tube Ø 26 mm	\$24
11.1009	Printer	\$385
10.0191.200	Connection cable for titrator type Mettler	\$48
10.0191.201	Connection cable for titrator type Metrohm	\$18
10.0191.202	Connection cable for titrator type Metrohm (RS 232)	\$18
10.0191.203	Connection cable for titrator type Schott	\$18

## Laboratory aids

KJELDAHL CATALYST TABLETS		
	Pack of 1000 tablets	
66.00	Antifoam S 0,97 g Na <sub>2</sub> SO <sub>4</sub> - 0,03 g silicone	\$274
66.02	Kjeltabs MT 3,5 g K <sub>2</sub> SO <sub>4</sub> - 0,175 g HgO	\$356
66.09	Kjeltabs ST 3,5 g K <sub>2</sub> SO <sub>4</sub> - 0,0035 g Se	\$255
66.13	Kjeltabs W 97,5 parts Na <sub>2</sub> SO <sub>4</sub> - 1,5 parts CuSO <sub>4</sub> x 5H <sub>2</sub> O - 1,0 parts Se, 5 g	\$434
66.21	Kjeltabs TCT 3,5 g K <sub>2</sub> SO <sub>4</sub> - 0,105 g CuSO <sub>4</sub> x 5H <sub>2</sub> O - 0,105 g TiO <sub>2</sub>	\$273
66.50	Kjeltabs CM 3,5 g K <sub>2</sub> SO <sub>4</sub> - 0,1 g CuSO <sub>4</sub> - 5H <sub>2</sub> O	\$248
WEIGHING BOATS		
	To be inserted into the test tubes. Made with special paper free of nitrogen	
486 000	Weighing boats 58 x 10 x 10 mm - Pack of 100 pieces	\$108
486 001	Weighing boats 70 x 23 x 15 mm - Pack of 100 pieces	\$149
EXTRACTION THIMBLES		
11.1148	Extraction thimbles, pure cellulose Ø 33x80 mm - Pack of 25 pieces	\$86

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