

Environment line Authorized Distributor [www.clarksonlab.com](http://www.clarksonlab.com)

Innovative  
Laboratory  
Equipment  
Solutions



NEUTEC  
GROUP INC

# Environmental Line

Environmental deterioration due to human activity requires an ever increasing number of analytical controls to evaluate present conditions and determine what type of intervention is needed to restore the environment to an acceptable condition. In particular, water quality fundamental need for life requires a systematic survey.

VELP Scientifica manufactures equipment that facilitates analytical work by providing accurate and reproducible results. Innovative manufacturing technologies are used to produce high quality products that are effective, easy to use, and affordable.

## Cooled Incubators

For applications such as BOD determination

Velp Scientifica introduces 2 size incubators: 90 Liter and 220 Liter with adjustable temperatures from 3°C to 50°C and +/- 0.5°C accuracy.

### Features and Benefits:

- Auto Tuning allows a very stable, homogeneous internal temperature even when the room temperature varies
- Software is available upon request, allowing to connect the incubator to a computer for data logging
- Small Footprint

*VELP's refrigerated thermostats and incubators are CFC-free (Chloro Fluoro Carbons), meeting environmental regulations.*

### FOC 225 E - FOC 225 I

Temperature programmable from 3-50°C, temperature setting and display to 0.1°C, thermoregulation by a microprocessor with an Auto Tuning system, volume 220 liters.



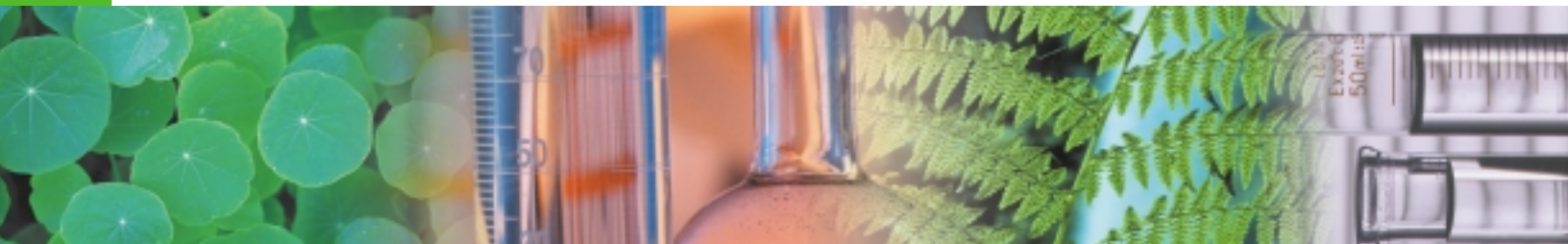
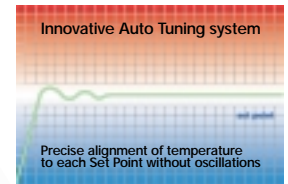
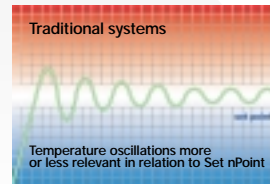
### FTC 90 E - FTC 90 I

Temperature programmable from 3-50°C, temperature setting and display to 0.1°C, thermoregulation by a microprocessor with an Auto Tuning system, volume 90 liters.



### FTC 90

Fixed temperature of 20°C, reading of internal temperature by an external thermometer, optimum stability and homogeneity of internal temperature, volume 90 liters.



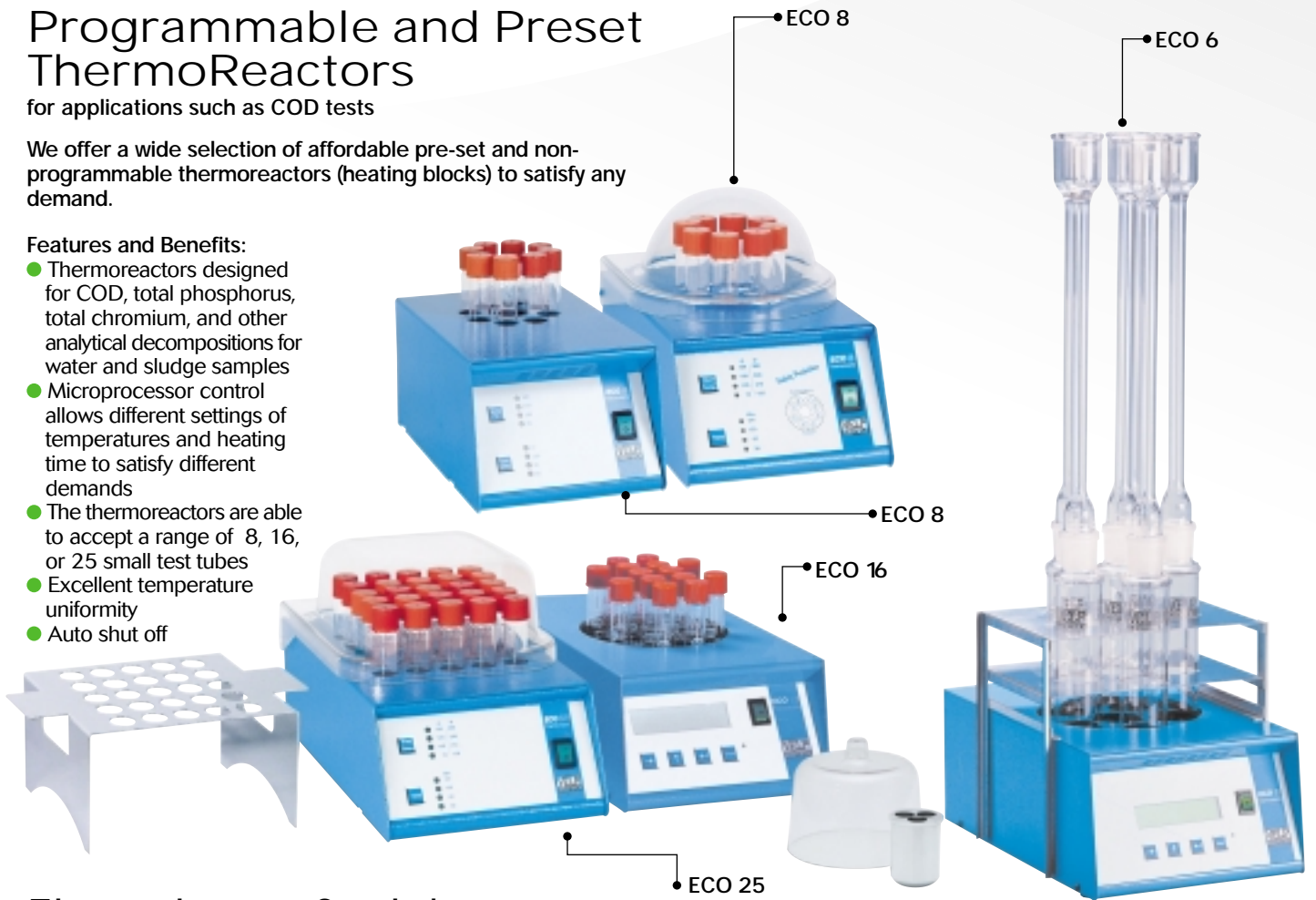
# Programmable and Preset ThermoReactors

for applications such as COD tests

We offer a wide selection of affordable pre-set and non-programmable thermo reactors (heating blocks) to satisfy any demand.

## Features and Benefits:

- Thermo reactors designed for COD, total phosphorus, total chromium, and other analytical decompositions for water and sludge samples
- Microprocessor control allows different settings of temperatures and heating time to satisfy different demands
- The thermo reactors are able to accept a range of 8, 16, or 25 small test tubes
- Excellent temperature uniformity
- Auto shut off

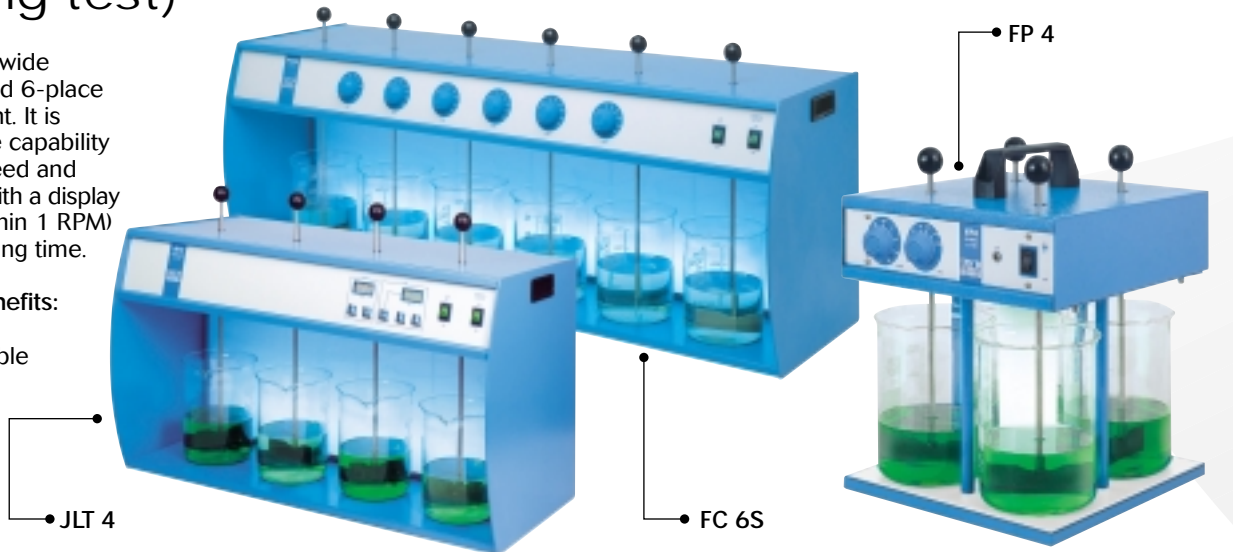


# Flocculators for laboratory and field use (Jar test and Leaching test)

VELP provides a wide selection of 4- and 6-place jar test equipment. It is available with the capability of setting the speed and stirring time, or with a display of the speed (within 1 RPM) and residual stirring time.

## Features and Benefits:

- User friendly
- Optional portable unit - FP4



# Steam distilling unit fed with deionized water

This steam distilling unit separates pollutants, such as phenols, ammonia, and hydrocyanic acid, from heavily polluted industrial wastewater. The most common use is to determine organic or total nitrogen, according to the Kjeldhal method.

### Features and Benefits:

- We offer a wide range of units with various levels of automation
- Reproducible and accurate results
- Rapid distillation/titration times

# Turbidimeters

These easy-to-use instruments measure water turbidity (also in potable water). The measurement of scattered light by nephelometry is given as Nephelometric Turbidity Units (NTU).

### Features and Benefits:

- Test range 0-1000 NTU
- Water proof
- User Friendly
- Comes with a complete package of accessories



TURBIDIMETER TB1

# Rotax

Rotax is an overhead mixer used to evaluate the solubility in water of pollutants leached from solid wastes, according to DIN 38414 and UNI10802. This unit is useful in all the cases that require overhead mixing.



ROTAX



UDK 142



# BOD determination systems

BOD (Biological Oxygen Demand) determination is one of the most important parameters in the biological treatment of wastewater.

VELP purposely designed this innovative ecological (without mercury) system BOD Sensor according to international safety norms to protect you and the environment.

## Innovative design

The ergonomic structure of BOD Sensor was developed and optimized for handy use and easy reading. It is manufactured using state-of-the-art techniques.

## Innovative applied electronics

The BOD Sensor is equipped with advanced microelectronics. A microprocessor-controlled pressure transducer allows a direct reading of measurement by way of the display. Data could be collected and stored for 5 days and can be read for 21-28 days. The equipment is powered by long lasting (2 years) lithium batteries. The BOD Sensor is free from any electrical connection.

## Innovative measurement technique

## Features and Benefits:

- Direct reading of values in mg/l (without factor)
- BOD measurement without mercury filled manometers
- Easy, precise, and immediate reading of values by a display, preventing possible errors in data transcription
- Operation without any need of controls
- Memorization of 5 BOD measurements at 1-day intervals
- Possibility of continuing incubation up to 21-28 days (BOD Last)
- 4 measurement scales (90.0, 250, 600, 999mg/l) and higher values after sample dilution
- Alarm for values out of scale

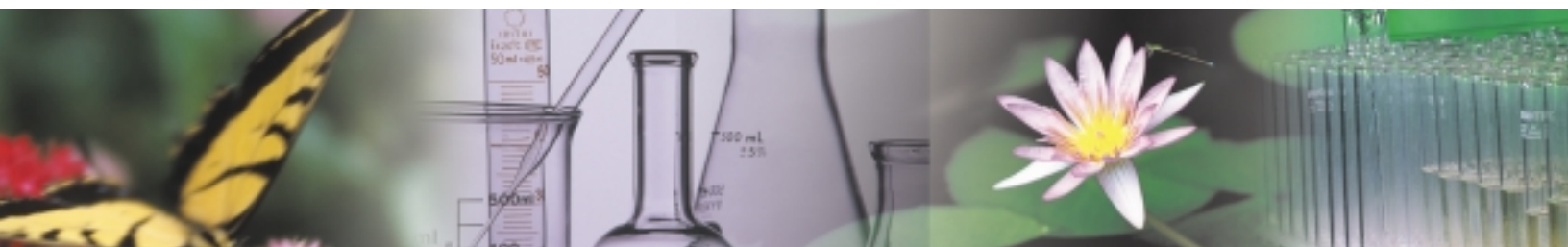


• BOD Sensor

• BOD Sensor System 10



BOD Sensor System 6 •



**Equipment**

Model	Cat. No. 115V/60Hz	Cat. No. 220V/50Hz	Power (W)	Temperature °C	Weight Lbs (kg)	Dimensions (W x H x D) Inch (mm)	Accessories
ECO 6	10.1120	10.0120	700	from room temperature to 200	12.3 (5.6)	7.75x5.25x12.5 (198x132x319)	1,2,3,4,5,6,7
ECO 8 with safety cover	10.0127/A		140	70-100-120-150	4.4 (2)	5.25x3.75x9.1 (135x95x230)	-
ECO 16	10.1126	10.0126	550	from room temperature to 150	8.4 (3.8)	6.5x4.25x10.75 (168x110x269)	24
ECO 25	10.0125		400	70-100-120-150	7.9 (3.6)	6x3.75x10.75 (155x95x275)	27
BMS 6	10.1131	10.0131	2	-	15.4 (7)	14.25x13.75x8.25 (360x350x210)	-
BMS 10	10.1132	10.0132	2	-	22 (10)	17x14.25x8.25 (432x360x210)	-
BOD Sensor		10.0133	-	-	0.2 (0.085)	2.25x2.75x3 (55x71x73)	28
BOD Sensoe Set	-	10.0134	-	-	0.9 (0.4)	3x9.25 (75x235)	28,29
BOD Sensor System 6	10.1136	10.0136	2	-	5.1 (2.3)	13.75x11.75x6 (350x300x150)	28,29
BOD Sensor System 10	10.1137	10.0137	2	-	6.6 (3)	17x11.75x6.5 (432x300x165)	28,29
FTC 90	10.1140	10.0140	150	20 prefixed	53.9 (24.5)	21.75x23.25x23.5 (550x590x600)	-
FTC 90 E	10.1143	10.0143	150	3-50	63.8 (29)	21.75x23.25x23.5 (550x590x600)	25,26
FOC 225 E	10.1141	10.0141	300	3-50	88 (40)	21.25x51.25x22 (540x1300x560)	25,26
FTC 90 I	10.1143/1	10.0143/1	150	3-50	66 (30)	21.75x23.25x23.5 (550x590x600)	25,26
FOC 225 I	10.1141/1	10.0141/1	300	3-50	89.1 (40.5)	21.25x51.25x22 (540x1300x560)	25,26
FC4S	10.1111	10.0111	50	-	27.5 (12.5)	25.5x13.75x10.25 (645x347x260)	8,9,10,11,12
FC6S	10.1112	10.0112	80	-	39.6 (18)	36.75x13.75x10.25 (935x347x260)	8,9,10,11,12
FP4	10.1117	10.0117	20	-	10.6 (4.8)	9.75x12.5x9.25 (250x320x250)	8,13
JLT 4	10.1108	10.0108	40	-	28.6 (13)	25.5x13.75x10.25 (645x347x260)	8,9,10,11,12
JLT 6	10.1109	10.0109	50	-	37.4 (17)	36.75x13.75x10.25 (935x347x260)	8,9,10,11,12
ROTAX 6.8	10.1118	10.0118	100	-	66 (30)	26.25x20.5x18.5 (665x520x470)	14,15,16,17
DK 6	10.1182	10.0182	1100	from room temperature to 450	22 (10)	11.5x6x13.25 (294x152x339)	18,19,20,21
UDK 132	10.0189		2100	-	61.6 (28)	13.5x28.25x17.25 (340x720x440)	18
TB1 turbidimeter	-	10.12150	-	-	0.4 (0.2)	6x1.75x2.50 (155x46x68)	23,23

**Accessories**

N.	Description	Cat. No.	N.	Description	Cat. No.
1	COD test tubes ø42x200mm, 200ml with cone SN 29/32	11.1040	16	Complementary part holding eight 1 liter bottles (n°2 pieces)	11.1023
2	Air refrigerators with ground cone	11.1041	17	Glass bottle with ground glass cap, 2 liters	11.1024
3	PTFE sheaths for 29/32 cones	11.1042	18	Test tubes ø42x300mm	11.1080
4	Stainless steel handle for moving 6 test tubes simultaneously	11.1043	19	Glassware handle with heat shields	11.1111
5	Anticorodal reducer ø42mm with 3 ø16mm holes	11.1044	20	Suction cap	11.1096
6	Antisplash bell	11.1045	21	Stainless steel stand for glassware handle	11.1097
7	Anticorodal reducer ø42mm with 1hole ø16mm	11.1046	22	Calibration St for normal operation 100, 20.0 & 0.02 NTU Standards	11.12020
8	Plastic beaker 1000ml	11.1000	23	Sample vials-pack of 3 vials	11.12030
9	Glass beaker 1000ml	11.1001	24	Safety shield	11.1051
10	Transparnt plastic imhoff cone	11.1002	25	Connecting cable for RS232 interface	12.0010
11	Glass graduated imhoff cone	11.1003	26	Incubator software	12.0020
12	Stand for two imhoff cones	11.1004	27	Test tubes extractor	11.1039
13	Carrying case	11.1005	28	Sensor check	11.0135
14	Polyethylene bottle, 2 liters	11.1021	29	Control Test tablets	11.0136
15	Polyethylene bottle, 1 liters	11.1022			



A Joint Venture with Velp Scientifica and IUL Instruments



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