



Environment Line







Lab Solutions

The alterations man makes on the natural environment require a growing number of analytical tests in order to be able to assess their current state and determine which interventions have to be adopted so as to reinstate acceptable

The quality of water, an essential resource for life, calls for particularly systematic research work. Velp Scientifica manufactures instruments that make the analyst's job easier by providing accurate and reproducible results.

Research, innovation and technology are resources we use in order to develop equipment that ensures reproducible results and simple though effective use.

BOD Determination Systems



BOD Sensor

BOD determination systems

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

In conformity with international regulations concerning the safety of workers and the safeguard of the environment, VELP Scientifica has developed an innovative ecological system (mercury-free) for determining the BOD with microprocessor using manometric technology.

Innovative design

The BOD Sensor has an ergonomic structure designed and optimized to ensure ease of handling and reading.

It is manufactured using the most modern and advanced construction techniques and is fitted directly to the bottle containing the sample.

Innovative applied electronics

The BOD Sensor is equipped with advanced microelectronics. A microprocessor-controlled pressure transducer transfers the BOD value to the display.

The BOD Sensor automatically stores 5 BOD measurements at 24-hour intervals so that analyses can also be performed over weekends. It is also possible to obtain a direct reading of the BOD value on the display at any time, even after five days. The BOD Sensor does not require any electrical connection.

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 continued incubation up to 21-28 days (BOD last)
- 4 measurement scales (90.0, 250, 600, 999 mg/l) and higher values after sample dilution
- Alarm for values out of scale



BOD Sensor System 6

BOD Sensor System 10





Heavy Metals Trace Determination

Cooled Incubators

Velp Scientifica offers 2 size incubators: 90 liter and 220 liter with adjustable temperatures from 3°C to 50°C and +/-0,5°C accuracy.

Fields of application:

BOD determination incubation of microorganisms cultures, preservation of samples and all those uses requiring precise and constant temperature.

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



FTC 90

Electronic temperature control ensures a constant temperature of 20°C, the internal temperature is displayed on an external thermometer, optimum stability and homogeneity of the internal temperature. Usable internal volume 64 liters.



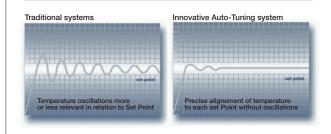
FTC 90E - FTC 90I

The temperature can be set from 3 to 50°C, temperature setting and display have 0.1°C precision, AUTO-TUNING electronic thermoregulation system. Usable internal volume 64 liters.



FOC 225E - FOC 225I

The temperature can be set from 3 to 50°C, temperature setting and display have 0.1°C precision, AUTO-TUNING electronic thermoregulation system. Usable internal volume 196 liters.



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

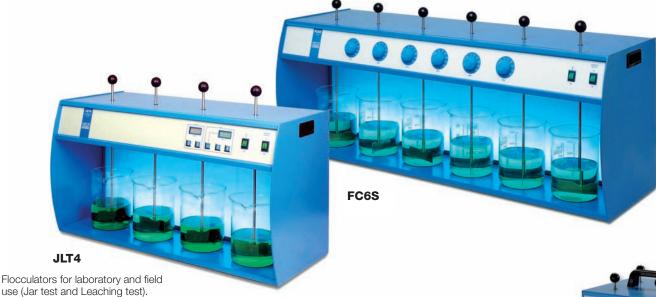
The unit is designed for digestion using "aqua regia" (king's water) of sludge coming from water treatment plants, soil, compost, wastewater or vegetable matter in accordance with DIN 38414.

Hot mineralization for the determination of mercury, cadmium, lead, chromium, copper, zinc, etc. is carried out without loss using water jacketed condensers.



TMD6

Model TMD6 mounted on DK6



VELP provides a wide selection of 4 and 6 places flocculators. Flocculators are designed both for optimizing the dosing of coagulants for separating pollutants in wastewater treatment plants thanks to the laboratory results obtained using the so-called Jar Test, and for running toxic substance leaching tests on solid wastes to be sent to the dump.

Steam Distillation Units

Features and Benefits:

-User Friendly

Multiple stirriers with reproducible stirring speeds allow standard condition
Electronic speed control: from 10 to 300 rpm

Electronic speed control: from 10 to 300 with 1rpm resolution



FP4
Portable unit

Steam distillation unit fed with deionized water

The distillation units UDK Series are designed for a diversified and flexible use that includes applications such as determination of ammoniacal nitrogen, proteic nitrogen, (Kjeldahl or direct alkaline distillation), nitric nitrogen (after reduction), phenols, volatile fatty acids, TKN determination in the environmental industry, cyanides, sulphur dioxide, alcohol content, Devarda nitrogen determination, according to official preocedures.

Features and Benefits:

- Wide range of units with various levels of automation
- Reproducible and accurate results
- Higest performances based on the innovative titanium condenser



Programmable and Preset Thermoreactors for applications such as COD tests

Velp Scientifica programmable thermoreactors are a cutting edge solution able to meet the most diversified temperature control requirements.

Features and Benefits:

- Thermoreactors 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 thermoreactors are able to accept a range of 8, 16 or 25 small test tubes
- -Excellent temperature uniformity, and programmable reaction
- Acoustic signal and auto switch-off at the end of the thermoreaction



The portable turbidimeter TB1 measures the turbidity of aqueous samples simply and accurately providing results directly in Nephelometric Turbidity Units (NTU). The TB1 is supplied complete with sets of 4 calibration standards (800, 100, 20 and 0.02 NTU), NIST traceable.

Features and Benefits

- Test range 0-1000 NTU
- Waterproof
- User friendly
- Comes with a complete package of accessories



Turbidimeter TB1

Radiation Detector

This detector is an industrial standard model of a Geiger-Müller tube with a thin mica output window.



Radiation detector

Overhead Mixer

ROTAX 6.8 can be used for all applications where mixing by overturning is required. The instrument is designed for evaluating the solubility of pollutants, sludge, sediments and solid wastes in water.

Standards:

The ROTAX 6.8 overhead mixer complies to DIN 38414 and UNI 10802.



ECO 6

ECO8

ECO 16

ECO 25

FTC 90

FTC 90 E

FOC 225 E

FTC 90 I

FOC 225 I

FC4S

FC6S

FP4

JLT 4

JLT 6

TMD 6

DK6

3

5

6

8

10

11

12

13 14

15

16

17

18

19

20

UDK132

ROTAX 6.8

TB1 turbidimeter

Radiation detector

* 2 lithium batteries ** No Voltage

BOD Sensor Set

















F10240131

F10240136

F10240137

F10610118

F107C0146**

F30110182

11

100

1100

2100

A00000145

A00001041

A00001042

A00001043

A00001044

A00001045

A00001046

A00001000

A00001001

A00001002

A00001003

A00001004

A00001005

A00001021

A00001022

CM0091680

CA0091636

A00001023

A00001024

CE0012020

50 Hz 60 Hz

50 Hz 60 Hz

F10100120

F101A0127

F10100126

F101A0125

F10220131 F10230131

F102B0133*

F102B0134*

F10300141

F10400141

F105A0111

F105A0112

F105A0117

F105A0108

F105A0109

F10600118

F107C0146**

R109B12150

R10800340**

F30100182

F30200189

Test tubes COD Ø 42x200 mm, 200 ml, 3 pcs/box

Stainless steel handle for 6 test tubes Ø 42 mm

Articorodal reducer Ø 42 mm with 3 holes Ø16 mm

Anticorodal reducer Ø 42 mm with 1 hole Ø 22 mm

Complementary part holding 8 bottles 1 liter (n°2 pieces)

Calibration set (includes 800, 100, 20.0 & 0.02 NTU standard)

Air refrigerators with ground cone

PTFE sheaths for 29/32 cones

Antisplash bell

Carrying case

Plastic beaker 1000 ml

Glass beaker 1000 ml

Transparent plastic Imhoff cone

Glass graduated Imhoff cone

Stand for two Imhoff cones

Polyethylene bottle, 2 liters

Polyethylene bottle, 1 liter

Set of 20 glass test tubes Ø 16 mm

Glass bottle with round glass cap, 2 liters

Holder for 12 round glass cells

F10230137

BOD Sensor System 6 F10220136 F10230136

F10300140

F10300143

F10400143

BOD Sensor System 10 F10220137

'00	from room temp. to 200	5.6
40	70-100-120-150-160	2
50	from room temp. to 160	3.8
-00	70-100-120-150-160	3.6
2	_	7
-	=	0.08
-	=	0.4
2	_	2.3
!	_	3
50	20 prefixed	24.5
50	3 - 50	29
50	3 - 50	40
50	3 - 50	30
50	3 - 50	40
8	_	12.5
3	_	18
3	_	4.8
1		13

from room temp. to 450

21

22

23

24

25

26

27

28

29

30

31

32

34

35

36

37

38

39

40

550x590x600	29
550x590x600	24,25,29
540x1300x560	24,25,29,30
550x590x600	24,25,29
540x1300x560	24,25,29,30
645x347x260	8,9,10,11,12,34,35,36
935x347x260	8,9,10,11,12,34,35,36
250x320x250	8,9,13,31,32,33
645x347x260	8,9,10,11,12,34,35,36
935x347x260	8,9,10,11,12,34,35,36

330x775x470

17

30

5

0.2

0.22

10

28

Sample vials - pack of 3 vials

Silicone oil - 10 ml

Serial cable RS232

Incubator software

Test tube extractor

BOD Sensor Check

Control Test Tablets

Shelf for FOC225

Suction cap. DK6

Support system, DK6

IQ/OQ Manual FOC 225 / FTC 90

USA plug for power supply 40001099

UK plug for power supply 40001099

AU plug for power supply 40001099

USA cord set for power supply 40001301

UK cord set for power supply 40001301

AU cord set for power supply 40001301

Glassware handle with heat shields, DK6

Test tubes Ø 42x300 mm, 300 ml, 3 pcs/box

Safety shield

198x132x319

135x95x230

168x110x269

155x95x275

55x71x73

75x235

350x360x210 28

350x300x150 27,28 432x300x165

1.2.3.4.5.6.7

16,17

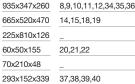
16,17,23

16,17,26

27,28

27,28

27,28





e

CE0012030

CF0012050 A00001051

A0000005

A00000020

A00001039

A00000135

A00000136

A0000076

10001074

10003083

10003084

10003085

10003722

10003723

10003724

A00000144

A00001111

A00001096

A00001206



VELP	Food&Feed Line
VELP	Stirring Line

V	Stirring Line
VELP	
	8

Explore Velp world



