



Lab Solutions

Environment Line





Lab Solutions

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.

Velp purposely designed this innovative ecological (without mercury) system BOD Sensor according to international safety standards 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.

Environment 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.

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

Different peripheral devices can be connected



Cooled Incubators



FOC 225E

FTC 90I

FOC 225I

Cooled Incubators

For applications such as BOD determination
 Velp Scientifica introduces 2 size incubators: 64 liter and 196 liter with adjustable temperatures from 3°C to 50°C and +/-0,5°C accuracy.

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

Innovative auto-tuning system



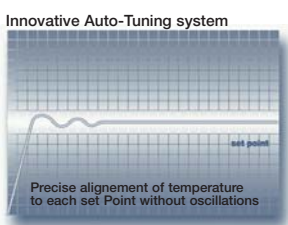
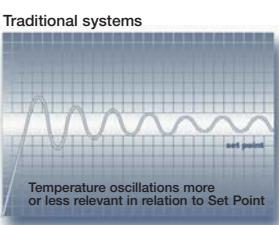
FTC 90
 Fixed temperature of 20°C, reading of internal temperature by an external thermometer, optimum stability and homogeneity of internal temperature, internal volume 64 liters.



FTC 90E - FTC 90I
 Temperature programmable from 3 - 50°C, temperature setting and display to 0,1°C, thermoregulation by a microprocessor with an Auto Tuning system, internal volume 64 liters.



FOC 225E - FOC 225I
 Temperature programmable from 3 - 50°C, temperature setting and display to 0,1°C, thermoregulation by a microprocessor with an Auto Tuning system, internal volume 196 liters.

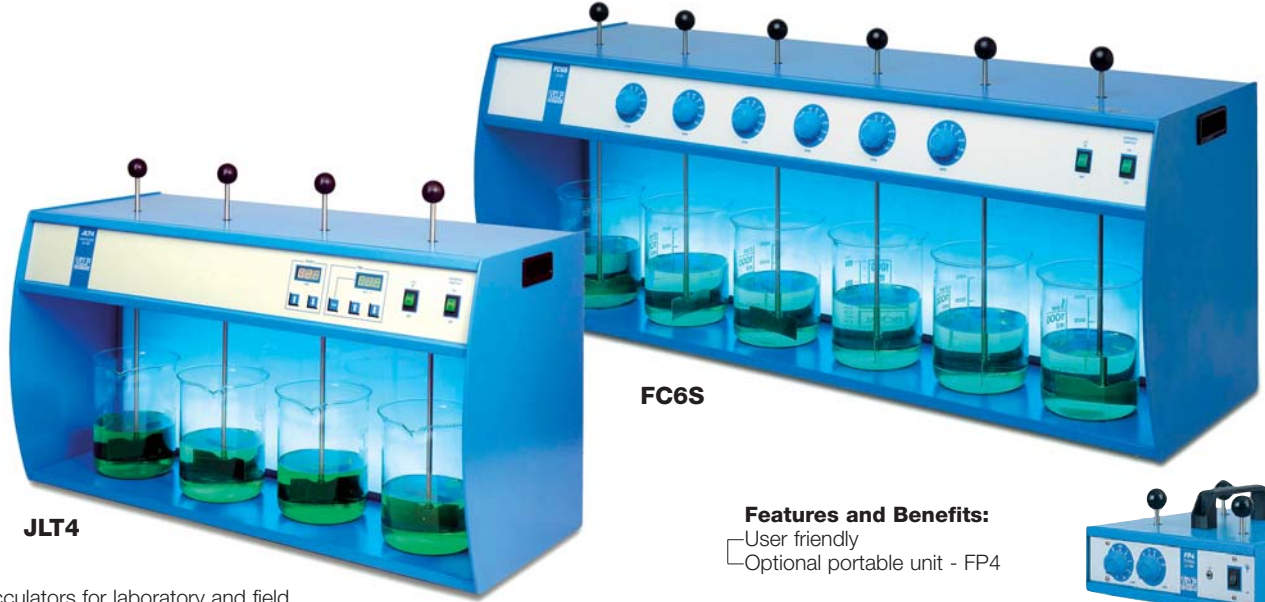


Heavy metals trace determinations

Mineralization system for the determination of heavy metals traces by hot digestion with aqua regia according to German norms DIN 38414. The six places TMD group is heated by DK6 digester.

TMD





JLT4

FC6S

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



FP4

Steam Distilling unit

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 Kjeldahl method.

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



UDK132



DK 6

Thermoreactors ECO

Programmable and Preset Thermoreactors for applications such as COD tests

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

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 (up to 160°C) able to accept a range of 8, 16 or 25 small test tubes
- Excellent temperature uniformity
- Auto shut off



ECO 16

ECO 25

ECO 6

ECO 8

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
- Waterproof
- 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 UNI 10802. This unit is useful in all the cases that require overhead mixing.



Rotax

Model	Cod. N° 220-240V		Cod. N° 110-120V		Power W	Temp. °C	Weight kg	Dimensions mm (WxHxD)	Accessories
	50 HZ	60 HZ	50 HZ	60 HZ					
ECO 6	F10100120		F10110120		700	from room temp. to 200	5.6	198x132x319	1,2,3,4,5,6,7
ECO 8	F101A0127		F101A0127		140	70-100-120-150-160	2	135x95x230	-
ECO 16	F10100126		F10110126		550	from room temp. to 160	3.8	168x110x269	24
ECO 25	F101A0125		F101A0125		400	70-100-120-150-160	3.6	155x95x275	27
BMS 6	F10220131	F10230131	F10240131		2	-	7	360x350x210	-
BMS 10	F10220132	F10230132	F10240132		2	-	10	432x360x210	-
BOD Sensor	F102B0133		-		-	-	0.080	55x71x73	28
BOD Sensor Set	F102B0134		-		-	-	0.4	75x235	28,29
BOD Sensor System 6	F10220136	F10230136	F10240136		2	-	2.3	350x300x150	28,29
BOD Sensor System 10	F10220137	F10230137	F10240137		2	-	3	432x300x165	28,29
FTC 90	F10300140	-	F10310140		150	20 prefixed	24.5	550x590x600	-
FTC 90 E	F10300143	-	F10310143		250	3 - 50	29	550x590x600	25,26
FOC 225 E	F10300141		F10310141		350	3 - 50	40	540x1300x560	25,26
FTC 90 I	F10400143	-	F10410143		250	3 - 50	30	550x590x600	25,26
FOC 225 I	F10400141		F10410141		350	3 - 50	40.5	540x1300x560	25,26
FC4S	F10500111		F10510111		50	-	12.5	645x347x260	8,9,10,11,12
FC6S	F10500112		F10510112		80	-	18	935x347x260	8,9,10,11,12
FP4	F10500117		F10510117		20	-	4.8	250x320x250	8,13
JLT 4	F10500108		F10510108		40	-	13	645x347x260	8,9,10,11,12
JLT 6	F10500109		F10510109		50	-	17	935x347x260	8,9,10,11,12
ROTAX 6.8	F10600118		F10610118		100	-	30	665x520x470	14,15,16,17
DK 6	F30100182		F30110182		1100	from room temp. to 450	10	294x152x339	18,19,20,21
UDK 132	F30200189		-		2100	-	28	340x720x440	18
TMD 6	F107C0146*		F107C0146*		-	-	5	225x810x126	-
TMD 20	F107C0147*		F107C0147*		-	-	20	360x810x126	-
TB1 turbidimeter	R109B12150		-		-	-	0.2	155x46x68	22,23

* No Voltage



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Number	Description	Cod. N°	Number	Description	Cod. N°
1	COD test tubes Ø 42x200mm, 200ml with cone SN 29/32	A00001040	17	Glass bottle with ground glass cap, 2 liters	A00001024
2	Air refrigerators with ground cone	A00001041	18	Test tubes Ø 42x300 mm	A00001080
3	PTFE sheaths for 29/32 cones	A00001042	19	Glassware handle with heat shields	A00001111
4	Stainless steel handle for moving 6 test tubes simultaneously	A00001043	20	Suction cap	A00001096
5	Anticorrosion reducer Ø 42 mm with 3 Ø 16 mm holes	A00001044	21	Stainless steel stand for glassware handle	A00001097
6	Antisplash bell	A00001045	22	Calibration Set for normal operation (includes 800, 100, 20.0 & 0.02 NTU Standards)	CE0012020
7	Anticorrosion reducer Ø 42 mm with 1 hole Ø 22 mm	A00001046	23	Sample vials - pack of 3 vials	CE0012030
8	Plastic beaker 1000 ml	A00001000	24	Safety shield	A00001051
9	Glass beaker 1000 ml	A00001001	25	Connecting cable for RS232 interface	A00000005
10	Transparent plastic imhoff cone	A00001002	26	Incubator software	A00000020
11	Glass graduated imhoff cone	A00001003	27	Test tubes extractor	A00001039
12	Stand for two imhoff cones	A00001004	28	Sensor check	A00000135
13	Carrying case	A00001005	29	Control Test tablets	A00000136
14	Polyethylene bottle, 2 liters	A00001021			
15	Polyethylene bottle, 1 liter	A00001022			
16	Complementary part holding eight 1 liter bottles (n°2 pieces)	A00001023			



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