

Laboratory equipment

Salinity Refractometer



This Salinity Refractometer is for quick and easy measurement of the salinity in water. This simple to use refractometer measures in parts per thousand (ppt) or specific gravity. The meter operates with natural light and has no moving parts to wear out. Hatchery and farm tested for reliability and durability.

Salinity varies with temperature. A temperature compensated refractometer is therefore the best choice. The refractometer can be manually calibrated against distilled water, including automatic temperature compensation.

Features:

- readout in parts per thousand 0-100
- and in specific gravity 1.000 to 1.070
- adjustable focusing.

Microscopes

We supply various models of research and stereo microscopes. Please specify your requirements and we will offer you the best option.



Other laboratory equipment on request.

Weighing equipment



Catvis offers a complete range of balances, scales, pencil weighers and clock weighers.

Well known brands as Salter, Sartorius, Mettler, Kern, and Denver as well as other high quality brands can be delivered.

Please specify the required range, accuracy and functioning (mechanical or electronic) and we will offer you the best alternative.



Miscellaneous

Fish nets

Dipnet frames made of stainless steel 316.
Standard widths are 30 and 50 cm.



An outer rod protects net and tie-on yarn from damaging.

Loose nets to match the net hoops are made of knotless nylon. Standard mesh sizes are chosen to meet most obvious requirements.

Frame	30 cm	50 cm
Mesh size	4.8 mm	4.8 mm
	11 mm	11 mm
		15 mm
		19 mm

Other mesh sizes are available on request.

Strong aluminum fry nets with exchangeable net.
The dimensions of the frame are: 31 x 23 cm.
The length of the handle is 30 cm.

Loose knotless nets are available in approx. 1 mm (white) or 3 mm (black) mesh size.
For special applications a micro-sized net is available.



Carp pituitary

Carp pituitaries are used all over the world. Carp pituitary glands are used in fish spawning operations for both female and male fish of marine as well as fresh water species. They have a use in a wide variety of fish because of predictable nature of the product and its non-harmful nature.

This natural hormonal mixture is perfect for gonad stimulation, so to improve ovum and sperm quality. This is the first important step to have high fertilisation rate and then high hatching rate.

We selected the best quality pituitary to have the most efficient results.

We supply it in glands and in powder.



Carp pituitary make possible an easy stripping of fish with good results.

Hatchery equipment



Breeding Tank

The breeding tanks are made of glass reinforced polyester. The tanks have an outlet pipe for water level control and bottom grating to prevent fish escapes. The bottom slightly drops towards the grating.

	Type 1	Type 2
Length	368 cm	425 cm
Width	78 cm	111 cm
Height	73 cm	85 cm
Outlet pipe PVC	90 mm	160 mm
Grating 1 mm aluminum and 2 mm perforations	*)	*)

*) Type 1 has a detachable base-grating (97 x 30 cm). Type 2 has a fixed base grating, covering the whole width of the tank.

Rounded breeding tank

Standard sizes available:

- 100 x 100 x 25 cm grey
- 100 x 100 x 45 cm grey
- 100 x 100 x 60 cm grey
- 145 x 145 x 45 cm grey
- 145 x 145 x 70 cm grey
- 160 x 160 x 55 cm green or grey
- 200 x 200 x 55 cm green or grey
- 200 x 200 x 65 cm grey
- 200 x 200 x 70 cm green or grey
- 200 x 200 x 90 cm green or grey
- 300 x 300 x 60 cm green or grey
- 300 x 300 x 100 cm grey

(other sizes on request)

These glass reinforced polyester tanks have a smooth inner-surface, which prevents the tank from fouling.

A bottom grid or perforated stand pipe, depending on tank model, prevents the fish from escaping. The water level can be regulated by means of a tilting or telescopic outlet pipe.

For easy installation plastic legs can be mounted to the tank or the tank can be supplied with a galvanized steel frame.



Tank with tilting outlet pipe

Extras:

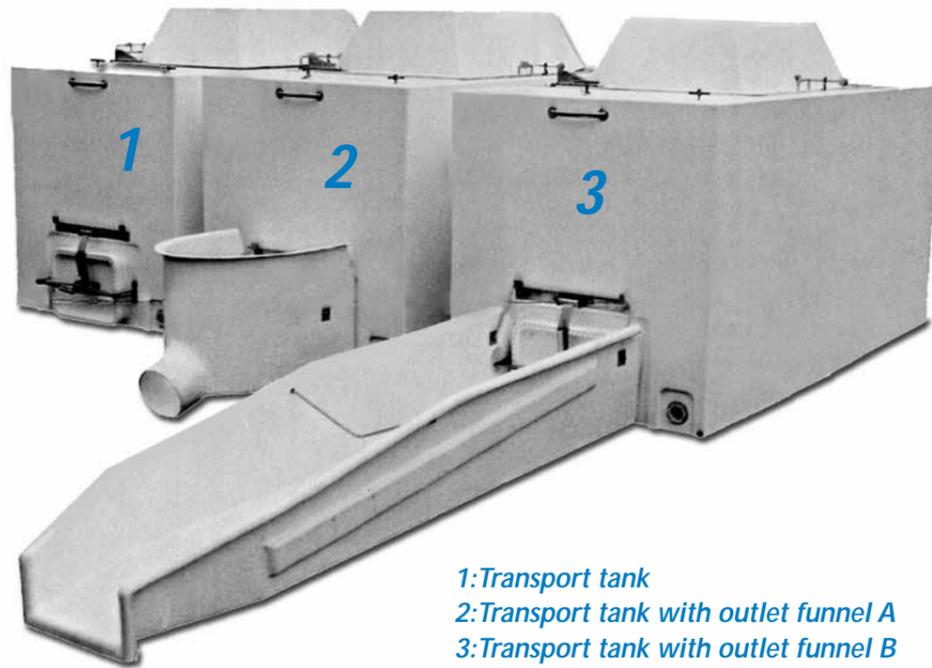
- bottom grid/stand pipe (various perforation available)
- outlet pipe
- supports available (legs or frame)



Tank with telescopic outlet pipe

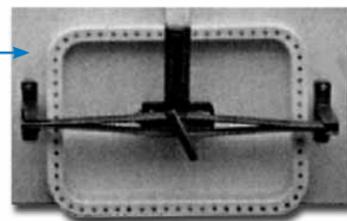
Transport tanks

Transport tanks for live fish (2400 L, insulated)



1: Transport tank
2: Transport tank with outlet funnel A
3: Transport tank with outlet funnel B

- Spray-protection lid which corresponds with the new regulations for epidemic control
- Patented water-outlet lid seal (peeling away of the seal is not possible)
- Internal slide valve at water outlet (allows the amount of fish to be controlled on emptying)
- Standard pipe and slide connections
- Stainless steel fittings optional



Also available custom-made tanks in SS 304 or SS 316 L.

Hatchery equipment

Hatching gutter

Type 215

Hatching gutter, made of GRP, for 4 inserts.
Sliding pipe for regulation of water level

Height: 17 cm
Width: 40 cm
Length: 215 cm

Accessories

- Inserts
- Stop screen

The surface is shiny, smooth and very easy to clean.



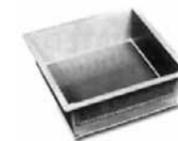
Type 360

Hatching gutter, made of GRP, for 7 inserts.
Sliding pipe for regulation of water level.

Height: 17 cm
Width: 40 cm
Length: 360 cm

Accessories

- Inserts
- Stop screen

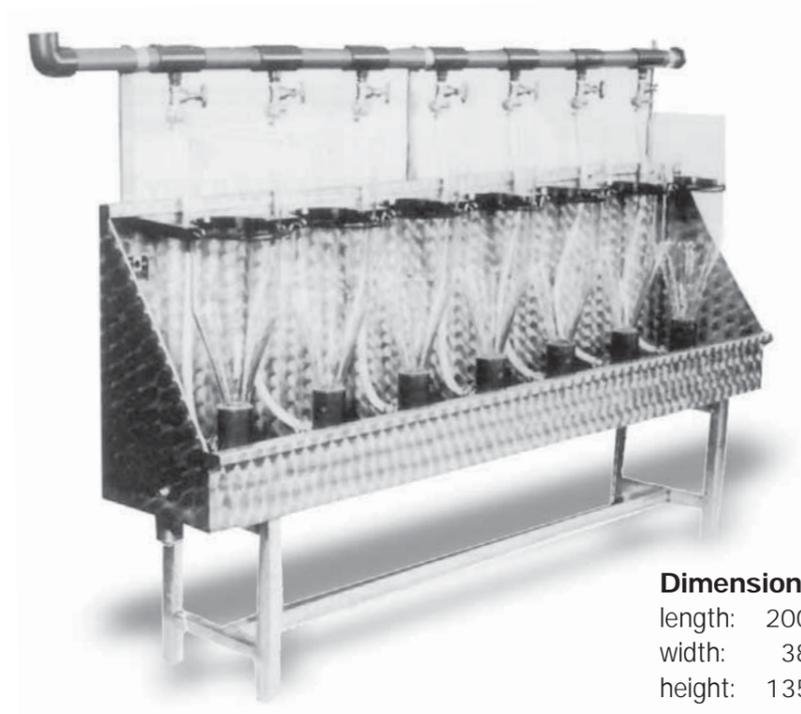


Insert



Stop screen

Hatchery equipment



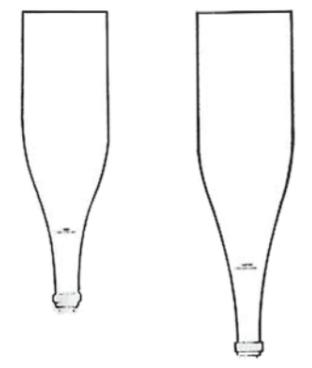
Dimensions
 length: 200 cm
 width: 38 cm
 height: 135 cm

Hatching bottle

7 hatching bottles each holding 8 liters offer a large hatching capacity within the smallest space. Water is supplied to each hatching bottle separately, by means of a valve (tap). Rapid fasteners allow any bottle to be removed at once. Tank completely in steel, mountings in plastic.

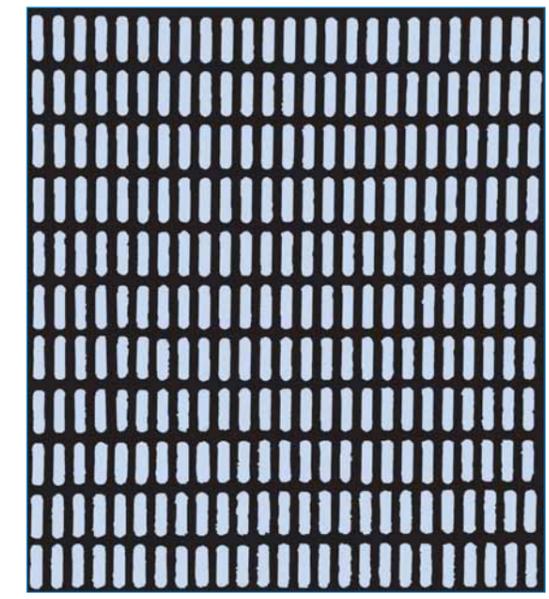


Hatching bottle complete with tank



Hatching bottle 3 l / 8 l

Perforated screens



Size of holes (mm)	Non-perforated area (mm)
1,5 x 20	4,0 x 24,6
2 x 20	5,0 x 25,0
3 x 20	5,5 x 24,8
3,5 x 20	7,0 x 26,6
4 x 20	8,0 x 25,0
5 x 20	10,0 x 24,6
6 x 20	11,0 x 26,5
7 x 20	14,0 x 26,3
8 x 30	14,0 x 36,0
9 x 20	18,0 x 29,0
10 x 30	18,0 x 40,0
12 x 40	20,0 x 45,0

Material: PVC (SS 304, SS 316 etc. on request)
Size of the screens: 2.000 x 1.000 x 1 (mm) or 2 (mm)
 (L x W x thickness)
 Round perforations and/or other patterns of perforations on request.

Miscellaneous

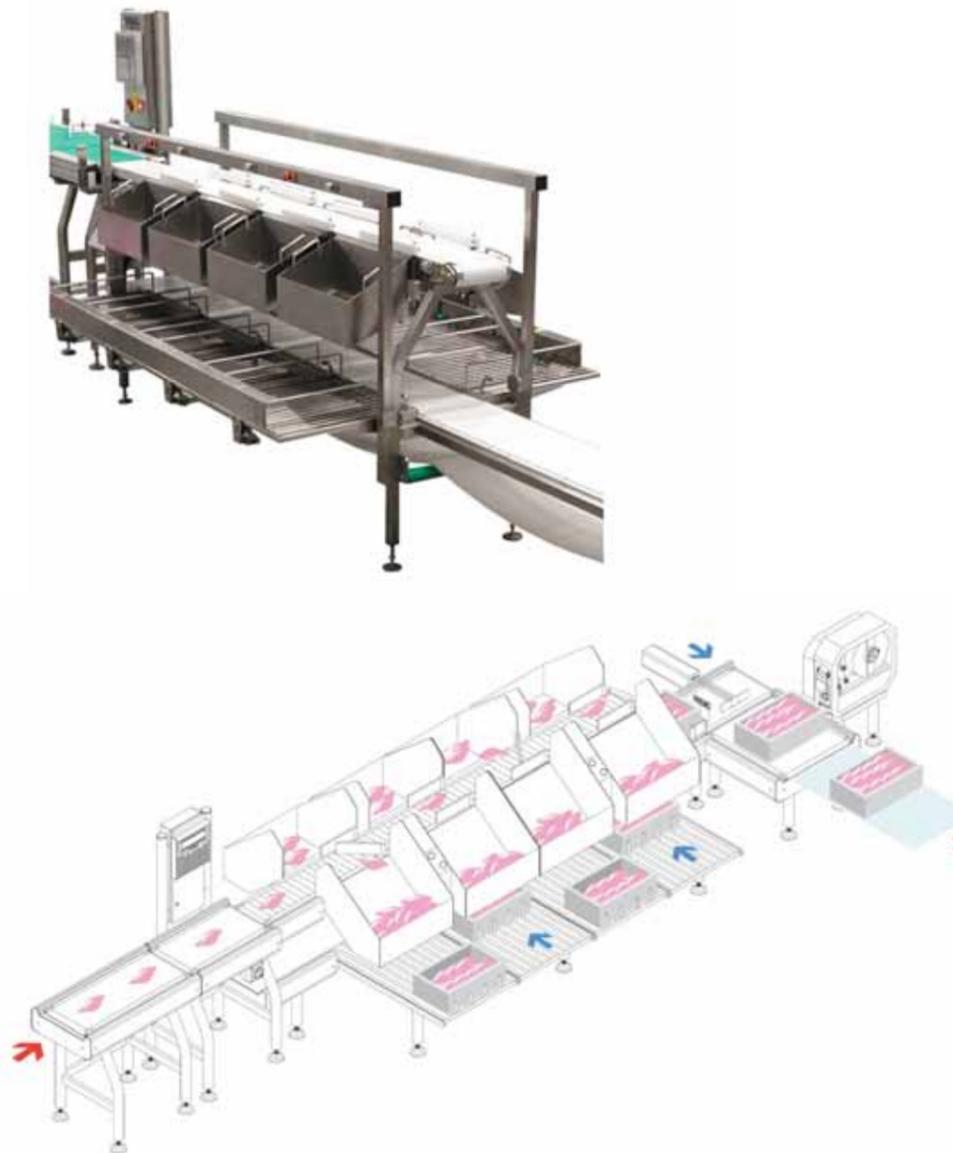
Processing equipment

OBIOL processing equipment

Obiol produces a wide range of processing equipment for the aquaculture industry. The equipment can be made to meet your specific requests.

The range of products exists of:

- bin tumblers
- ice bath , ice producing and dosing systems
- grading (based on fish weight) and packing lines
- software for data processing and labelling
- insulated storage facilities (cold and freeze houses)



Silamorts

Day to day morts & offal simply disposed of:

- Large filling hatch - easy to use; robust 700 or 1150 liter grindertank
- Optional automatic acid dosing system
- Meets the new Biosecurity norms
- Easily dispersed product, with no nasty smells
- Complete systems available depending on requests

The Silamort is made up of an acid resistant stainless steel tank, with a stainless steel cutter/agitator passing through the top. It has been designed to run for long periods.

Operating the Silamort is a simple task. For every ton of fish to be ensiled, 33 liters of acid (BP Addsafe) is required. The 33 liters are pumped into the unit first, the morts are added as they occur, and the unit is switched on. It is not necessary to have a full load before the machine is used.

The Silamort can discharge a full ton load morts in 4-6 hours. The resultant silage must then be pumped into a separate storage tank for the process to be completed. This usually takes 7-10 days. What you are left with is a thick liquid, which does not smell, is stable and in which bacteria have been rendered inactive.



Fish silage is a rich natural fertilizer, high in nitrogen content. To dispose of the material, simply spray it on the land in the same way as any other farm slurry. Care should be taken not to pollute water courses and consultation may need to be sought from the local authorities and river board, prior to regular disposal.