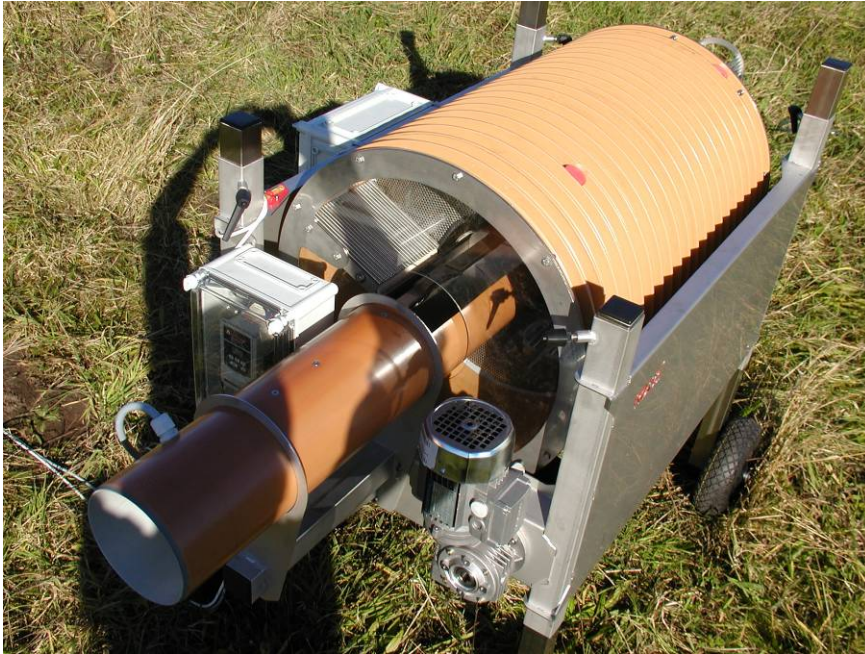


DESIGN AND INTRODUCTION

EasyDip 800 ws



Congratulations on your new **EasyDip 800 ws**,
Vaccination machine by emersion exposure

EasyDip was designed in 2003 and tested with extremely fine results, i.e. **very satisfactory reliability**,

EasyDip vaccinates fish from below 1 grams up to 10-12 grams

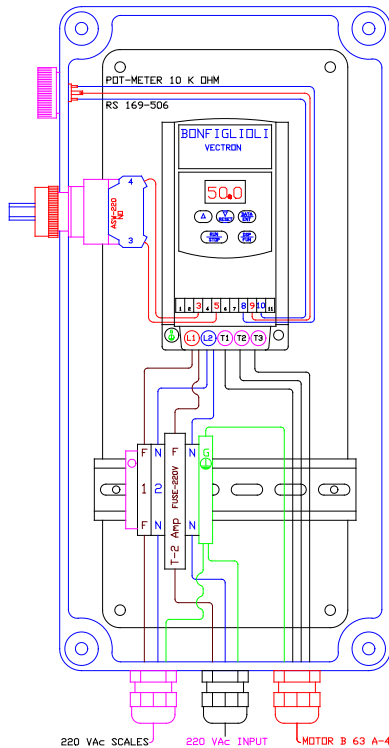
EasyDip is constructed as a basic machine **EasyDip 800** where it is possible to add on a weighing system so it is possible to operate the machine fully automatically

Order the EasyDip without the weighing system and later if needed updating with the weighing system.

Before starting up for the first time, we recommend you to read the EasyDip 800 manual in order to have the optimal utilisation of the machine.

On receipt of the machine, please, inspect for transportation damages.

01 - Start and run the EasyDip



Connect to 230 Vac

Important !!!

the machine have to be connected to earth

Turn on the machine with the main switch on the left side of the plastic box

The small turning wheel in top of the main switch regulate the drum speed

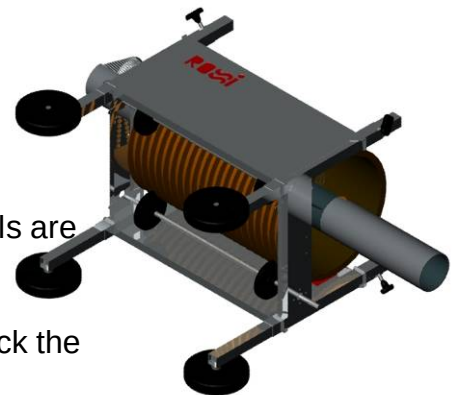
58 HZ	roughly	Fish in the drum for 30 second
48 HZ	roughly	Fish in the drum for 45 second
35 HZ	roughly	Fish in the drum for 60 second

Only EasyDip 800 WS (weighing system)

Don't speed up the drum to higher speed than the weighing system can react to open and closing the weight

The Drum

To adjust the drum in the centre of the stainless steel frame
Under the drum there is placed 4 wheels, the top of the wheels are plastic on the driving rod
Here the wheels are locked with 2 screws M6
Unscrew this screw and move the drum to the centre and lock the screws again
This procedure may have to take place more than once to make the drum run ok
The centre distance between the wheels has to fit proximally to the track on the drum
Otherwise the drum maybe will turn uneven.
You will always see some uneven turning due to the fact that the drum and wheel is only connected with friction
Be careful with the screws placed on the transparent pc in the end of the drum due to the fact that this screws may not touch the frame



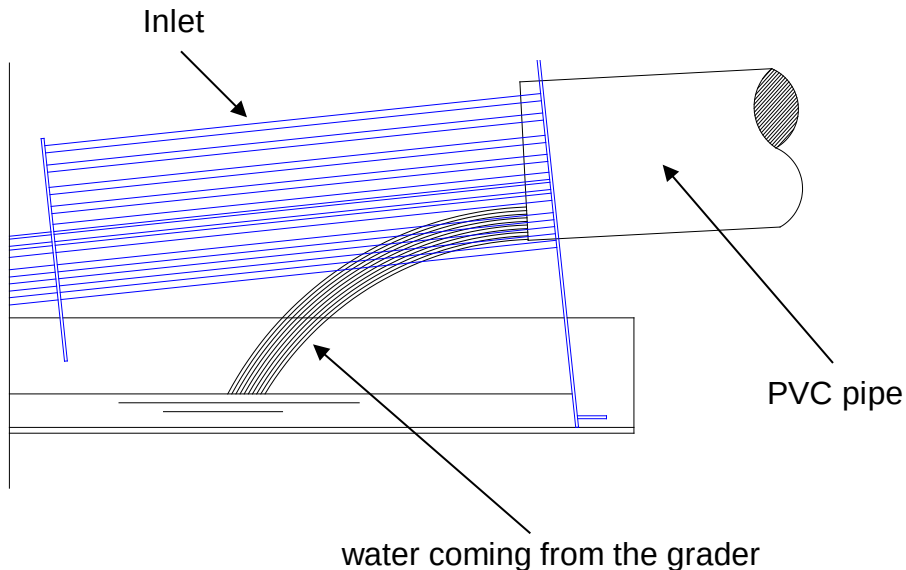
07 - Oxygen

All EasyDip models are equipped with oxygen diffuser
Connect the oxygen to the blue air hose
Adjust the flow of oxygen after the needs

08 – Inlet dewater system

The inlet is made in stainless steel rods diameter on 5 mm
with a distance between the rod on 1 mm

The connection fore PVC pipe is max diameter 110 mm
The water coming from the grader has to be adjusted so no
water are entering the drum
See the sketch



09 - How to fill up the drum

Normally we fill up the drum with 17 litter of water and add 2 litter of vaccine, the mix fore the vaccine is 1:9, but the fish have by entering the bath about 4 % of water attach to there body after vaccination the fish leaves the bath with app. 2 % of water on there body. So to avoid a build up of too mouth water we normally mix as described

It is possible to have max 30 litters in the drum but I think this amount is a little bit to mouth du to the fact that the water after vaccination looks more dirty than with 20 litter

If you mix 17 + 2 litter and after vaccination off 200 kilos, looks to the water quality, and find it ok, you can add 8 litter of water and then 1 litter of vaccine and vaccinate 100 kilo more

10 - Teknisk information

EasyDip 800 / 800ws

Water capacity max 30 Litres

Fish capacity max 5-(7) Kilos / minute

Fish size 1 - 12 Grams

Personnel: 800 WS 0 person

Personnel: 800 1 person

Adjustment of working height: Min 40-cm Max 90 cm *(higher by order)*

Inlet water drain Dia. 110 mm

Outlet: Dia. 160mm

Total height loss: 10-12 cm

Vaccination time: Adjustable 30 – 60 sec.

(Only EasyDip 800ws)

Weight Better than 5%

Load cell Stainless steel model 1130 Single Point

Connection: 230 Volt *(110 Volt by order)*

Power consumption 250 Watt

Machine weight (empty):

EasyDip 800 70 kg

EasyDip 800ws 80 kg

Materials used: Stainless steel 304 and plastic

Dimension Drum D - 50 cm x L – 80 cm

Overall dimension W - 100 cm x L – 180 cm x H – 130 cr

Weary important

The machine has to be connected to ground ("Earth")

*If no grounding the speed drive will make the frame
electrical with about 20 volt*

The 2-30 volt is not dangerous, but the fish will feel it

PS: If grounding not are available take a wire 6 mm² and mount it
to the machine then put the other end in the water

12 - Immersion vaccination

Immersion vaccination

Source AWL

Immersion vaccination is an easy and inexpensive vaccination method suitable for small fish. Immersion vaccines work by submerging the fish in a concentrated solution containing the antigens. These are absorbed into the fish primarily across the gills and other surfaces in contact with the solution.

The procedures are fairly simple and easy to carry out. As long as the fish are healthy, the gills are in good condition and the fish are not unduly stressed by the process they will respond well to the vaccine.

Basically, for immersion vaccination small batches of fish are dipped for 30 or 60 seconds (depending on product) in vaccine. This is usually diluted 1:10 with hatchery water and oxygenated. The normal dose rate is 100 kg of fish per litre of undiluted vaccine. This may vary with different products and manufacturers recommendations must be followed for successful use of the product. A well set up system will quickly vaccinate large numbers of small fish without causing any stress problems.

The major disadvantages of immersion vaccines are the relatively short duration of protection and the cost and stress of vaccinating large fish. In order to achieve protection throughout the life cycle Schering-Plough Aquaculture offers Total Protection Strategies involving oral booster vaccinations for fish primarily immersion vaccinated.

14 DECLARATION OF CONFORMITY

Rossi International A/S
Gedhøjen 12, Hatting
DK- 8700 Horsens

Phone : +45 70 22 40 22
Fax.: +45 75 65 39 33

hereby declares that

Type: **EasyDip 800 WS**

Year / week : _____

Product No : _____

was manufactured in accordance with the regulations of the Council's directive of the 14th June 1989 on mutual approximation of the member states' legislation on machinery, directive No. 89/392. Latest amendment through directive No. 91/368 with special reference to appendix 1 concerning essential safety- and health demands in connection with construction and manufacturing of machines.

Manufacturer
Torben Oberthon Rød

Date: _____

Signature _____