# Immersion Vaccinator and Anesthetizer

AUTOMATED FEEDING SYSTEMS FOR AQUACULTURE





### Immersion Vaccinator and Anesthetizer

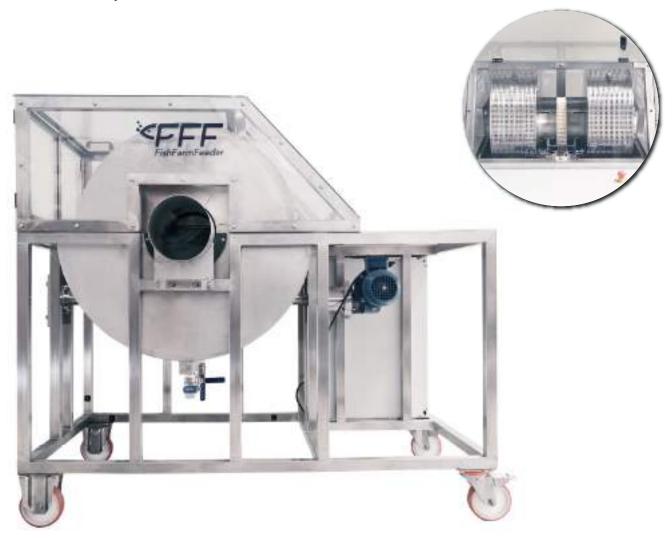


#### **Features**

- Can hold up to 50 liters of vaccine solution at standard dilution (expandable to 150 liters using an optional kit).
- Vaccination time can be configured from 33 to 85 secs by the operator.
- Fed by a fish pump, the vaccinator can work with variable water flows up to 15 m<sup>3</sup>/hr.
- Can be equipped with oxygenation of the vaccine solution.Possible adaptation to a 4" fish pump.
- Can also be used for anesthetic bath or other therapeutics.
- Low energy input (0.55 kW).
- Requires an additional external flow of clean water of around 1-1.5 m<sup>3</sup>/hr to carry the fish post-vaccination.
- Capacity of the vaccinator: 1000 to 1500 kg/day @ around 2 g average body weight.

#### Standardization of the Vaccination Procedure

- Fish juveniles are smoothly "dewatered" automatically during a standard time before being admitted in the vaccination bath.
- The vaccination time (bathing duration) can be adapted by the operator and easily modified at any time.
- The standard volume of the vaccination reservoir is 50 liters and can be extended up to 150 liters using the optional kit.
- The number of cycles can be counted.



## Immersion Vaccinator and Anesthetizer

#### **Benefits**

#### Easiness of Use

Vaccinator is on wheels to be moved easily inside the hatchery.

Using the legs optional kit the vaccinator **working height can be adapted easily** to any reception tank wall height up to 1.30 m.

VACCINATOR is meant for direct connection to a fish pump.

#### **Labour Savings**

The vaccinator remains under the control of a single operator for the whole process when vaccination at hatcheries often requires a team of 5 or 6 people to reach the same vaccination rhythm.

#### **Tough Construction**

The vaccinator is built from carefully chosen material and equipment. It is seawater resistant and highly reliable.

#### Commissioning

Very easy and shall not require specific assistance. However, FFF is keen to support any new user if needed.







# Portfolio

#### **FEEDING SYSTEMS**



#### **HATCHERIES**

Pellet 50-800 µ Ø Pipe 20 mm





#### **PRE-GROW**

Pellet 1-4 mm Ø Pipe 25-40 mm





#### **ONGROWING**

Pellet 4-20 mm Ø Pipe 50-90 mm



#### **EQUIPMENT**



**Propeller Pumps** 



**Spreaders** 



**Immersion Vaccinator** 



FishFarmFeeder.com

