



TECHNICAL SPECIFICATION SHEET

AEV SERIES AUTOMATED INTRAPERITONEAL FISH VACCINATION MACHINE

Automated intraperitoneal fish vaccination machine for farmed fish from 10 to 200 g. Mechanical dosing with no calibration, one vaccine feed and one counter per head, configuration from a single head to sixteen, compressed air and electricity only. CE marked; in daily commercial production since 2025.



MODEL FAMILY

AEV-4

HEADS

4, in a 2×2 layout

**RECOMMENDED
THROUGHPUT**

Approx. 7,500 fish/hour

AEV-8

STANDARD**HEADS**

8, in a 4×2 layout

**RECOMMENDED
THROUGHPUT**

Approx. 15,000 fish/hour

AEV-12

HEADS

12, in a 6×2 layout

**RECOMMENDED
THROUGHPUT**

Approx. 22,500 fish/hour

AEV-16

HEADS

16, in an 8×2 layout

**RECOMMENDED
THROUGHPUT**

Approx. 30,000 fish/hour

Intermediate and odd head counts are built to order; the configuration is set to the facility's need, starting from a single head.

TECHNICAL SPECIFICATION

DOSING AND SPECIES

Product	Automated intraperitoneal (IP) fish vaccination machine
Fish weight range	10–200 g · standard configuration
Species	Sea bass, sea bream, trout, salmon and other farmed fish species
Species trialled in the field	Sea bass and rainbow trout, across eight sites in Türkiye including the reference site; salmon trials in progress with a configuration adapted for larger fish
Dose range	0.01–0.25 ml
Dose setting	Set to the customer's protocol prior to order; can be changed on request
Dosing mechanism	Positive displacement. The piston stroke is mechanically limited, so delivered volume is independent of vaccine viscosity, temperature and supply pressure.
Vaccine consumption	Approx. 10,000 doses per litre at a 0.1 ml setting
Vaccine formulations	Each head has its own vaccine feed, so the heads can be run on different formulations: on the AEV-8, each of the eight heads can carry a different vaccine. Each head carries its own stroke setting, so a change of formulation does not call for recalibration.
Head count	Set to the facility's need, starting from a single head. Standard models have 4, 8, 12 and 16 heads; intermediate and odd head counts are built to order.

CAPACITY

Model range	AEV-4 · AEV-8 · AEV-12 · AEV-16. The model number is the head count.
Standard configuration	AEV-8 — 8 heads in a 4×2 layout
Recommended throughput (AEV-8)	Approx. 15,000 fish/hour · approx. 120,000 fish per 8-hour shift
Maximum throughput (AEV-8)	Approx. 25,000 fish/hour · approx. 200,000 fish per 8-hour shift (engineering rating)

CAPACITY	
Operators required	1 operator per 2 heads, for placing the fish only — 4 operators on the AEV-8
OPERATION	
Fish placement	Every operation on the machine is automated; only placing the fish is done by hand
Injection consistency	The machine vaccinates every fish at the same point and to the same depth
Operator safety	The operator's hands stay clear of the needle while the machine is running
Scale removal	Scales are cleared from the needle automatically after every injection
Counting	Each head counts independently; one combined summary panel shows the total. Every vaccinated fish is counted, and the records are retained in a separate, protected layer.
Monitoring	Connects to a companion Android application either over the local Wi-Fi hotspot broadcast by each machine or over Bluetooth, as preferred. In the standard configuration monitoring stays within the facility; no connection to a corporate network or external server is needed. Remote monitoring and control can be configured on request.
Height adjustment	The holder height is set to the size of the fish
CONSTRUCTION AND INSTALLATION	
Installation requirement	Compressed air and electricity only
Body material	Load-bearing structure in 316 stainless steel; profiles and fittings in anodised aluminium. The parts that make up the body are selected for contact with seawater and salt, and the outer body can be washed down with pressurised water.
Deployment	Land-based hatcheries and floating platforms at sea cage sites; the delivered volume stays constant under moderate wave motion and the mounting is designed to damp platform vibration
Set-up time	Set up and ready to vaccinate in under an hour, once the machine has been moved
Power consumption	Varies with head count; stated in the quotation
Compressed air consumption	Varies with head count; stated in the quotation
Dimensions and weight	Varies with head count; stated in the quotation
COMMERCIAL	
Certification	CE marked. Certificates for the components used in the machine are provided with the quotation for the configuration selected.
Support	On-site installation, operator training and remote support through the season
Delivery	Delivery terms are stated using Incoterms. Transport and delivery conditions are given in the quotation.
EU Declaration of Conformity	Issued for the machine supplied

Capacity and throughput figures are approximate. Output on site varies with species, fish weight and condition, water temperature, facility layout and the experience of the operating crew. This does not apply to dose range, weight range and head count: these are design specifications, confirmed with the customer before the order.

CONTACT

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AEGEAN VACCINE

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Urla, İzmir, Türkiye

Aegean Vaccine is a brand of İzmir Paketleme Lojistik İnşaat Sanayi ve Ticaret Ltd. Şti. Specifications may be updated as the range develops; the current version is published at aegeanvaccine.com.