

JIMCO®

UV-C & OZONE
Technology

#chemicalfreeworld



EFFECTIVE AND CHEMICAL-FREE
EGG DISINFECTION

PROTECT YOUR HATCHERIES AND EGGS FROM DAY ONE
WITH JIMCO'S UV-C AND OZONE-BASED TECHNOLOGY.



JIMCO.DK

WHY EGGS NEED TO BE DISINFECTED

HIGH BIOSECURITY STARTS WITH THE EGG

- ✓ CROSS-CONTAMINATION FROM STORAGE, TRANSPORT, AND FARMS
- ✓ RISK OF BACTERIA, FUNGI, AND PESTS
- ✓ 2–6 DAYS OF WAITING IF DISINFECTION ONLY TAKES PLACE AT THE PROCESSING FACILITY
- ✓ PEST INFESTATIONS CAN TRIGGER DISEASE OUTBREAKS AND PRODUCT RECALLS
- ✓ THAT'S WHY IT'S CRUCIAL TO DISINFECT THE EGGS ALREADY ON THE FARM BEFORE TRANSPORT TO THE HATCHERY

Latest News

Reference:

Bell & Evans
Now operating 34
FLO-D® MINI Mark 2 units
(and just ordered two more!)

2025

CUSTOMER CASE

2019: Customer in Germany tests one unit

2019: Orders 3 units

2020: 36 machines in operation – one at each site

2025: Now owns 39 machines

LACK OF DISINFECTION AT FARM OR STORAGE LEVEL
POSES A RISK TO THE ENTIRE PRODUCTION CHAIN.

HIGHLY SUITABLE FOR DISINFECTION OF EGGS AND HATCHERIES

The mobile JIMCO FLO-D® Mini Mark 2 provides effective disinfection of:

- Eggs at all stages
- Rooms, equipment, and ventilation ducts
- Without the use of water, chemicals, or manual labour



The technology combines UV-C light with ozone, which is generated on-site. The oxidising effect effectively kills bacteria, mould, and viruses in the air and on surfaces – even deep into cracks and ventilation systems.

The unit requires no manual handling and can be operated wirelessly.

Ideal for both hatcheries and farms where biosecurity and documentation are top priorities.

**AVOID
TIME-CONSUMING
MANUAL
DISINFECTION**

**WITH WATER &
CHEMICALS.**



PROVEN EFFECTIVENESS

TESTED AND DOCUMENTED – WITH NOTICEABLE RESULTS

DOCUMENTED PERFORMANCE – HATCHERY APPLICATION

- Increased fertility rate (**+1.6 percentage points**)
- Reduced banger rate (**–33%**)

Parameter	Formaldehyde	With JIMCO FLO-D (Ozone)
Fertility (%) Share of fertilised eggs	79.4 %	81.0 %
Hatch (qty) Number of chicks hatched	6,369	6,488
HOS (%) Hatch rate based on all set eggs	74.5 %	75.9 %
HOF (%) Hatch rate based on fertile eggs	93.8 %	93.7 %
Banger rate (%) Eggs lost due to bacterial contamination	0.18 %	0.12 %

Data from documented operation under comparable conditions.



RECOMMENDED METHOD:

JIMCO recommends testing crushed eggshells – the Shell Rinse Method – to document bacterial reduction on the eggshell

BENEFITS OF JIMCO EGG DISINFECTION



- ✓ Immediate egg disinfection – without cross-contamination
- ✓ No damage to the eggshell
- ✓ Increased hatch rate
- ✓ Lower 7-day mortality
- ✓ Higher efficiency than fogging/VHP
- ✓ No storage of hazardous substances
- ✓ No toxic residues – ozone naturally reverts to oxygen
- ✓ No resistance or mutations against oxidation
- ✓ Regular use can achieve <1 CFU throughout the facility
- ✓ Low energy consumption – no waiting time after treatment
- ✓ Full room coverage – from floor to ceiling, reaching every corner and crevice

Date hatchery	Total count (CFU)	Enterococci (CFU)	Staphylococcus aureus (CFU)	Difference (CFU)	Difference in %
29-11-2021	120	<10	<10	110	91,67
02-12-2021	40	<10	<10	30	75,00
01-12-2021	90	<10	<10	80	88,89
05-12-2021	480	<10	<10	470	97,92
28-11-2021	50	<10	<10	40	80,00
04-12-2021	430	<10	<10	420	97,67
02-12-2021	100	<10	<10	180	94,74
01-12-2021	2460	<10	<10	2450	99,59
04-12-2021	270	<10	<10	260	96,30
04-12-2021	430	<10	<10	420	97,67
31-12-2021	<10	<10	<10	NA	NA
30-12-2021	140	<10	<10	130	92,86
02-01-2022	520	<10	<10	510	98,08
03-01-2022	160	<10	<10	150	93,75
30-12-2021	90	<10	<10	80	88,89
30-12-2021	3040	<10	<10	3030	99,67
31-12-2021	<10	<10	<10	NA	NA
30-12-2021	340	<10	<10	330	97,06
30-12-2021	530	<10	<10	520	98,11
02-01-2022	2020	10	<10	2010	99,50
03-01-2022	720	<10	<10	710	98,61
30-12-2023	Egg broken				Avarage
					93,99894

Note: Values marked as "NA" indicate that the level was below the detection limit (<10 CFU) and therefore could not be measured.

TECHNICAL INFO & FEATURES

FLO-D® MINI MARK 2 SPECIFICATIONS

- **Data logging** via USB & Cloud
- **Access via** tablet/smartphone
- **LED status** indicator and alarm speaker
- **Automatic start** and programmable operation
- **Multilingual interface available**
 - Supports multiple languages
 - Ideal for North America's multilingual workforce

TECHNICAL DESCRIPTION

FLO-D® MINI - Mark 2

UV-C lamps: 8 × 70 Watt

Quartz tubes: 8 units (for use in cold rooms)

Power supply: 1×230V + PE, 50/60Hz, 10A
1 × 110V / 60 Hz for North America

Power consumption: 640 Watt

Display: Proface PLC, colour panel

- ✓ Temperature and Humidity Sensor
- ✓ Data logging for your surface disinfection

Room Volume:

Disinfection: Up to 314 m³

Equivalent to approx. 11,000 cubic feet

Capacity: Up to 60,000 eggs can be disinfected at once in a 100 m³ room.

Dimensions:

Height: 1150 mm Width: 560 mm ·

Depth: 890 mm · Weight: 59 kg



Easy to move
from room to room.

DATALOGGING & SIKKERHED

FULL DOCUMENTATION & EASY OPERATION



	A	B	C	D	E	F	G
1	date (UTC)	O3Level	O3Setpoint	date (UTC)	Fanspeed	Temperature	Humidity
2	06-02-2024 22:10	7.1	10	06-02-2024 22:10	70	16.505.714,00	98
3	06-02-2024 22:11	7.2	10	06-02-2024 22:11	70	16.525.608,00	98
4	06-02-2024 22:12	7.2	10	06-02-2024 22:12	70	16.546.502,00	98
5	06-02-2024 22:13	7.4	10	06-02-2024 22:13	70	16.597.946,00	98
6	06-02-2024 22:14	7.6	10	06-02-2024 22:14	70	16.597.946,00	98
7	06-02-2024 22:15	7.6	10	06-02-2024 22:15	70	16.632.307,00	98
8	06-02-2024 22:16	7.7	10	06-02-2024 22:16	70	16.653.201,00	98
9	06-02-2024 22:17	7.9	10	06-02-2024 22:17	70	16.668.474,00	98
10	06-02-2024 22:18	7.9	10	06-02-2024 22:18	70	16.706.453,00	98
11	06-02-2024 22:19	8	10	06-02-2024 22:19	70	16.675.709,00	98
12	06-02-2024 22:20	8	10	06-02-2024 22:20	70	16.706.453,00	97
13	06-02-2024 22:21	8.2	10	06-02-2024 22:21	70	1.676.613,00	98
14	06-02-2024 22:22	8.2	10	06-02-2024 22:22	70	16.818.577,00	98
15	06-02-2024 22:23	8.4	10	06-02-2024 22:23	70	16.818.577,00	98
16	06-02-2024 22:24	8.4	10	06-02-2024 22:24	70	16.818.577,00	98
17	06-02-2024 22:25	8.5	10	06-02-2024 22:25	70	16.818.577,00	98
18	06-02-2024 22:26	8.7	10	06-02-2024 22:26	70	16.818.577,00	98
19	06-02-2024 22:27	8.7	10	06-02-2024 22:27	70	16.818.577,00	98
20	06-02-2024 22:28	8.7	10	06-02-2024 22:28	70	16.818.577,00	98
21	06-02-2024 22:29	8.9	10	06-02-2024 22:29	70	16.928.861,00	98



- All treatments are logged automatically – no manual input required
 - Data can be retrieved via USB or sent directly to the customer's system (VPN)
 - Option to monitor and document multiple machines and locations simultaneously
- Data logging provides full traceability and documentation – ready for internal QA or external audits
 - Clear colour display with step-by-step status updates
 - The unit gives an audible alarm before treatment begins
 - Remote control and access via smartphone or tablet

With JIMCO's solution, you get complete transparency and documented safety – whether you operate one or many locations.



UV-C AND OZONE SOLUTIONS FOR THE FUTURE
EUROPE · SOUTH AMERICA · NORTH AMERICA · AFRICA · ASIA · MIDDLE EAST

JIMCO TECHNOLOGY REFERENCES

