

**JIMCO**<sup>®</sup>

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

### TEST DATA

Fertility rate increased by **1.6%** (compared to formaldehyde)

Number of bangers reduced by **33.3%**

FARM	HMS CODE	Collect Date	Average Egg age	Age flock wkn	SETTING	LINE	FERTILE		HATCH			Banger's Removed	Banger %
							Qty	%	QTY	HOS	HOF		
Melitz Form	22147	29-okt	13	33	8.550	500F	6.790	79,4	6.369	74,5	93,8	15	0,18%
Melitz Ozon	22147	29-okt	13	33	8.550	500F	6.927	81,0	6.488	75,9	93,7	10	0,12%



*The method is used to measure bacterial load directly on eggshells before and after treatment.*

### 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 m<sup>3</sup>

Equivalent to approx. 11,000 cubic feet

Capacity: Up to 60,000 eggs can be disinfected  
at once in a 100 m<sup>3</sup> room.

Dimensions:

Height: 1150 mm Width: 560 mm ·

Depth: 890 mm · Weight: 59 kg

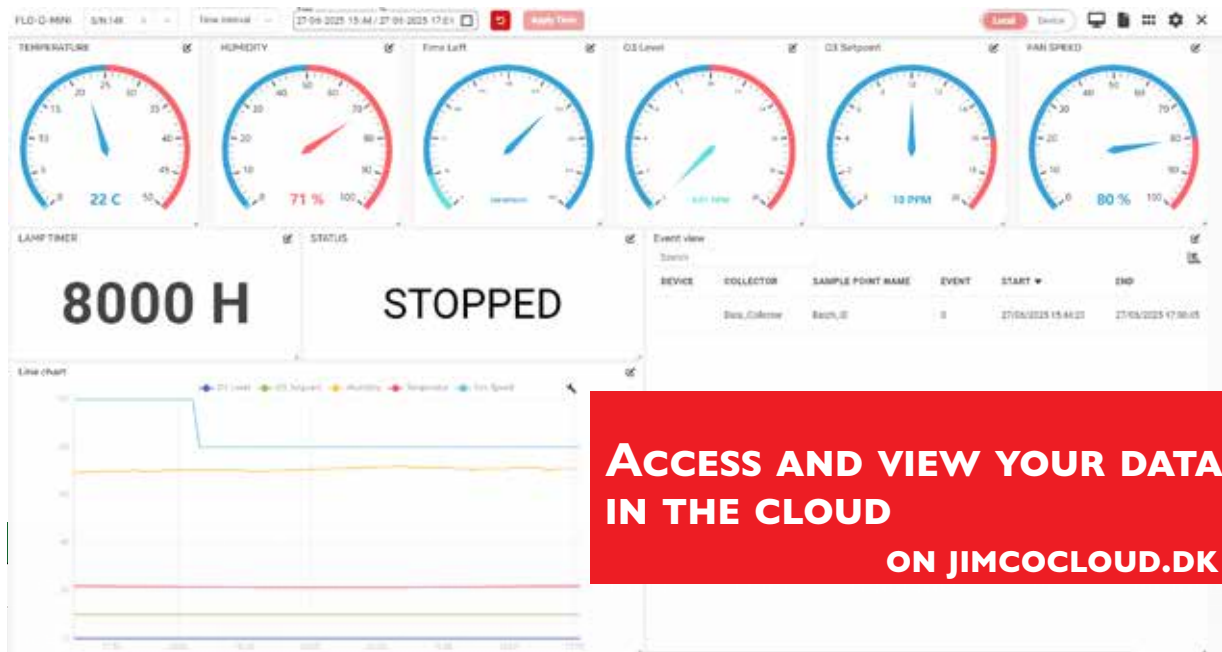


Easy to move  
from room to room.



# DATALOGGING & SIKKERHED

## FULL DOCUMENTATION & EASY OPERATION



**ACCESS AND VIEW YOUR DATA  
IN THE CLOUD**

**ON JIMCOCLOUD.DK**

	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	16.546.16,5	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	16.668.474,00	98
9	06-02-2024 22:17	7.9	10	06-02-2024 22:17	70	16.706.453,00	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	16.775.709,00	98
12	06-02-2024 22:20	8	10	06-02-2024 22:20	70	16.818.577,00	98
13	06-02-2024 22:21	8.2	10	06-02-2024 22:21	70	16.818.577,00	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	16.928.8	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

