



# K-CONTINUOUS PRODUCTION CAGE

It is a Turn-Key BSF Breeding Module based on a monoblock Climate Room equipped with a HVAC, mating lightening system and dedicated sliding rails as egg-collector support.

## Application

Conceived for large breeding operations, the cage arrives fully finished at the customer's location. It is designed for ease of operation and requires minimal manpower, achieving low operational costs.



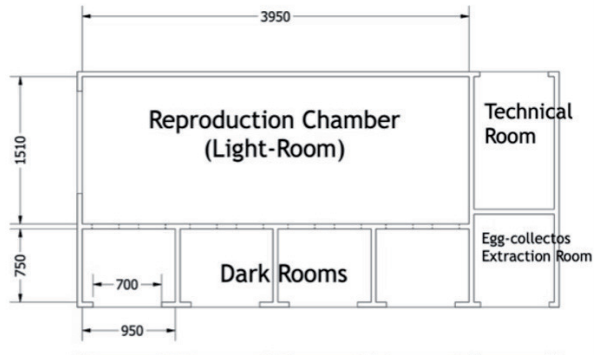


## Solution Components

The monoblock Climate Room consists of a primary Light-Mating-Room, four small Pupae-Dark-Rooms, an Eggs-collector extraction room, and a dedicated technical room. It is equipped with a HVAC system to maintain precise temperature and humidity levels.

# Key Dimensions

External Size	5,0 x 2,4 x 2,4 (h) m
Total Volume	28,8 m <sup>3</sup>
Flying Volume	11,7 m <sup>3</sup>
Resting Fly Area	Around 25 sqm
Insulation	50mm thermo insulated wall panels
Prefab Cell Framework	Steel frame for easy transport



# Production Performance

Output	80 to 220 grams/day (continuous)
Input	Pupa weight range from 20 to 60 Kg
Optimal Fly Density	250,000 / 300,000 flies
Daily Nebulized Water	0,5 - 1,5 litres
Mating Lighting	~600 Watts (running 10h/day)

# Maintenance and Cleaning

Recommended cleaning with water vapor every three months. Production does not need to be stopped; an operator with a wireless vapor device can complete the task in under an hour. A simple monthly visual inspection of the HVAC system, wiring, and piping integrity is required.



A biosecurity net keeps flies within a designated area, far from key cage components, avoiding malfunctions and potential escapes



Smart access meets superior protection. The high-durability U-zip transparent access provides an impenetrable seal while allowing seamless entry for maintenance and operations.



Our oviposition system offers a superior alternative to traditional materials. Its high-grade, non-deformable plastic ensuring dimensional stability over time.



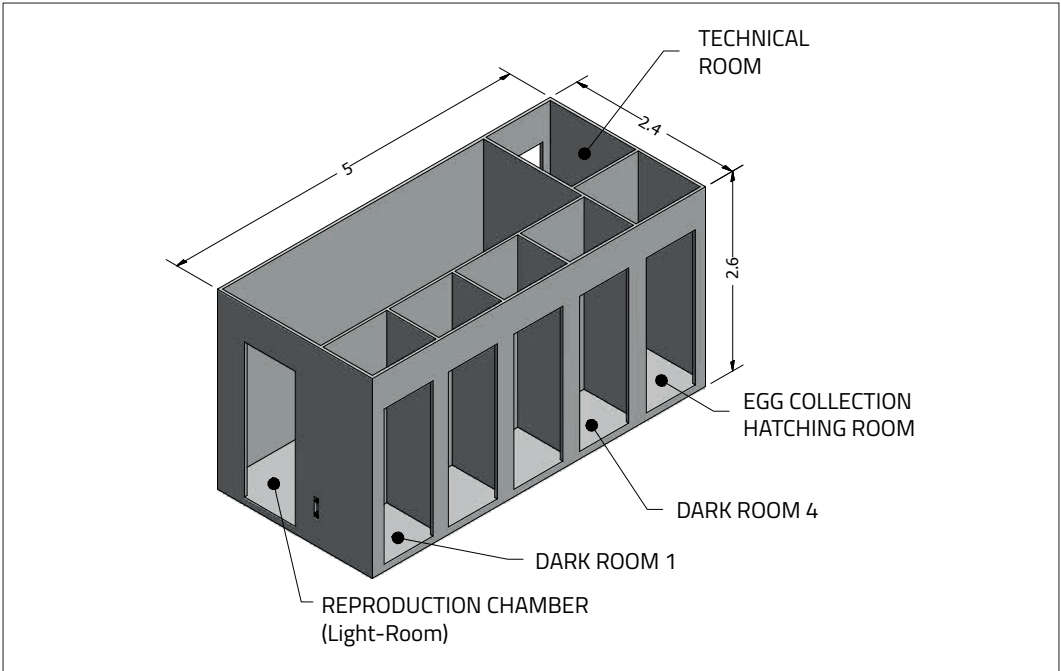


diagram lay-out - one cage

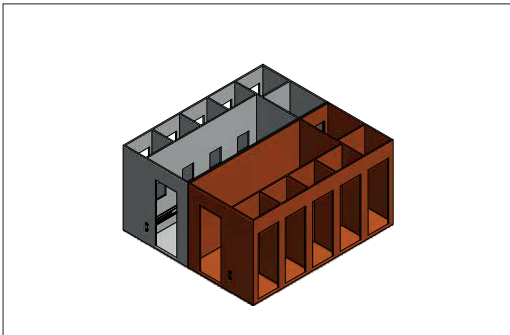


diagram lay-out - two cage

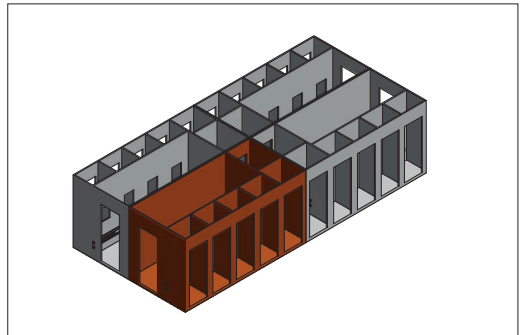


diagram lay-out - four cage

## Product diagram and scalability diagram

Maximize your output, minimize your footprint. Our modular breeding system is designed for total flexibility: start with one unit and easily scale up to four or more. The integrated technical corridor provides a continuous backbone for utilities, significantly reducing space requirements and streamlining maintenance.

## Working Principle

Pupae are loaded weekly into darkrooms in boxes arranged in piles. After 4 weeks, the first room is cycled. Egg collectors along the light-room are accessed from two sides and removed every 1-2 days. The system simulates the natural BSF environmental conditions automatically to trigger reproduction.

## Requirements and Utilities

The K-CAGE is optimized to ensure efficient and predictable breeding cycles, maximizing egg production sustainably. The integrated design supports a continuous workflow, facilitating the monitoring and management of each phase of the cycle.

Infrastructure	Roofed barn or building with a levelled floor.
Electrical Grid	220V 50-60Hz (Max 3 Kw)
Water network	Softened water, 5 litres/h at 2 bars

## Operational Conditions

Optimized for 28 °C and 60% RH. Equipped with K-Mating-Lights, K-Humidity-Kit and K-HVAC-System.

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## Customer Profile

- Small-medium scale breeding operations
- Large scale industrial breeding operations



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