

Professional cleaning and disinfection equipment

For 37 years, in 35 countries on all continents, we have been taking care of the safety and comfort of our customers.

We effectively protect against microbiological threats. Our products, created to meet the challenges of today, have been appreciated by the largest companies in the world.

AIRBUS **DOLBY****BOEING[®]****IMAX** **BARCO****LEGO[®]****TOYOTA****LEXUS**

Disinfection of everyday objects



Washing and drying LEGO[®] bricks



Washing and drying 3D glasses



Disinfection of air



Disinfection of luggage and parcels



Dezynfekcja okularów optycznych i przeciwsłonecznych

Safe LEGO[®] bricks

Kooptech[®] WD-LB professional system for washing and quick drying
LEGO[®] bricks



Benefits:

- ✓ Effective washing and drying at low temperature
- ✓ Protection of blocks against thermal damage
- ✓ High performance
- ✓ Easy and safe operation
- ✓ Operation training takes less than 30 minutes
- ✓ Small dimensions, the device does not take up more space than an ordinary washing machine

Efficiency of the washing and drying system:

- ✓ Cycle time - approx. 5 min. (washing + drying)
- ✓ Approx. 3.5 kg of clean and dry bricks in one cycle
- ✓ More than 10 cycles per hour
- ✓ Up to 40 kg of clean and dry bricks per hour

Low proces temperature:

- ✓ Washing.....max 40°C
- ✓ Rinsingmax 25°C
- ✓ Drying max 25°C



CLEANING AGENTS for LEGO BRICKS



- ✓ The washing detergent effectively removes types of dirt from the bricks.
- ✓ Rinse Aid freshens the blocks' surface making them pleasant to the touch..
- ✓ The liquids are fully biodegradable.
- ✓ Safe to transport.

One set: washing detergent (10L) + rinse aid (5L) is enough to effectively wash and dry approx. **3000 kg of bricks.**

One set Kooptech[®] WD-LB includes:

- ✓ Washing-drying device.....1 pc.
- ✓ Baskets for washing and drying Lego[®] bricks..... 2 pcs.
- ✓ Covers for baskets.....2 pcs.
- ✓ Plate for bricks portioning..... 1 pc.

Technical specification and installation requirements:

Width	750mm (29,5")
Depth	1100 mm (43.3")
Height	910 mm (35.8")
Weight	155 kg (342 lbs.)
Nominal supply voltage*	3-phase 400 VAC (±10%), 50Hz
Connection power	8.9 kW
Actual energy consumption	7.85 kWh
Sound level	< 70 dB (A)
Water source efficiency	Min.2500 l/h (660.4 gal./h)
Water source pressure	min. 2.5 bar (36.3 psig)
Actual water consumption	18 l/cykl (4.75 gal./cycle)
Washing Detergent consumption	12 ml/cykl (0.4 oz./cycle)
Rinse Aid consumption	6 ml/cycle (0.2 oz./cycle)

*other supply voltage versions available upon request

Attention

You should not place in the washing-drying baskets elements, which:

- ✓ smallest dimension is less then 5 mm
- ✓ would prevent mixing the rest of bricks during washing cycle
- ✓ Graphics placed on the bricks can be damaged after a while during washing process (as during normal usage due to rubbing and wear).

Manufacturer reserves the right to modify the construction and specifications of the product without affecting its functionality

Kooptech-Bio Sp.z o.o. Jagiellońska St. 88 building 16, 00-992, Warsaw Poland.

www.kooptech-bio.com

office@kooptech-bio.com

NIP: 521-364-80-29

Kooptech[®] WD-LB system evaluation – test procedure and results

Washing and drying of LEGO[®] bricks

The purpose of the tests was to evaluate the following parameters of washing and drying of LEGO[®] bricks:

1. Efficiency of the process
2. Effectiveness of washing
3. Effectiveness of drying
4. Abrasion of bricks' surface during the process
5. Additional wear and tear

Tests description:

Parameters:

1. Tests were performed on typical unlabeled bricks
2. Hardness of water: below 8°dH
3. Ambient temperature of washing agent: 40°C
4. Drying temperature: 25°C
5. „Dirtying” the bricks meant to dip basket with bricks in an ink-filled container
6. 50 complete cycles were performed

Test cycle phases:

1. „Dirtying” – basket with bricks are dipped in ink
2. Air-drying (no heat) for 1 hour
3. Complete washing and drying cycle:
 - Washing with Kooptech[®] WD Washing Agent solution at 40°C
 - Rinsing with fresh water at 40°C
 - Rinsing with Kooptech[®] RA Rinse Aid solution at 35°C
 - Centrifugal drying

Conclusions:

1. Bricks should be disassembled before washing/drying
2. Efficiency of the process (washing and drying): up to 40 kg per hour
3. Maximum weight of bricks per one basket: 1.75kg
4. Total minimum time of washing/drying: 5 minutes
5. The washing process effectively removes dirt from the bricks' surface
6. The bricks' surface was dry after the process, with the following exempt:
 - Traces of water may remain within bricks' hidden areas after the drying process
7. No significant wear and tear of the bricks was noticed
8. No serious damage of the bricks was noticed

Photographic documentation:

1. Picture no. 1 – bricks in basket after the „dirtying” phase
2. Picture no. 2 – bricks in basket after washing, before drying
3. Picture no. 3 – bricks in basket after drying
4. Picture no. 4 – single bricks after the „dirtying” phase
5. Picture no. 5 – single bricks after washing, before drying
6. Picture no. 6 – single bricks after drying

Photographic documentation from tests of washing and drying of LEGO[®] bricks with Kooptech[®] WD-LB:

Picture no. 1 – bricks in basket after the „dirtying” phase



Picture no. 4 – single bricks after the „dirtying” phase



Picture no. 2 – bricks in basket after washing, before drying



Picture no. 5 – single bricks after washing, before drying



Picture no. 3 – bricks in basket after drying



Picture no. 6 – single bricks after drying

