

A COMPLETE SYSTEM FOR WASHING, DRYING,
TRANSPORTATION AND DISTRIBUTION OF 3D GLASSES

RECOMMENDED BY DOLBY®
RECOMMENDED BY RealD



SPOTLESS



WASHING & DRYING of 3D GLASSES

The core of Kooptech[®] System is the **Kooptech[®] WD Washer-Dryer** for 3D glasses equipped with **patented** function of **fast low-temperature drying**.

- **Fast, reliable washing & drying, at low temperature**
- Duration of full cycle:
washing + drying = approx. 5 min
- **Up to 12 cycles per hour**
- 3D glasses are loaded into a Washer-Dryer in **Kooptech[®] 3D glasses Baskets**
- **Kooptech[®] WD Washer-Dryer** can be used various types of 3D glasses

IMAX[®] **REAL D**

DOLBY 3D **XPAND[™]**
V I S I O N

VOLFONI[®]
CREATIVE 3D TECHNOLOGY

masterImage
ABSOLUTELY 3D

INFITEC

- **Certificates**



- **Specification**



External dimensions and weight:

| | | |
|--------|---------|------------|
| width | 750 mm | (29.5") |
| depth | 1100 mm | (43.3") |
| height | 1450 mm | (57.1") |
| weight | 180 kg | (397 lbs.) |

| | |
|-----------------------------------|------------------------------|
| Nominal supply voltage US* | 3-phase 208 VAC (±10%), 60Hz |
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| | |
|-----------------------------------|------------------------------|
| Nominal supply voltage EU* | 3-phase 400 VAC (±10%), 50Hz |
|-----------------------------------|------------------------------|

| | |
|------------------|--------|
| Connection power | 8.9 kW |
|------------------|--------|

| | |
|---------------------------|----------|
| Actual energy consumption | 7.85 kWh |
|---------------------------|----------|

| | |
|-------------|-------------|
| Sound level | < 70 dB (A) |
|-------------|-------------|

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|-------------------------|------------------------------|
| Water source efficiency | min. 2500 l/h (660.4 gal./h) |
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|-----------------------|--------------------------|
| Water source pressure | min. 3.0 bar (43.5 psig) |
|-----------------------|--------------------------|

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|--------------------------|-------------------------------|
| Actual water consumption | 13.5 l/cycle (3.6 gal./cycle) |
|--------------------------|-------------------------------|

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|-------------------------------|-----------------------------|
| Washing Detergent consumption | 12 ml/cycle (0.4 oz./cycle) |
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|-----------------------|----------------------------|
| Rinse Aid consumption | 6 ml/cycle (0.2 oz./cycle) |
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*other supply voltage versions available upon request

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www.kooptech-bio.com

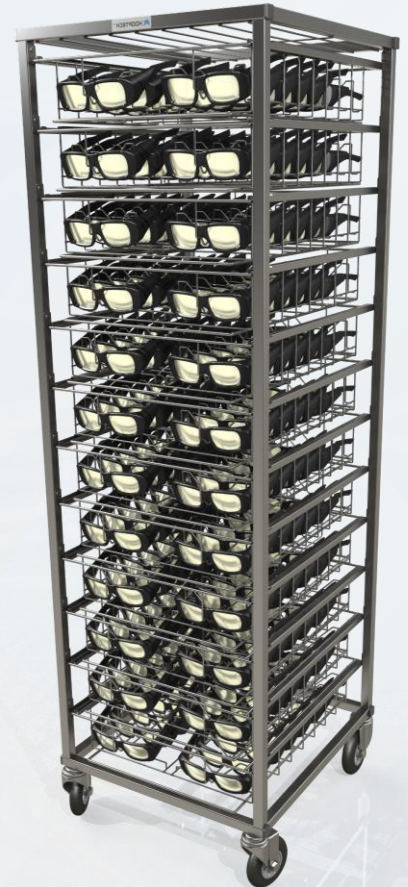
NIP: 521-364-80-29

STORAGE & TRANSPORTATION of 3D GLASSES

The part of Kooptech[®] System are **Baskets for 3D glasses** and **basket Trolleys**. It is an easy and convenient form of collection, transportation and distribution of 3D glasses.

- Each Trolley stores up to 12 removable Baskets for 3D glasses
- **External dimensions and weight:**

| | | |
|--------|---------|-----------|
| width | 470 mm | (18.5") |
| depth | 520 mm | (20.5") |
| height | 1530 mm | (60.2") |
| weight | 35 kg | (77 lbs.) |
- **2 Baskets** filled with 3D glasses can be directly transferred to Kooptech[®] Washer-Dryer
- A dedicated **Cover for 3D baskets** is used to hold 3D glasses in the **Basket** while it is being washed in Kooptech[®] Washer-Dryer



CLEANING AGENTS for 3D GLASSES

Crucial component of efficient, reliable washing is a proper cleaning solution. Kooptech[®] developed **Washing Detergent** and **Rinse Aid** safe for 3D glasses with excellent cleaning properties activated in **low temperature**.

- **Washing Detergent** is activated in low-temperature
- **Rinse Aid** enables efficient rinsing and drying **without any spots left on the surface** of the 3D glasses
- Kooptech[®] **Washing Detergent** and **Rinse Aid** are the only cleaning agents on the market design specifically for cleaning of 3D glasses
- Both **Washing Detergent** and **Rinse Aid** are safe for transportation
- A set of **Washing Detergent (10l)** and **Rinse Aid (5l)** lasts for approx. **830 washing & drying cycles**



WHY KOOPTECH[®] SYSTEM?

3D GLASSES WASHING

| Kooptech [®] WD Washer-Dryer for 3D glasses | Gastronomic dishwasher |
|---|--|
| Low and predictable costs | Costs impossible to predict |
| Cleaning liquid reaches whole surface of 3D glasses thanks to spin washing | Washing effectiveness depends on amount of baskets filled with 3D glasses, placed by the operator inside the dishwasher |
| Washing effectiveness does NOT depend on the operator | Washing effectiveness fully depends on the operator |
| Cleaning agents, activated in low temperature, designed specifically for cleaning 3D glasses – safe for eyewear and for the Washer-Dryer itself | Cleaning solution is more aggressive for eyewear, very often activated in higher temperature which causes progressive damage to 3D glasses |

3D GLASSES DRYING

| Kooptech [®] WD Washer-Dryer for 3D glasses | | Other solutions | |
|---|---|--|---|
| Drying of 3D glasses relies on: <ul style="list-style-type: none"> centrifugal removal of water from the 3D glasses surface after washing low temperature drying process | <ul style="list-style-type: none"> + very low cost of drying 3D glasses + no mechanical damage of lenses (scratches, tarnish) + short drying time + no temperature damage + repeatability of the process | Hot air drying | <ul style="list-style-type: none"> - high cost - constant accumulation of chemicals on lenses surface causes formation of permanent stains and spots - temperature and mechanical damage of lenses - high cost of restoring glasses stock |
| | | Hand wiping | <ul style="list-style-type: none"> - high cost - mechanical damage of lenses - high cost of restoring 3D glasses stock |
| | | Leaving 3D glasses 'to dry themselves' | <ul style="list-style-type: none"> - constant accumulation of chemicals on lenses surface causes formation of permanent stains and spots |

3D GLASSES STORAGE AND PROTECTION

| Kooptech [®] Trolley and Baskets for 3D glasses | | Other solutions | |
|--|---------------------------------------|--------------------------------|-----------------------------|
| Separation of 3D glasses | + lenses protected from damages | No separation of 3D glasses | - damaged, scratched lenses |
| Cleaned pieces are not touched by operator | + patrons always get clean 3D glasses | Everything depends on operator | - fingerprints on lenses |

All our products are manufactured in European Union.