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# *HydrAton 1642*

## Sales guide





# *HydrAton 1642*

**Committed to Safer and More Sustainable Printing**



**N E W**

## Technological collaboration between Fujifilm Group and MUTOH

Fujifilm Group's ink technology

**AQUAFUZE™ ink**



MUTOH's unique film formation technology

**HydrAton's film  
formation system**

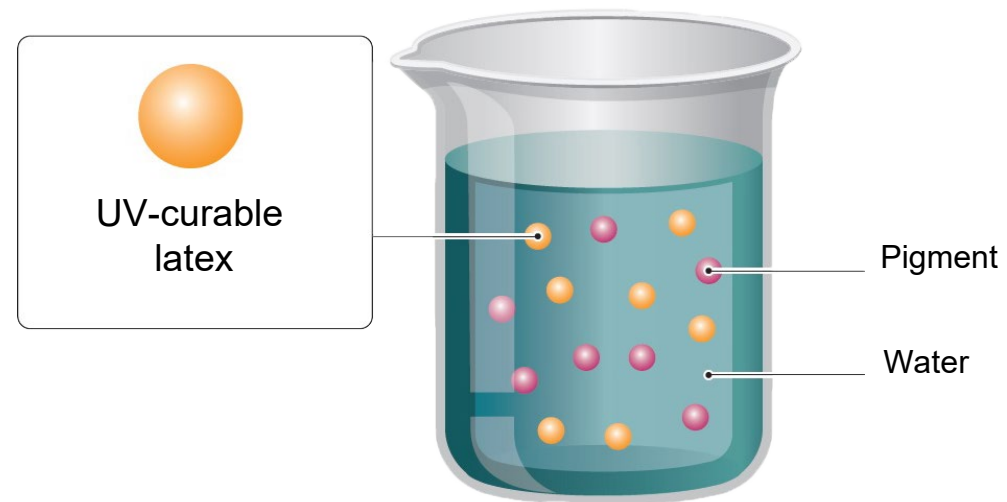


\*AQUAFUZE™ is a registered trademark of Fujifilm Group.

Fujifilm Group

# AQUAFUZE technology\*

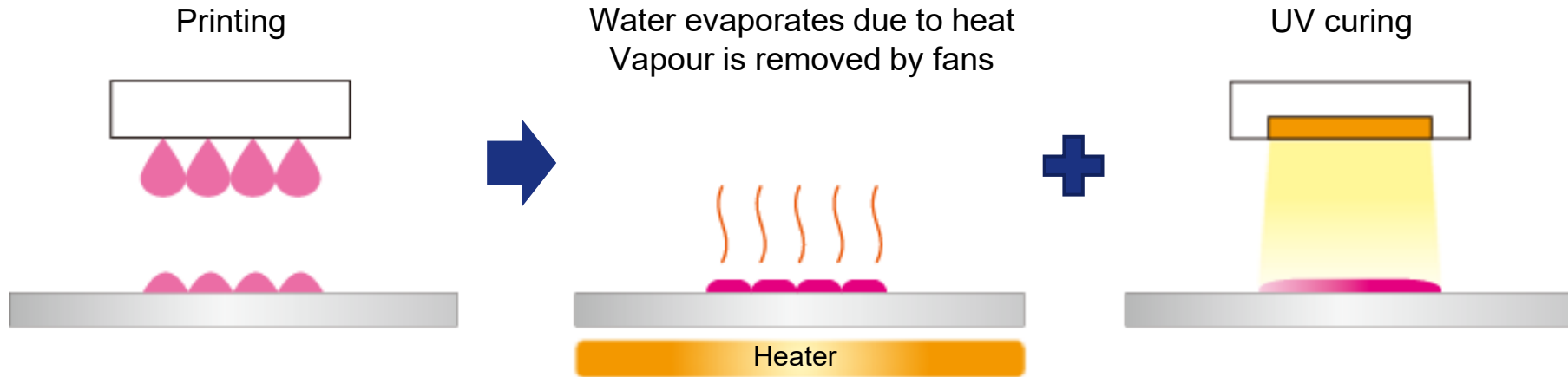
Fujifilm Group's proprietary technology for stable water dispersion of photopolymers



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MUTOH

# HydrAton's film formation system



Optimise a series of processes from image quality formation to film deposition  
**Maximise the performance of AQUAFUZE™ ink !**



**Achieving durable coating and high-quality printing**



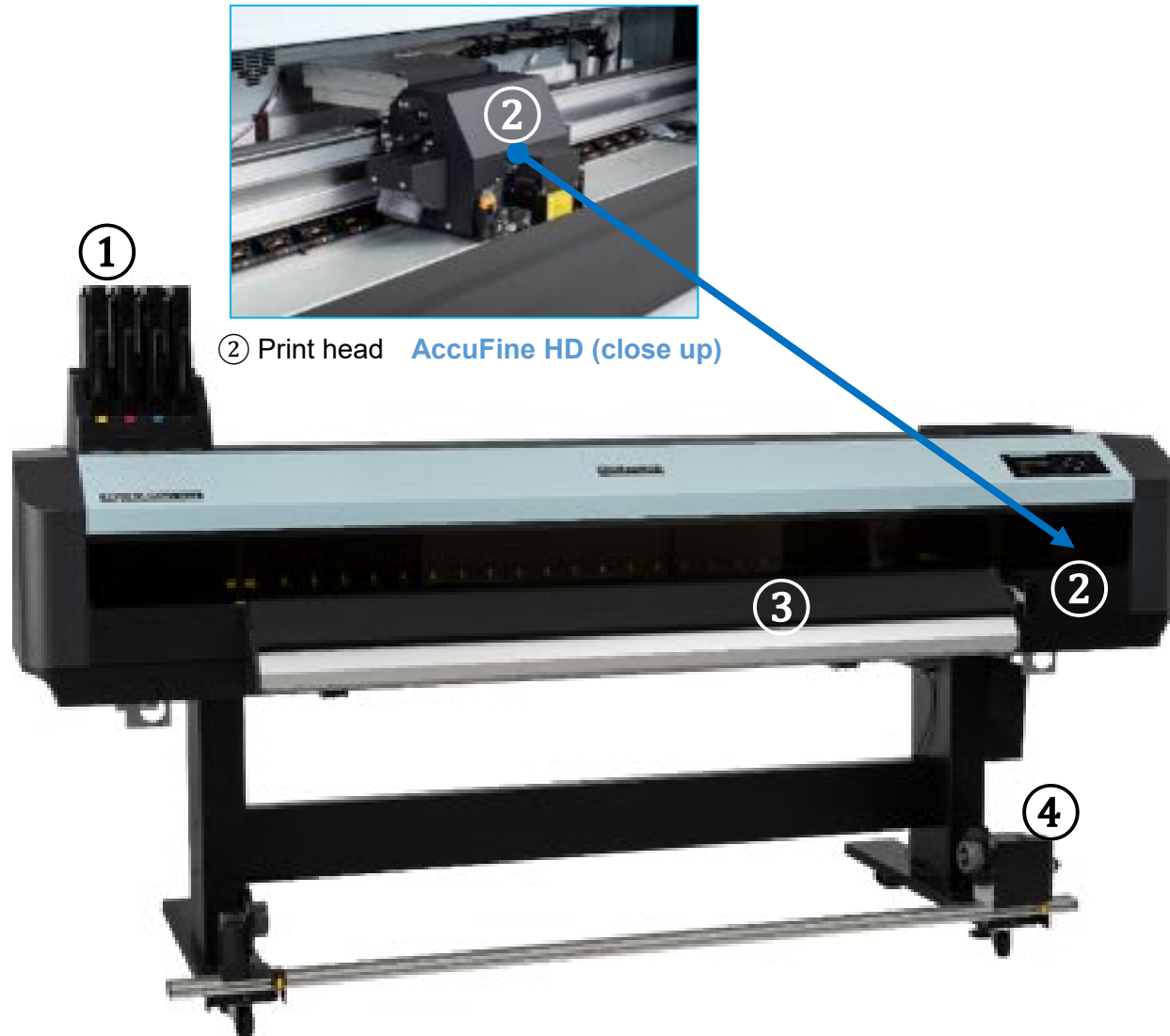


# *HydrAton 1642*

## Characteristics



# Product overview < Unique inkjet printing technology >



## ① **AQUAFUZE™ ink**

Water-based ink with UV ink properties, developed using the latest technology by Fujifilm Group  
4 colour (CMYK)

## ② **Print head**

Equipped with two **AccuFine HD** large, high-density piezo print heads

- Productivity: 15.3 m<sup>2</sup>/h (High Speed mode)

## ③ **HydrAton's film formation system**

A unique combined **3-way heater, blower fan and UV lamp** system

## ④ **Take-up system**

Comes standard with a 30 kg printer-linked take-up system

# Strengths of AQUAFUZE™ + HydrAton's film formation system combined

1. Sustainable, health-conscious water-based ink
2. Abrasion-resistant ink layer
3. Thin ink film for refined natural finishes
4. Energy-efficient and resource-conscious printing system



# 1. Health-conscious water-based ink

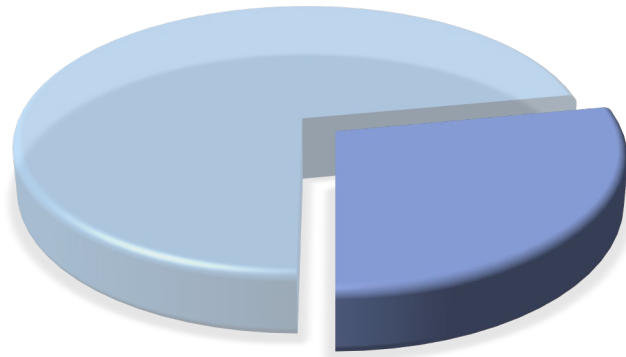
- Considerate of workers' health: Low VOC / low odour
- SVHC free : Free from Substances of Very High Concern\*
- GHS hazard free : Does not require any hazard markings\*
- VOC low emitting regulations, standards or protocols:  
Already achieved: GREENGUARD GOLD, AgBB, A+ (France), Belgium VOC  
Upcoming: M1, BREEAM, LEED



# 1. Health-conscious water-based ink

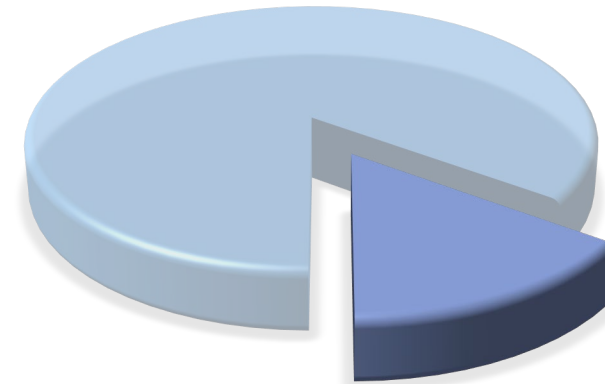
- Low VOC

Competitive  
waterbased inks



VOC content  $\leq$  28%

AQUAFUZE™



VOC content  $\leq$  15%



Significantly reduced VOC components compared to competitive waterbased inks



Based on information found in each company's SDS

# 1. Health-conscious water-based ink

## ● Low odour

UV ink



**Specific odour**  
both before and after curing

AQUAFUZE™



**Low odour** & **Almost odourless**  
Before curing & After curing



- ✓ **Print comfortably without worrying about the smell**
- ✓ **Practically odourless finished product, ideal for indoor use**

# 1. Health-conscious water-based ink

- **SVHC free – Free from Substances of Very High Concern\***

AQUAFUZE™ ink is free from all substances listed under SVHC and is designed with a strong focus on minimizing its impact on human health

- **Environmentally conscious brand owners and major companies increasingly demand products that are free from SVHC substances.**

(If the SVHC content is 0.1% or more, the company is obligated to disclose this information within 45 days upon users' request)

- **Once included in the Authorization List, a substance cannot be placed on the market in EU member states without specific authorization.**

(Since approval is required for each intended use, obtaining authorization is often highly challenging, making it virtually impossible to introduce such a substance into the European market.)

- ✓ **Designed with worker well-being & safety in mind**

- ✓ **Avoid the risk of printed materials being subject to export controls**



# 1. Health-conscious water-based ink

## ● GHS hazard free\*

### About GHS

- The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) was adopted as a United Nations recommendation in July 2003.
- GHS classifies the hazard levels of chemicals according to globally unified standards, displays them in an easy-to-understand manner using pictograms, and reflects the results on labels and SDSs (Safety Data Sheets) to prevent accidents and protect human health and the environment.

Reference: Japanese Ministry of Health, Labour and Welfare



AQUAFUZE™ ink is health-conscious and does not require GHS hazard pictograms

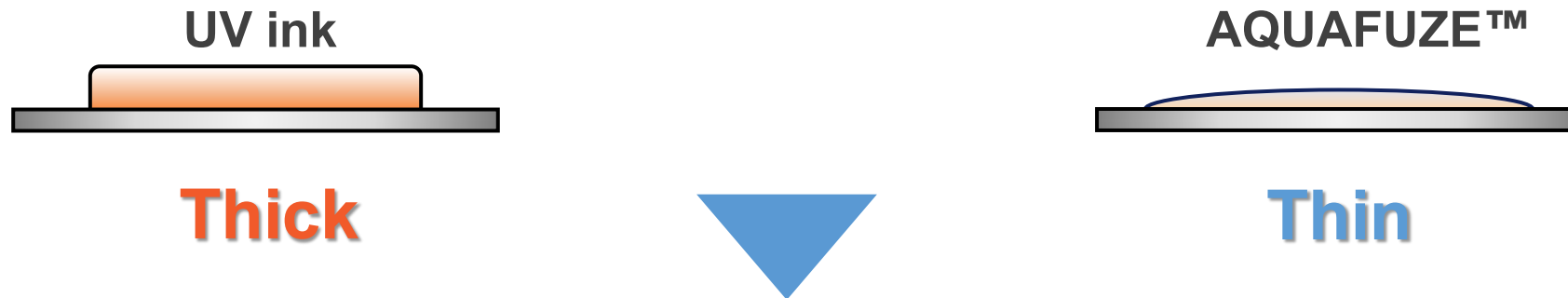


✓ Designed with worker well-being in mind

### 3. Thin ink film for refined natural finishes

UV ink has a thicker film (pile height) after curing.

AQUAFUZE™ ink hardens as its water content — comprising most of the formulation — evaporates, resulting in a thin, durable film.



- ✓ Keeps the natural texture of the used material intact
- ✓ Printed materials are lighter, easier to handle, which reduces shipping costs



※Images serve illustrative purposes.

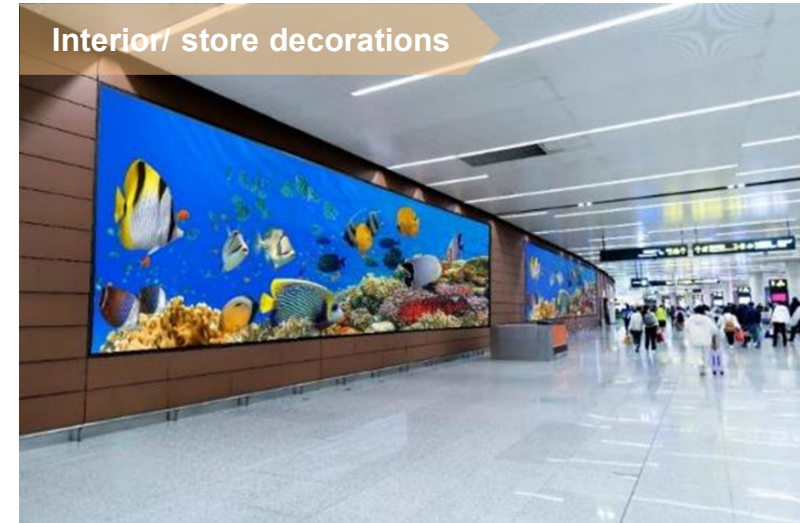


# *HydrAton 1642*

## Application examples



# Suitable for a wide range of applications, including *indoor* use, such as wallpaper



# Application : wallpaper

▶ Restaurants, hospitals, schools

Low VOC

Low odour

☞ Minimal health risk; ideal for indoor use

Abrasion resistant

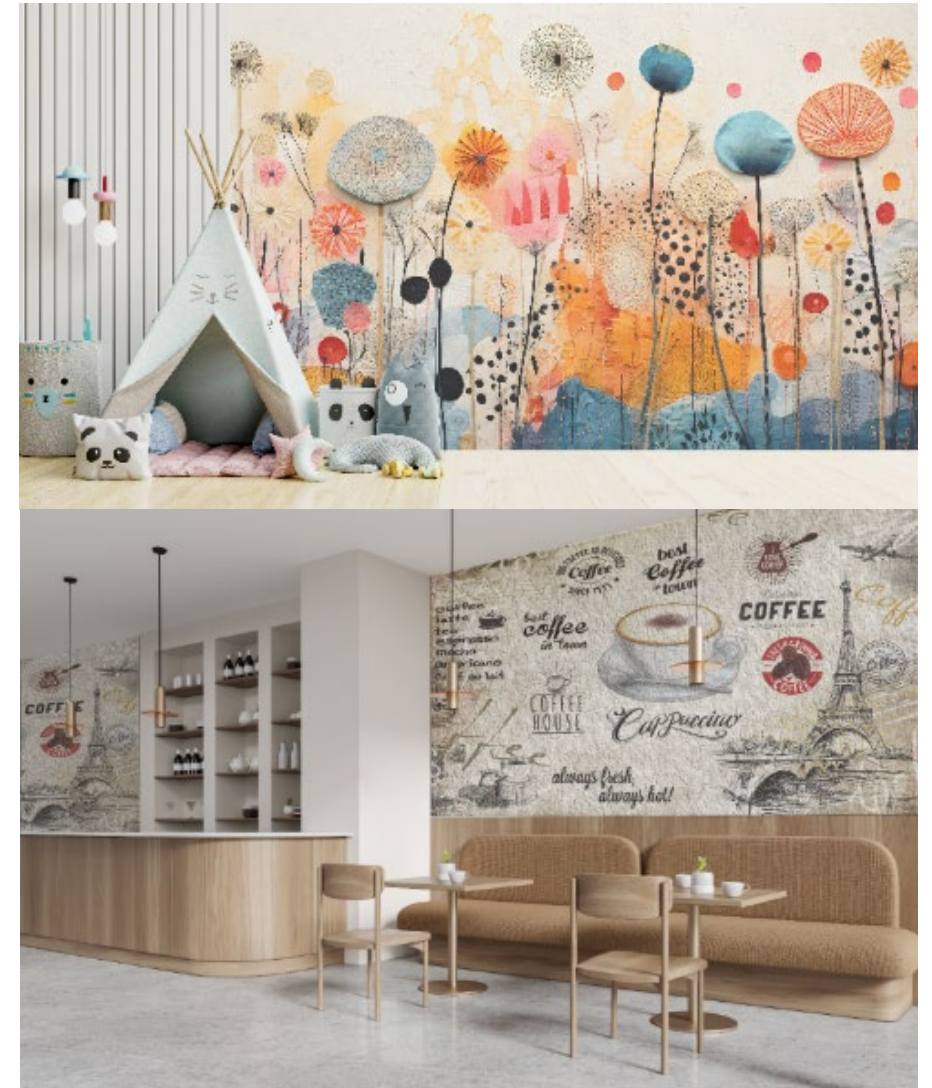
☞ Easy handling after printing

Low film thickness

☞ Makes using the unique texture of various wallpaper materials possible

Low-temperature heaters

☞ Little media shrinkage leading to high tiling accuracy and easy construction



# Application : interior decorations

Stations, restaurants, shopping centres

Low VOC

Low odour

☞ Minimal health risk; ideal for indoor use

Media compatibility

☞ Can be used on eco-solvent, UV and latex media

Quick delivery

☞ Possible to use for short term delivery projects that need quick drying



# Application : soft signage, indoor banners

Stretchable

Abrasion resistant

☞ Easy handling after printing

Original media texture

☞ Put to good use the original fabric texture in your prints

Thin film

Light weight

☞ Printed materials can be folded, making for easier transfers

**Atrium**



☞ Possible to reduce transportation costs



# MUTOH's genuine RIP software VerteLith



Fully equipped with functions required for wallpaper and signage applications to maximise printer performance

## ■ Equipped with tiling function



Tiles can be printed overlapping each other to ensure clean seams.

You can split tiles into any size or number of tiles and flexibly add trim marks and guidelines for cutting as you see fit.



## ■ Two preview functions to minimise mistakes and losses

### RIP preview function

Display the projected printed dots on your monitor before printing.



### Soft proofing function

Before printing, view reproduced colours on your screen that resemble the final printed result.



※Perfect colour match is not guaranteed.

## ■ New input profile for maximum colour reproduction

You can select the optimal profile for your application, including the new input profile "MUTOH Wide Colour Choice" that achieves a wide colour gamut.



EDP Award 2021 Winner

Winner of Europe's EDP Award 2021 in the Workflow Technology category

### About EDP Awards

This award is given annually by the European Digital Press Association (EDP), a group of European printing magazines, to the product or technology that has received the highest evaluation among all digital printing-related products and technologies.

**A sustainable printing  
technology that balances high  
performance with environmental  
and human health considerations.**





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