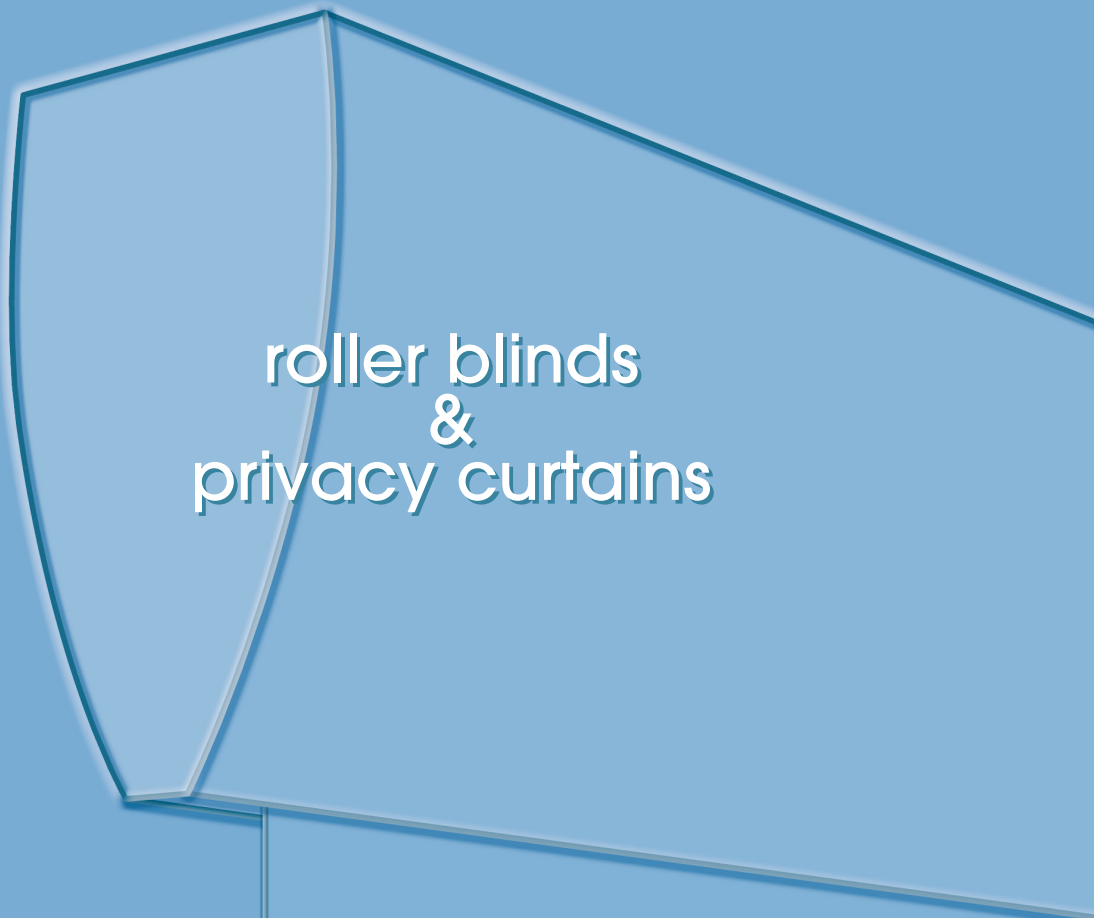


UV-C Blinds

Self-disinfecting
blind systems

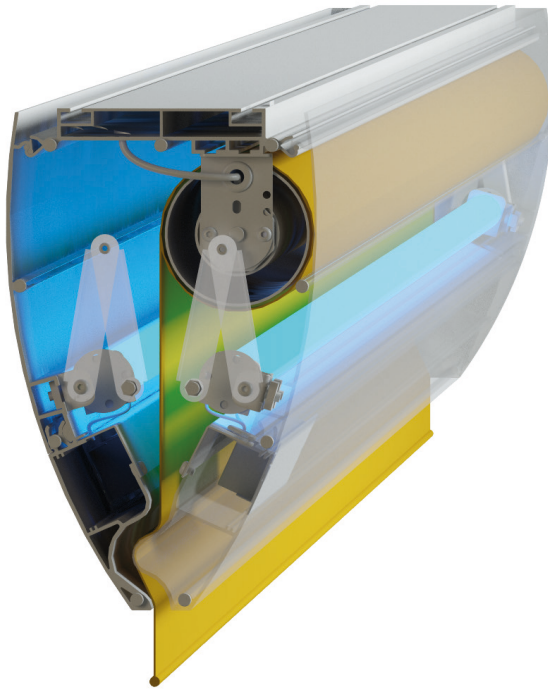
(International patent)



roller blinds
&
privacy curtains



MADE IN ITALY



HAIs and privacy curtains

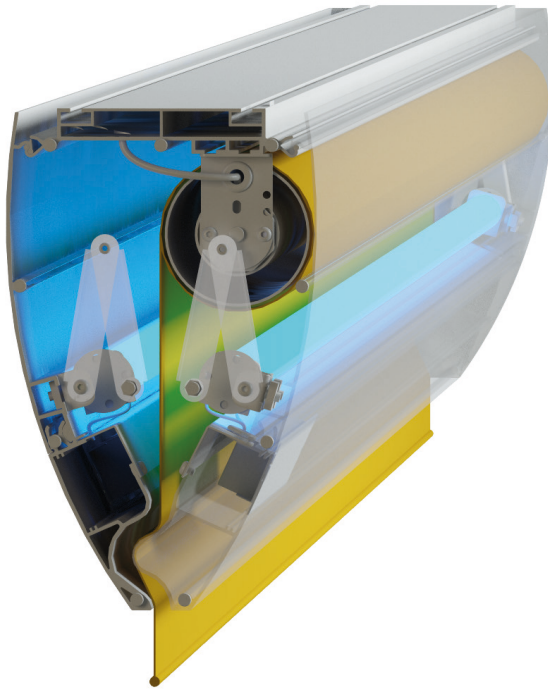
Infections in hospital are on the increase

Healthcare Associated Infections (HAIs) are on the increase. In Italy, where **UV-C Blinds** is based, approximately 500,000 hospitalised patients out of 9,500,000 every year acquire an infection in hospital. Of these, a percentage of 3% to 5% are fatal (data provided by the Public Health Department of Florence University).

On a hospital ward privacy curtains are one of the most handled surfaces and they are rapidly infected. In one week **92% of curtains are contaminated with bacteria**, as demonstrated by a 2012 study conducted by the Department of Internal Medicine, University of Iowa Carver College of Medicine, Iowa City (USA).

The conclusion of the American study called for the setting up of further research into the role of privacy curtains in transmitting potentially pathogenic bacteria and for the implementation of **methods for reducing curtain contamination**.

A possible response at this time is an invention by TAO Medical: a system so **easy to use** that it does not involve long disinfection procedures or require new chapters to be added to elaborate protocols. A **simple push button activates immediate disinfection** every time it's needed, promptly reducing costs correlated to hospital infections, cleaning and cleaning staff.



The curtain that protects from HAIs

UV-C Blinds is the first silent powered roller blind for cubicles and windows. It shields the light and provides privacy, but above all it **contributes to the health of patients, visitors and staff**. It incorporates a **fabric disinfection** system activated automatically every time the "disinfect" button is pressed.

UV-C Blinds is TAO Medical's first product, created and industrialised in the TAO Tessile research and development laboratories. This Italian company produces prestige technical indoor and outdoor curtains for residential, collective and office use and holds **numerous patents**.



The UV-C Blinds product is:

Useful



Reduces the risk of Healthcare Associated Infection acquired during hospital stays and by visitors and staff. Makes **regular curtain cleaning**, often only occasional, an **ordinary cleaning operation**, i.e. routine and constant, even every day.

Innovative



Works on curtains; one of the most widespread and underestimated high risk touchpoints in hospitals and clinics. Makes them **hygienic and disinfected** at all times by simply **pressing a button**.

Patented



The patented technology is based on **ultraviolet UV-C germicide light** that eliminates bacteria, viruses, spores, fungi, mould and mites. It is a **definitive solution** because microbes do not develop resistance to UV rays over time, as they do to the chemical disinfectants used for curtains on the market today.



A roller blind with UV-C rays

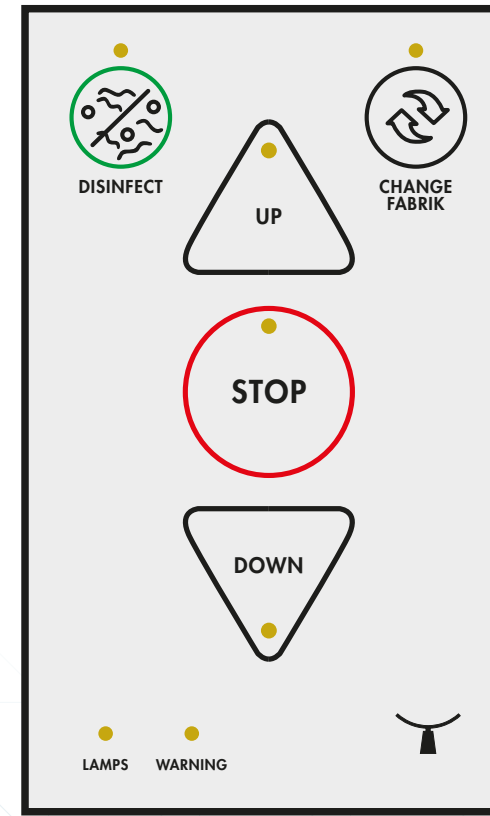
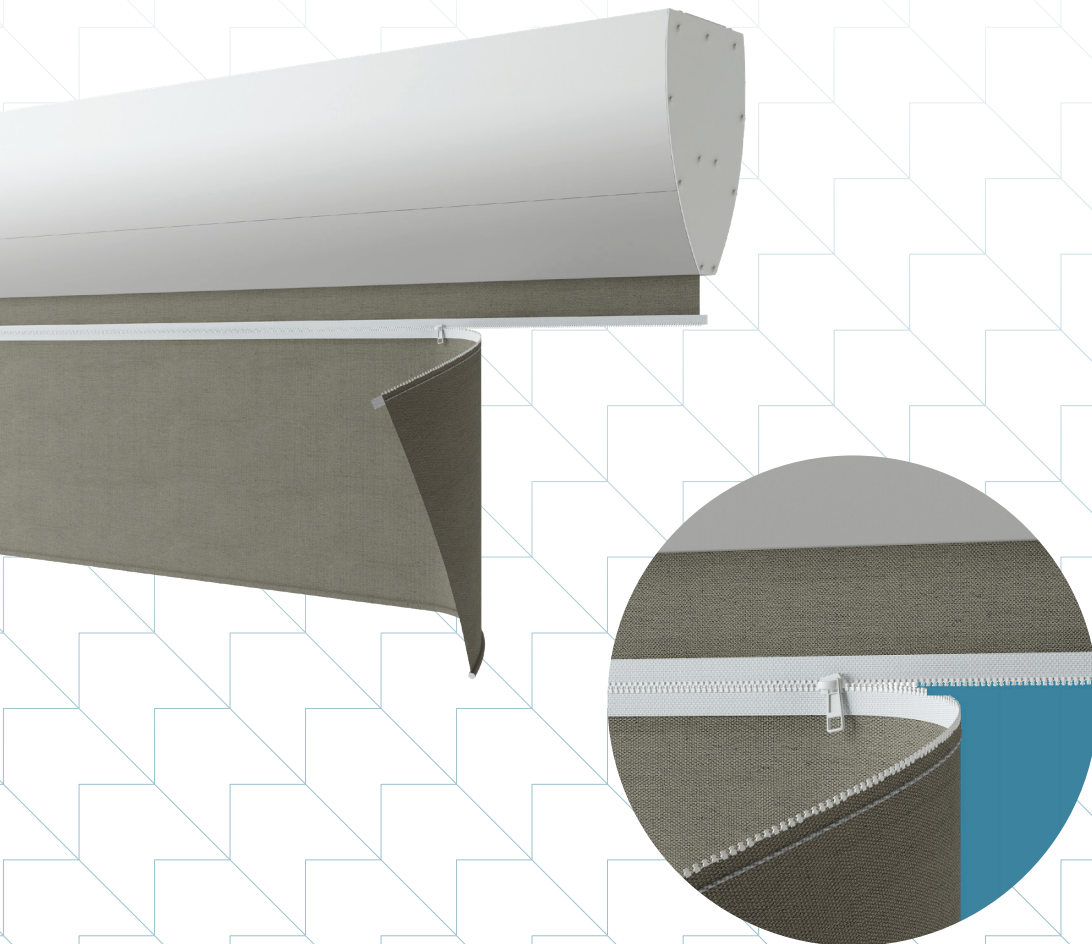
Powered and self-disinfecting with just a click

Hospitals, private clinics, nursing homes and care homes have an ally in the **UV-C Blinds** curtain for drastically reducing bacteria-triggered nosocomial diseases acquired by contact. It saves the time and money spent on treating patients and visitors and days of absence and re-organised shifts when infection affects staff.

UV-C rays used at a wavelength of 254 nm **destroy the molecular links in the DNA of micro-organisms**, eliminating them and making them harmless and impeding their growth and reproduction. For this reason **UV-C Blinds** is the **only definitive solution** available today for **constantly disinfected curtains**, just a click away and therefore **not involving cleaning times and costs**.

The fabrics used are fireproof, devoid of harmful substances and certified as suitable also for childrens' health by GreenGuard, an independent American laboratory that applies particularly strict canons.

A zipper is applied to all our fabrics to facilitate removing the cloth panel in preparation for cleaning.



The control panel is simple and functional, also for visually impaired people. It houses two controls for raising and lowering the cloth panel, a selection button for disinfecting the fabric, a control for unzipping the cloth panel when it has to be changed, and two warning signals in the event of faulty operation or for changing the UV-C lamp.



Antibacterial and fungistatic treatment



Suitable for integration with domotics



Movement by means of a wall button



Fireproof
CLASS 1, M1, B1



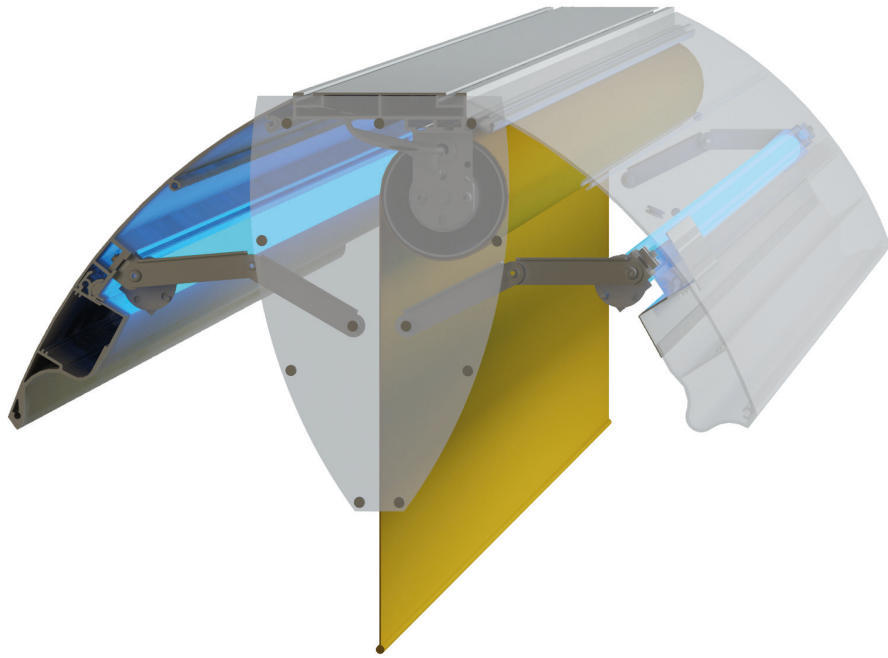
A zipper is applied to all our fabrics to facilitate removing the cloth panel (TAO patent)



Systems and fabrics for interiors

Certifications:





Health advantages



- Fireproof fabric, free of harmful substances and GreenGuard certified
- Contributes to reducing hospital infections
- Improves the health of patients, visitors and staff

Functional advantages



- Can be used for windows and cubicles of any size
- Activated by means of a button
- Greatly simplifies maintenance
- Safe, durable and patented

Economic advantages



- Reduces costs for treating infections
- Eliminates the cost of cleaning and disinfecting curtains
- Reduces corporate costs due to lost productivity
- Reduces the cost burden linked to prolonged treatment for patients

Ecological advantages



- No environmental pollution because chemical disinfectants are not involved
- No noise pollution because it works silently

All the advantages of UV-C BLINDS

For patients, visitors, staff, management and the community

TAO Medical certified results for a single disinfection cycle show a **99% reduction** (equal to **2 logs**) in contamination from the microbes investigated, all belonging to seven of the most common strains:

Candida albicans ATCC 10231
 Staphylococcus aureus ATCC 6538
 Enterococcus faecalis (Vancomycin-resistant enterococcus) ATCC 51299
 Clostridium sporogenes ATCC
 Escherichia coli ATCC 8739
 Klebsiella pneumoniae ATCC 10031
 Pseudomonas aeruginosa ATCC 9027

Two consecutive disinfection cycles increased **reduction to 99.9%** (equal to **3 logs**).