

EIKOScare



RoHS  
Compliant

FEATURES

**SERIES:** ESTANCA

**LIGHT ENGINE:** (SEE TABLE)

- VVLE64 VYV PCB
- VVLE53 VYV PCB
- VVLE55 VYV PCB
- VVLE57 VYV PCB
- VVLE65 VYV PCB

**NOMINAL POWER:** (SEE TABLE) White Antimicrobial Mode / Enhance Antimicrobial Mode

**SYSTEM CONSUM:** (SEE TABLE) White Antimicrobial Mode / Enhance Antimicrobial Mode

**NOMINAL FLUX:** (SEE TABLE) White Antimicrobial Mode

**OUTPUT FLUX:** (SEE TABLE) White Antimicrobial Mode

**TEMPERATURE COLOUR:** 4.000K White Antimicrobial Mode

**CRI:** >80

Small colour tolerance MacAdam 3

**LIFE SPAM:** L80 / B10 >36.000h

**WARRANTY:** 3 Years

**Disinfection Technology:** The fixture includes vyv Antimicrobial Light Technology which uses antimicrobial effect of visible light at 405 nm (violet). This technology is safe for humans, animals and plants when exposed to either of both modes (White and Enhance).

Applications: General industry, Warehouse, Drying rooms, Food Industry, etc.

- Body made of injected polycarbonate with UV filter. Colour: Grey RAL7035.
- Polyurethane sealing gasket that guarantees an IP66 protection index.
- Textured methacrylate diffuser.
- Gear tray made of white lacquered sheet steel (RAL 9003). Polycarbonate clips or, on request, in stainless Steel.
- Ceiling anchoring system using stainless steel metal strap, for fixing to the ceiling or suspension using a steel cable, without the need to insert any additional component.
- OSRAM or TRIDONIC electronic driver

CLASIFICATION: REFERENCE: UNE-EN 60598. CLASS I CLASS II UPON REQUEST IP-66 IK03

Model	Reference	Light Engine	Nominal Power	System Consum	Nominal Flux	Output Flux	Dimensions mm Width x Length x Height	Mode	IP
ESTANCA 2D	EIK-4501VVLE64	1xVVLE64	35 W / 28 W	38 W / 31 W	2000 lm	1750	101x660x84	Dual (W + E)	IP 66
ESTANCA 4D	EIK-4502VVLE64	2xVVLE64	70 W / 56 W	76 W / 62 W	4000 lm	3500	101x1270x84	Dual (W + E)	IP 66
ESTANCA 5D	EIK-4502.5VVLE64	5xVVLE65 5xVVLE57	87,5 W / 70 W	95 W / 77,5 W	5000 lm	4375	101x1570x84	Dual (W + E)	IP 66
ESTANCA 2W	EIK-4501VVLE53	1xVVLE53	35 W	31 W	2000 lm	1750	101x660x84	White	IP 66
ESTANCA 4W	EIK-4502VVLE53	2xVVLE53	70 W	62 W	4000 lm	3500	101x1270x84	White	IP 66
ESTANCA 5W	EIK-4502.5VVLE53	5xVVLE65	87,5 W	77,5 W	5000 lm	4375	101x1570x84	White	IP 66
ESTANCA 2E	EIK-4501VVLE55	1xVVLE55	28 W	31 W	n/a (violet)	n/a (violet)	101x660x84	Enhance	IP 66
ESTANCA 4E	EIK-4502VVLE55	2xVVLE55	56 W	62 W	n/a (violet)	n/a (violet)	101x1270x84	Enhance	IP 66
ESTANCA 5E	EIK-4502.5VVLE55	5xVVLE57	70 W	77,5 W	n/a (violet)	n/a (violet)	101x1570x84	Enhance	IP 66

OPTIONS:

Reference	Description
& IntSensor 5DP 14F	Integrated presence and movement sensor for automatic modes switching

**FIXTURE COMPONENTS**

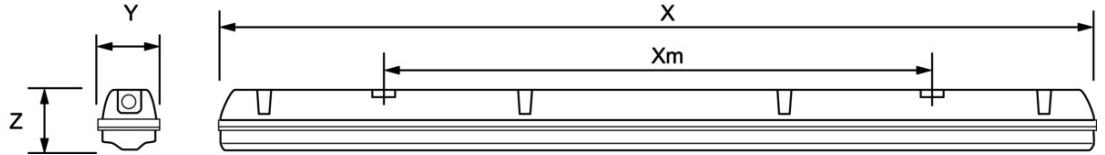
**ESTANCA**

SET		COMPONENT			STANDARD	TREATMENT	TEST
P.	DESCRIPTION	P.	DESCRIPTION	MATERIAL			
1	BODY	1-1	POLYCARBONATE	INJECTED POLYCARBONATE	UNE.360865	PAINTED	EN-90598-1 DIN 50017
		1-2	PAINT CALOR RAL 7035				
2	ELECTRICAL	2-1	CONVERTIDOR OSRAM O TRIDONIC	EPOXI POLYESTER	UNE. 20152		UNE. 20152  UNE. EN EN60598 COMPLIANT
		2-2	CLEMA DE CONEXIÓN				
		2-3					
		2-4	WIRES	Cu. 0,75 mm2. PVC- 105			
3	OPTICS	3-1	DIFUSSER	TEXTURED METHACRYLATE	DIN-1712		
4	PACKAGING	4-1	CARDBOARD BOX	KRAFT BICOLOR			

UNE EN 60598: PART 1: General requirements and tests  
 DIN 50017: Corrosion and aging testing  
 UNE 20152: Ballast for fluorescent lamps  
 UNE 21117: Wires

**DRAWING**

**ESTANCA**



MODEL	X	Xm	Z	Y
ESTANCA 2D	660	400	84	101
ESTANCA 4D	1270	800	84	101
ESTANCA 5D	1570	1000	84	101
ESTANCA 2W	660	400	84	101
ESTANCA 4W	1270	800	84	101
ESTANCA 5W	1570	1000	84	101
ESTANCA 2E	660	400	84	101
ESTANCA 4E	1270	800	84	101
ESTANCA 5E	1570	1000	84	101

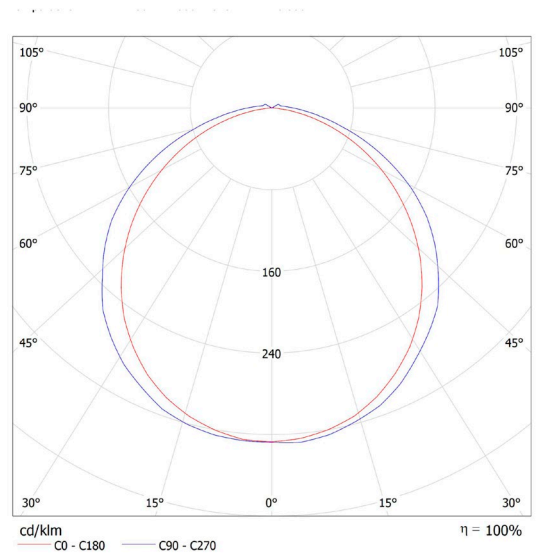
IMAGE

ESTANCA



PHOTOMETRIC DATA

ESTANCA

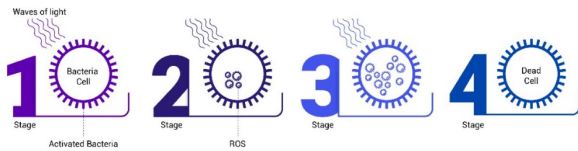


**Bacteria**

- Gram Positive**  
 Staphylococcus aureus (incl. MRSA)  
 Clostridium perfringens  
 Clostridium difficile  
 Enterococcus faecalis  
 Staphylococcus epidermidis  
 Staphylococcus hyicus  
 Streptococcus pyogenes  
 Listeria monocytogenes  
 Bacillus cereus  
 Mycobacterium terrae  
 Lactococcus lactis  
 Lactobacillus plantarum  
 Bacillus circulans  
 Streptococcus thermophilu
- Gram Negative**  
 Acinetobacter baumannii  
 Pseudomonas aeruginosa  
 Klebsiella pneumoniae  
 Proteus vulgaris  
 Escherichia coli  
 Salmonella enteritidis  
 Shigella sonnei  
 Serratia spp.  
 Salmonella typhimurium

**Bacterial Endospores**

- Bacillus cereus  
 Clostridium difficile
- Yeast and filamentous fungi**  
 Aspergillus niger  
 Candida albicans  
 Saccharomyces cerevisiae

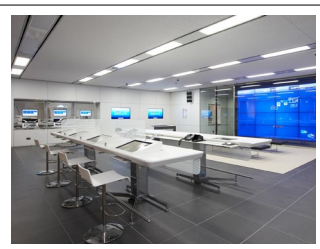
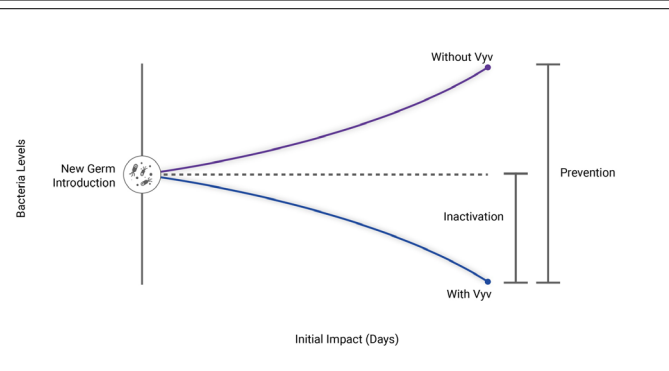
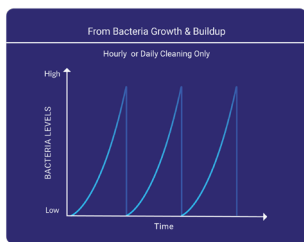
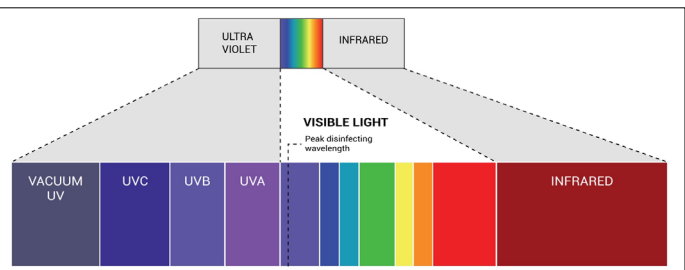


Vyv's antimicrobial light wavelengths initiate a photo-reaction with endogenous non-iron porphyrin molecules found only in microorganisms. The porphyrin molecules are photo activated. Vyv's light frequencies excite the porphyrins, causing a break-off of excess Reactive Oxygen Species (ROS). This causes irreparable damage within the cell, ultimately destroying the cellular membrane from the inside out.

Vyv attacks the cell from multiple vectors preventing the cell from building up any new defenses against this form of attack. This is unlike approaches used with antibiotics that can cause germs to mutate and develop resistance.

Use Vyv anywhere and get a new kind of continuous antimicrobial

Comparison Category	Vyv	Ultraviolet (UV-C)
Timing of Antimicrobial Impact	Continuous	Point in time
Used Around People	✓ Yes Meets IEC standards for unrestricted & continuous use	✗ No Does not meet IEC standards for unrestricted & continuous use
Environmental Considerations	No degradation effects to materials	Material degradation to materials such as plastics & rubber
Use Case Applications	Occupied & unoccupied spaces - broad use cases	Unoccupied spaces only
Kill Mechanism	Destruction of cell via ROS produced by porphyrin molecules when excited by 405nm light.	Destruction of DNA/RNA - all genetic material
Delivery Mechanism	Individual LEDs allow for integration into any size light, space, etc	Primarily bulbs, early stage LEDs (expensive, inefficient)
Investment (capital, people, service)	Low/Med. upfront cost, one time install, no manual labor or service	Med/High upfront cost, regular bulb replacements, manual operation & oversight w/each use



**Vyv Antimicrobial+Light™**



**Vyv Enhanced Antimicrobial™**