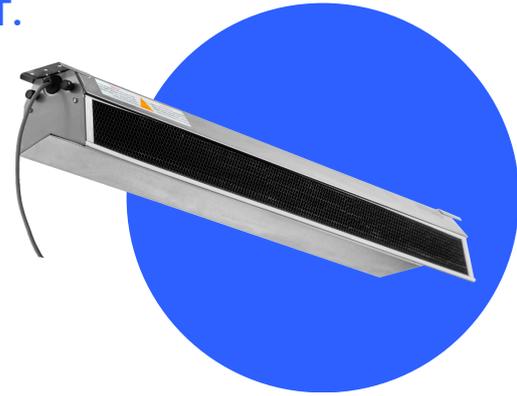## COLD STORAGE ROOM DISINFECTION, MADE PERFECT.

UV-REFLEX treats airborne bacteria and mold present in the air of cold rooms, **using the constantly forced air circulation** of the ventilation system.

With powerful disinfecting action, microbes and spores are eliminated before entering into contact with foodstuff surfaces.

Reg. 2024/1141 "Dry-Aging"

Ensures full compliance with the specific measures about "Dry-Ageing" as for Delegated Regulation (EU) No. 1141/2024, amending Reg. (EC) No. 853/2004

KEY PRODUCT FEATURES

→ **Made for the Task;** this special form factor has been designed and developed to offer the best UV-C performance for cold room storage facilities.

→ **Increased Disinfection Performance**, with High Output UV-C lamps (253,7 nm) and internal mirror bright aluminum reflector.

→ **Built to Last,** with high-quality Stainless Steel AISI 304, all material are tested to resist UV.

→ **UV-C Where You Need,** Directional honeycomb array directs UV-C rays right where they need to go.

→ Protected, **IP55 Rating**, with **UVLON™ shatterproof protective sleeve always included** to prevent the release of glass fragments in the event of accidental lamp breakage

→ **Combine More Devices** and ask our support to arrange the best application layout to built your customized disinfection solution using our dedicated software.

→ **Choose the Best Power Supply options,** from a simple naked ballast to a separated control board available for advanced management of multiple lamps.

HEALTHCARE   HVAC   **PROCESS INDUSTRY**   HOSPITALITY   SHARED SPACES   PUBLIC VENUS   WELLNESS CENTERS   TRANSPORT

TECHNICAL TABLE	UV-REFLEX-40H-SC/B-NX	UV-REFLEX-90H-SC/B-NX
REPLACEMENT LAMP	n°1 CHS-40WHF-P	n°1 CHS-90WHF-P
POWER CONSUMPTION	40W	90W
DIMENSION (WxHxD)	mm 530 x 118 x 125 (in 20 7/8" x 4 5/8" x 4 7/8")	mm 986 x 118 x 125 (in 38 7/8" x 4 5/8" x 4 7/8")
WEIGHT	kg 2,5 (lb 5.51)	kg 4 (lb 8.81)
COLD ROOM VOLUME TREATED	m³ 30 ÷ 40 ft³ 1.059 ÷ 1.413	m³ 60 ÷ 90 ft³ 2.119 ÷ 3.178
TREATED SURFACE	m² 7 ÷ 10 ft² 75 ÷ 108	m² 15 ÷ 22 ft² 161 ÷ 237
	FOR ALL MODELS	
LAMP LIFE (hours)*	≤ 18.000	
PROTECTION RATING	IP 55	
OP. TEMPERATURE**	MIN. -15°C ÷ MAX. +40°C | (MIN. 5.0°F ÷ MAX. +104.0°F)	
OP. RELATIVE HUMIDITY**	From 20 to max. 90%	
V AC | FREQUENCY	110 - 277 VAC | 50/60 Hz	
POWER SUPPLY	On-board power supply always included Optional control board available for the management of multiple devices.	
ELECTRICAL CONNECTION	Power supply cable 3x1mm², 2,5m length	

* Useful life can be substantially reduced by several environmental or technical factors
** Outside of these ranges, performance may not be optimal

TROUBLE-FREE INTEGRATION AND INSTALLATION

- Monitor Your Operation with Alarm Signals (EL).
- Optional control board available for advanced management of multiple lamps.
- Mounting and powering the device can be done without complex requirements. Ongoing maintanance only takes a few minutes to replace lamps when necessary.

SOFTWARE ENGINEERED DISINFECTION

From our in-depth know-how on the subject and with our proprietary dosage calculation software we can simulate device performance and validate effectiveness in every application.
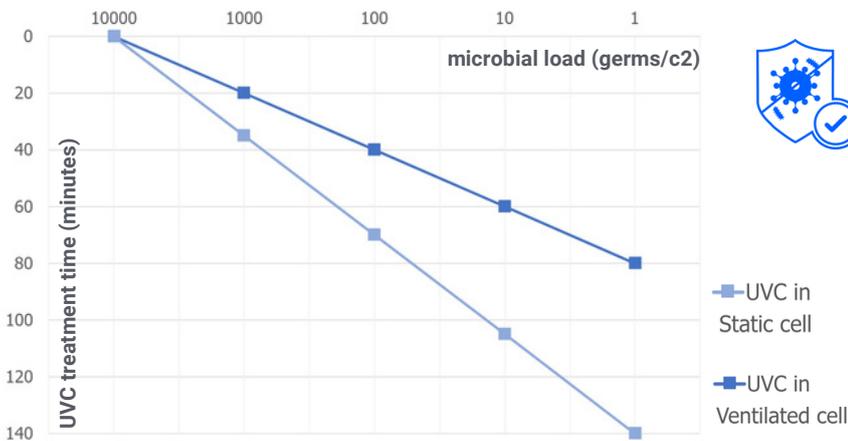
Calculation Software

TECHNICAL DRAWINGS

Every Light Progress Product is available in detailed DWG and STEP files for your design-in and specification clarity.

VIEW or DOWNLOAD now

CLICK HERE

MICROBIAL TESTS AND EFFICACY

- UVC in Static cell
- UVC in Ventilated cell

Up-to 99,99% microbial reduction on food surface inside a Ventilated Storage Cell, in 80 minutes.

Light Progress customers rely on our extensive history of third party testing and proven efficacy to meet any level of disinfection validated against literally any virus or microorganism.

We understand your need to meet Regulatory Requirements and Industrial Standards as we help you achieve microbial load reduction using our UV systems.

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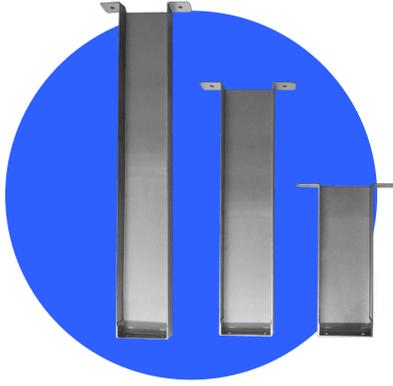E: info@lightprogress.it
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POWER SUPPLY OPTIONS FOR PROFESSIONAL SYSTEMS

Lamp monitoring, connectivity and flexibility for customized applications.

HANGER BRACKETS

→ ST20 Hanger brackets (2pcs), 20 cm from ceiling
→ ST36 Hanger brackets (2pcs), 36 cm from ceiling
→ ST50 Hanger brackets (2pcs), 50 cm from ceiling

OPTIONAL CONTROL BOARD "MASTER 16A"
MULTI-LAMP MONITORING UNIT

The **Control Board MASTER 16-A** is a simple and accessible **control unit for managing multiple UV-C devices** in a single system.

→ **Multiple device solution**: dedicated monitoring for up to 16 A

→ **Faulty lamp alarm**: LED indicator

→ **Exhaust lamp alarm**: LED indicator, with hour counter and digital display.

→ **IP20 protected**: protected against solid objects larger than 12 mm

→ **Automatic Switch**: turn on devices manually or with the embedded timer.

OPTIONAL CONTROL BOARD «MASTER-ST-AC»
COMPLETE MULTI-LAMP MANAGEMENT SYSTEM

The **Control Board "Master"** is an advanced control and monitoring unit designed for **multi-lamp UV-C systems**, providing a **digital display, operating hour counter** with **exhaust lamp alarm** and synoptic layout.

→ **Multiple device solution:** dedicated monitoring for up to 35 UV devices.

→ **Faulty lamp alarm**: LED indicator and dry contact output to connect to existing control panels and BMS.

→ **Safety switch:** low voltage input from existing control panels and BMS, switches off UV lamps when needed.

→ **IP66/67 protected**: complete dust protection and powerful water jets.

→ **Exhaust lamp alarm**: with hour counter, digital display, and dry contact output to connect to existing control panels and BMS.

→ **Synoptic layout**: to monitor the status of each connected UV-C lamp.

OPTIONAL CONTROL BOARDS

	CONTROL BOARD «MASTER-16»		CONTROL BOARD «MASTER-ST-AC»		
MAIN FEATURES					
MODEL	16-A	16-A	ST-AC/5-P-A	ST-AC/20-P-A	ST-AC/35-P-A
COMPATIBLE UVC DEVICE (W)	40	90	40-90	40-90	40-90
CONTROL OF MULTIPLE DEVICES	up to 16 A	up to 16 A	up to 5 devices	up to 20 devices	up to 35 devices
FAULTY LAMP ALARM	LED indicator		LED indicator Dry contact output * (up to 230V, 1A)		
EXHAUST LAMP ALARM	LED indicator		LED indicator Dry contact output * (up to 230V, 1A)		
LAMP LIFE HOUR COUNTER	Digital Display		Digital Display		
SAFETY INPUT contact from BMS or Safety System	Low voltage input		Low voltage input		
SYNOPTIC SCHEME	-		LED indicator		
POWER CABLE connection to the mains	Three-core cable 2P+E (not included)		Three-core cable 2P+E (not included)		
CONNECTION PLUG on lamp side	-		-		
INSTALLATION Mounting options	Screws (not included)		Screws (not included)		
TECHNICAL FEATURES					
MODEL	16-A	16-A	ST-AC/5-P-A	ST-AC/20-P-A	ST-AC/35-P-A
ELECTRONIC CONTROL GEARS ON BOARD	-		-		
DIMENSIONS (mm) (W x H x D)	410x300x180		410x300x180	610x400x230	740x530x255
DIMENSIONS (in) (W x H x D)	16 1/8' x 11 3/4'' x 7 1/8''		16 1/8' x 11 3/4'' x 7 1/8''	24' x 15 3/4'' x 9''	29 1/8'' x 20 7/8'' x 10''
HOUSING MATERIAL	ABS		ABS with transparent cover		
OPERATING TEMPERATURE**	min. -15°C ÷ max. +40°C (min. 5.0°F ÷ max. +104.0°F)		min. -15°C ÷ max. +40°C (min. 5.0°F ÷ max. +104.0°F)		
PROTECTION	IP20		IP66/67		
V AC | FREQUENCY	230V or 110V 50/60 Hz		230V or 110V 50/60 Hz		

* Dry contact output to be externally powered - to activate an external diagnostic system (BMS, MMS, SCADA, DCS, PLC)
** Outside of these ranges, performance may not be optimal