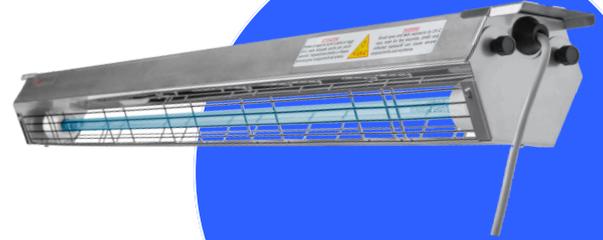LIGHT *PROGRESS*
UV-C Technology Solutions

## YOUR BEST DISINFECTION PLAYER

UV-DIRECT supports **deep surface disinfection in any type of environment**.

In **just a few minutes** of operation, UV-DIRECT fixtures can create high levels of disinfection otherwise achieved with hazardous, harmful, and expensive chemicals.

The UV-DIRECT should be used in the absence of people and can be **easily integrated into building controls** and scheduled routines.

## KEY PRODUCT FEATURES

→ **Fit Anywhere,** compact form factors, many sizes and wattage strengths available.

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

→ **Built to Last,** in high-quality Stainless Steel AISI 304, all material tested for UV resistance.

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

→ **Advanced Management**, with optional control board available for multiple lamp fixtures.

HEALTHCARE  HVAC  PROCESS INDUSTRY  HOSPITALITY  SHARED SPACES  PUBLIC VENUES  WELLNESS CENTRES  TRANSPORT

| TECHNICAL TABLE | UV-DIRECT-40H-H-NX | UV-DIRECT-90H-H-NX |
|---|---|---|
| REPLACEMENT LAMP | n°1 CHS-40WHF-P | n°1 CHS-90WHF-P |
| POWER CONSUMPTION (W) | 40 | 90 |
| DIMENSIONS (WxHxD) | mm 530 x 88 x 109 (in 20.86 x 3.46 x 4.29) | mm 986 x 88 x 109 (in 38.81 x 3.46 x 4.29) |
| INSTALLATION | Wall or Ceiling (Bracket included) | |
| WEIGHT | kg 2 (lb 4.41) | kg 4 (lb 8.82) |
| TREATED VOLUME | m³ 20 ÷ 40 (ft³ 706.29 ÷ 1,412.6) | m³ 40 ÷ 65 (ft³ 1,412.6 ÷ 2,295.5) |
| TREATED SURFACE | m² 7 ÷ 13 (ft² 75.34 ÷ 139.93) | m² 14 ÷ 25 (ft² 150.69 ÷ 269.10) |
| | 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 | 230 or 110 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

- We provide the optimal point of integration for every product without requiring changes to your system.
- 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.
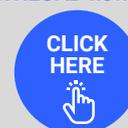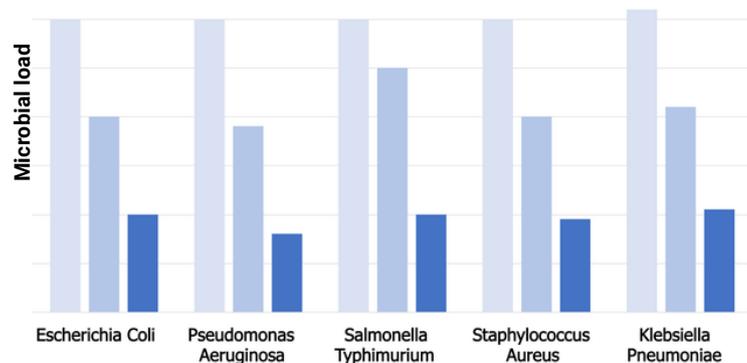
**Calculation Software**

# 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

Microbial load

- Escherichia Coli
- Pseudomonas Aeruginosa
- Salmonella Typhimurium
- Staphylococcus Aureus
- Klebsiella Pneumoniae

- 4 min.
- 7 min.
- 10 min.

**Up-to log6 microbial reduction with a 10 minutes treatment, at 3.5 mt from target Suface**

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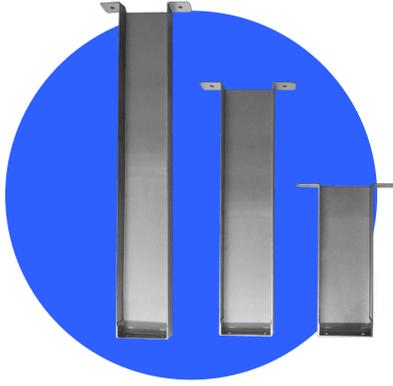E: info@lightprogress.it
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# POWER SUPPLY OPTIONS FOR PROFESSIONAL SYSTEMS

Lamp monitoring, connectivity and flexibility for customized applications.

## HANGER BRACKETS AND OPTIONAL PROTECTION GRID

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

→ NT-DIRECT40 Protection grid (Stainless Steel), for UV-DIRECT 40H
→ NT-DIRECT90 Protection grid (Stainless Steel), for UV-DIRECT 90H

## 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<br>✓ Dry contact output * (up to 230V, 1A) | | |
| **EXHAUST LAMP ALARM** | ✓ LED indicator | | ✓ LED indicator<br>✓ 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<br><br>(min. 5.0°F ÷ max. +104.0°F) | | min. -15°C ÷ max. +40°C<br><br>(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