LIGHT PROGRESS

UltraViolet Germicidal Irradiation (UVGI)

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Ultraviolet Germicidal Irradiation is known from the 60s as a good physical method to control growth and distribution of microbial organisms, pathogens, spores, moulds, etc.

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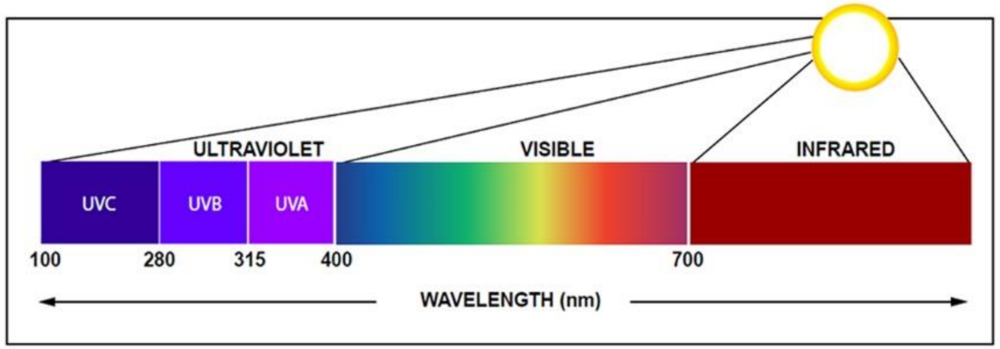
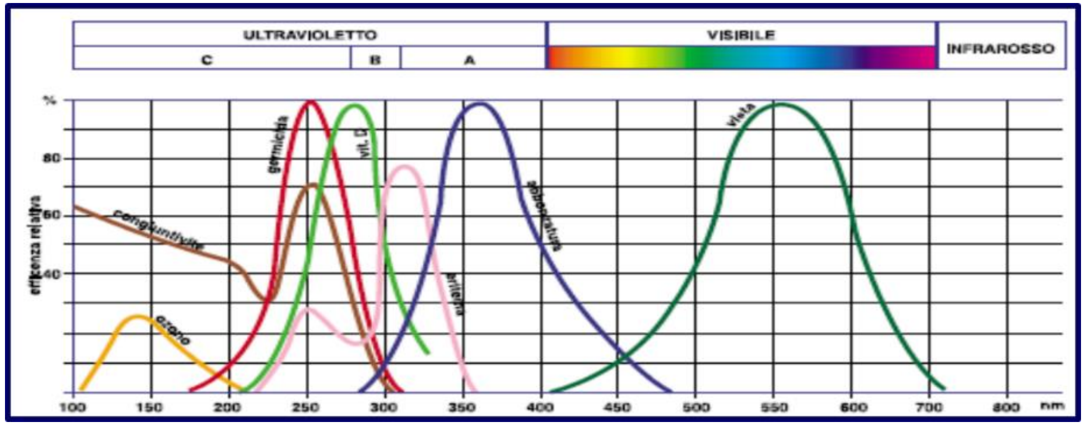
What does UVGI mean ?





Light in a broad sense can be divided in visible, infra-red and ultraviolet rays.

Ultra-violet rays (invisible) can be classified in :

- UV - A (with tanning properties),
- UV - B (with therapeutic properties)
- UV – C (with germicidal properties).

What does UVGI mean ?

The absorption of a UV photon by the DNA of microrganisms causes a destruction of a link in the DNA chain, and consequently the inhibition of DNA replication.

The germicidal effects of the UV-C radiation destroy DNA of Bacteria, Viruses, Spores, Fungi, Molds and Mites avoiding their growth and proliferation.

UVGI technology is a physic disinfection method with a great costs/benefits ratio, it's ecological, and, unlike chemicals, it works against every microorganisms without creating any resistance.

Micro-organism DNA
(before UV-C exposure)

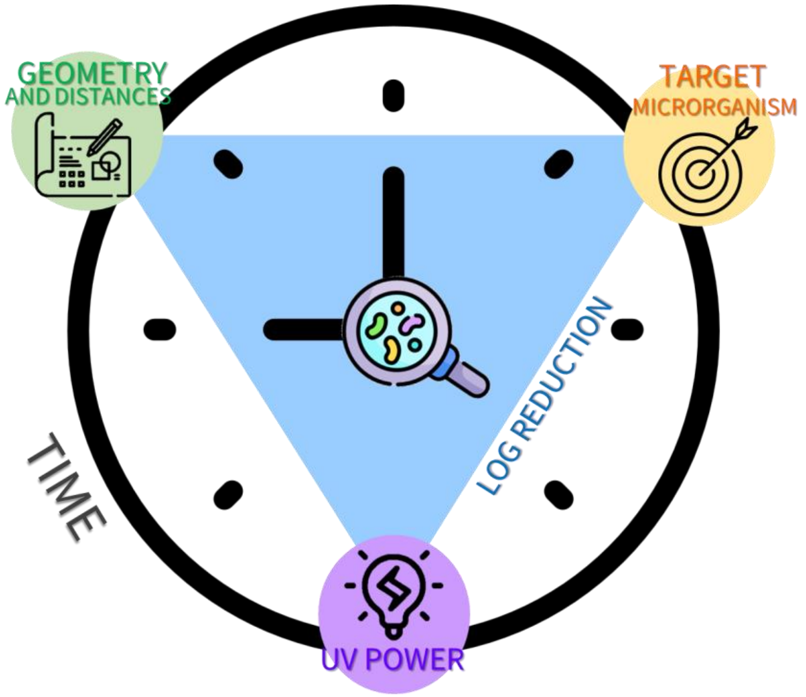
Micro-organism DNA
(broken by UV-C exposure)

UV Disinfection Key Factors

Each microorganism has a specific UV-resistance threshold, called DOSE. The specific dose need to be delivered to get a proper disinfection level, which is expressed in LOG REDUCTION (1 Log=90%, 2 Logs=99%, 3 Logs=99,9%, etc).

Therefore, for some microorganisms a low level of UV POWER is sufficient to be eliminated, while for others it takes more power to get same elimination level...or alternatively a longer exposure TIME.

These factors are essential to understand UV technology:



- Disinfection level that needs to be achieved (Log Reduction);
- Target pathogen (and its dose);
- UV power in play;
- Exposure time / geometry and distance balance;

UV DOSE needed to eliminate 99% (2 Logs) value in (µW/cm2 SEC)

BACTERIA		Virus (genieric, DNA e RNA)	
Mycobacterium tuberculosisn (TBC)	4300	Virus dell' influenza A	4558
Escherichia coli ATCC 11229	4800	Hepatitis A HM175	8000
Legionella pneumophila ATCC 33152	3200	Corona Virus (SARS-CoV1 – MERS-Cov)	1200-1500
Pseudomonas aeruginosa ATCC 9027	6500	Rotavirus	15000
Salmonella ATCC 6539	4500	Molds	
Staphylococcus aureus	3200	Aspergillus Amstelodami	66700
Streptococcus hemolyticus	4400	Aspergillus Brasiliensis (Niger)	226000
Vibrio cholerae	4100	Yeasts	
MRSA	6550	Comuni lieviti dolciari	12000
Clostridium Difficile	10000	Lievito di birra	20000

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SANITATION means bringing the microbial load into acceptable and optimal hygiene standards that depend on the intended use of the environments concerned. Sanitation is often used to mean “clean” and must however be preceded by cleaning.

SANITATION

DISINFECT means to reduce the microbial load deeply, that is to eliminate at least 1 log (90%) of the bacteria present. Microbial load reduction is a basic value in disinfection and it is expressed in Log Reduction.

A good disinfection level is around 2Logs (99%) a very good disinfection is 3Logs (99,9%), and 4Logs (99,99%) is considered a pretty high standard.

DISINFECTION

STERILITY is the closest level anyone can get to achieve complete reduction of microbial load, we can talk about sterilization only if reduction is proved to be not less than 6Logs, meaning 99,9999%.

To declare sterility test has to be proved and certified by third parts by law.

STERILIZATION

our Company

LIGHT PROGRESS®

since 1987

Light Progress

studies, develops, projects and manufactures

Ultraviolet Germicidal Irradiation devices

LIGHT PROGRESS

MADE IN ITALY

LIGHT PROGRESS

2019 - 

New German Branch Office, Frankfurt.

Light Progress has a brand-new office to follow clients from Germany, Austria, Switzerland, UK, and East and North EU in general. Russian market is also a one of our future target.

Main goal is to increase our presence in these countries and be able to offer better assistance to Key Accounts.

One new Business Development Manager has been employed to strength our Brand Identity and offer a better service for old and new clients.

Great reseller and distributors network

Standards

CERTIFIED ISO 9001:2015 COMPANY

CERTIFIED ISO 13485

CE

RoHS Compliant

UL

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

INTERNATIONAL IUVA ULTRAVIOLET ASSOCIATION

FDA REGISTERED

Benefits

We eliminate every harmful microorganism, up to 99,999%

We improve your product Quality

We ensure you safety

We support sustainability

We make you save money

Our team is there to support you

why LIGHT PROGRESS ?

We offer the **widest product range** of UVGI Devices on the market, providing different solutions, great quality, 100% Made in Italy.

Our Team sizes and projects every application designing a **custom solution** for each specific case, we invest in R&D e work together with Universities and big companies, leaders in their field.

Our products **fit in different application fields**, such as Healthcare, Food Industries, Water Treatment, Odour reduction, HVAC, Public Trasports, etc. with thousand clients in Italy and abroad.

LIGHT PROGRESS

operates in different fields and turns Ultraviolet Technology into real Solutions, providing a Specific Device for every application needed.

HVAC

Water

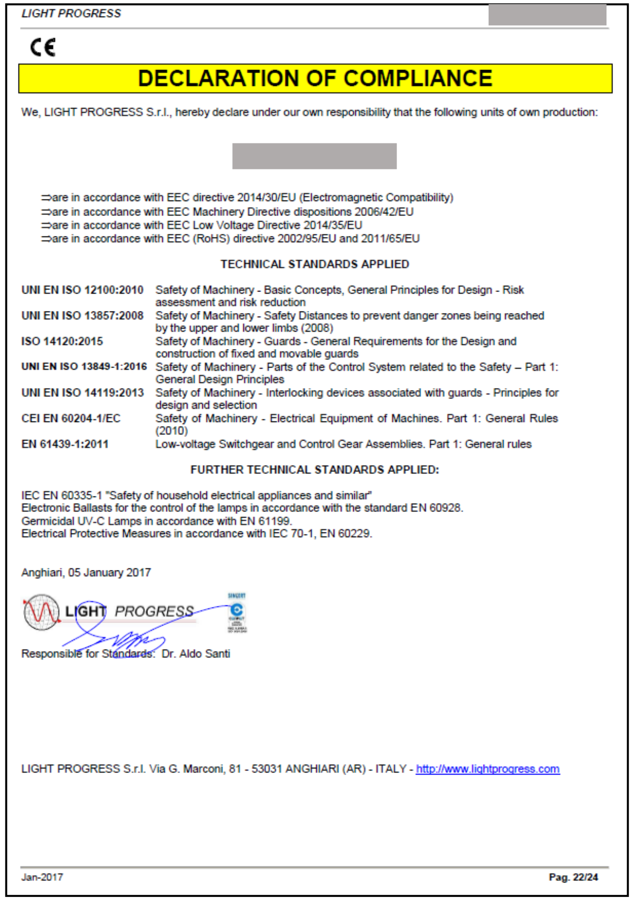
Health

Food

Smell reduction

Certificates

LIGHT PROGRESS



LIGHT PROGRESS

DECLARATION OF COMPLIANCE

We, LIGHT PROGRESS S.r.l., hereby declare under our own responsibility that the following units of own production:

⇒are in accordance with EEC directive 2014/30/EU (Electromagnetic Compatibility)
⇒are in accordance with EEC Machinery Directive dispositions 2006/42/EU
⇒are in accordance with EEC Low Voltage Directive 2014/35/EU
⇒are in accordance with EEC (RoHS) directive 2002/95/EU and 2011/65/EU

TECHNICAL STANDARDS APPLIED

UNI EN ISO 12100:2010	Safety of Machinery - Basic Concepts, General Principles for Design - Risk assessment and risk reduction
UNI EN ISO 13857:2008	Safety of Machinery - Safety Distances to prevent danger zones being reached by the upper and lower limbs (2008)
ISO 14120:2015	Safety of Machinery - Guards - General Requirements for the Design and construction of fixed and movable guards
UNI EN ISO 13849-1:2016	Safety of Machinery - Parts of the Control System related to the Safety – Part 1: General Design Principles
UNI EN ISO 14119:2013	Safety of Machinery - Interlocking devices associated with guards - Principles for design and selection
CEI EN 60204-1/EC	Safety of Machinery - Electrical Equipment of Machines. Part 1: General Rules (2010)
EN 61439-1:2011	Low-voltage Switchgear and Control Gear Assemblies. Part 1: General rules

FURTHER TECHNICAL STANDARDS APPLIED:

IEC EN 60335-1 "Safety of household electrical appliances and similar"
Electronic Ballasts for the control of the lamps in accordance with the standard EN 60928.
Germicidal UV-C Lamps in accordance with EN 61199.
Electrical Protective Measures in accordance with IEC 70-1, EN 60229.

Anghiari, 05 January 2017

LIGHT PROGRESS

Responsible for Standards: Dr. Aldo Santi

LIGHT PROGRESS S.r.l. Via G. Marconi, 81 - 53031 ANGHIARI (AR) - ITALY - http://www.lightprogress.com

Jan-2017 Pag. 22/24

CERTIFICATE

kiwa

Reg. Number	6950 - A	Valid From	2019-07-28
First issue date	2007-12-21	Last change date	2019-07-28
Valid Until	2022-07-29	IAF Sector	19

Quality Management System Certificate
ISO 9001:2015

We certify that the Quality Management System of the Organization:

LIGHT PROGRESS S.r.l.

Is in compliance with the standard UNI EN ISO 9001:2015 for the following products/services:

Design and production of UV-C rays disinfection systems.

Chief Operating Officer
Giampiero Belcredi

The maintaining of the certification is subject to annual surveillance and dependent on the observance of Kiwa Cermet Italia contractual requirements.
This certificate is composed of 1 page.

Kiwa Cermet Italia S.p.A.
Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl
Via Cadriano, 23
40057 Granarolo dell'Emilia (BO)
Tel +39.051.459.3.111
Fax +39.051.763.382
E-mail: info@kiwacermet.it
www.kiwa.it

CERMET

LIGHT PROGRESS S.r.l.
Registered Headquarters
- Località San Lorenzo, 40 52031 Anghiari (AR) Italy

Certified Sites
- Località San Lorenzo, 40 52031 Anghiari (AR) Italy

IAF ACCREDIA

SGQ N° 007A

CERTIFICATE OF COMPLIANCE*

Certificate Number	20130702-E362672
Report Reference	E362672-20130628
Issue Date	2013-JULY-02
Issued to:	LIGHT PROGRESS SRL VIA G. MARCONI 81 52031 ANGHIARI AR ITALY
This is to certify that representative samples of	ACCESSORIES, AIR-DUCT MOUNTED Duct-Mounted UV Lamp Assembly, Models UV-RACK, followed by 3/, 4/ or 6/, followed by 40H, 60H or 90H. Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	Bi-National Standard for Heating and Cooling Equipment, ANSI/UL 1995-2011 and CAN-CSA C22.2 No. 236-11
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Classification Mark for the U.S. and Canada should be considered as being covered by UL's Classification and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Classification Mark includes: the UL in a circle symbol: with the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory. The UL Classification Mark for Canada includes: the UL Classification Mark for Canada: with the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) in English, French, or English/French as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product.

William R. Carney, Director, North American Certification Programs
UL LLC

Page 1 of 1

*Available for selected items

University Tests - Air Treatment

UNIVERSITÀ DI SIENA 1240

LIGHT PROGRESS

Dpt of Physiopathology, Experimental Medicine and Public Health
University of Siena
Via Aldo Moro 3, 53100 – SIENA - ITALY
Tel +39 0577 234134 - Fax +39 0577 234090
e-mail: epidmol@unisi.it

MOLECULAR EPIDEMIOLOGY
Research Division
EpidMol

Valutazione dell'effetto che purificatori d'aria a raggi UV-C prodotti da ***LIGHT* PROGRESS®** hanno sulla carica microbica e fungina presente nell'aria.

University of Siena
Department of Physiopathology,
Exp Medicine and Public Health
Lab. Molecular Epidemiology
Prof. Emanuele Montomoli

Grafico 1

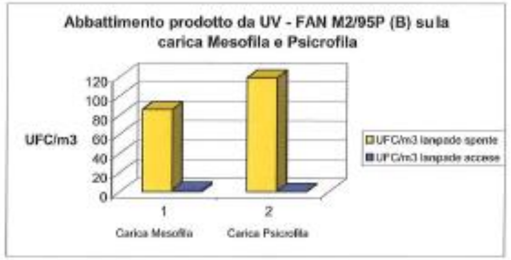
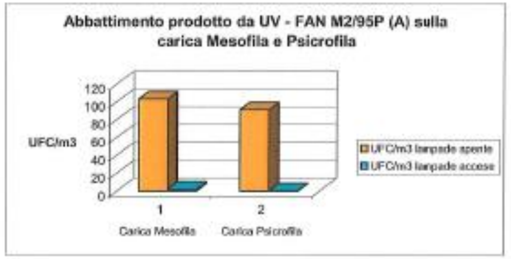


Grafico 2



University of Siena
Department of Physiopathology,
Exp Medicine and Public Health
Lab. Molecular Epidemiology
Prof. Emanuele Montomoli

UNIVERSITÀ DI SIENA 1240

University Tests - Microbial Load Reduction

LIGHT PROGRESS

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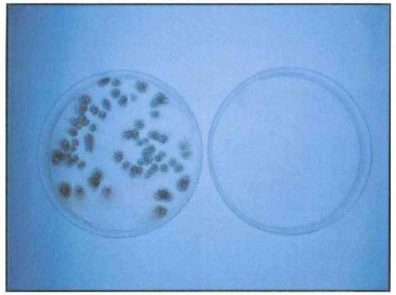
Via Aldo Moro 3, 53100 – SIENA - ITALY
Tel +39 0577 234134 - Fax +39 0577 234090
e-mail: epidmol@unisi.it

MOLECULAR EPIDEMIOLOGY
Research Division
EpidMol

Valutazione dell'effetto battericida, sporicida e fungicida dei raggi UV-C emessi da apparecchi *LIGHT* PROGRESS®

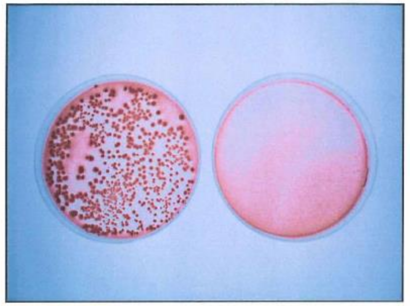
University of Siena
Department of Physiopathology, Exp Medicine and Public Health
Lab. Molecular Epidemiology
Prof. Emanuele Montomoli

Aspergillus niger



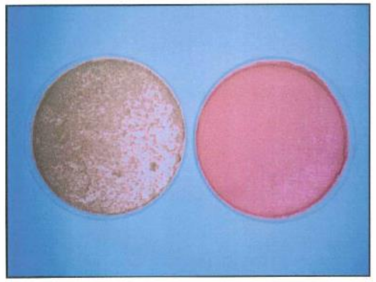
Aspergillus niger su Sabouraud dextrose Agar, a sinistra la piastra non irradiata, a destra la piastra irradiata con UVC

Escherichia coli



Escherichia coli su Macconkey Agar n.3, a sinistra la piastra non irradiata, a destra la piastra irradiata con UVC

Staphylococcus aureus



Staphylococcus aureus su Mannitol salt agar, a sinistra la piastra non irradiata, a destra la piastra irradiata con UVC

Grafico 8

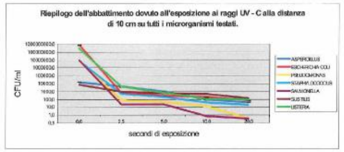
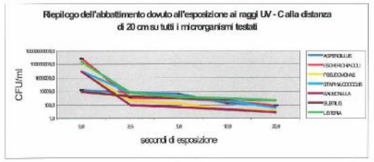
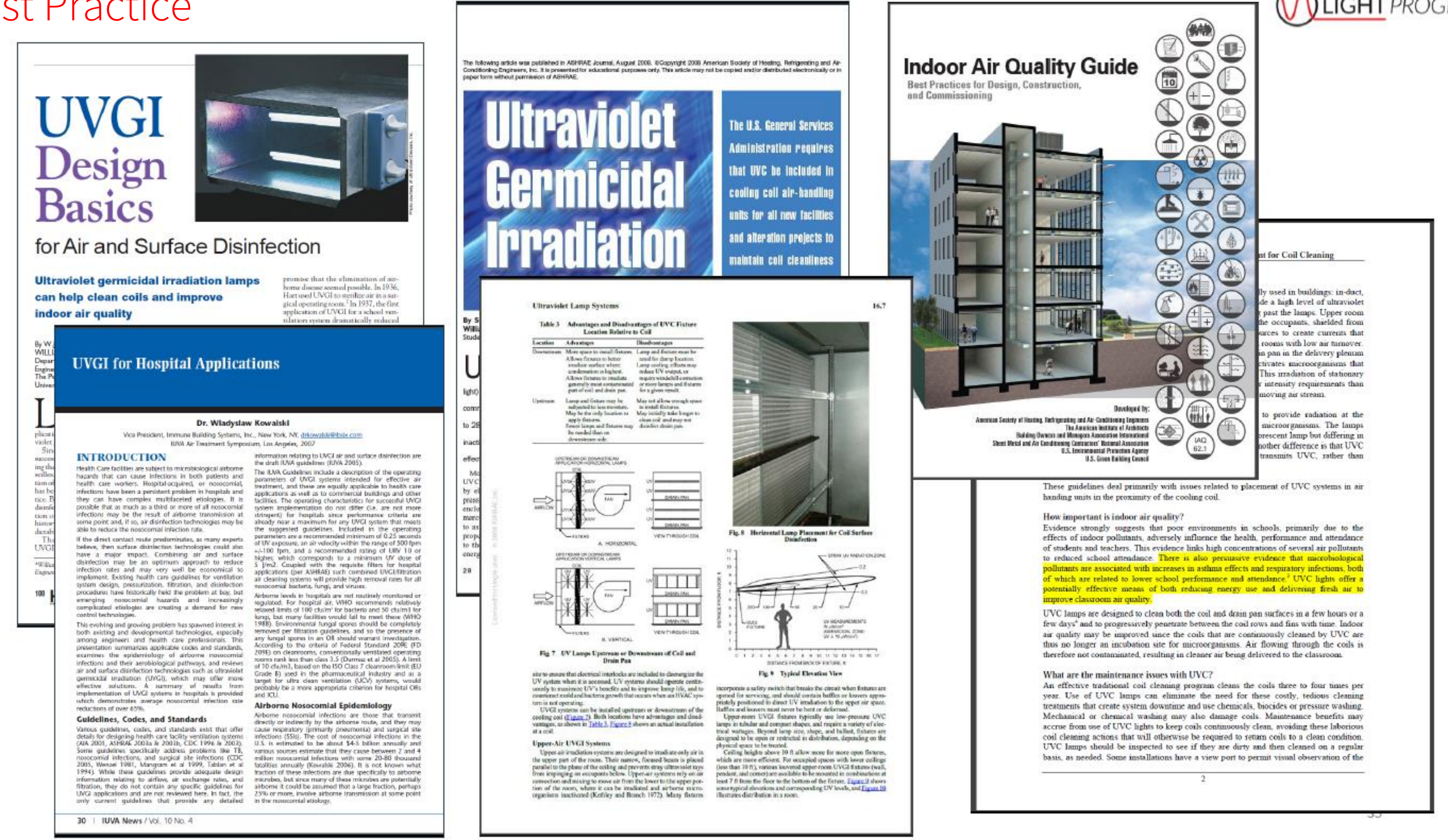


Grafico 9



Best Practice



Scientific Studies

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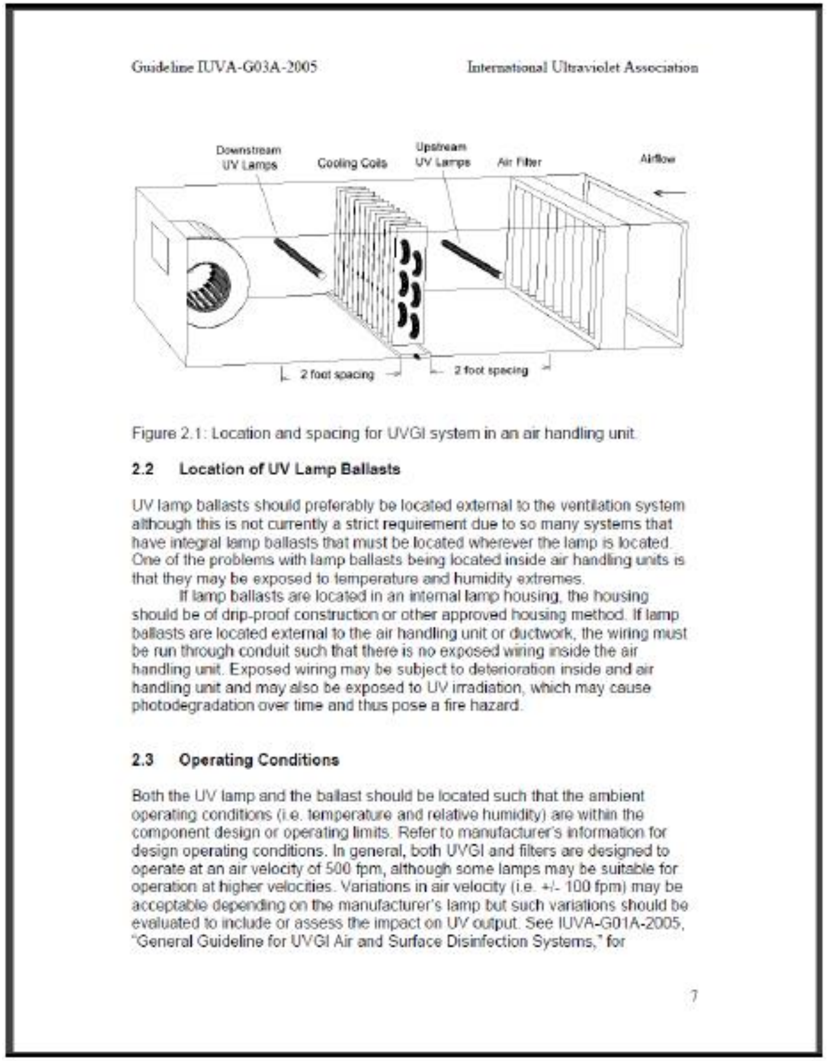


Figure 2.1: Location and spacing for UVGI system in an air handling unit.

2.2 Location of UV Lamp Ballasts

UV lamp ballasts should preferably be located external to the ventilation system although this is not currently a strict requirement due to so many systems that have integral lamp ballasts that must be located wherever the lamp is located. One of the problems with lamp ballasts being located inside air handling units is that they may be exposed to temperature and humidity extremes.

If lamp ballasts are located in an internal lamp housing, the housing should be of drip-proof construction or other approved housing method. If lamp ballasts are located external to the air handling unit or ductwork, the wiring must be run through conduit such that there is no exposed wiring inside the air handling unit. Exposed wiring may be subject to deterioration inside and air handling unit and may also be exposed to UV irradiation, which may cause photodegradation over time and thus pose a fire hazard.

2.3 Operating Conditions

Both the UV lamp and the ballast should be located such that the ambient operating conditions (i.e. temperature and relative humidity) are within the component design or operating limits. Refer to manufacturer's information for design operating conditions. In general, both UVGI and filters are designed to operate at an air velocity of 500 fpm, although some lamps may be suitable for operation at higher velocities. Variations in air velocity (i.e. +/- 100 fpm) may be acceptable depending on the manufacturer's lamp but such variations should be evaluated to include or assess the impact on UV output. See IUVA-G01A-2005, "General Guideline for UVGI Air and Surface Disinfection Systems," for

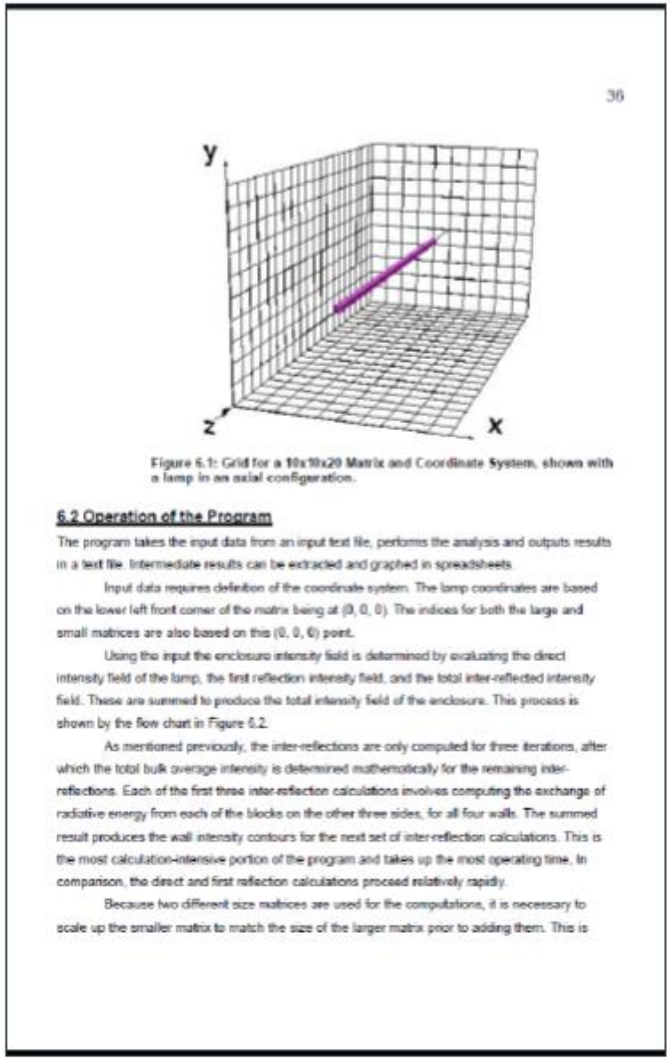


Figure 6.1: Grid for a 10x10x20 Matrix and Coordinate System, shown with a lamp in an axial configuration.

6.2 Operation of the Program

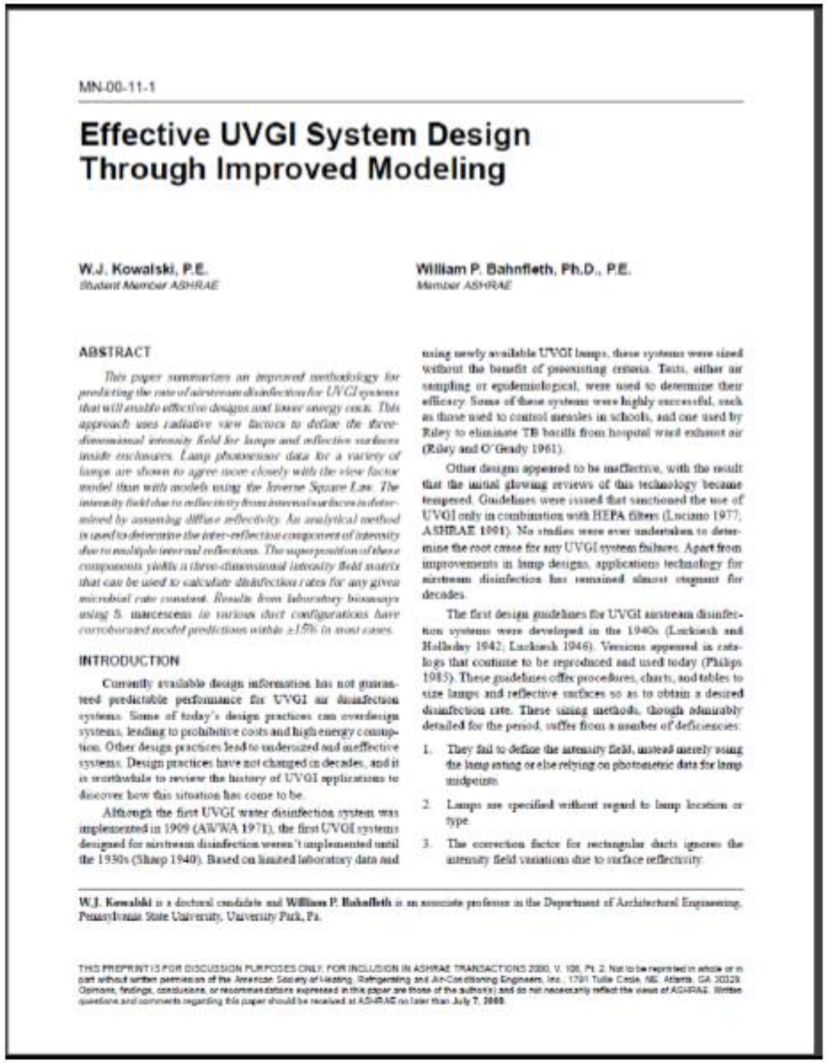
The program takes the input data from an input text file, performs the analysis and outputs results in a text file. Intermediate results can be extracted and graphed in spreadsheets.

Input data requires definition of the coordinate system. The lamp coordinates are based on the lower left front corner of the matrix being at (0, 0, 0). The indices for both the large and small matrices are also based on this (0, 0, 0) point.

Using the input the enclosure intensity field is determined by evaluating the direct intensity field of the lamp, the first reflection intensity field, and the total inter-reflected intensity field. These are summed to produce the total intensity field of the enclosure. This process is shown by the flow chart in Figure 6.2.

As mentioned previously, the inter-reflections are only computed for three iterations, after which the total bulk average intensity is determined mathematically for the remaining inter-reflections. Each of the first three inter-reflection calculations involves computing the exchange of radiative energy from each of the blocks on the other three sides, for all four walls. The summed result produces the wall intensity contours for the next set of inter-reflection calculations. This is the most calculation-intensive portion of the program and takes up the most operating time. In comparison, the direct and first reflection calculations proceed relatively rapidly.

Because two different size matrices are used for the computations, it is necessary to scale up the smaller matrix to match the size of the larger matrix prior to adding them. This is



Effective UVGI System Design Through Improved Modeling

W.J. Kowalski, P.E.
Student Member ASHRAE

William P. Bahnfleth, Ph.D., P.E.
Member ASHRAE

ABSTRACT

This paper summarizes an improved methodology for predicting the rate of airstream disinfection for UVGI systems that will enable effective designs and lower energy costs. This approach uses radiative view factors to define the three-dimensional intensity field for lamps and reflective surfaces inside enclosures. Lamp photosensor data for a variety of lamps are shown to agree more closely with the view factor model than with models using the Inverse Square Law. The intensity field due to reflectivity from internal surfaces is determined by assuming diffuse reflectivity. An analytical method is used to determine the inter-reflection component of intensity due to multiple internal reflections. The superposition of these components yields a three-dimensional intensity field matrix that can be used to calculate disinfection rates for any given microbial rate constant. Results from laboratory bioassays using S. marcescens in various duct configurations have corroborated model predictions within ±15% in most cases.

INTRODUCTION

Currently available design information has not guaranteed predictable performance for UVGI air disinfection systems. Some of today's design practices can overdesign systems, leading to prohibitive costs and high energy consumption. Other design practices lead to undersized and ineffective systems. Design practices have not changed in decades, and it is worthwhile to review the history of UVGI applications to discover how this situation has come to be.

Although the first UVGI water disinfection system was implemented in 1909 (AWWA 1971), the first UVGI systems designed for airstream disinfection weren't implemented until the 1930s (Sharp 1940). Based on limited laboratory data and using newly available UVGI lamps, these systems were sized without the benefit of preexisting criteria. Tests, either air sampling or epidemiological, were used to determine their efficacy. Some of these systems were highly successful, such as those used to control measles in schools, and one used by Riley to eliminate TB bacilli from hospital ward exhaust air (Riley and O'Grady 1961).

Other designs appeared to be ineffective, with the result that the initial glowing reviews of this technology became tempered. Guidelines were issued that sanctioned the use of UVGI only in combination with HEPA filters (Luciano 1977; ASHRAE 1991). No studies were ever undertaken to determine the root cause for any UVGI system failures. Apart from improvements in lamp designs, applications technology for airstream disinfection has remained almost stagnant for decades.

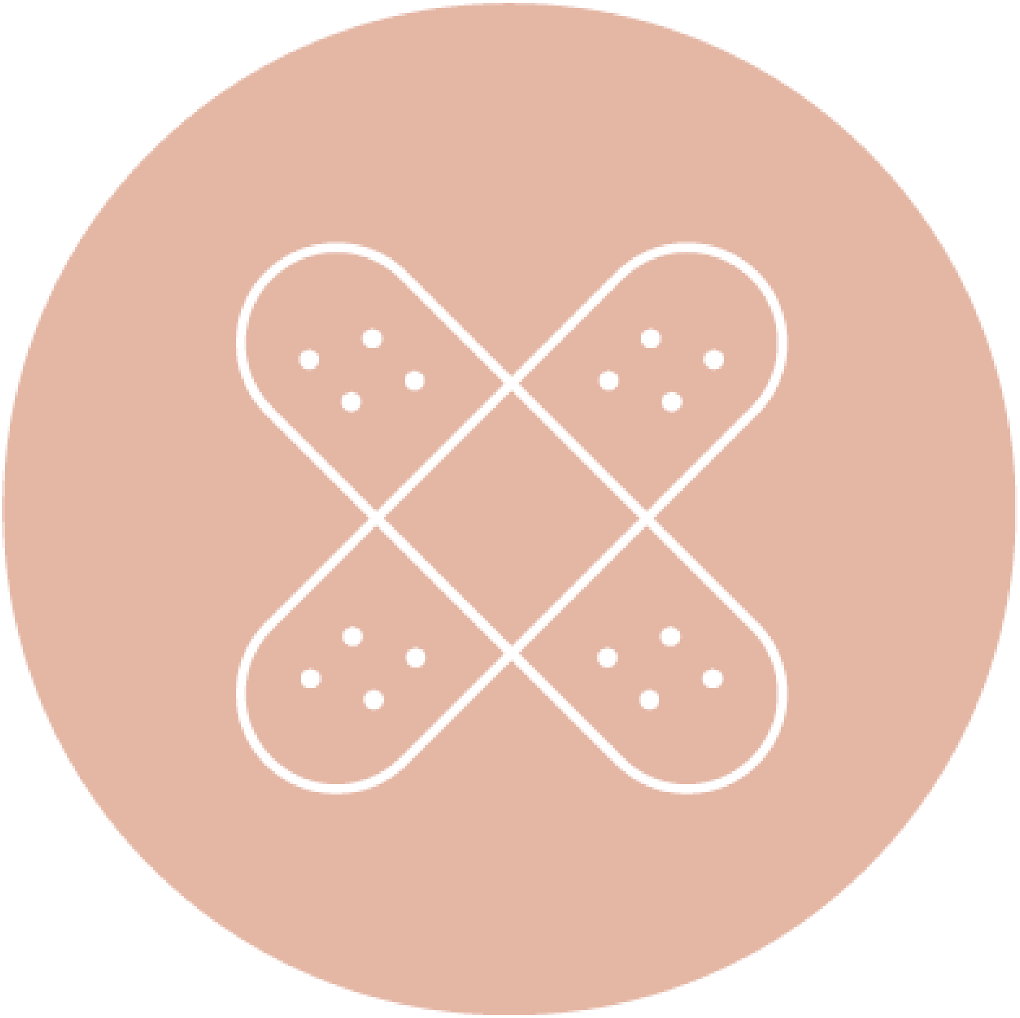
The first design guidelines for UVGI airstream disinfection systems were developed in the 1940s (Luckiesh and Holladay 1942; Luckiesh 1946). Versions appeared in catalogs that continue to be reproduced and used today (Philips 1985). These guidelines offer procedures, charts, and tables to size lamps and reflective surfaces so as to obtain a desired disinfection rate. These sizing methods, though admirably detailed for the period, suffer from a number of deficiencies:

1. They fail to define the intensity field, instead merely using the lamp rating or else relying on photometric data for lamp midpoints.
2. Lamps are specified without regard to lamp location or type.
3. The correction factor for rectangular ducts ignores the intensity field variations due to surface reflectivity.

W.J. Kowalski is a doctoral candidate and William P. Bahnfleth is an associate professor in the Department of Architectural Engineering, Pennsylvania State University, University Park, Pa.

our Product Range


LIGHT PROGRESS
DIRECT IRRADIATION
UV REFLEX
UV FLOW
UV DIRECT
UV STICK
UV PIPE
UV STYLO
TEAM OF LAMPS
UV TEAM
UV TEAM-A
AIR PURIFIERS
UV-FAN
WATER TREATMENT
UV WATER
AIR CONDITIONING
UV DUCT
UV RACK
UV STYLO
UV STICK-SCR
UV STLO X
FAT AND SMELL
UV SMELL
UV STYLO S
BOX AND CABINETS
UV BOX
UV CABINET
STETCLEAN
STETCUBE



What are most common issues in healthcare ?

Healthcare environment is for sure the most sensitive about hygiene levels control. However it is also the **most fertile ground** on which **to develop issues regarding the spread of viruses, bacteria, molds, spores and mites**. There usually a great consciousness regarding the proper procedures that have to be followed to avoid the spreading of harmful microorganisms.
But often they are not enough.

What are most common issues in healthcare ?

LIGHT PROGRESS




Disinfection is the base for good hygiene praxis in healthcare environments.
A good sanitization procedures enables the elimination of **pathogenic microorganism**.

Microorganisms arrive through the air, employees, and, obviously, patients.
They spread through the air, by sedimentation or by vectors (animated) or vehicle (inanimate).
Microorganisms settle in areas that offer a favorable environment for proliferation.
These areas become potential sources of **contamination for the whole environment**.

Chemical method is used massively, but not without a lot of bad consequences.

What is important in healthcare ?

- To set **ideal hygienic** conditions in every environment.
- To **avoid Risks**, increasing controls.
- To have a **programmable** and possibly automated **cleaning process**.
- To **cut** the **consumption of chemicals, which create resistant pathogens**.
- **Maintain** the **hygiene** level achieved **easily**.

LIGHT PROGRESS

devices

are EASY to APPLY

create NO RESISTANCE

make you SAVE TIME

IT ELIMINATES COMPLETELY ALL PATHOGENS

UVGI eliminates bacteria, viruses, spores, fungi, molds and mites, without creating microbial resistant forms as chemical disinfectants and antibiotics do usually.

GOOD COSTS/BENEFIT RATIO

HAIs have a cost in health, as well from an economic point of view. UVGI devices interact with cleaning operations improving there effectiveness. UVGI systems do not require special maintenance, they just need periodically lamps replacement.

IT IS A PHYSICAL PROCESS, SAFE AND ECO - FRIENDLY

It requires little time to achieve microbial reduction of over 99%. UVGI treatment prevents the onset of such conditions, which are the base of cross-contamination development.

IT IS A DEEP, CONTINUOUS, PROGRAMMABLE DISINFECTION

UVGI method maintains ideal hygienic conditions in healthcare environments, both in presence that in absence of patients and employees.

IT'S EASY TO APPLY, YOU CAN TRUST ON US!

Our expert team work with both big and small healthcare facilities, obtaining always great results. We will help you to choose the best product between our complete range of over 300 different models offering you the perfect solution that will satisfy your needs.

What are LIGHT PROGRESS devices

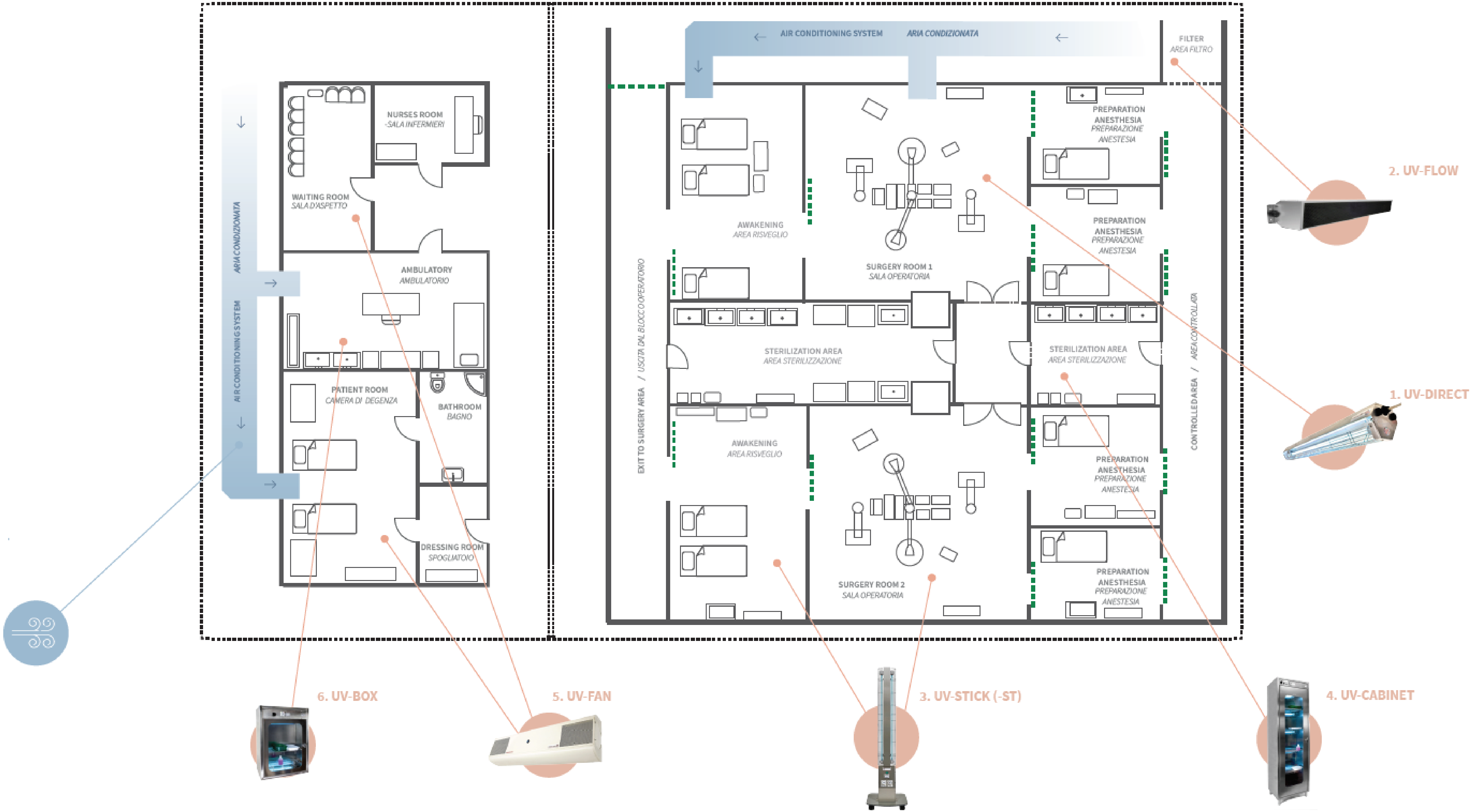
designed to improve

Hygiene and Safety

in Healthcare ?

LIGHT PROGRESS

Application Scheme



Environmental Disinfection

- Direct Irradiation (absence of people)
- Air Purifiers (presence of people)

UV-DIRECT

It can be easily applied as a common ceiling light fixture.

Special mirror bright reflector to increase UVGI power.

Switched ON during work breaks, it treats both air and surfaces

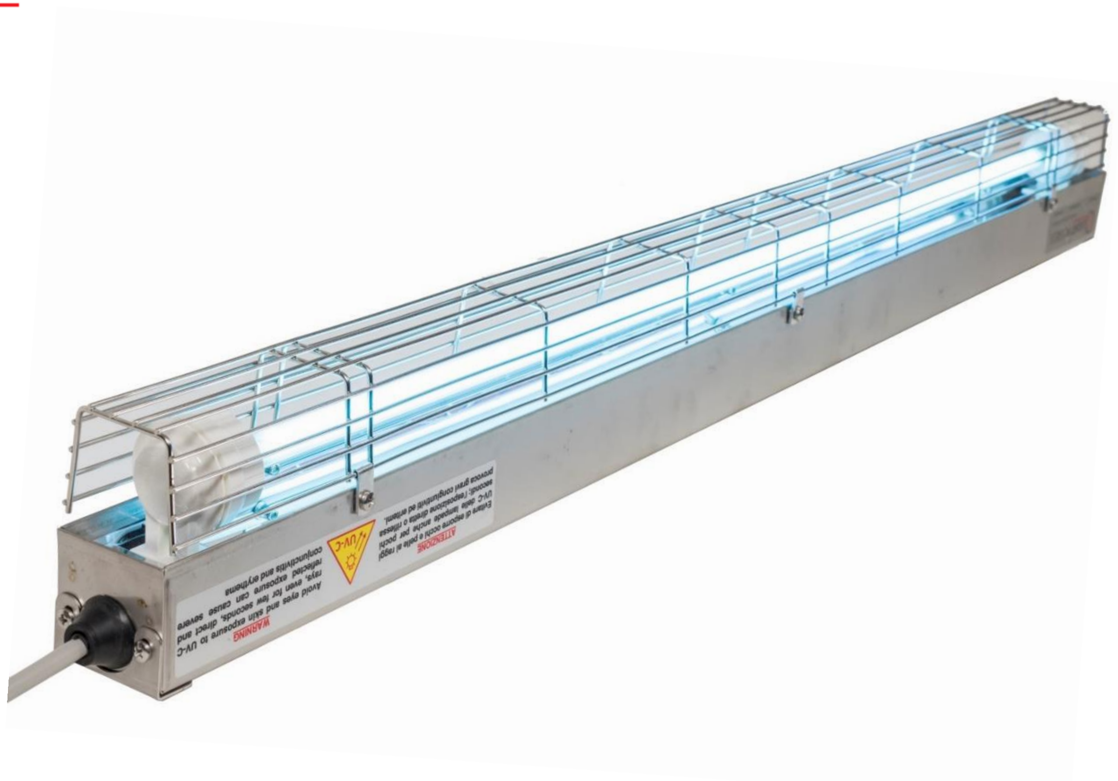
Made in high quality SS.

Control board available to set up programmable disinfections.

External Grid to protect the lamp.

LIGHT PROGRESS

UV-STICK-NX



It can be easily applied as a common ceiling light fixture, but smallest models could be also used inside processing and packaging machines (pharma industries).

Switched ON during work breaks, it treats both air and surfaces.

Made in high quality SS.

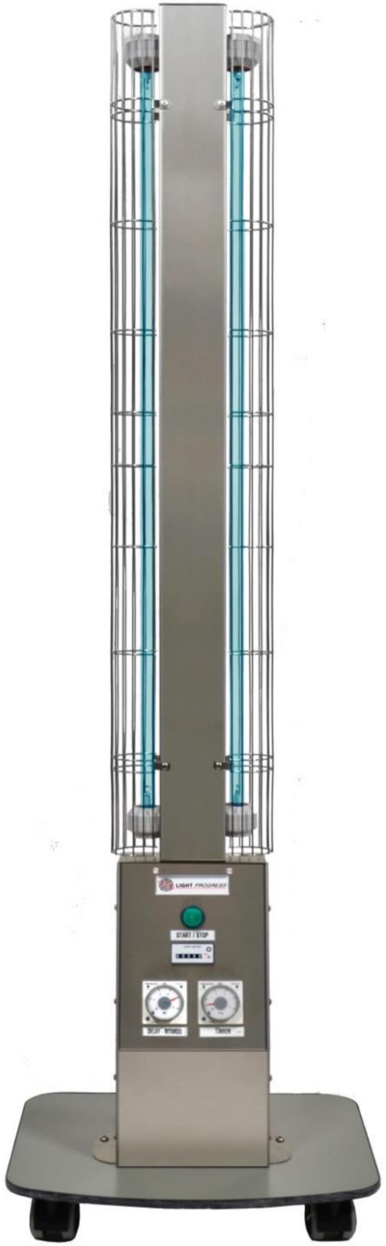
Special mirror bright reflector to increase UVGI power.

Control board available to set up programmable disinfections.

External Grid to protect the lamp.

CE RoHS

UV-STICK-NX



-<u>ST</u> model with double lamp and a four-wheels stand is available to treat surfaces all around in different environments.

Its compact sizes and the wide range of models allow endless applications' solutions.

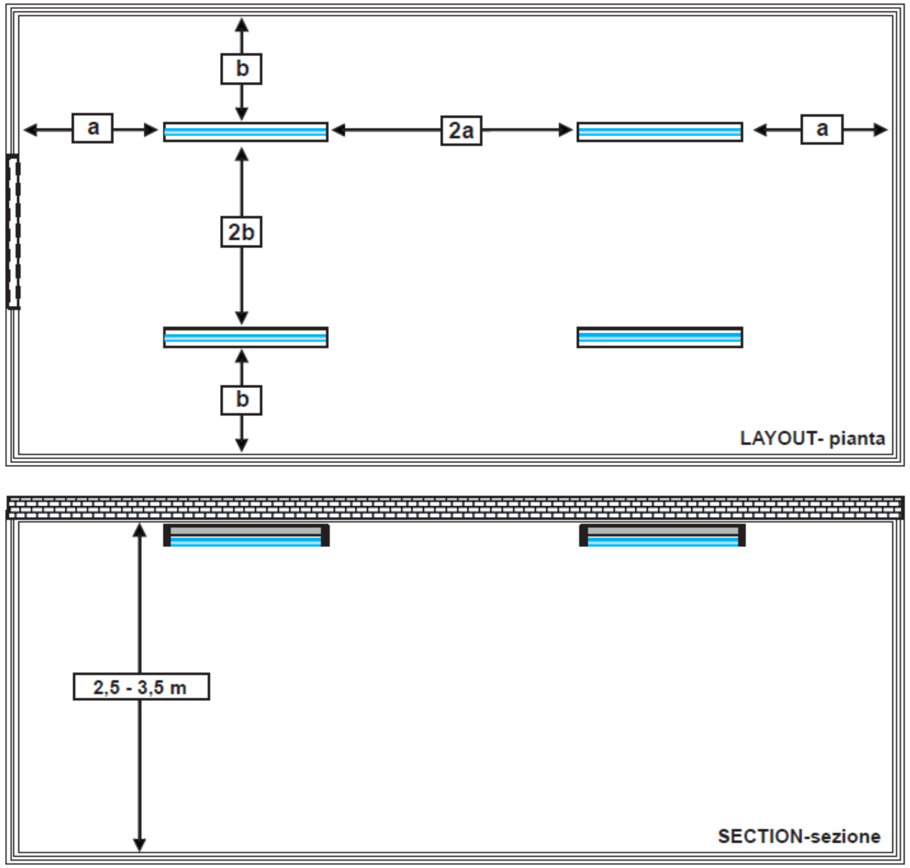
UV-DIRECT UV-STICK-NX

When staff leaves during work breaks, direct irradiation of surfaces allow a deep disinfection treatment.

The natural recirculation of air currents allows air disinfections as well.

The combination of surface + air disinfection creates the ideal hygiene level in healthcare environments.

LIGHT PROGRESS



We help you designing the **application layouts** to fit the specific area that has to be treated.

The solution provided will fit exactly clients' need, according to our know-how in UV-C employment methods and our 30 years experience specific in food industries applications, as well as several tests made with a University Research center;

LIGHT PROGRESS

UV-FAN

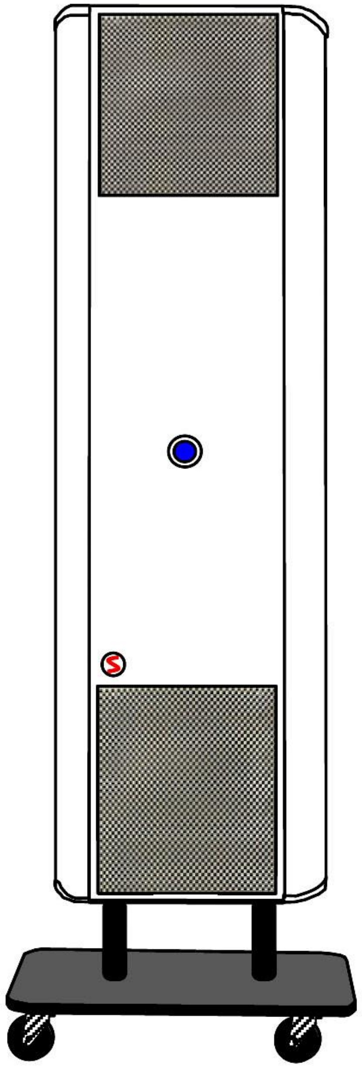
Air Purifier, it treats the air 24 hours a day, without any contraindications for the people present.

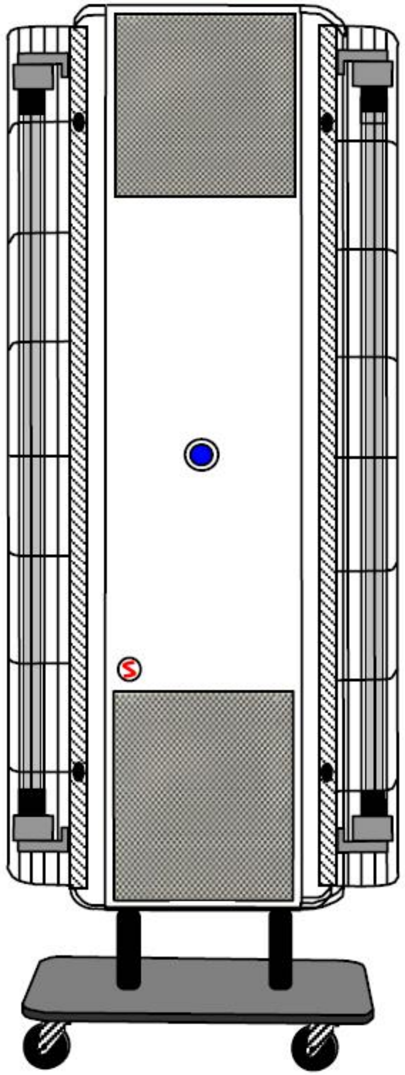
A silent built-in fan conveys the air to pass inside its germicidal chamber.

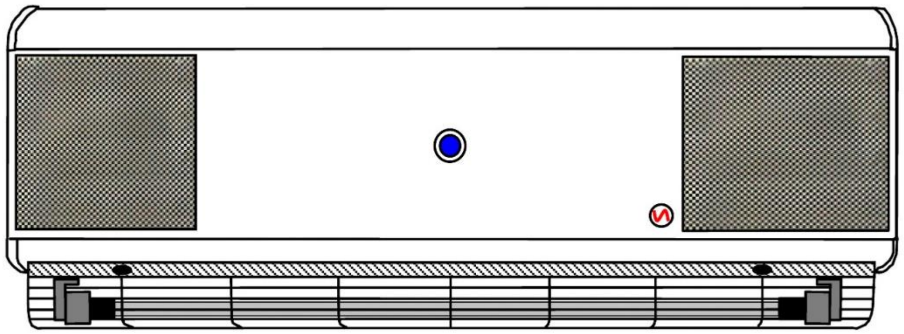
External body in extruded Aluminum, coated with epoxy-powders.

CE RoHS

TiOX Filter included.
Titan Dioxide Nanoparticles with silver salts enhance the germicidal effect of UV-C light; Its photocatalyzation allows the elimination of VOCs and NOXs, too.



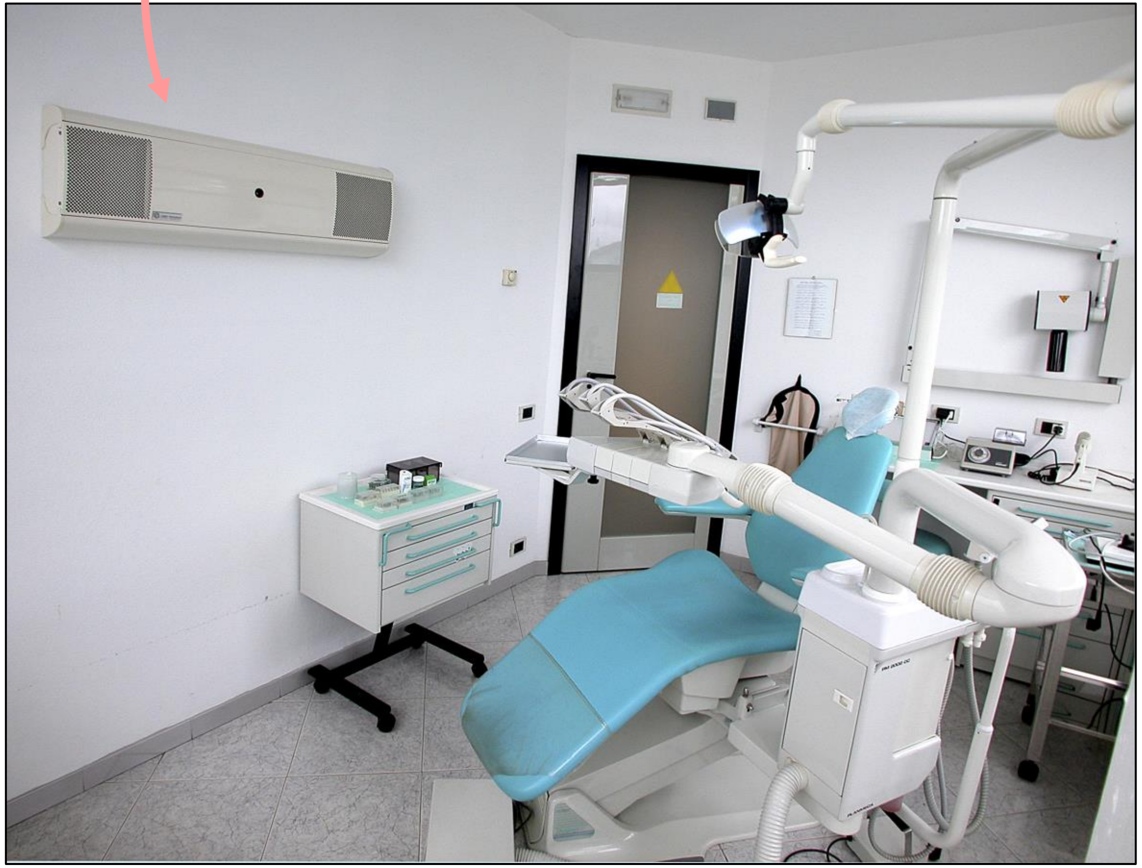


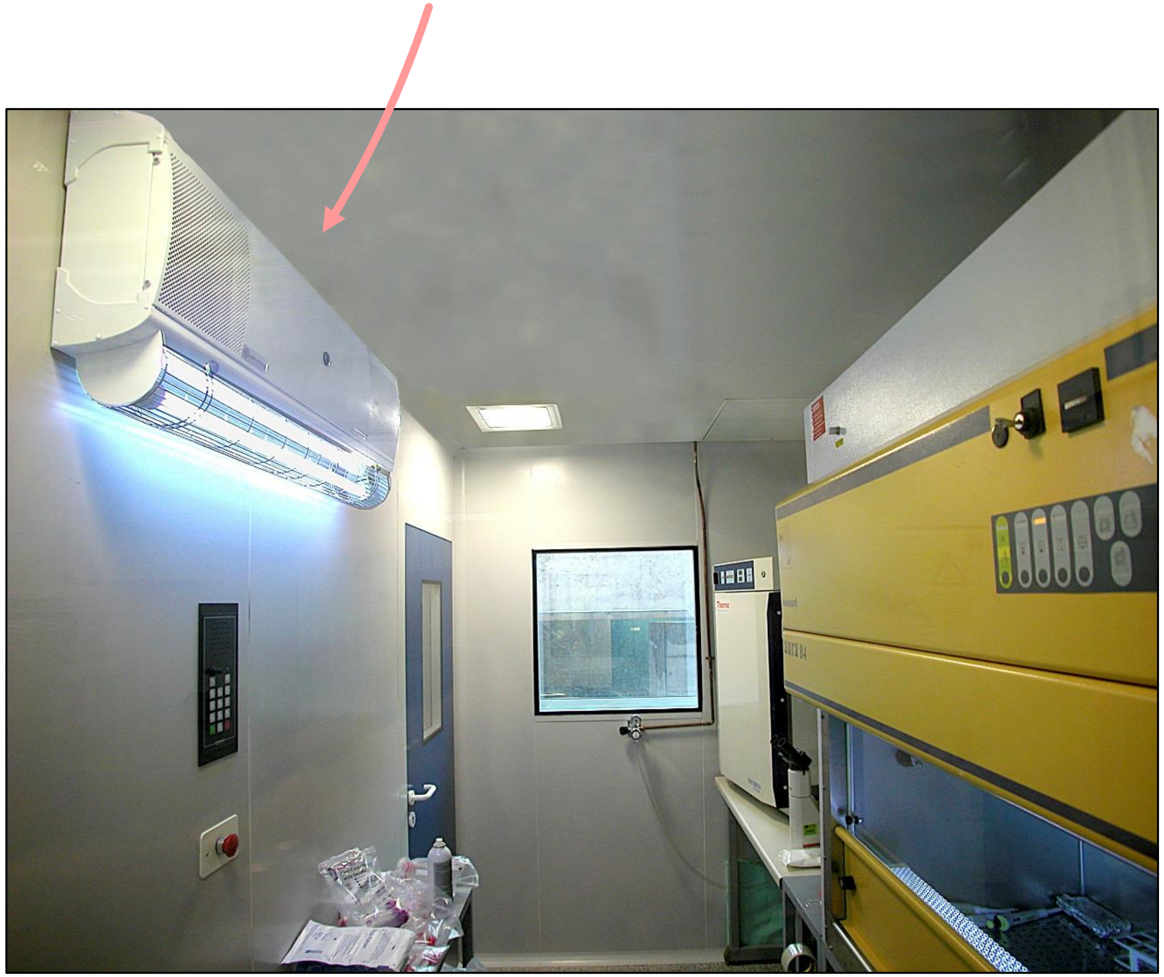


-<u>BD</u> model with integrated external lamp. Besides the normal purifying action, it provides the possibility of having a deeper disinfection treatment during non operational hours (i.e. night).

-<u>ST</u> model with four wheels stand available.

LIGHT PROGRESS





Special Areas Environments

- Controlled Areas (clean rooms, filter passages, etc)

UV-FLOW

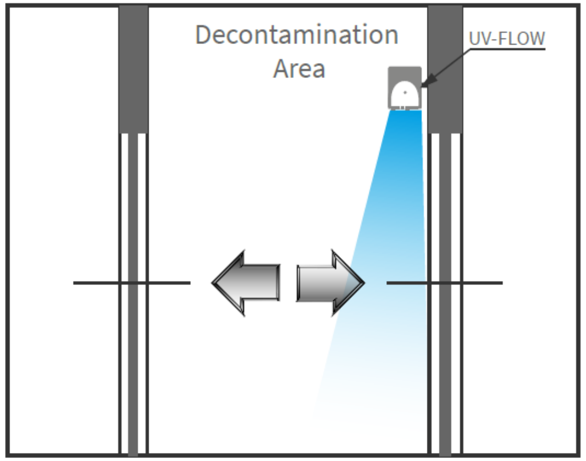
Monodirectional UV-C flow device;

it creates a UV-C barrier if placed above an opening (door) and/or it treats the upper air layers when installed pointing

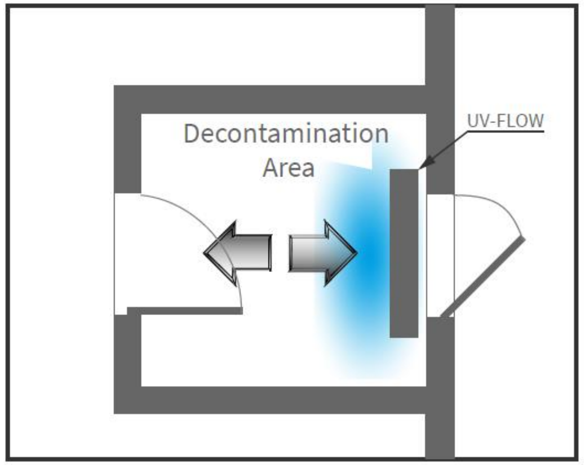
Made in high quality SS.

Directional honeycomb filter to create a «UV blade»

CE RoHS



SECTION / SEZIONE



Filter Room are very important to separate areas with a different grade of microbiological controll (i.e. Clean Rooms, separeted sectors).

Treating upper air layers enables a general enhancement of air decontamination, thanks to air natural convective motions.

Tools Sterility Maintenance

- Germicidal Box
- Germicidal Cabinet

LIGHT PROGRESS

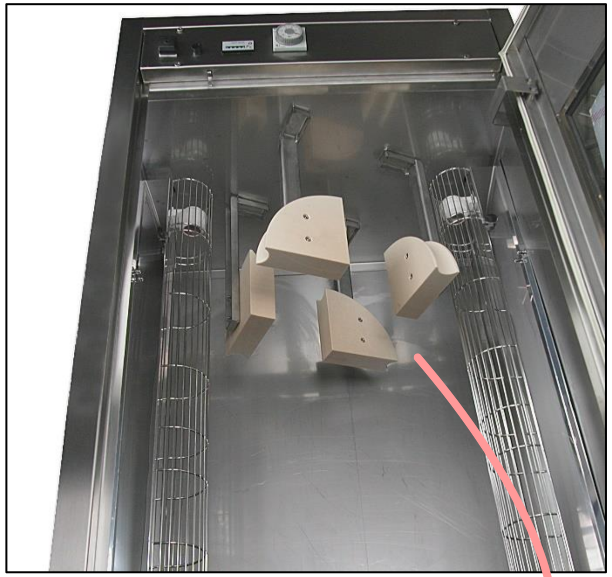
UV-CABINET

Cabinet to preserve sterility maintenance, for any type of equipments, tools, containers.

Automatic switching ON-OFF to set disinfection cycles with a settable timer.

Available vith multiple doors, wall-mounted or floor standing.

High quality Stainless Steel AISI 304.



Wall mounted model is also available

-E model includes a special endoscopic probes holder (just for floor standing structure).

LIGHT PROGRESS

UV-BOX

Box to preserve sterility maintenance, for any type of equipments, tools, containers.

Automatic switching ON-OFF to set disinfection cycles with a settable timer.

Table model available (UV-BOX-E2/40H).

High quality Stainless Steel AISI 304.

CE RoHS 2002/95/EC

The transparent door with the anti-UV LEXAN® window allow you to check the proper operation at any time.

Why LIGHT PROGRESS ?

We offer the **widest product range** of UVGI Devices on the market, providing different solutions, specifically designed for HEALTHCARE ENVIRONMENTS application.

Our Team sizes and projects every application designing a **custom solution** for each specific case.

Our products are born solving **real market issues coming from Healthcare field**, our first mission is to fit UV-C technology in already existing environments and habits, satisfaying exactly the clients requests.

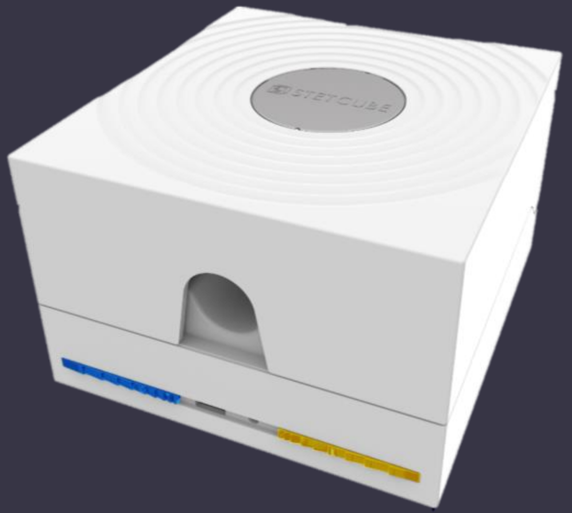
Why LIGHT PROGRESS ?

30 years of Health Quality improvements, **30 years of happy customers**.

Air, Surfaces, Water disinfection. Over 200 products within the same catalogue, 360° solutions.

Good **value for money**, great Quality level, devices are 100% Made in Italy and CE marked.

STETCLEAN

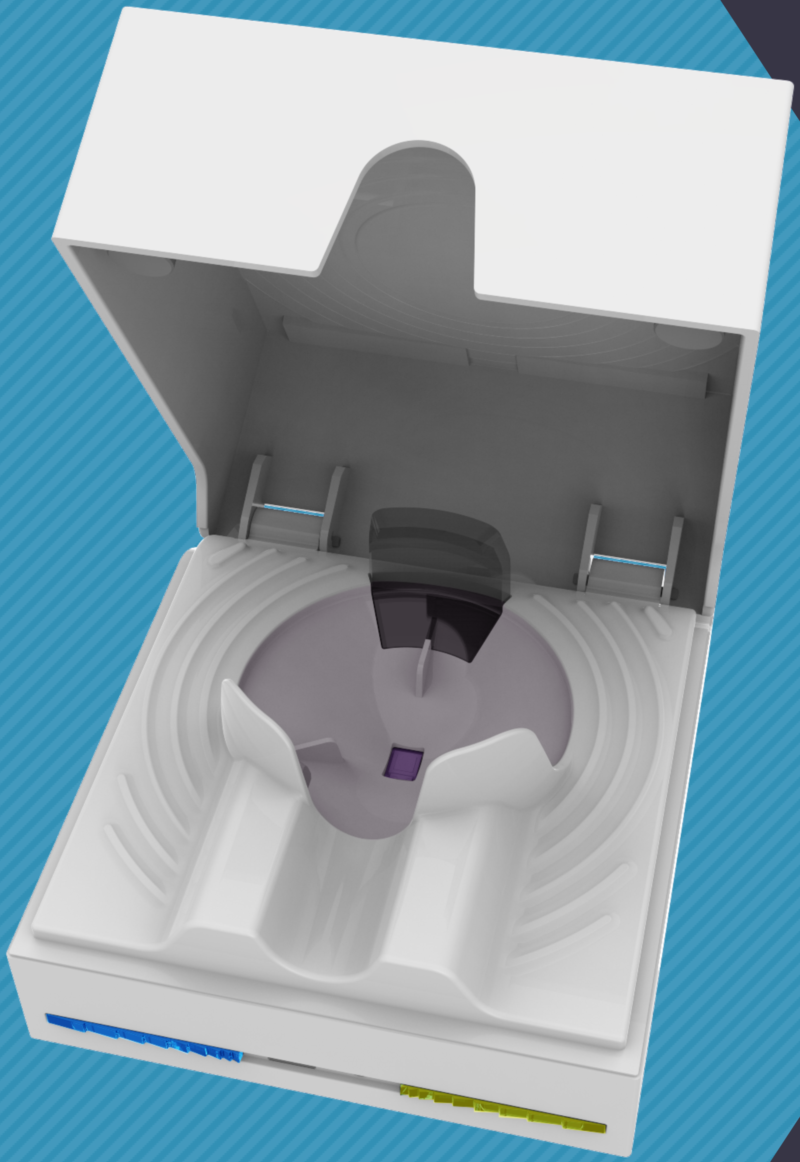


STETCUBE

Wearable Disinfection

- Portable Version: designed to follow your stethoscope everywhere you go.
- double control system – optical sensor and mechanical – for use in operational safety conditions
- microprocessor for irradiation and security controls
- special polycarbonate body
- light weight (100 grams) and pocket sized (limited footprint), like a common smartphone
- fits with the most common stethoscope size (around 46 / 47 cm diameter, i.e. Littman Classic II)





Disinfection on your desk

- Desk Version: designed for “sharing”. It fits in hospital cart, desk, etc.
- With the optional supplied you can easily mount it on a wall
- double control system – infrared sensor and mechanical switch as you close the cover
- microprocessor for irradiation and security controls
- special shiny polycarbonate body
- compatible with every stethoscope type and dimension (pediatric, neonatal, cardiological...)


EC
EC


STETCUBE

Member of IUVA - International UV Association

AWARD WINNER BEST UV PRODUCT INNOVATION 2016

References

Pharmaceutical

Italfarmaco

TERME DI CHIANCIANO

Baxter

Aboca
INNOVAZIONE PER LA SALUTE

Dussmann

AVENTIS PHARMA

FACTA
farmaceutici spa

sanofi aventis
Because health matters

Inso

ARTSANA

NxSTAGE

Pellegrini

kemon
ITALIAN HAIR FASHION

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…and many more all over the world

Thank you