



:: CHEMICAL-FREE DISINFECTION

**AIR HANDLING UNITS ::
AIR CONDITION ::
FACILITY MANAGEMENT ::**



Trade brochure ::
Hygiene in AHU and HVAC ::
Consistent hygiene in all sectors ::

Germless production air
Efficient energy
Decrease of operating costs



- **Continuous disinfection** by up to **99.9 %**
- **Reduces** energy consumption
- **No** chemical disinfection necessary
- Easy **installation**
- **VDI 6022 and HACCP** conform



E362672

:: The power of ultraviolet light

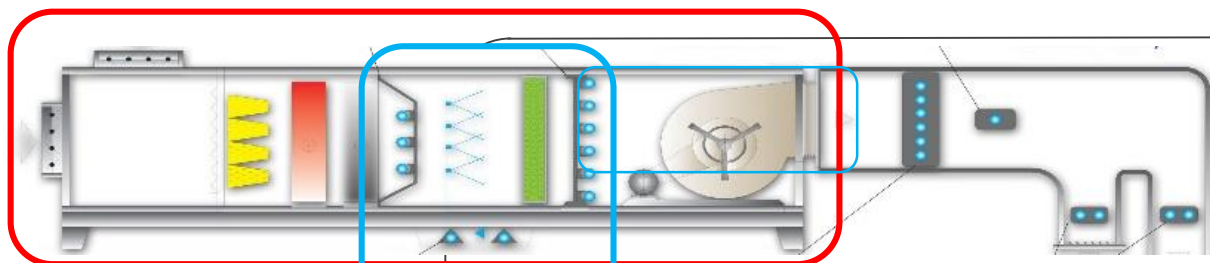
- UVC disinfection is efficient at wave lengths from 200 to 300 nm.
- UVC radiation output is highly bactericidal.
- It is absorbed by the DNA, destroys its structure and inactivates living cells.



- Kills bacteria, viruses and yeasts within seconds
- No taste or odour impairment
- No formation of health hazards or by-products
- No adding of chemicals
- Low-maintenance process and easy handling
- Low purchasing and operating costs
- Highest operational safety
- Easy to retrofit
- Plants specifically designed for your requirements
- Microorganisms such as viruses, bacteria, yeasts and fungi are rendered harmless within seconds by UV radiation.
- With sufficiently high irradiation intensity the UV disinfection is a reliable and environmentally friendly method since you do not need to add any additional chemicals.
- Microorganisms cannot develop resistance to UV rays.

Applications for ventilation and air conditioning technology (HVAC)

Permanent microbial disinfection with UV-C



A.H.U. treatment

UV-STICK-(AL)-NX-SCR

The UV STICK SCR system has a modular kit that can cover any width and height to mount the system directly in front of heating / cooling registers and filters inside the HVAC or AHU by using serial connectors. This clever installation position prevents the spreading and multiplying of mold, bacteria and viruses. By doing this, chemical cleaning is past and the efficiency of the systems permanently guaranteed.



UV-STYLO-E

UV-C system with IP68 protection, suitable for operation under water. It cleans water in droplet traps and tanks and keeps them free of risky agents, such as Legionella.

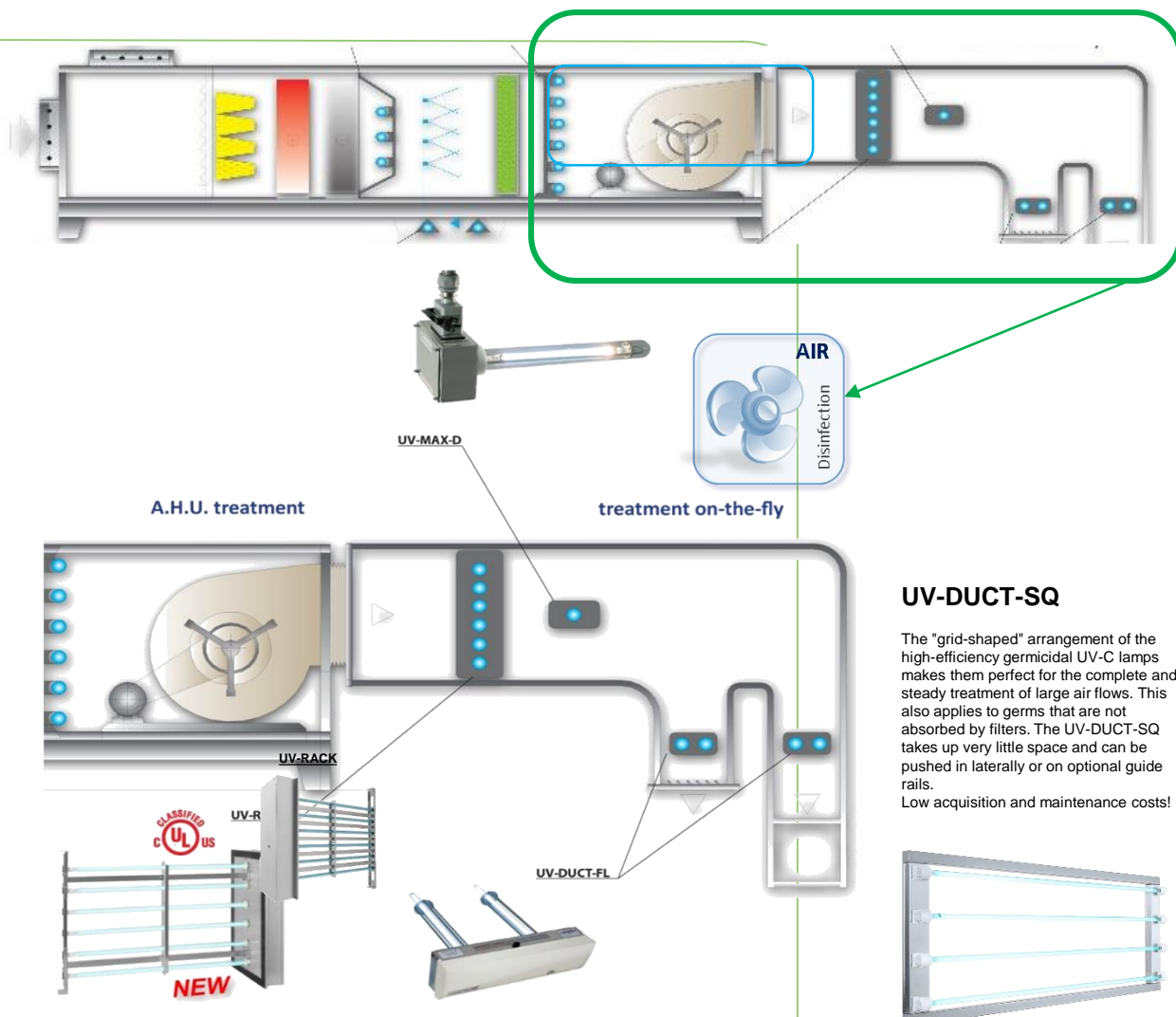
UV-WATER

A UV-C system in the form of a reactor, through which the dampening water is continuously pumped and disinfected. Alternative to UV-STYLO-E, if on-site use is not possible.



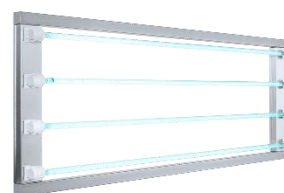
Applications for ventilation and air conditioning technology (HVAC)

Permanent microbial disinfection with UV-C



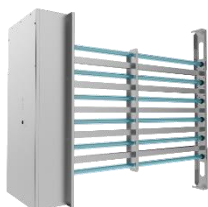
UV-DUCT-SQ

The "grid-shaped" arrangement of the high-efficiency germicidal UV-C lamps makes them perfect for the complete and steady treatment of large air flows. This also applies to germs that are not absorbed by filters. The UV-DUCT-SQ takes up very little space and can be pushed in laterally or on optional guide rails. Low acquisition and maintenance costs!



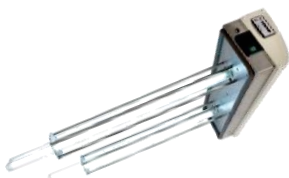
UV-RACK

The arrangement of the UV-C lamps cleans air at each pass. It fits into any duct size and is easy to assemble. Only the stainless steel frame is to be mounted. The adjustable feet allow easy adaptation to the structural conditions.



UV-DUCT-FL

Compact and easy to install, it will find its place in any air conditioner (even existing ones). Optimally UV-DUCT-FL is mounted on air outlets to prevent cross-contamination.



UV-MAX-D

Great performance, compact size. UV-MAX-D is ideal for UVC disinfection in air ducts, as it is easy to install, use and retrofit! The high intensity of the germicidal emitters is ideal for large air flows / cross sections and high flow velocities. The result is good sterilization rates even with mold fungi.



UV-DUCT-B

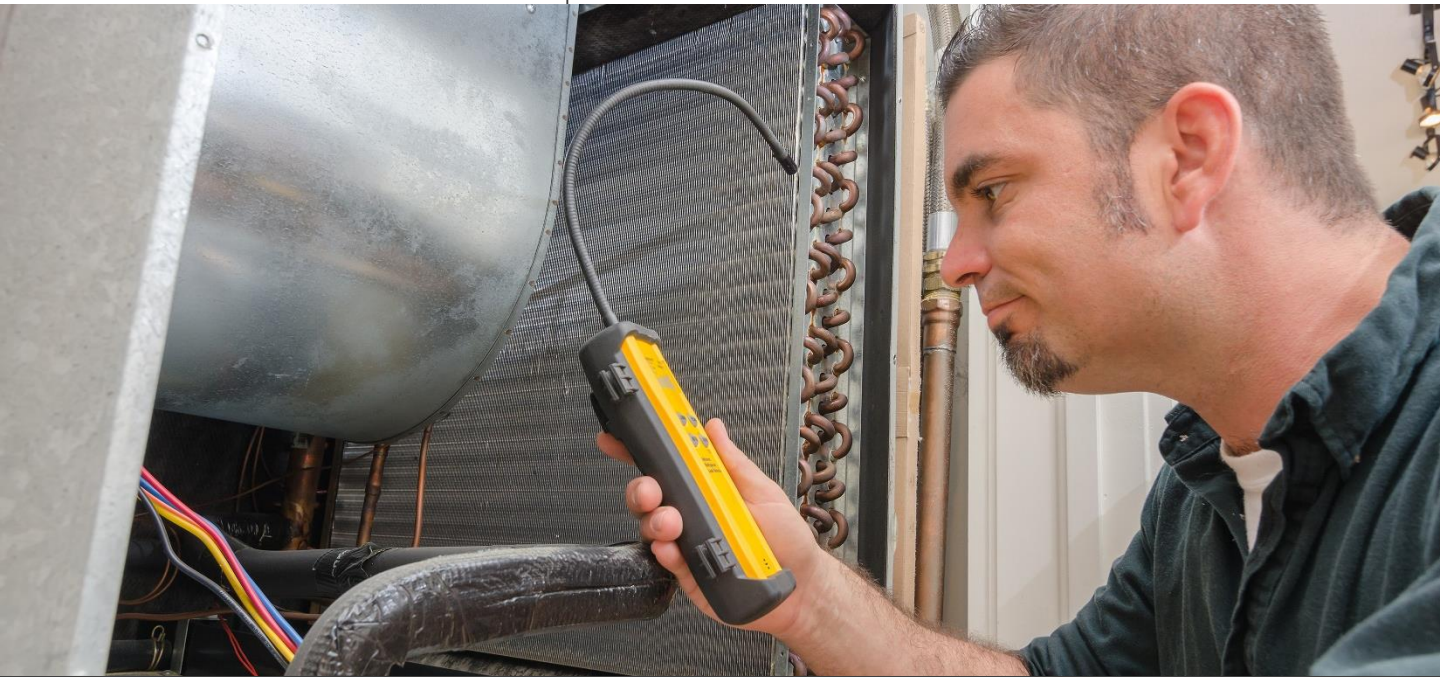
Is mounted on the air duct inner walls and the radiation is released into the duct interior. Use when there is limited space along the length of the air duct and no UV-DUCT-SQ can be used. Low acquisition and maintenance costs!





Handling ventilation air condition (HVAC) ::

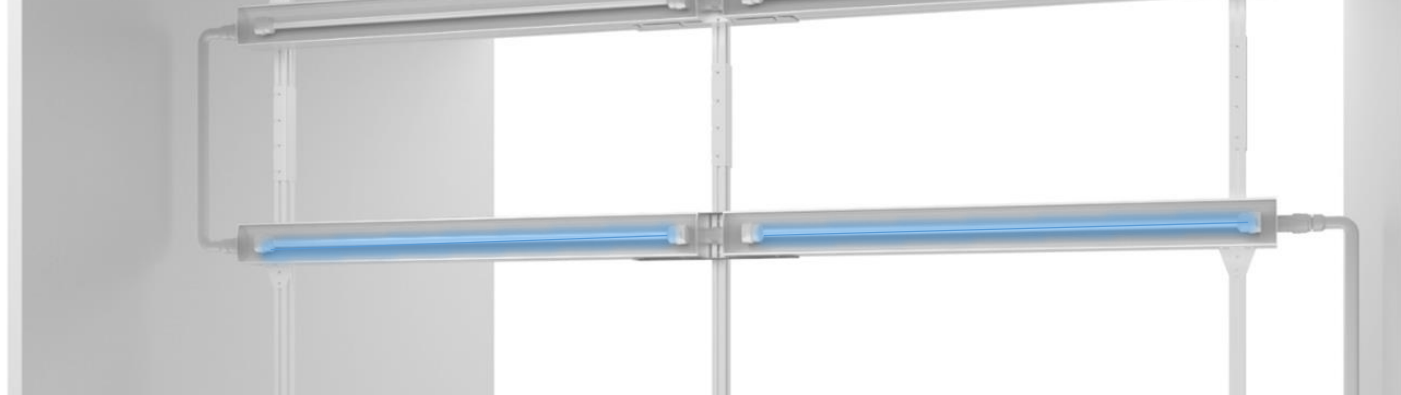
Continuous disinfection of cold-/ heat-exchangers and filter systems



UV-STICK-AL

- **Continuous disinfection** by up to 99 %
- **Lowering** of energy consumption.
- **No more** chemical disinfection is necessary
- **Simple installation** by a HVAC engineer
- **Compliance** of VDI 6022 policy fully automatically





Fields of application:

The modular system UV-STICK-SCR is installed in air conditioning (HVAC).

It effectively inactivates viruses, bacteria, fungi and spores. At the same time, UV-C radiation prevents the dangerous biofilm on the surfaces of cold registers, heat exchangers or filter systems and prevents deposits of bacteria and moldy spores.

Furthermore, the growth conditions of f.e. Legionella Pneumophila, tuberculosis and influenza viruses, as well as other pathogens are particularly favored in air conditioning systems and as a result of volatile organic compounds, conditions such as asthma and allergies, the so-called "sick building syndrome" and Monday fever can be caused.

The UV-STICK-SCR improves efficiently while reducing maintenance, disinfection and operating costs.

With decreasing energy consumption, the efficiency of your system increases at the same time.

Features:

- Selectable UV - C lamp wattage and length
- Body in anodized aluminum
- Lamp lengths from 44 to 155 cm
- Protection class IP 55, class II
- Easy install, serial connectors up to 10 devices in row with one power line
- CE sign (LVD, EMC, MD, RoHS)

UV-STICK	E40H-AL	E60H-AL	E75H-AL	E100H-AL	E150-AL	E150H-AL
Item No.	A006997	A006998	A006999	A007000	A007001	A007003
Lamp average lifetime (h)	9,000	9,000	9,000	9,000	9,000	9,000
Power max (W)	40	60	90	120	76	150
Dimensions (LxW xH, mm)	571x80 x82	734x80 x82	1,028x80 x82	1,309x80 x82	1,688x80 x82	1,688x80 x82
Length A (mm)	508	671	965	1,246	1,625	1,625
Average covered surface of coil/filter (m²)	0.25 – 0.50	0.35 – 0.70	0.50 – 1.00	0.65 – 1.30	0.75 – 1.50	0.85 – 1.70
Spare lamp/ Item No.	A003389	A008151	A003926	A007961	A008286	A008076



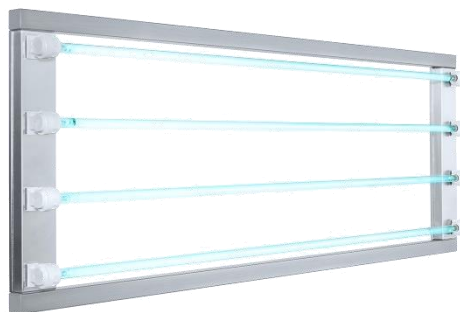
Air condition (HVAC) :: Ventilation ducts ::

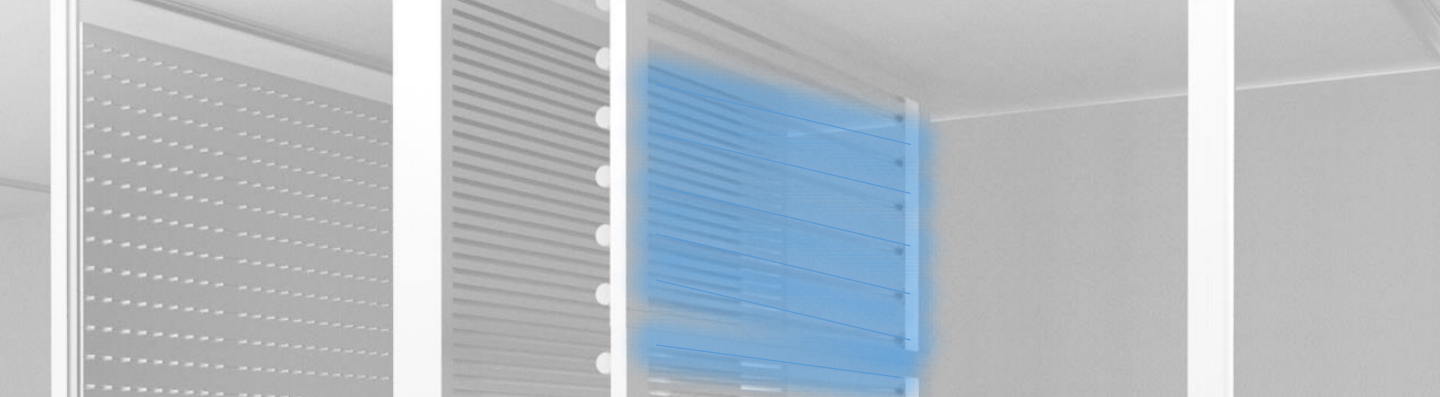
*Disinfection module as barrier for
air conditioning or ventilation systems*



UV-DUCT-SQ

- **Continuous disinfection** by up to 99 %
- **No chemical disinfection** necessary
- **Simple installation** by a HVAC engineer
- **Compliance** vorgegebener Hygiene-standards





Fields of application:

Built into the air ducts of ventilation and air conditioning systems (AHU/HVAC), the modules prevent the multiplying of dangerous viruses, bacteria, mold and spores and their distribution.

A perfect solution for large ducts with high air flows. The installation is carried out in such a way that the air flow hits the UV lamps vertically and therefore receives the highest possible dose of UVC radiation.

The modules consist of batteries with 4 or 6 lamps, built in a sturdy stainless steel frame. The different lengths and widths of the modules allow the use in almost all duct dimensions, since the cross-flow allows them to be mounted side by side or as a labyrinth. Each module has a control box with optical monitoring of the individual emitters.

Features:

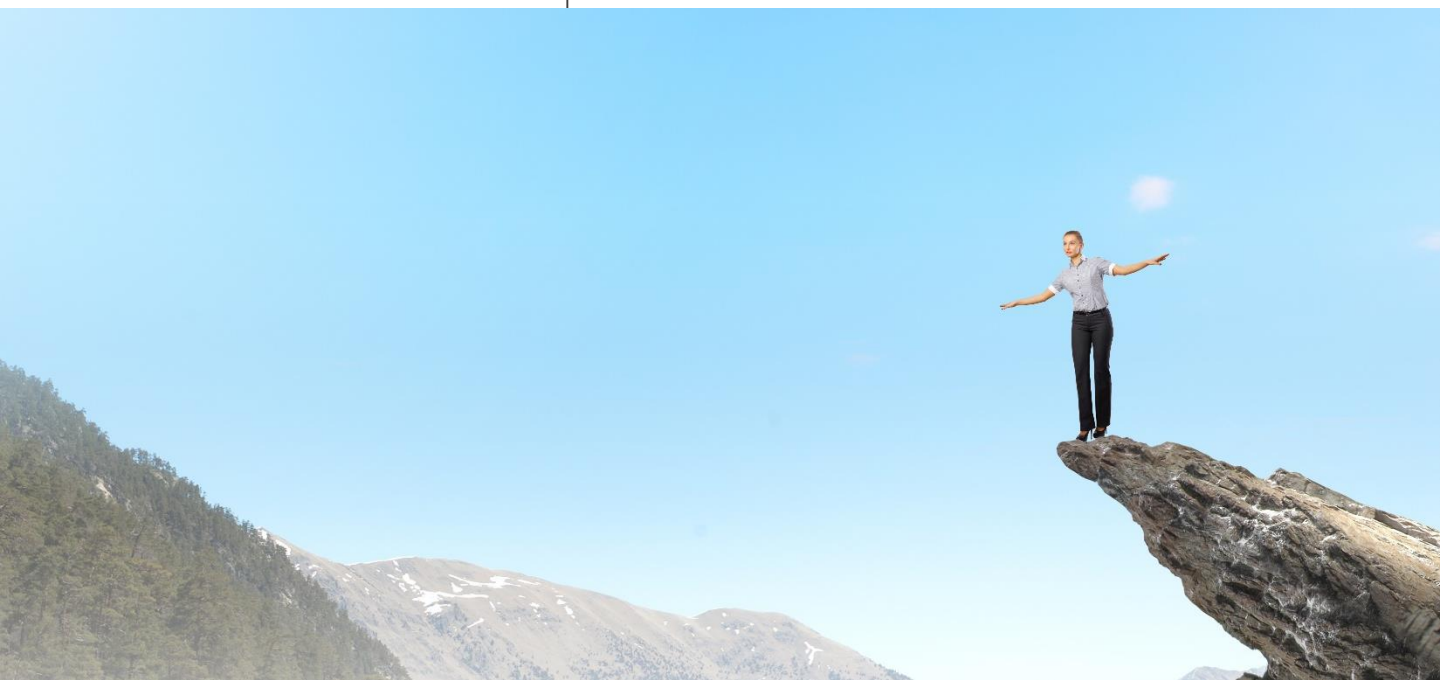
- Selectable UV-C lamp power
- Stainless steel frame AISI 304
- Various sizes available
- All components are UV-C stable
- Including external control box
- Control via cable/plug connector
- CE sign (LVD, EMC, MD, RoHS)

UV-DUCT-SQ	4/40H	4/90H	4/120H	6/40H	6/90H	6/120H
Item No.	A005893	A005894	A005895	A005896	A005897	A005898
Power consumption (W)	160	320	400	240	480	600
Voltage (V)	230	230	230	230	230	230
Protection class	IP55	IP55	IP55	IP55	IP55	IP55
Length cable (m)	3	3	3	3	3	3
Dimensions (LxWxH, mm)	90x450 x496	90x450 x953	90x450 X1,234	90x600 x496	90x600 x953	90x600 X1,234
Lamp lifetime (h)	9,000	9,000	9,000	9,000	9,000	9,000
Alarm card/ Item No.	2 X AL-2X	Included in EPS	Included in EPS	3 X AL-2X	Included in EPS	Included in EPS
Spare lamp/ Item No.	A003389	A003926	A007961	A003389	A003926	A007961



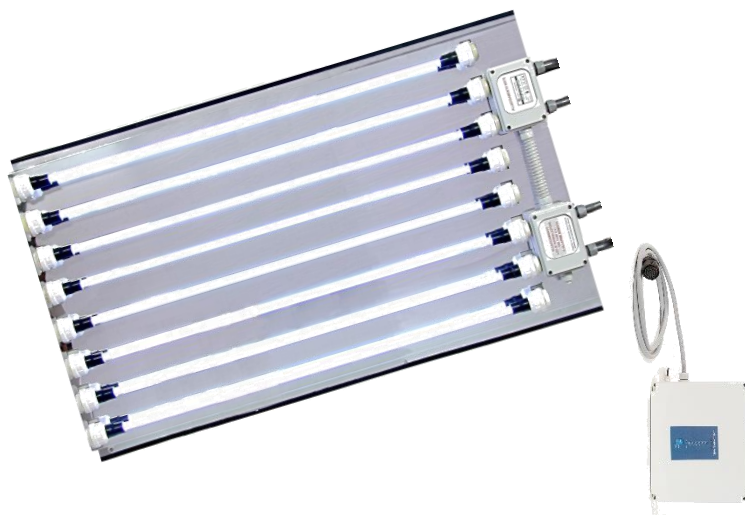
Air Conditioners :: Ventilation ducts ::

*Reflector module for disinfecting the
air stream in HVAC or AHU*



UV-DUCT-B

- Permanent disinfection of the air by up to 99%
- No chemical disinfection necessary
- The installation will be done by your HVAC technician shortly
- Fulfillment of given hygiene standards





Fields of application:

Built into the air ducts of ventilation and air conditioning systems (HVAC/AHU), the modules prevent the proliferation of dangerous viruses, bacteria, mold and spores and their distribution.

A perfect solution for large ducts with high air stream.
The installation takes place on the inner sides of the ducts, so that the radiation is reflected into the channel interior and thus the highest possible dose of UVC radiation is delivered to the air stream.

The modules consist of batteries with 4 or 6 lamps, built-up in a sturdy stainless steel frame with a reflector unit. The different lengths and widths of the modules allow the use in almost all channel dimensions, since a mounting side by side is possible. Each module has a control box with optical monitoring of the individual emitters.

Features:

- Selectable UV-C lamp power
- Stainless steel frame AISI 304
- Various sizes available
- All components UV - C stable tested
- Including external control box
- Control via cable / plug connector
- CE signs (LVD, EMC, MD, RoHS)

UV-DUCT-B	4/40H-(NX/AL)	4/90H-(NX/AL)	6/40H-(NX/AL)	6/90H-(NX/AL)
Item No.	A005892	A005891	A005890	A005889
Lamp lifetime (h)	9,000	9,000	9,000	9,000
Power consumption (W)	160	360	240	540
Dimensions (LxWxH, mm)	508x271x101	965x271x101	508x398x101	965x398x101
Weight (kg)	6	8	8	11
For air volume between (m³)	1,700 – 4,000	4,000 – 9,000	2,500 – 6,000	6,000 – 13,000
Spare parts				
Power adapter (complete unit –SS type)	CME-4/40H	CME-4/90H	CME-6/40H	CME-6/90H
Power adapter + alarm board (complete unit – CS type)	CML-4/40H	CML-4/90H	CML-6/40H	CML-6/90H
Spare lamp/ Item No.	A003389	A003926	A003389	A003926



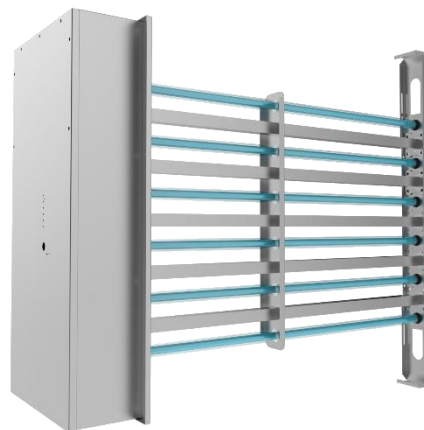
Ventilation ducts ::

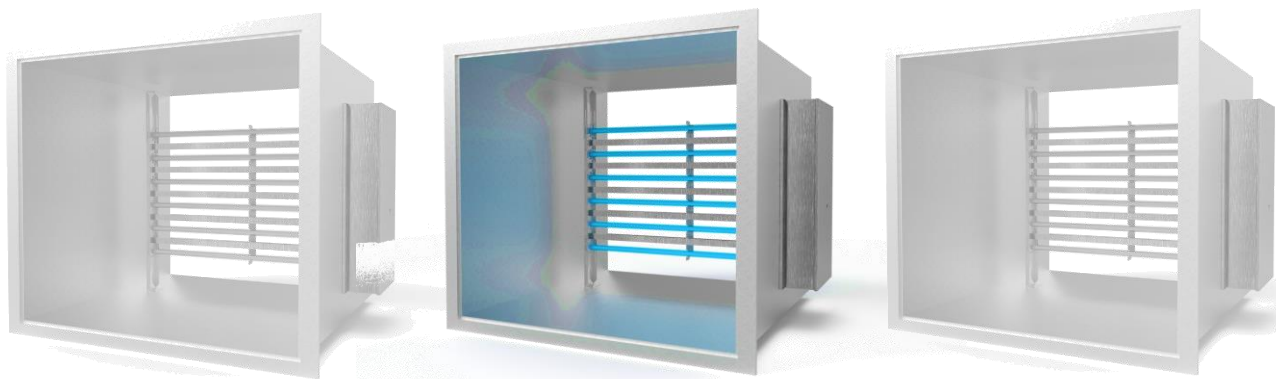
Barrier module for the disinfection of airstream in HVAC or AHU



UV-RACK

- Permanent disinfection of the air by up to 99%
- No chemical disinfection necessary
- The installation will be done by your HVAC engineer within a short time
- Fulfillment of given hygiene standards





Fields of application:

The UV rack is installed as a stand-alone unit or as a UV barrier in the end segments of ventilation and air conditioning systems (RLT).

The UV-RACK system continuously sterilizes the air streaming past the unit.

It reduces microbial germs and effectively prevents the spread of dangerous and unwanted pathogens in buildings. The plants are kept clean, the use of expensive chemicals is reduced. The highly efficient UV-RACK modules minimize the replacement of expensive closed-meshed filters and the costly and time-consuming cleaning of the entire RLT system.

The main advantages of the UV-RACK systems are their compact dimensions and simple device control as a single or battery system.

Features:

- Selectable UV-C lamp power
- Various sizes available
- All components UV - C stable tested
- Integrated control
- CE signs (LVD, EMC, MD, RoHS)

UV-RACK	3/40H	4/40H	6/40H	3/60H	4/60H	6/60H
Item No.	A006076	A006080	A006084	A006077	A006081	A006063
Lamp lifetime (h)	12,000	12,000	12,000	12,000	12,000	12,000
Power consumption (W)	105	140	210	180	240	360
Dimension (A) (mm)	443	443	443	587	587	587
Dimension (B) (mm)	514	362	362	514	362	362
Dimension (C) (mm)	257	357	557	257	357	557
Dimension (D) (mm)	352	452	652	352	452	652
Spare lamp/ Item No.	A007659	A007659	A007659	A007852	A007852	A007852
UV-RACK	3/90H	4/90H	6/90H	3/120H	4/120H	6/120H
Item No.	A006078	A006082	A006064	A006079	A006083	A006085
Lamp lifetime (h)	12,000	12,000	12,000	12,000	12,000	12,000
Power consumption (W)	255	340	510	300	400	600
Dimension (A) (mm)	897	897	897	1,180	1,180	1,180
Dimension (B) (mm)	462	362	362	514	362	362
Dimension (C) (mm)	257	357	557	257	357	557
Dimension (D) (mm)	352	452	652	352	452	652
Spare lamp/ Item No.	A006018	A006018	A006018	A007855	A007855	A007855



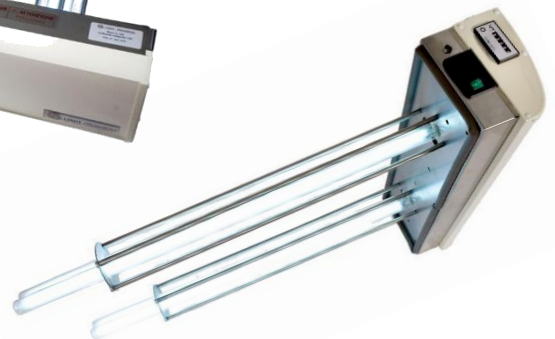
Air Conditioning systems :: Ventilations ducts ::

*Barrier module for the disinfection of
partial flows in small ducts*



UV-DUCT-FL

- Permanent disinfection of the air by up to 99%
- No chemical disinfection necessary
- The installation will be done by your air HVAC engineer shortly
- Fulfillment of given hygiene standards





Fields of application:

The series UV-DUCT-FL is used for the disinfection of air in air conditioners (HVAC) with a reduction of microbial load of 99%.

These modules consist of a housing (flange), with two U-shaped UV lamps. The tubes are protected by a stainless steel basket.

The installation of these devices can also be done later in existing system (retrofit). Through simple holes in the channel wall, the UV lamps can be inserted from the outside into the channel.

The modularity of these devices allows a different adaptation to pipe and channel sizes, down to the last sectors. To disinfect also partial streams targeted.

The main advantages of the UV-DUCT-FL systems are their compact dimensions and simple device control as a single or battery system.

Features:

- Selectable UV-C lamp power
- Various sizes available
- All components UV - C stable tested
- Integrated control
- CE signs (LVD, EMC, MD, RoHS)

UV-DUCT	2/35HP	2/60HP	2/95HP
Item No.	A005886	A005887	A005888
Hour Meter Item No.	A004822	A004822	A004822
Lamp lifetime (h)	9,000	9,000	9,000
Power consumption (W)	70	120	190
Dimensions (LxWxH, mm)	410x130x278	410x130x477	410x130x603
For air flow between (m ³)	1,000 – 2,400	1,300 – 3,400	2,200 – 5,600



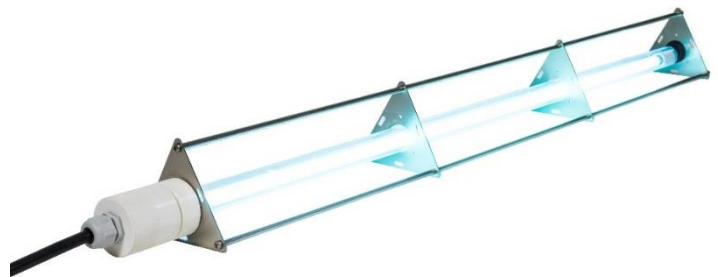
Air conditioning systems ::

Permanent disinfection of the water collection pan in humidifiers of air conditioners



UV-STYLO-E

- Permanent disinfection of dewatered water by up to 99%
- No chemical disinfection necessary
- The installation will be done by your HVAC engineer shortly
- Compliance with prescribed hygiene standards such as VDI 6022





Fields of application:

UV-STYLO-E is designed to sterilize water in pans, drains, purification units, etc. Thus, the device is ideal for use in the water collection pans of humidification units.

By installing in circulating water UV-STYLO-E effectively and efficiently inactivates viruses, bacteria, fungi and spores. It prevents their multiplication while reducing the dreaded biofilm. The use of germicidal UV-C radiation is particularly important in air conditioning systems, as they offer ideal growth conditions for germs without UV-C disinfection.

Within humidification systems, the water is sprayed through evaporation plates. The leachate collects in the pool and carries sediments, causing algae and mold in the humidification system. Water is constantly sprayed in the chamber, which quickly leads to the formation of unpleasant biofilms on all surfaces within the humidification system. The biggest risk, however, is that life-threatening pathogens such as *Legionella pneumophila* and tuberculosis may spread in the air.

Features:

- Selectable UV-C lamp power
- Various lengths available
- All components UV - C tested stable
- Diving depth up to 10 meters
- CE signs (LVD, EMC, MD, RoHS)

UV-STYLO-E	11	16	40H	60H	90H	120H	75
Item No.	A003448	A003449	A005861	A005862	A005863	A005864	A007850
Lamp lifetime (h)	9,000	9,000	9,000	9,000	9,000	9,000	9,000
Power consumption (W)	11	16	35	60	85	100	75
Lengths (mm)	234	300	442	583	900	1,175	1,533
Weights (kg)	0.35	0.5	0.7	0.8	1.1	1.4	1.9
Control box (with LED) Designation	nBa-58	Ba-58	Ba-60	Ba-75H	Ba-75H	Ba-75H	Ba-55P
Dimensions (LxWxH, mm)	175*250*75	175*250*75	175*250*75	175*250*75	175*250*75	175*250*75	400*200*132
Spare lamp/ Item No.	A007850	A006199	A007659	A007852	A006018	A007855	A004283



Water for production :: Processing water ::

*Destroys bacteria and germs in
water for production and processes.*



UV-WATER

- Continuous disinfection of all water in your production will save energy costs of **up to 20 %**.
- **No** more unpleasant **deposits** will accumulate in your water conveying devices, expensive cleaning and disinfection costs will be drastically reduced.
- The formation of a **biofilm** will be **reliably prevented**, germs and black mould will be **eliminated by up to 99.9 %**.





Fields of application:

Suitable for all water withdrawal points such as ice machines, fog systems in fermentation cells or fermentation cabinets, and production water.

The UV-WATER reactors serve to disinfect water (cold or hot), the water flowing through will be disinfected by the integral UVC lamp, without chemical additives, odour and pH neutral, without ozone formation.

A major problem in the supply of fresh water is a continuously increasing number of multi-resistant germs - in spite of the massive use of chlorine and different chemical additives. Therefore, in order to achieve a higher product quality with maximum shelf life, UV treatment is indispensable to achieve the highest possible quality of the used service water.

Features:

- 5 different models
- (from 3,000 l/h to 24,000 l/h)
- Housing is made of stainless steel
- Fully wired (Plug & Play)
- All components are UVC stable
- Easy installation
- Control unit included
- Can be operated with 230 V
- Protection class IP 55 class II
- CE sign (LVD, EMC, MD, RoHS)
- HACCP-compliant

UV-WATER	40H	90H	2/90H	3/90H	4/90H
Item No.	A006468	A006469	A007142	A007143	A007144
Power consumption (W)	40	90	180	270	360
Voltage (V)	230	230	230	230	230
Connection cable (m)	2	2	2	2	2
Flow rate (l)	3,200	8,000	13,000	18,000	24,000
Flow rate (l/s)	0.9	2,2	3.6	5.0	6.6
Display Lamp defective	Yes	Yes	Yes	Yes	Yes
Display Lamp replacement	Yes	Yes	Yes	Yes	Yes
Water connection On/Off	3/4"	1"	2"	2"	2"
Dimensions (L/D mm)	580 x 100	1,060 x 100	1,040 x 160	1,040 x 160	1,040 x 160
Lamp lifetime (h)	9,000	9,000	9,000	9,000	9,000
Spare lamp/ Item No.	A007659	1xA005976	2xA005976	3xA005976	4xA005976



Ice machines :: Dispensers :: Reservoirs ::

*Avoids the biofilm and
mould on your ice production.*



UV-ICEZONE

- **Keeps** ice machines – reservoirs and dispensers **hygienically clean**
- Considerably **reduces cleaning and disinfection costs**
- **Avoids** the formation of **biofilms**
- **Simple installation**
Maintenance-free and retrofit.





Fields of application:

Cube ice-, crush ice-, flake ice- and scale ice machines

UV-ICEZONE reactors inhibit the growth of mould, biofilms and other contamination.

With UV-ICEZONE your device will achieve a very high level of cleanliness and it will keep it free from harmful contamination for a long period of time. Cost-intensive cleaning intervals can be considerably extended.

For the trouble-free operation of your ice maker, fermentation cells, etc. you should set highest standard regarding the air quality which flows over all internal surfaces and through air-conveying rooms. Interior spaces which are heavily contaminated by the user with a continuously increasing number of multi-resistant germs contaminates the air and surfaces.

Subsequently, there will be a very high germination rate in your devices within shortest time and a hazardous biofilm of mould and fungi spores will develop on all surfaces.

Features:

- Compact design
- Can be integrated into your device
- Can be mounted externally
- Easy retrofitting
- Delivery as complete kit including connection kit
- CE sign (NSF, UL, RoHS)
- HACCP-compliant

UV-ICEZONE	IceZONE X-10
Item No.	A007868
Power consumption (W)	9.6
Voltage (V)	100-240
Power supply unit (V)	12
Length of the connection cable (m)	2
Dimensions (LxWxH, mm)	302x108x31
Recommended lamp replacement/ lamp lifetime (h)	12,000
Spare lamp/ Item No.	A007869



Cool storage cells :: Deep-freeze storage cells ::

*for cold and deep-freeze storage
chambers a cost efficient and effective
solution for optimum product quality*



UV-REFLEX

- Germs in the ambient air are eliminated by **up to 99.9%** and the germ load on surfaces is also drastically reduced
- High reduction of spoiling germs considerably **extends the shelf life** of your stored goods
- **Simple installation** does not require any special knowledge (Plug & Play)
- **Constant reduction of biofilm formation** reduces the necessary expenditure for daily hygiene





Fields of application:

The **UV-REFLEX-SC/B-NX** was specially developed to disinfect the ambient air in cool stores. The air is decontaminated by irradiation with ultraviolet light. The low microbiological contaminated air generated provides excellent conditions for the storage of meat, fish, dairy products, fruits and vegetables of any kind as well as other easily spoiled refrigerated products. Due to the continuous circulation of the air over the UVC radiator the germ content is continuously reduced and the shelf life of the products extended.

Over time there are high **invisible germ loads** (e.g. listeria or black mould) in your cooled or air-conditioned storage rooms. This contamination will be transported to your product via the air.

This germ transmission creates a high risk to your production and causes product spoilage and considerably reduces minimum shelf life.

Features:

- Selectable size, cascable
- Deflection grid irradiation guidance
- Stainless steel housing
- Electronic ballast
- All components are UV-C stable
- Easy installation
- CE sign (LVD, EMC, MD, RoHS)
- Can be delivered to be
- HACCP compliant

UV-REFLEX	E40H-SC/B-NX	E75H-SC/B-NX
Item No.	A003528	A003508
Power consumption (W)	40	75
Voltage (V)	230	230
Protection class	IP55	IP55
Length of the connection cable (m)	2.5	2.5
Dimensions (LxWxH, mm)	530 x 118 x 120	986 x 118 x 120
Recommended room volume (m³)	20...30	45...66
Recommended floor area (m²)	7...10	15...22
Recommended lamp replacement after (h)	9,000	9,000
Spare lamp/ Item No.	1 x A003389	1 x A003926



Cool and deep-freezing storage cells :: Climatic cells ::

Continuously avoids the formation of bio-film on the evaporator and any germ transmission and reduces energy consumption.



UV-STYLO-RP

- Continuous disinfection of the cold evaporator saves energy costs of **up to 20 %**.
- No **more cleaning and disinfection costs** accrued.
- Constantly **controls** the formation of **mould, germ and biofilm** formation by up to **99.9 %**.
- **Simple installation** by your refrigeration engineer



:: MOULD – BACTERIA UV-STYLO-RP

www.uv-fresh.de

Fields of application:

The UV-STYLO-RP can be used on all cold and combined evaporators, which can be difficult to access. UV-STYLO is very compact, with a diameter of only 29mm and is available in different lengths.

The protection class IP 68 allows it to be installed in aggressive or wet environments. In the unlikely case of lamp breakage, no glass fragments can escape thanks to the patented “UVLON” splinter protection. In order to attain a better disinfection level, it is possible to combine several units. Spring steel brackets are used in order to install the UV-STYLO-RP. The electrical ballast is mounted outside the cell or cabinet and controlled by the fan control.

A recurring problem in the cold storage cells, combined cells or also in climatic chambers for cream, is the clogging of the piping by the melted water from the cold evaporator. Over time, the cold evaporator will become clogged with a biofilm of aerosols and dust. After each defrosting operation, the biomass will gather in the piping. Consequently the heavily contaminated air will be conveyed by the fan into the cooling unit and colonise on the dough blanks.

Features:

- 5 selectable lengths
- Easy installation
- External control module (Master)
- CE sign (LVD, EMC, MD, RoHS)
- HACCP-compliant

UV-STYLO-RP	11	16	40H	60H	90H
Item No.	A007787	A007788	A007789	A007790	A007791
Power consumption (W)	11	16	35	60	90
Voltage (V)	230	230	230	230	230
Protection class	IP68	IP68	IP68	IP68	IP68
Length of the cable (m)	2	2	2	2	2
Evaporator width (mm)	300	400	500	700	1000
Lamp lifetime (h)	9,000	9,000	9,000	9,000	9,000
Spare lamp/ Item No.	A007863	A007864	A007865	A007866	A007867



Refrigerated counters with circulated cooling ::

Reduces the risk of germ contamination, listeria or black mould in refrigerated or food counters.



UV-STYLO-F

- Any germs on the displayed products are reduced by **up to 99.9%** .
- **Due to this low germ load the shelf life of the products are extended up to 30%.**
- **Simple installation** can be quickly performed by a refrigeration engineer.
- The **reliable reduction of biofilm formation** reduces the expenditure for daily hygiene



:: MOULD – BACTERIA UV-STYLO-F

www.uv-fresh.de



Fields of application:

Chemical and ozone-free air disinfection with simultaneous reduction of biofilm on the cold evaporator.

Due to structural restrictions, it is not normally possible to ensure continuous air circulation in your refrigerated and sales counters. Due to this, the risk of mould spores and formation of a biofilm in your counters are greatly increased. Cleaning costs will be high; employee health problems, general hygiene issues and early spoiling of goods are therefore issues of concern.

This compact UVC radiator is used in perishable food display cabinets to disinfect the ambient air and avoid cross contamination. It is often necessary to remove displayed food once it doesn't appear fresh, its colour changes and it ages prematurely. The cause for this rapid spoilage can be traced back to germs (microorganisms such as bacteria, moulds, spores and others), which are transferred through air surrounding the food within these displays. The UV-PIPE is installed in the cooling channel or in the refrigerated counter and direct UV visual contact with the public is prevented.

Features:

- 7 selectable UV - C lamp lengths
- Easy to install
- Can be operated via a 220 V outlet
- External control board with electronic ballasts
- CE sign (LVD, EMC, MD, RoHS)
- Can be delivered HACCP compliant

UV-STYLO-F	F-11	F-16	F-40H	F-60H	F-75	F-90H	F-120H
Item No.	A00560	A005865	A005866	A005867	A004282	A005868	A005869
Power consumption (W)	11	16	35	60	75	85	100
Voltage (V)	230	230	230	230	230	230	230
Protection class	IP68	IP68	IP68	IP68	IP68	IP68	IP68
Connection cable (m)	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Illuminated length (mm)	161	261	353	475	1473	811	1069
Total length (mm)	229	305	433	580	1541	891	1171
Lamp lifetime (h)	9,000	9,000	9,000	9,000	9,000	9,000	9,000
Spare lamp/ Item No.	A007850	A006199	A007851	A007853	A004283	A005976	A007855



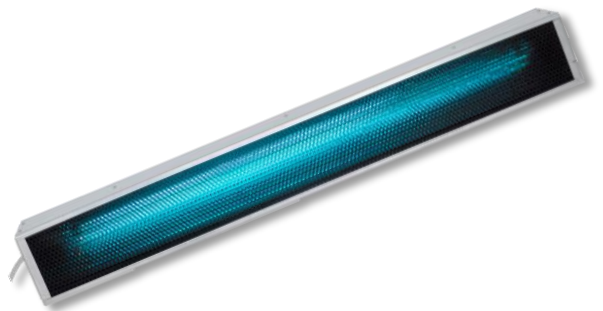
Hygiene lock :: Areas without ventilation ::

*Continuously reduces the risk of
infestation of black mould in all areas,
if no ventilation is available.*



UV-FLOW

- The germ load in the ambient air will be reduced by **up to 99.9%** .
- The **shelf life** of stocked goods can be considerably **extended**
- The transmission of germs will be drastically reduced
- **Simple installation**
- Reliably **avoids** the new formation of **black mould**.





Fields of application:

The UV-FLOW is utilised in storage rooms, air locks, offices, and recreation rooms, where a high germ content may continuously be created by staff or movement of goods. It is mounted indoors above 2.2 m in order to continuously ensure the total germ content of bacteria, spores, moulds and viruses remain at very low levels in the presence of people.

Due to the clever upward irradiation guidance (radiation zone) any UV health hazard is excluded. The natural convection of the air ensures that the loaded ambient air is continuously directed into the radiation area of the lamp, where the air is continuously disinfected.

If it is not possible to ensure the aeration and ventilation due to structural restrictions, the risk of infestation with black mould will massively increase. Employee Health problems and general hygiene issues in these areas are the consequence.

Features:

- 2 selectable sizes
- Cascadable relative to room size
- Deflection grid (irradiation guidance)
- Electronic ballast
- Stainless steel housing
- All components are UV - C stable
- Easy to install
- CE sign (LVD, EMC, MD, RoHS)
- Can be delivered HACCP compliant

UV-FLOW-C-NX	E/40H-C-NX	E/75H-C-NX
Item No.	A002834	A003088
Power consumption (W)	40	75
Voltage (V)	230	230
Protection class	IP55	IP55
Length of the connection cable (m)	2.5	2.5
Dimensions (LxWxH, mm)	530 x 109 x 151	986 x 109 x 151
Recommended room volume (m ³)	From 20 to 25	From 35 to 50
Recommended floor area (m ²)	From 6 to 8	From 12 to 15
Recommended lamp replacement (h)	9,000	9,000
Spare lamp/ Item No.	A003389	A003926



Storage rooms ::
Restrooms ::
Patient rooms ::

*For better air quality uncontaminated
with germs, viruses and odours.*



UV-FAN

- Germs in the ambient air will be continuously reduced by **up to 99.9%**
- Unpleasant organic odours will be converted into oxygen by the integrated TIOX filter
- Strong reduction of germ load will **considerably extend the shelf life** of your goods
- **Simple installation** doesn't require any special knowledge (Plug and Play)
- The UV-FAN is designed for **24h operation**, in the presence of people.



:: MOULD – BACTERIA UV-FAN Series

www.uv-fresh.de



Fields of application:

Chemical and ozone-free air disinfection with simultaneous reduction of odours.

The UV-FAN is designed to be used in rooms in which people are present and can be used in continuous operation (24h). The UV FAN is also equipped with a TIOX filter (TiO₂ - photocatalyst) to reduce odours. Unpleasant odours caused by humans and organic compounds are reduced. The treated air will simultaneously be enriched with oxygen.

The continuous disinfection of the air is an important function to avoid the formation of mould and other pathogenic agents. If it is not possible to ensure the aeration and ventilation due to structural restrictions, the risk of infestation with black mould will massively increase. Employee Health problems and general hygiene issues in these areas are the consequence.

Features:

- Selectable lamp output adapted to the room size
- Aluminium housing powder-coated
- All components are UV - C stable
- Low installation effort
- Can be operated on a 220 V outlet
- Optical monitoring
- Optional mobile base frame (M2/95-HP-ST)
- Optional additional outdoor spotlight (M2/95-HP-BD-ST)
- Available with remote control
- CE sign (LVD, EMC, MD, RoHS)
- Equipped HACCP compliant

UV-FAN	M1/40H	M2/40H	M2/95-HP	M2/95-HP-ST	M2/95-HP-BD	M2/95-HP-BD-ST
Item No.	A002811	A003090	A002820	A002821	A002822	A002823
Electrical power (W)	70	110	220	220	315	315
Voltage (V)	230	230	230	230	230	230
Connection cable (m)	2.5	2.5	2.5	2.5	2.5	2.5
Dimensions (LxWxH, cm)	95x26x13	95x26x13	104x32x13	123x32x13	104x40x13	123x40x13
Air flow (m³/h)	70	70	150	150	150	150
Floor area (m²)	15	15	40	40	40	40
Room volume (m³)	40	40	100	100	100	100
Lamp lifetime (h)	9,000	9,000	9,000	9,000	9,000	9,000
Spare lamp	(internal) / Item No.	1 x A003389	2 x A003389	2 x A003926	2 x A003926	2 x A003926
	(external BD) / Item No.	-	-	-	1 x A007860	1 x A007860



Kitchen hoods :: Exhaust air loaded ducts ::

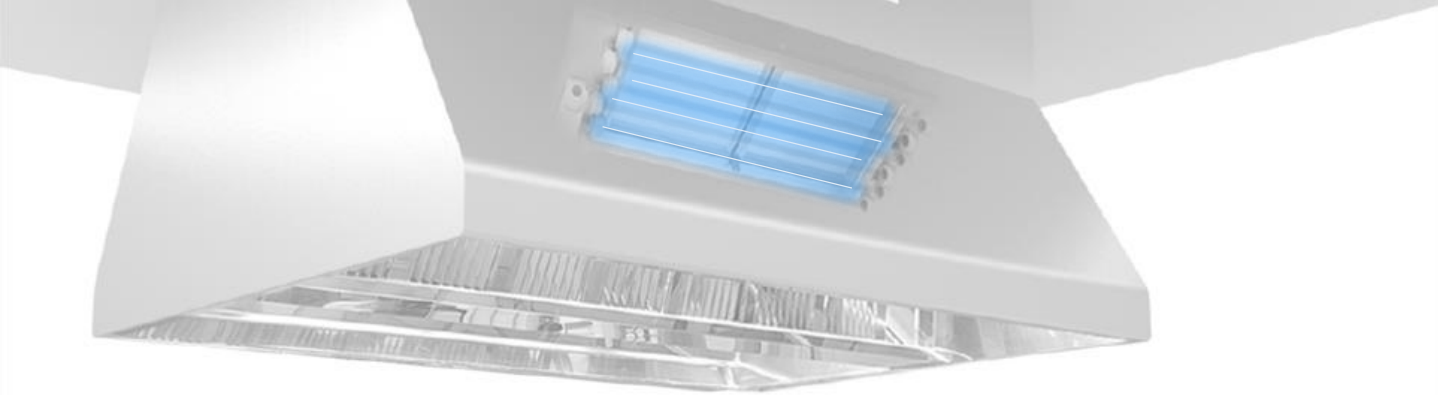
*Significantly reduces odours.
Reduces fat deposits and any
consequential fire hazard.*



UV-SMELL-SQ

- Frying or roasting odours will be reduced by **up to 90 %**.
- Compliance with Authority Regulations.
- Significant reduction of fat deposits **extends the cleaning intervals** of the plant **by about factor 3**
- **Simple installation** quickly performed by ventilation technicians
- Constant **reduction of greasy film formation** greatly reduces expenditure to maintain daily hygiene.





Fields of application:

The “UV-SMELL” is used in kitchens, where it is all about reducing fat deposits and odours. It is installed in extractor hoods or in ventilation ducts and can also work in combination with filters. The “UV-SMELL” is resistant against fats and oils and can also be used at high temperatures. The device works with specially designed UV lamps which also generate ozone in addition to the UV-C disinfection effect. Ozone has the property of splitting fats and eliminating odours.

As an option nanostructured titanium dioxide (TiO2) filters can be installed. This is an extraordinary catalyst in combination with the powerful UVC light which splits pollutants, organic and inorganic compounds (e.g. NOx and VOC).

“UV-SMELL” reduces fats and odours in the exhaust air already present during cooking; this results in a considerably lower formation of fat deposits in the exhaust air ducts. The risks of resulting duct fires are considerably reduced. Any potential growth of moulds will also be reduced. The development of unpleasant odours will be reduced and the time intervals for cleaning of the exhaust air ducts will be increased.

Features:

- 6 selectable module sizes
- Low assembly effort
- Can be operated at 220 V
- Stainless steel
- External control module (master)
- CE sign (LVD, EMC, MD, RoHS)
- Can be delivered HACCP compliant



UV-SMELL-SQ ozonegenerating	4/40H-OZ	4/90H-OZ	4/120H-OZ	6/40H-OZ	6/90H-OZ	6/120H-OZ
Item No.	A006892	A006893	A006894	A006895	A006896	A006897
Power consumption (W)	160	320	400	240	480	600
Voltage (V)	230	230	230	230	230	230
Dimensions of the module (LxWxH, mm)	594x253 x175	1,052x253 x175	1,332x253 x175	594x358 x175	1,052x358 x175	1,332x358 x175
Protection class	IP55	IP55	IP55	IP55	IP55	IP55
Max. air flow (m³/h)	1,000	2,400	3,200	1,600	3,600	4,800
Connection cable (m)	3	3	3	3	3	3
Dimensions of the control board (LxWxH, mm)	314x394 x128	314x394 x128	314x394 x128	314x394 x128	314x394 x128	314x394 x128
Lamp lifetime (h)	6,000	6,000	6,000	6,000	6,000	6,000
Spare lamp/ Item No.	A006325	A006113	A007849	A006325	A006113	A007849

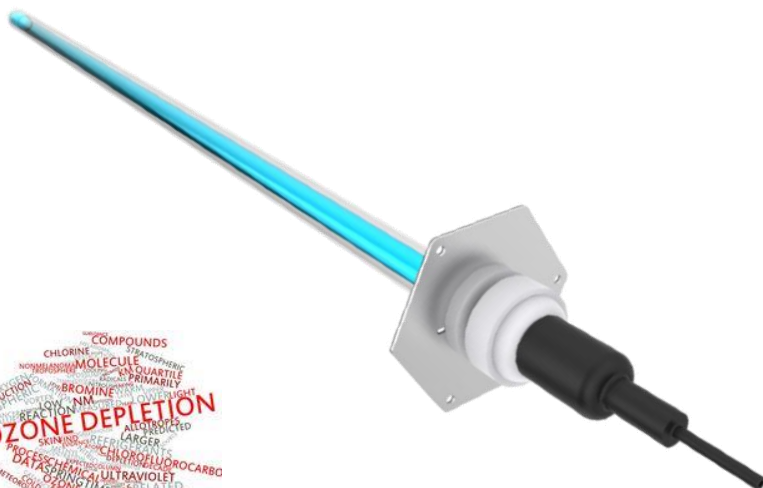


***Significantly reduces odours.
Reduces fat deposits and any
consequential fire hazard.***

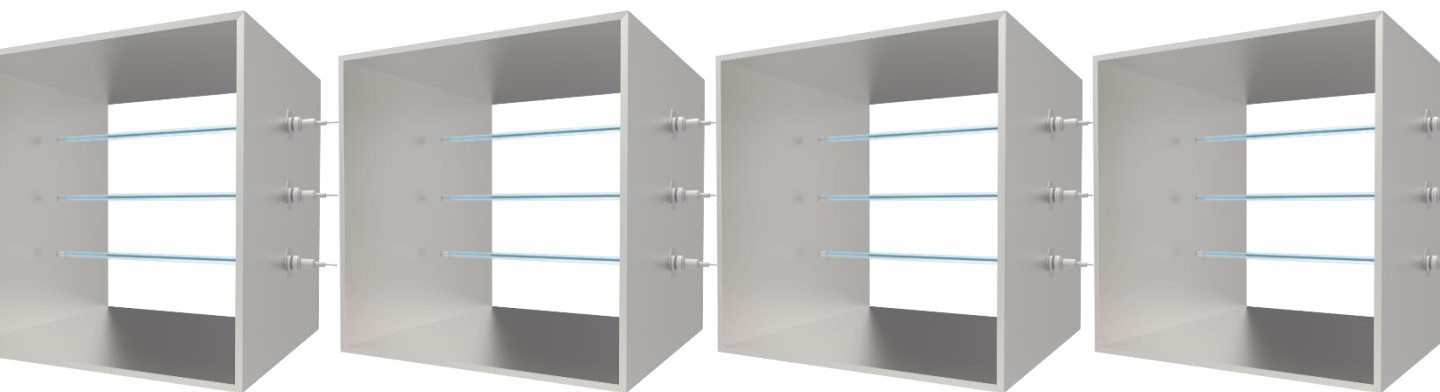


UV-STYLO-S

- Frying or roasting odours will be reduced by **up to 90 %**.
- Compliance with Authority Regulations.
- Significant reduction of fat deposits **extends the cleaning intervals** of the plant **by about factor 3**
- **Simple installation** quickly performed by ventilation technicians
- Constant **reduction of greasy film formation greatly** reduces expenditure to maintain daily hygiene.



:: FAT - DEPOSITS UV-STYLO-S



Fields of application:

The “UV-STYLO-S” is used in kitchens, where it is all about reducing fat deposits and odours.

It is installed in exhaust duct systems and can also work in combination with “UV-SMELL”. The “UV-STYLO-S” is resistant against fats and oils and can also be used at high temperatures. The device works with specially designed UV lamps which generate ozone in addition to the UV-C disinfection effect. Ozone has the property of splitting fats and eliminating odours.

“UV-STYLO-S” reduces fats and odours in the exhaust air already present during cooking; this results in a considerably lower formation of fat deposits in the exhaust air ducts. The risks of resulting duct fires are considerably reduced. Any potential growth of moulds will also be reduced. The development of unpleasant odours will be reduced and the time intervals for cleaning of the exhaust air ducts will be increased.

Features:

- High output lamps (up to 600mc/h air, for each lamp)
- Saving service and maintenance costs.
- Effective action, both with UV-C or UV-C+O3 lamps, alternatively.
- you can apply this device on already existing systems (**retrofit**).
- Powered by electronic ballasts need control board
- (CE Mark (LVD 73/23, EMC 89/336, MD 93/42, RoHS).

UV-STYLO-S	11	16	40H(Oz)	60H(Oz)	90H(Oz)	120H
Average lifetime lamp (hours)	9,000	9,000	9,000 (6,000)	9,000	9,000 (6,000)	9,000
Consumption (W)	11	16	35	60	85	100
Lamp Dimensions (mm)	196	272	397	541	851	1,132
Weight (kg)	0.20	0.30	0.70	0.75	0.80	1.00



CHEMICAL-FREE ::
COST-EFFICIENT ::
ENVIRONMENTALLY FRIENDLY ::



uv-fresh® is a brand of the company: Specialized trading partner:

uv-technik meyer gmbh

Glauburgstraße 34

63683 Ortenberg

Germany

phone +49 6041 962 80

fax +49 6041 505 77

info@uv-fresh.com

www.uv-fresh.de

