Regular maintenance and inspection

All *I-trap 150EX LED* units, cable, conduit and other associated systems which make up an installation must be maintained in such a way to ensure the integrity of the protection it was designed to have.

BS5345 makes particular reference to this subject, recommending initial and periodic inspections, with suitable recording of data.

Certification and declaration

All I-trap systems comply with the EU-directive on machine safety. The unit and spare part components are in full compliance with the CE directive and the WEEE / RoHS directives.
The EC declaration of conformity is listed below:

EC declaration of conformity

We, **Alcochem Hygiene**
www.alcochem.com / www.insect-trap.net

Declare, under our responsibility that the product marketed under the name:
i-trap 150EX LED comply with the following standards:

Number and date of standard:	***Directive description:***
EN 60079	Classification of areas where flammable gas or vapour hazards may arise and may then be used as a basis to support the proper selection and installation of equipment for use in hazardous areas.
EN 60079-0: 2012	Explosive atmospheres - Part 0 : General requirements
EN 60079-5: 2007	Explosive atmospheres - Part 5
EN 60079-7: 2007	Explosive atmospheres - Part 7 : Protection increased safety “e”
EN 60079-18: 2009	Explosive atmospheres - Part 18 : Equipment protection “m”
EN 60079-31: 2009	Explosive atmospheres - Part 31 : Dust ignition protection “t”

Place : Nijkerk, The Netherlands

Date : January 2026
Authorized Person: Mr. R van Lierop,
director Alcochem Hygiene

Signature (electronic)

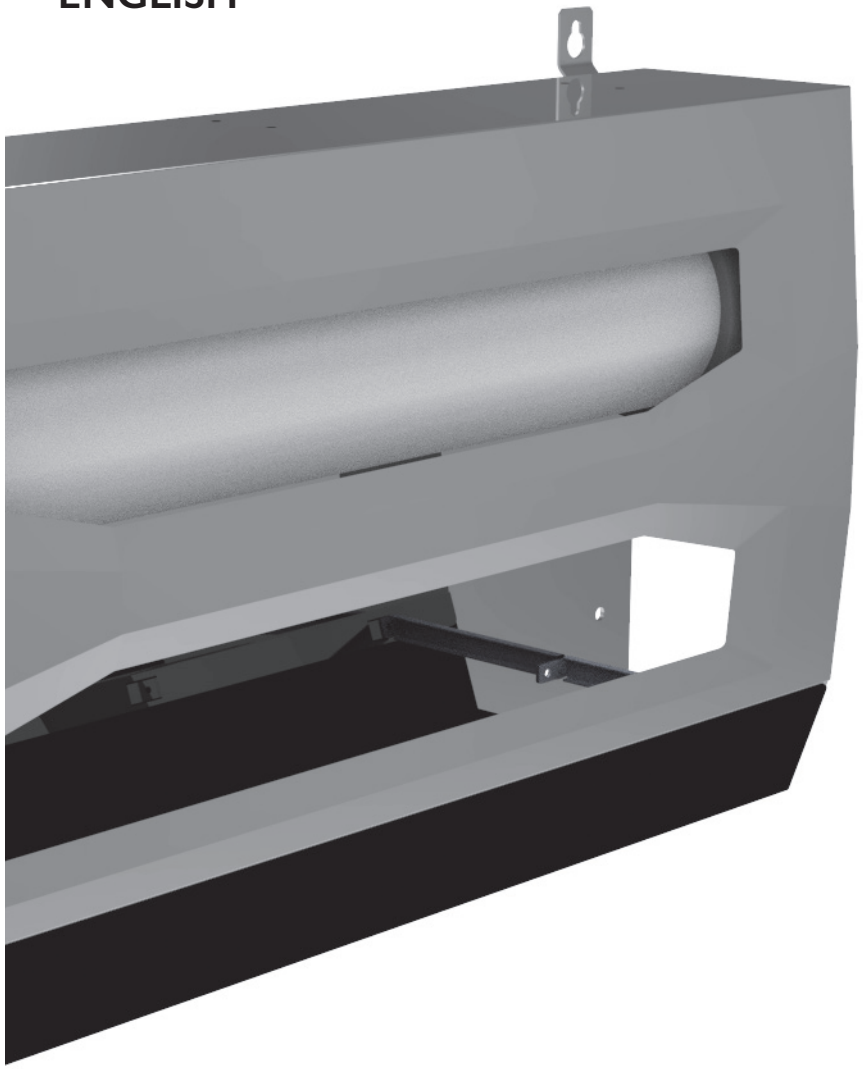


Alcochem Hygiene
NL Head office
Zeilmaker 4
3861 SM Nijkerk
The Netherlands

Phone +31 (0)33 299 4139
hygiene@alcochem.com
www.insect-trap.net

Article number of assembled unit: 2.05.0905

ENGLISH



I-TRAP 150EX LED

Suitable for: *Ex e mb q IIC T4 Gb,*
Ex tb IIIC T85 °C Db or Ex de q IIC T4 Gb,
Ex tb IIIC T85 °C Db IP6X -20 °C < Ta < +55 °C

Instruction manual
insect control unit

ALCOCHEM HYGIENE

About the i-trap 150EX LED

The information in this service manual is based on the latest information, and is provided subject to alteration. We reserve the right to change the construction and/or configuration of the unit at any time without obligation to modify earlier versions.

Please read this Manual carefully before taking any action with regard to your i-trap 150EX LED.

Congratulations on the purchase of this high quality electric insect-trap. Before using this unit we ask you to read this manual carefully. If you have questions afterwards feel free to contact your local supplier.

If you have any questions afterwards please contact
Alcochem Hygiene, *see www.insect-trap.net* for details.

FOR TRANSPORT STABILITY, THE LAMPHOLDER IS SECURED TO THE HOUSING OF THE I-TRAP 150EX LED. THE LAMPHOLDER MUST BE UNSCREWED BEFORE INSTALLATION.

Store this manual carefully for future reference.

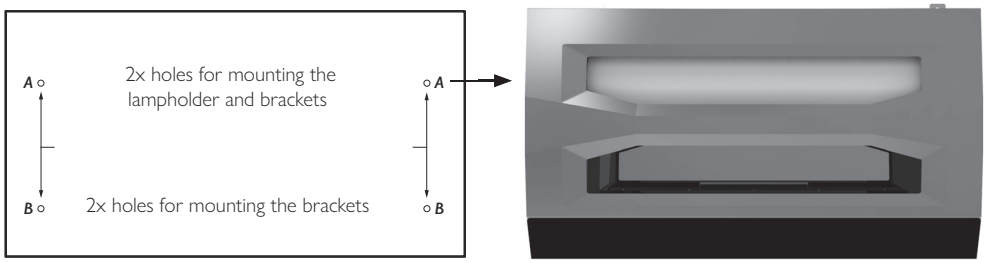
Safety

When using any electrical equipment, basic precautions to reduce the risk of fire, electric shock and personal injury must always be followed including, but not limited to, the following:

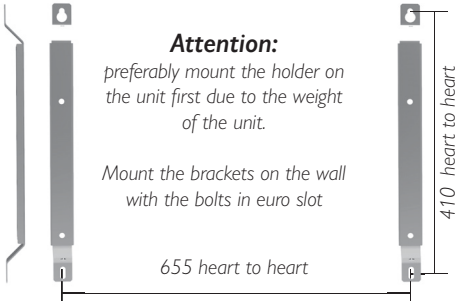
- Read this manual carefully before commencing to install the *I-trap 150EX LED* unit and retain it for future reference.
- Check the rating label to ensure that the *I-trap 150EX LED* unit is suitable for the supply provided.
- The *I-trap 150EX LED* unit must be installed in accordance with the recognised code of practice e.g. EN 60079.
- High voltage insulation testing may be carried out, but the test voltage must not exceed 300V DC
- Consider work area environment. Keep work area clean and well lit.
- The I-trap should be connected to the mains (110-277 V ~ 50-60 Hz, unless otherwise specified)
- Do not use power tools in the presence of flammable materials.
- Do not abuse cable. Keep it away from heat, oil and sharp edges.
- Maintain the *I-trap 150EX LED* insect control system with care. Keep the unit clean for better and safer performance. Follow instructions for changing accessories & maintenance.
- Disconnect mains, when not in use, before servicing, and when changing accessories or components.
- Make a habit of checking to see that wrenches and adjusting service tools are removed from the *I-trap 150EX LED* insect control system before turning it on.
- The use of any accessory or attachment other than recommended in these operating instructions or the catalogue may present a risk of personal injury.
- The fly control system complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare-parts, otherwise this may result in considerable danger to the user.
- Use a safe mains connector with proper ground.
- Wiring in the fly control system meets safety standard EN 60355 and the ultraviolet light emitted by the unit is harmless to people and animals.

Note: *Only use lamps and spare parts from Alcochem Hygiene for service and maintenance.*

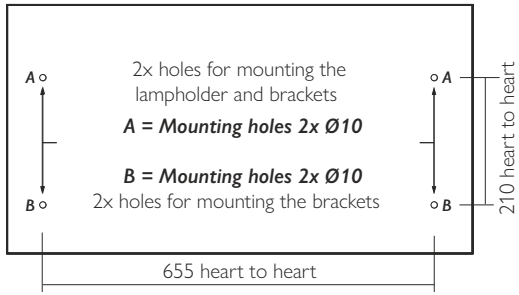
4. Mounting position of the lampholder(A)



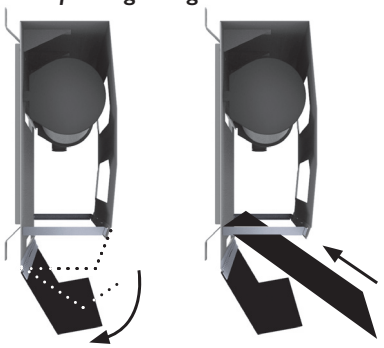
5. Mounting unit on wall with Brackets



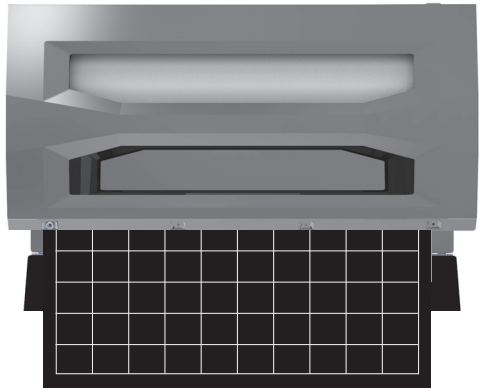
Mounting positions on the unit (A+B)



6. Replacing the glueboard



opening the black bottom part to insert the glueboard



7. Replacing lamps

See pt. 2 of this manual (same method as placing the lamps)

Replace the lamps if they are defective or if fewer insects are attracted:
After approx. 25,000 burning hours (36 months continuous operation): the decrease is approx. 25%. *The lamps should in any case be replaced after 25,000 burning hours.*

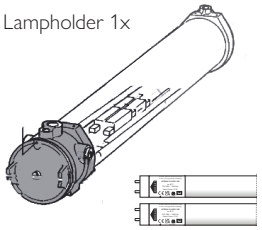
Use only genuine ASTRON LED lamps, high intensity insect trapping lamps to replace the original lamps. Details of these lamps are available via the local dealer.

Contents of this package



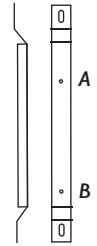
150 EX LED unit

Lampholder 1x

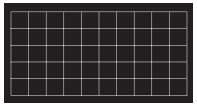


ASTRON LED lamps 18W 2x

Brackets 2x



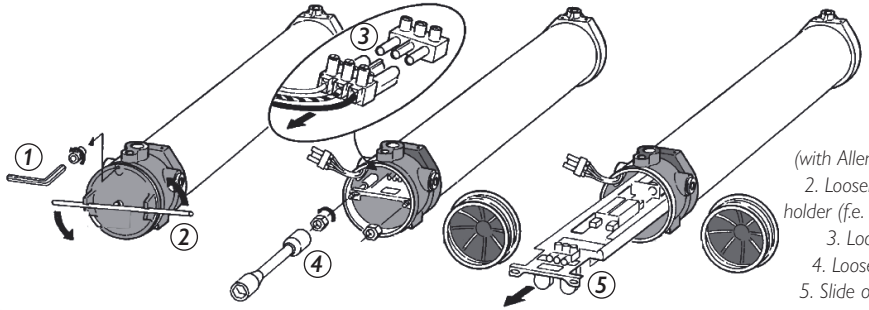
Glueboard 1x



Bolts and Nuts:
brackets
lampholder *(2xA)*
(2xB)

Prepare the mounting positions for brackets before building up the unit parts.
Depending on the wall structure you can use only the top holes to mount the unit on the wall. Otherwise use both the mounting positions of the brackets. Place the bolts (on top) for the euro slots already in position.

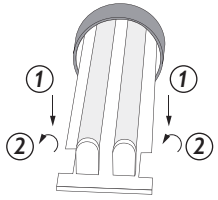
1. Opening the EX lampholder (placing/replacing the lamps)



1. Loosen nut (with Allen key, not included)
2. Loosen (rotate) cap from holder (f.e. with a screwdriver)
3. Loosen terminal block
4. Loosen bolt from holder
5. Slide out the lamp holder

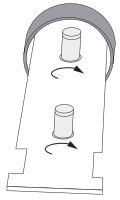
2. Placing/replacing the lamps into the EX lampholder

Place LED lamps in holders.



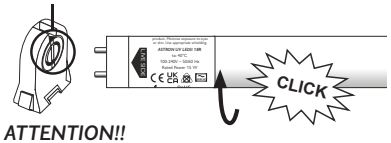
Top side inside lamp holder

Place LED starters in holders.

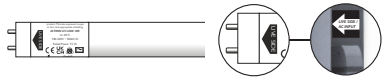


Bottom side inside lamp holder

LIVE SIDE of LED lamps

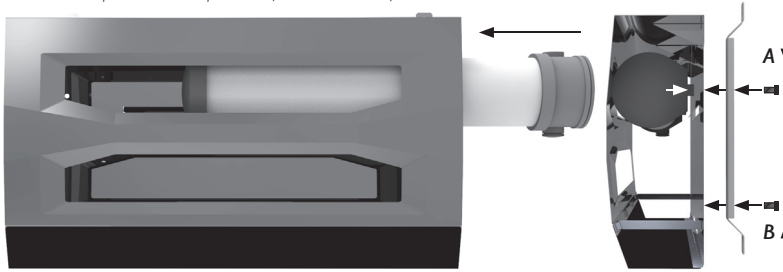


ATTENTION!!
Place the LIVE SIDE (AC input) of the lamp into the LIVE SIDE (AC input) lampholder



3. Mount the lampholder + Brackets (A) before positioning the complete unit on the wall.

Slide the lamp holder into position from the side of the unit



Secure the lamp holder + brackets to the unit using the bolts supplied in the packaging.
Mount:
Lampholder + bracket in position A. *(top)*

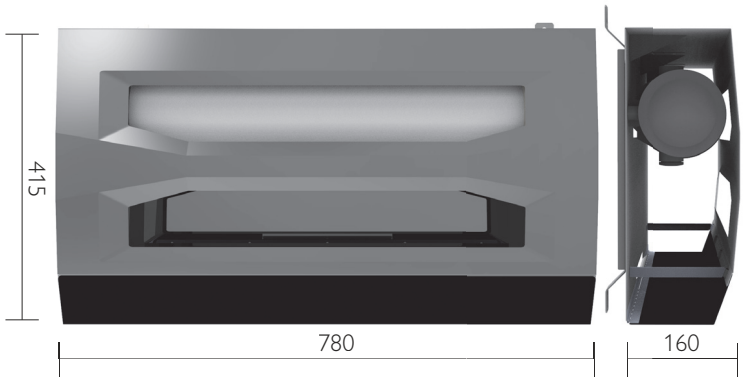
Mount the bracket in position B. *(bottom)*

Technical data

Technical name	:	*i-trap 150EX LED* insect control system
Attraction grid	:	optimises landing behaviour of flying insects for 30% efficiency increase
Area coverage (m^2)	:	100 - 150 m^2
Light source (W) (UV-A)	:	2x 15 Watt ASTRON UV LED II 18R lamps
Type of UV lamps	:	UV LED
Electrical supply (V)	:	110-277 V ~ 50-60 Hz
Catch specifications	:	by means of long life RoHS compliant glueboard
Power consumption	:	30 W
Weight	:	12.5 Kg
Material	:	0,8 mm SS 304 (Brushed steel)
Protection	:	Borosilicate glass + Plastic shatterproof LED lamp
Degree of protection (IP)	:	IP67, IEC/EN 60529 with 95% UV-A transparency
Suitable for	:	II 2 G Ex d IIB T6…T5 Gb II 2 G Ex d IIC T6…T5 Gb II 2 D Ex tb IIIC T58…T93°C Db
Perm. ambient temperature	:	-20 °C to +55 °C
Quality standard	:	ISO 9001 approval
Guarantee	:	2 years return to base
Int. building norm	:	acc. IEC-355-259 int. standard for insect exterminators
Lamp life time (h)	:	25,000 Hrs*
Dimensions (L x D x H)	:	780 x 415 x 160 mm
CE-approval	:	Yes
Mounting position	:	wall mounted
Cable glands	:	2xM25x1,5 or 2x3/4"NPT one with blanking plug
Certificate	:	LOM 02ATEX2013X
Packaging	:	neutral cardboard box
Service	:	unit can be dismantled without special tools

(*) After 25,000 hours of use, the LED lamp still offers 75% of its initial UV-A output value

Dimensional drawing i-trap 150EX LED



Note: *The cable glands used should comply with the requirements of the Code of Practice for increased safety (type 'LED') installations. They should maintain at least IP67 protection and have an impact strength of 7 Nm.*

Warning

Any faults to earth within the *I-trap 150EX LED* units may result in permanent damage to the electronic control unit. This possibility can be avoided by shorting the live and neutral cables together and applying the test voltage between this connection and earth.

1 The *I-trap 150EX LED* unit must be earthed

2 The operating temperature range for the *I-trap 150EX LED* unit is shown on the rating label. The *I-trap 150EX LED* unit should not be used outside these temperatures.

3 If the *I-trap 150EX LED* unit is to be installed in areas of high vibration, please consult the manufacturer.

4 Under no circumstances should a *I-trap 150EX LED* unit be opened, even when isolated, when an explosive gas or dust environment is present.

5 Do not use excessive force on plastic components.

6 The *I-trap 150EX LED* unit is designed and constructed to:.
Zones 1, 2 in accordance with IEC/EN 60079-10-1 *and in*
Zones 21,22 in acordance with IEC/EN 60079-10-2

7 Drawings & design are subject to alteration without notice. All products are sold subject to our conditions of sale, copies of which are available on request.

8 Important. Isolate the *I-trap 150EX LED* unit from both switched and unswitched mains supplies before carrying out any maintenance work.

9 It is essential that all *I-trap 150EX LED* units together with their associated cables, glands, etc. which make up the installation are maintained in such a manner as to ensure the integrity of the protection to which it is designed.

10 The frequency of inspection must be determined by the user, but should be regular enough to ensure that the *I-trap 150EX LED* unit installation continues to operate in the designed manner. The more onerous the operating conditions, the more frequent the inspections should be. It is recommended that the interval between inspections should not exceed once every year during the lamp replacement procedure.

11 Plastic components may be cleaned with water containing a small amount of a soapy detergent, followed by a clean water wash.
Surplus water can be wiped off plastic components, but they should not be wiped or polished with a dry cloth to avoid a build-up of static electricity.

Note: *We reserve the right to change characteristics of our products. All data are for guidance only.*

Always leave repairs (other than cleaning, glueboard replacement or replacing the lamp) to your dealer/ distributor. The light from the ultraviolet lamps is harmless to people and animals even after prolonged exposure.

In case of replacement of the lamps or other components:
Only use genuine spare-parts for service and maintenance

All components that are replaced must be in accordance with the manufacturer's specification. Failure to use such components invalidates the certification, approval and warranty of the *I-trap 150EX LED* unit and may make it dangerous. No modification should be made to the *I-trap 150EX LED* unit without the knowledge and approval of the manufacturer. *If in doubt, refer to the manufacturer.*

Receipt of equipment

While unpacking, check for any signs of shipment damage and, if found, notify both transporter and supplier in writing within 8 days of receipt with full details of the damage that has occurred and retain the equipment and packing materials for inspection.

- Check that all parts have been received as ordered.
- Make sure that all packaging is removed from the unit before use.

Installation

To achieve maximum effectiveness, the following installation notes must be followed:
- Choose a place where the unit can be reached and cleaned easily.
- Avoid obstacles, which limit the possibility for the insects to reach the apparatus.
- Avoid draught by fans or air shafts and avoid direct sunlight.
- Use good quality mounting material.
- Use a safe mains connector with ground.

Note: *Fly control systems may never be hung directly above uncovered food, beverages, medicines or pharmaceutical products.*

- Do not attempt installation until you are familiar with all warnings, precautions and procedures within this instruction manual.
- Do not over tighten fasteners into plastic parts.
- Ensure that the mains cable connectors are correctly secured to the terminal block(s).
- Only one conductor should be fitted to each terminal block. All terminal screws should be fully tightened whether a conductor is fitted or not.
- Blanking plugs and cable glands must be of the correct type and must be fitted to the manufacturer's specification to ensure that the seals prevent the ingress of moisture or dust and so maintain the *I-trap 150EX LED* unit's IP rating.

Installation & maintenance of the unit

Wiring
The *I-trap 150EX LED* unit is pre-wired for maintained (normally on) operation. The Live supply from the mains should is connected to the terminal marked 'L'

Earth is connected to the terminal marked 'E' and Neutral is connected to the terminal marked 'N'. After the installation work has been carried out make sure that you close the lamp housing by placing the clamp. (opening and closing of the housing triggers the interlock switch that diconnects the power, when opened)