SYNERGETIC®

LEADING INNOVATIVE FLYING INSECT CONTROL

CONTENTS

SYNERGETIC®

Bringing leading flying insect control to the North American market, Synergetic® offers innovative, patented product solutions backed by expert technical support.

Building on the heritage of P+L Systems quality, Synergetic® is proud to bring leading product flylights to the USA, Canada and Caribbean.

The Synergetic® brand offers flylights for front-of-house areas, food manufacturing, storage areas and backrooms and commercial food preparation areas, covering a wide range of applications for every conceivable flying insect control scenario.

For advice on Synergetic® flylights and accessories please call our technical sales team toll free on (877) 928-2847 or email customercare.na@pandlsystems.com

Alternatively visit www.synergetic-flylights.com to keep up with the latest flying insect control news!

P+L Systems®

Synergetic® became part of the P+L Systems Group in 2009. P+L Systems delivers a range of brands to the facilities management industry, offering our global customer base a wide range of products to support their FM needs. P+L Systems develops leading brands for specialist commercial markets, including flying insect control, bird control, washroom hygiene solutions and wider professional and retail pest control products.

Leading brands - Our reputation is built on leading brand heritage, developed with extensive knowledge of our markets and supported by experts in each field. Each of our brands is built on a reputation of high quality products and support services. We continually work to develop our brands to support our customers needs throughout the world.

Leading products - Customer insight is at the heart of our product innovation program, allowing us to develop world class products designed with serviceability, design and quality in mind. Our close working relationships with customers are key to our product development ethos, giving us insight into their needs and focusing on solutions based innovation.

To find out more about the P+L Systems Group and our brands, please visit
www.pandlsystems.com

"We have a strong focus on innovation and development, allowing us to offer our customers world leading, patented products"

INNOVATION AND PRODUCT DEVELOPMENT

- Leading patented technologies developed through a consistent new product development program

- Offering reduced installation and service times and improved results

- New products are developed with worldwide legislative and efficacy test houses

EFFICACY TESTING

- Tried and tested product solutions

- Efficacy assessments carried out by independent test houses and at our in-house R+D facility

- Testing and approvals from leading industry and government bodies

- Material and component testing

COMPREHENSIVE RANGE OFFER

- A comprehensive range, designed for pest management professionals

- Complete insect control range offers a choice of electric grid, glueboard and decorative units ideal for commercial, industrial and front-of-house areas
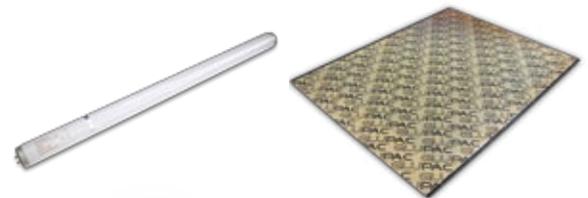
TECHNICAL SUPPORT

- Specialised technical teams with extensive industry experience

- Support available in over 12 languages

- Advice and support on product selection and installation

- Guidance on project quotations

- Training support packages

POSITIONING A FLYLIGHT

Every application is unique, so each situation requires an individual assessment for flylight positioning, however, there are basic principals that should be followed

- Recommend enough units to cover the area to be protected

- Install units away from sources of light competition, such as windows, doors and high powered artificial light sources

- Consider sources of heat and airflow, such as heaters / AC units

- Don't install units directly above sensitive areas, such as food preparation areas

- Glueboard units should be used in sensitive applications such as food preparation or production areas

- Consider access for installation and future servicing

- Wherever possible, flylights should be positioned at 90° to sources of natural light, such as windows, doors and skylights

- Flylights should be positioned in between potential entry points, so as to intercept flying insects before they reach sensitive areas

- Flylights should not be installed either too high or too low in the area to be protected, with an optimum height of around 6'7"

FLYMAP

INSECT CONTROL

🔴 Electric Grid – Backroom

🔵 Glueboard – Sensitive area

🟢 Decorative – Front of house
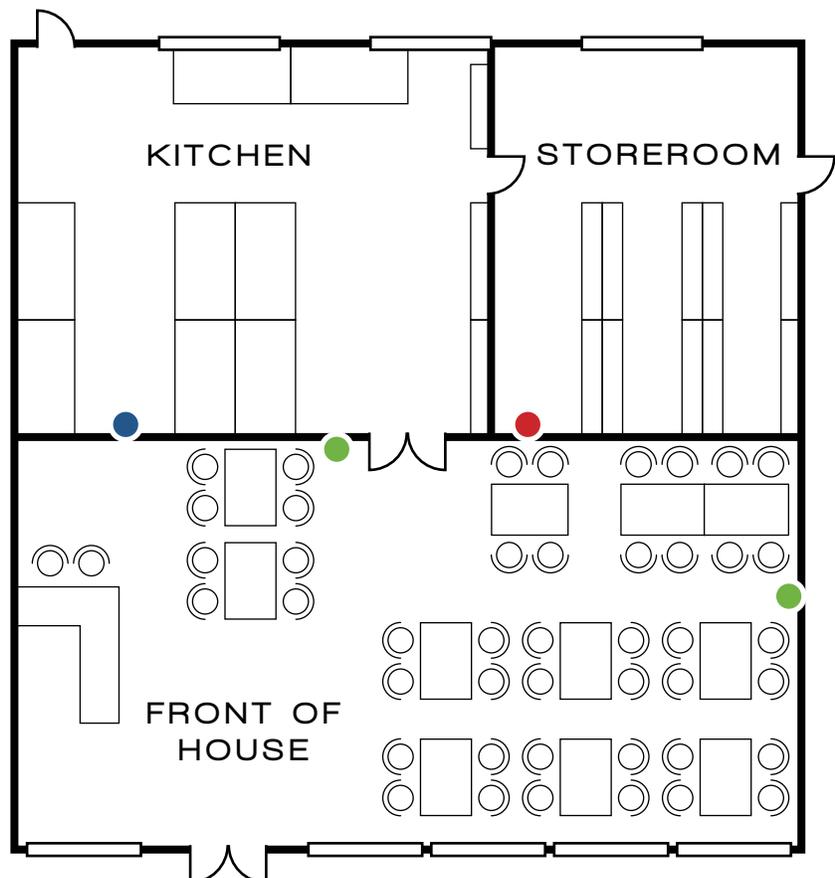
We understand that our customers work within a variety of environments and need a choice of bulbs which will offer solutions to the wide range of issues faced. We have developed a comprehensive range incorporating the leading brands and technologies to ensure that it's easy to find the right bulb every time.

HOW OFTEN SHOULD UV BULBS BE CHANGED AND WHY?

We recommend that UV bulbs are changed every 12 months to ensure maximum efficacy.

The levels of UV produced by fluorescent bulbs deteriorates rapidly throughout the life of the bulb. Whilst the bulb will continue to glow blue or green indefinitely, after approximately 8,000 hours the amount of useful UV (which humans cannot see) drops to a level where it is no longer attractive to flying insects. As a result, UV bulbs must be replaced annually to ensure they remain effective in producing useful levels of UV. This replacement cycle is typically undertaken just before the peak insect season, (March/April in North America) to ensure the flylight is producing the maximum amount of UV throughout the critical insect season.

15w 18" Tube Irradiance
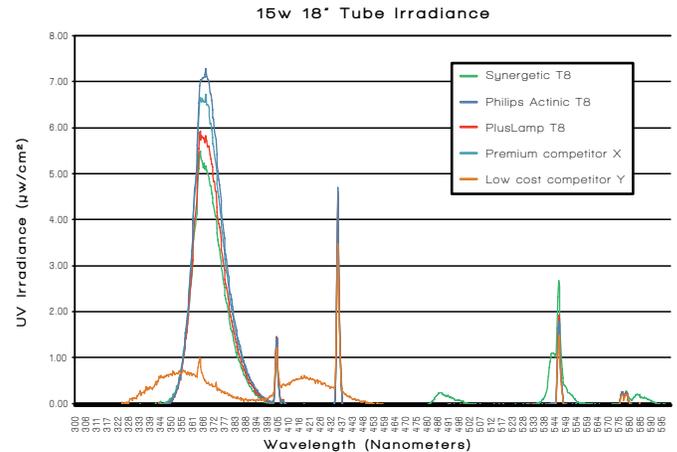
SYNERGETIC®

Easily recognized by their glowing green light, Synergetic® bulbs have been developed to attract a much wider range of flying insects than traditional blue UV bulbs.

Based upon a unique phosphor mix, patented technology ensures that a broader 'two peak' wavelength is maintained (368nm and 540nm) attracting a wide range of insects including stored product moths, whilst attracting the common housefly as effectively as traditional blue UV bulbs, giving you the best of both UV technologies.

Extensive testing has been carried out over many years by independent entomologists and test laboratories, showing the benefits of green light in combination with UV.

A wide diversity of insects were shown to be more attracted to Synergetic® light, including greenhouse whiteflies[1], silverleaf whiteflies, thrips, leafhoppers[2], Indian meal moths, Mediterranean flour moths[3], tropical warehouse moths, warehouse moths[4], plus many more!

UV TUBE OUTPUT - SYNERGETIC 15W 18"
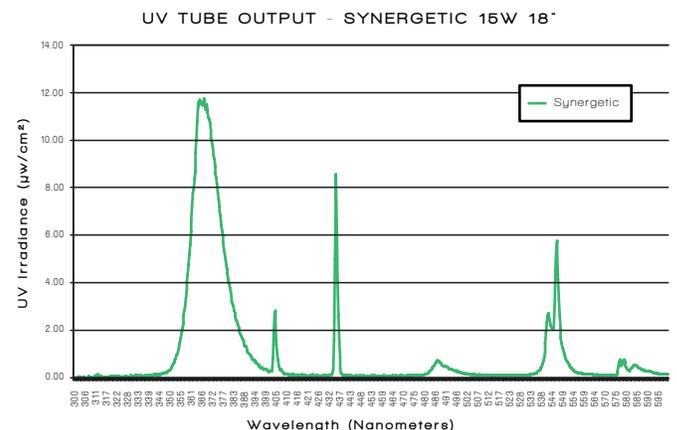
DID YOU KNOW?

Many insect pests of public health, stored product and agricultural importance have evolved visual pigments which allow them to perceive green light.[5]

Recordings of electroretinograms in housefly eyes found peaks in both UV (340-365nm) and blue green (450-550nm)[6] with similar sensitivities found in other Diptera eg. Calliphora vicina Meig[7], Haematobia irritans L., Musca autumnalis De Geer, Stamoxys calcitrans L.[8], Glossina mortisans mortisans Westw.[9], and Fannia canicularis L.[10], as well as the mosquito Aedes aegypti (323-345nm and 523nm)[11]. Several Tabanid species were also found to have a peak activity of 400-600nm[12].

1 Coombe, P.E. 1981. Wavelength specific behavior of the *whitefly Trialeurodes vaporariorum* (Homoptera: Aleyrodidae) J. Comp. Physiol. 144:83-90 **2** Chu, C.C., Printer, P.J., Henneberry, T.J., Umeda, K., Natwick, E.T., Wei, Y., Reddy V.R & Shrepatis, M. 2000. Use of CC traps with different trap base colours for *silverleaf whiteflies* (*Homoptera: Aleyrodidae*), *thrips* (*Thysanoptera: Thripidae*) and *leafhoppers* (*Homoptera: Cicadellidae*). J. Econ. Entomol. 93:1329-1337. **3** Soderstrom, L., 1970. Effectiveness of green electroluminescent bulbs for attracting stored product insects. J. Econ. Entomol. 63: 726-731. **4** Rees, D.P., 1985. Review of the response of stored product insects to light of various wavelengths, with particular reference to the design and use of light traps for population monitoring. Trp.Sci. 25: 197-21. **5** Small, G., 2009. Review of the attraction of insects to green light. I2L Research **6** Mazokhin-Porshniakov, G.A., 1960. Colourometric study of the properties of colour vision of insects as exemplified by the *house fly*. Biofizika 5 (3):295-303 **7** Burkhardt, D., 1962. Spectural sensitivity and other response characteristics of single visual cells in the *arthropod* eye. Symp. Soc. Exp. Biol.

PHILIPS

Philips Lighting is a leading provider of lighting solutions for professional applications. The range of Philips UV bulbs is dedicated to providing innovative, energy-efficient solutions and applications for lighting, based on a thorough understanding of customer needs. Philips bulbs are available in a range of sizes and shatterproof options.
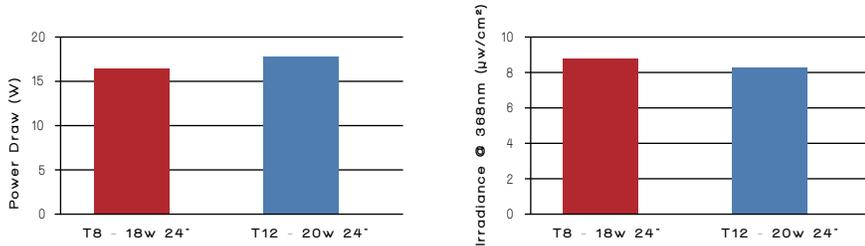
Philips bulbs are available in a comprehensive range of models, including shatterproof versions. The range also features the innovative new T8 18W and 36W bulb, offering a contemporary low power, increased efficiency replacement for 20W and 40W T12 bulbs.

DID YOU KNOW?

Some stored-product beetles respond better to blue UV light, including the cigarette beetle, the merchant grain beetle, the rice weevil and the red flour beetle.

PLUS+LAMP™

Offering superb value, the PlusLamp™ range offers users a wide choice of 368nm blue UV bulbs in both standard or shatterproof options.

Testing showed that the PlusLamp™ 368nm range experienced a lower rate of deterioration than many leading brand UV bulbs.

SHATTERPROOFING

Shatterproof bulbs provide peace of mind in sensitive areas by retaining glass shards if the bulb is broken. All our ranges can be shatterproofed, ensuring that you can choose your ideal bulb to help you protect even the most sensitive areas, including food preparation and assembly areas. Shatterproof bulbs MUST be installed in areas operating a 'glass free policy'.

The Fluorinated Polymer (FEP) material used for all our sleeving is designed specifically for optical transmission and allows 97% of effective UV light to pass through the coating. As a result, the maximum possible amount of useful UV irradiance passes through the sleeving to effectively attract insects. With only 3% of the irradiance being absorbed into the material, the structural integrity of the sleeving is maintained for the full 12 month life of the bulb, preventing discoloring and ensuring all glass shards are retained in the event of a breakage.

16:86-109. **8** Agee, H.R. & Patterson, R.S., 1983. Spectral sensitivity of stable, face and horn *flies* and behavioural responses of stable *flies* to visual traps (Diptera: Muscidae). Environ. Entomol. 12 (6): 1823-1828. **9** Green, C.H. & Cosens, D. 1983. Spectral responses of the *tsetse fly, Glossina morsitans morsitans.* J. Insect Physiol. 29 (10): 795-800 **10** Bellingham, J., & Anderson, M., 1993. Variations and sexual differences in the spectral sensitivity of the compound eye of the *housefly Musca* domestica (L.) and the lesser *housefly Fannia canicularis* (L.). Proceedings of the International Conference on Insect Pests in the Urban Environment 1:480. Cambridge. **11** Muir, L.E., Throne, M.L. & Kay, B.H. 1992. *Aedea aegypti* (*Dipthera: Culicidae*) vision: Response to stimuli from the optical environment. J. Med. Entomol. 29(3):445-50. **12** Smith, W.C., 1986. The retina of the *Tananidae* (*Dipthera*) compound eye: an ultrastructural and electrophysical study. M.S. thesis, University of Florida, Gainesville, USA. 406 pp.

GLUPAC®

Glupac® glueboards are designed to perfectly complement your Synergetic® flylight, offering consistently high standards of performance and quick servicing times.
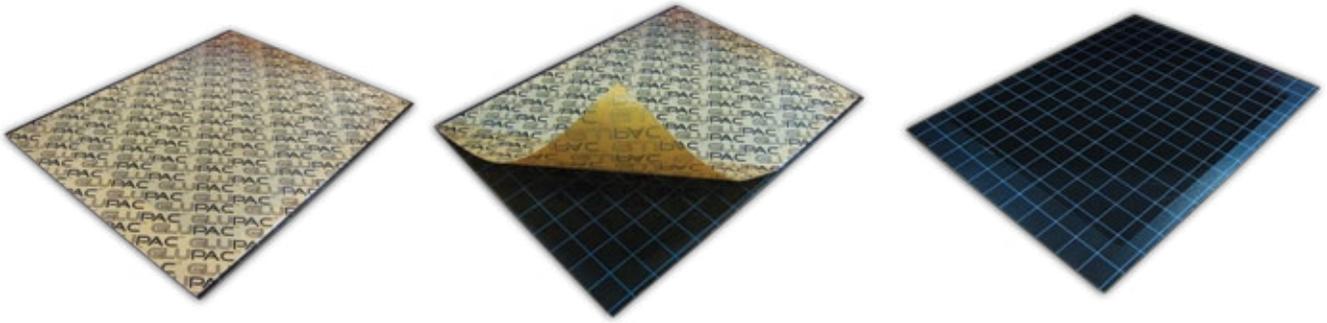
EASY FLY COUNT GRIDS

Glupac ® glueboards feature simple grids to make it quick and easy to monitor and record fly counts and identify species. This allows valuable, accurate feedback to be kept for hygiene audits and shared with the end user on a regular basis.

SILICON COATED RELEASE PAPER

Glupac® release paper is silicon coated to ensure that it releases from the glue covered board quickly and simply, leaving the glue in place. This guarantees speedy service times and ensures that there is no contact between the glue and the service technician.

FEATURES

Unique flexible glue application allows for maximum glue area

Advanced UV stable glue guards against the glue drying out over a four week period

Dry glue formulation reduces glue run from exposure to bulb heat and mess free servicing

Consistent thickness of glue application ensures no areas are too thin to retain the caught insect

Varnished base material reduces absorption of the glue

High quality silicon coated release paper provides easy peel action less mess and for reduced service times

SYNERGETIC® GLUEBOARD FLYLIGHTS
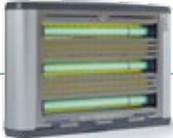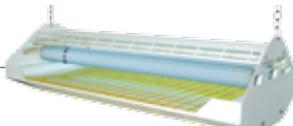
WHAT IS A GLUEBOARD FLYLIGHT?

Glueboard flylights use UV light to attract flying insects to the unit, then use a glueboard to retain the flying insects. As the insect is caught and retained whole, glueboard flylights are ideal for more sensitive environments.

Glueboard flylights are ideal for use in commercial front-of-house areas, commercial kitchens and industrial food preparation zones.

EDGE®

Developed to be the most effective glueboard flylight on the market, Edge® is designed around patented* glueboard technology to catch significantly more flying insects than traditional glueboards.

As the glueboard is inserted into the flylight it self-folds at the desired points, creating a unique form around high efficacy Synergetic® UV bulbs. This unique design forms edges, proven to be more attractive to flies, maximizes useful UV light output, and creates **a 30% larger glue area than traditional glueboards, creating a staggering 31.5% increase on a normal catch rate!**

The unique glueboard form provides three features shown to better catch flying insects:

1. The glueboard forms edges, proven to be more attractive to flies

2. 30% larger glue area than traditional 'flat' glueboards

3. The glue area is equidistant from the UV bulbs, maximizing the useful glue area
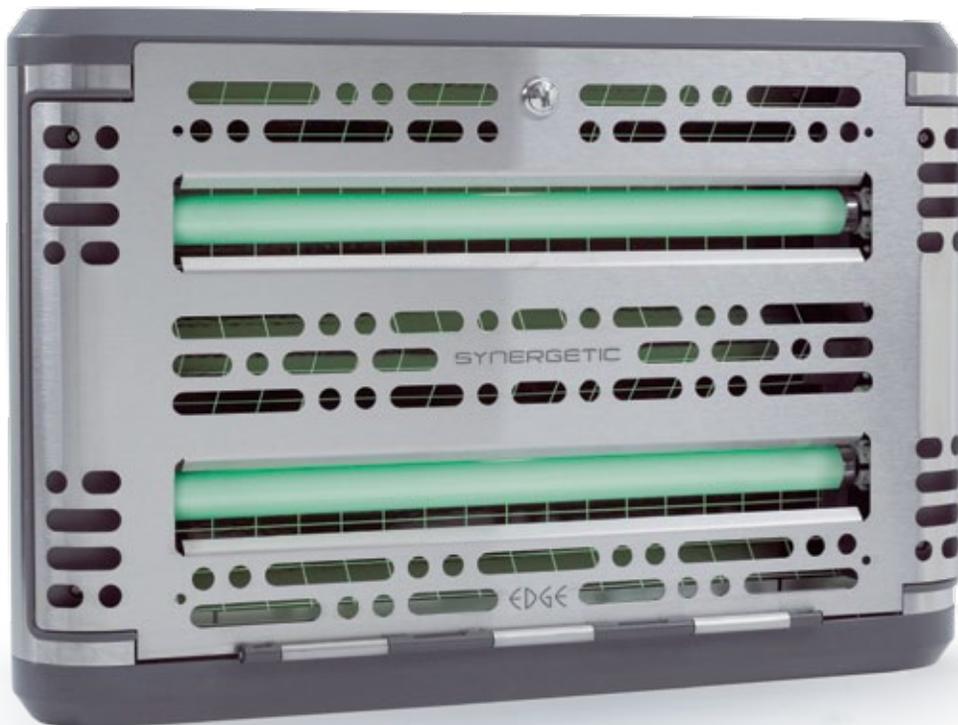
* Patent pending

FEATURES

Unique patented* glueboard technology

Catches 31.5% more flies than traditional glueboards

Swing down front guard allows simple and quick servicing, with full access to bulbs and glueboard

Patented dual wavelength Synergetic® technology for an increased catch

Simple wall, ceiling or counter top mounting

Contemporary market leading design

* Patent pending

INDEPENDENT EFFICACY TRIALS...

Chart legend: Edge glueboard, Flat glueboard. Y-axis: CAUGHT HOUSE FLIES (0–140). X-axis: TIME (MINUTES) (30, 60, 90, 120).
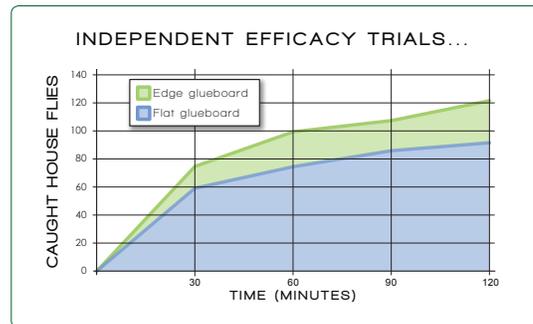
PRODUCT CODE
ZF105/110v

DESCRIPTION
Edge®, 30 watt, Stainless

DIMENSIONS (INCHES) H x W x D
14¾ x 22¼ x 4¼

COVERAGE (ft²)
1300

BULBS
2 x TGX15–18

GLUEBOARDS
1 x INF198

WEIGHT (lbs)
12

ROOM COVERAGE
1300 ft²
APPLICATION
Commercial Kitchen + Industrial Food Preparation + Front of House

halō

With a contemporary, discreet aesthetic and commercial efficacy, the second generation Halo is the most versatile glueboard flylight available for use across a range of commercial applications. Halo is available as a slimline 15, 30 and 45w model, providing a high quality insect control solution for small or large areas.

Offering a wide range of installation options, the second generation Halo can be vertically or horizontally wall mounted, or desk mounted using the specially designed desk mounting feet. The compact 15w unit can even be discreetly mounted above doors for areas where space is restricted.

The Halo is quick and easy to service; the swing down front guard provides complete access to the UV bulbs, while the glueboard can be easily changed from either side of the unit. The range uses high efficacy 15w UV bulbs for reduced inventory requirements.

PRODUCT CODE
  HL15/110v
DESCRIPTION
  Halo 15 (2nd Generation)
DIMENSIONS (INCHES) H x W x D
  23 x 10 x 4½
COVERAGE (ft²)
  430
BULBS
  1 X TGX15-18
GLUEBOARDS
  1 x GB015
WEIGHT (lbs)
  10

PRODUCT CODE
  HL45/110v
DESCRIPTION
  Halo 45 (2nd Generation)
DIMENSIONS (INCHES) H x W x D
  23 x 16 x 4½
COVERAGE (ft²)
  1300
BULBS
  3 X TGX15-18
GLUEBOARDS
  1 x GB012 / GB002
WEIGHT (lbs)
  14 ¼

* Patent pending

FEATURES

Commercial efficacy with a contemporary discreet aesthetic for a wide range of applications

Side access to glueboard for quick and easy servicing

Aluminium removable debris tray

Closable light apertures for maximum light output or prevention of dust ingress

Compact 15w model for space restricted installations

Quick tool free access gives simple access to consumables for easy maintenance

Patented dual wavelength Synergetic® Technology for an increased catch

Designed for use with Glupac® pheromone impregnated glueboards

45w IP65 model available for hose down and sensitive areas (see page 14 for more details)

28% increase in UV irradiance from first generation (Halo 30 and Halo 45)

PRODUCT CODE
HL30/110v
DESCRIPTION
Halo 30 (2nd Generation)
DIMENSIONS (INCHES) H x W x D
23 x 16 x 4½
COVERAGE (ft²)
860
BULBS
2 X TGX15-18
GLUEBOARDS
1 x GB012 / GB002
WEIGHT (lbs)
12½

ROOM COVERAGE
430-1300 ft²
APPLICATION
**Commercial Kitchen
+ Front of House
+ Industrial Food
Preparation Areas**

halō IP65

Part of the comprehensive Halo range, the Halo 45W IP65 model is suitable for use in harsh environments that may require hosing down. This IP65 model incorporates FEP coated shatterproof bulbs and a robust construction, while maintaining a contemporary design.

Offering a variety of installation options, the Halo 45W IP65 can be wall mounted vertically or horizontally. With a swing down front guard, it provides complete access to the UV bulbs and glueboard and the quick release lampholder covers make it extremely quick to service.

PRODUCT CODE
HL45IP/110v
DESCRIPTION
Halo 45 IP65
DIMENSIONS (INCHES) H x W x D
23 x 16 x 4½
COVERAGE (ft²)
1300
BULBS
3 X TGX15-18S
GLUEBOARDS
1 x GB013 (Large)
WEIGHT (lbs)
14¼
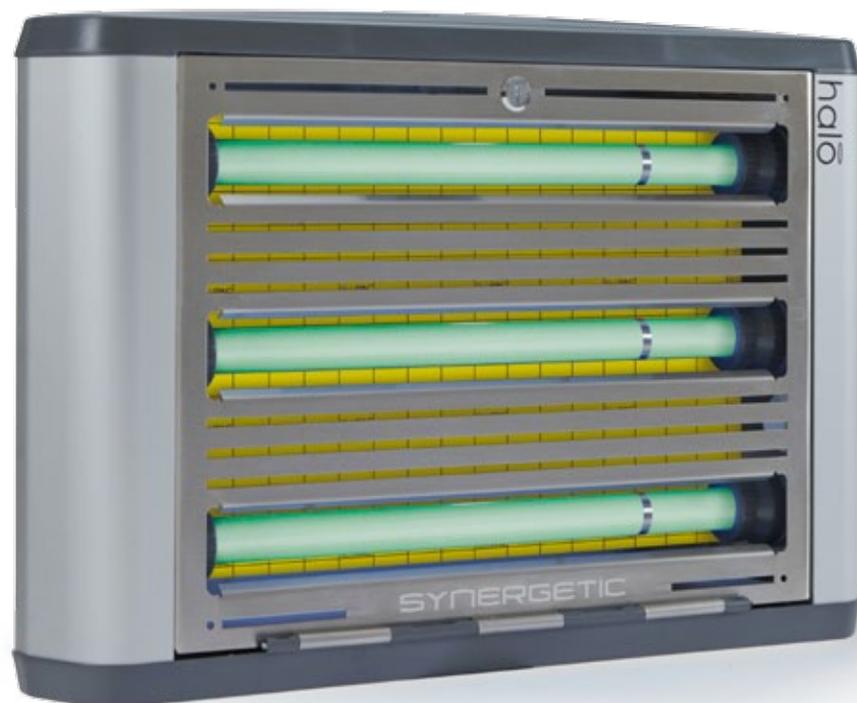
FEATURES

Stainless steel construction

Commercial efficacy with a contemporary discreet aesthetic for a wide range of applications

Side access to glueboard for quick and easy servicing

Aluminium removable debris tray

Unique, quick release IP65 lampholder covers protect against water ingress

Closable light apertures for maximum light output or prevention of dust ingress

Quick tool free access gives simple access to consumables for easy maintenance

High efficacy shatterproof UV bulbs

Designed for use with Glupac® pheromone impregnated glueboards, made from durable PVC that can withstand hosing down and harsh environments

Part of a comprehensive range of commercial glueboard flylights (see page 12 for more details)

ROOM COVERAGE
1300 ft²
APPLICATION
Commercial Kitchen + Front of House + Industrial Food Preparation Areas
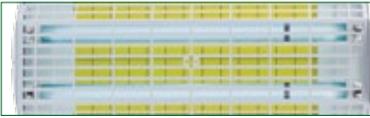
FlytrapProfessional™

Flytrap Professional™ (FTP) provides a professional and hygienic solution to insect control for sensitive areas such as food preparation areas. One of the most effective professional units on the market, Flytrap Professional™ gives 360° of light output and the simple glueboard and bulb replacement makes Flytrap Professional™ extremely service friendly. Available as a 30W or 80W white metal unit, Flytrap Professional™ can be mounted by seven different methods providing one of the most flexible and versatile professional flylight brands on the market.

PRODUCT CODE
ZF028/110v

DESCRIPTION
FTP30, 30 watt, White

DIMENSIONS (INCHES) H x W x D
5¾ x 18½ x 12

COVERAGE (ft²)
860

BULBS
2 x TPX15-18S

GLUEBOARDS
1 x GB001

WEIGHT (lbs)
8¾
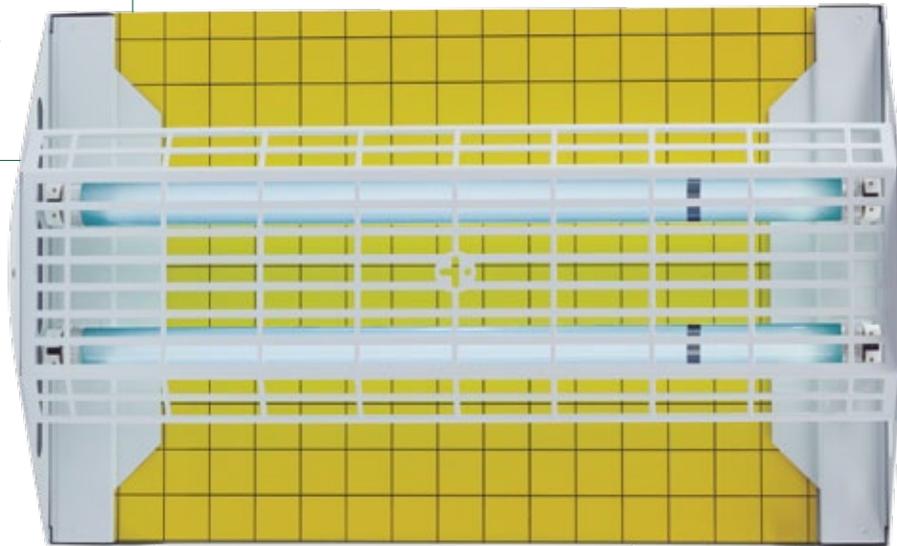
ROOM COVERAGE

860 ft²

APPLICATION

Industrial Food Preparation Areas

FlytrapProfessional™

FEATURES

Choice of seven mounting options for maximum versatility

Simple glueboard and bulb replacement

Provides 360° light output and ease of access for flying insects

Open design to increase attractant area

Designed for use with Glupac® pheromone impregnated glueboards with UV stabilizer

High efficacy shatterproof UV bulbs

All metal construction
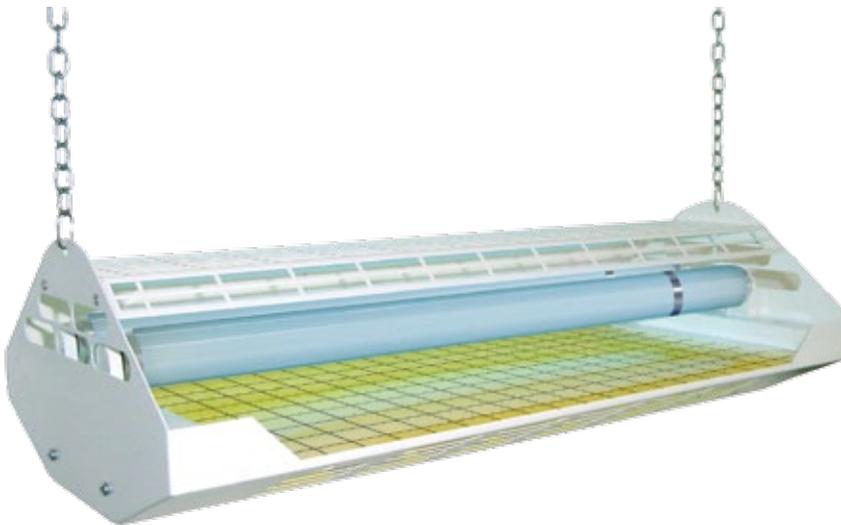
PRODUCT CODE	
ZF030/110v	
DESCRIPTION	
FTP80, 80 watt, White	
DIMENSIONS (INCHES) H x W x D	
6 ¼ x 25 ¼ x 12	
COVERAGE (ft²)	
2600	
BULBS	
2 x TP40-24S / TVX36–24S	
GLUEBOARDS	
1 x GB011	
WEIGHT (lbs)	
12.1	
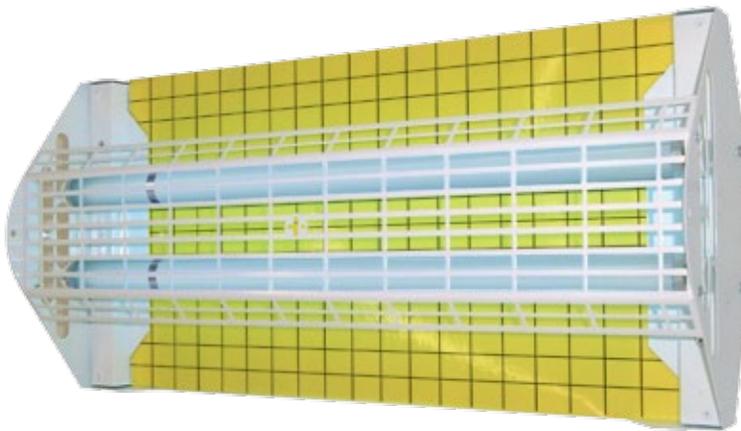
ROOM COVERAGE

2600 ft²

APPLICATION

Industrial Food Preparation Areas

SYNERGETIC® DECORATIVE FLYLIGHTS

WHAT IS A DECORATIVE FLYLIGHT?

Designed for use in front-of-house areas, decorative flylights discreetly protect areas which are highly visible to customers. Insects are attracted by UV light then retained with highly effective glueboards to ensure that flying insects are kept at bay.

Decorative units are ideal for use in restaurants, cafes, hotel lobbies, reception areas, food service and dining areas.
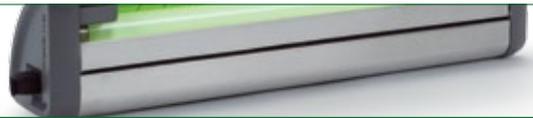
NECTAR

nectar™

Nectar offers a highly effective in-counter solution to flying insects, providing versatile installation and simple servicing

FEATURES

Simple in counter or wall mounting options

Patented dual wavelength Synergetic® technology for an increased catch

Two glueboards positioned close to UV bulb create large catch area

Two easy to change common glueboards, with grids for simple insect analysis

Variable shield keeps insects hidden from customer sight and changes the direction of the direct light where required

Contemporary design includes removable clips for in-counter advertising

Robust stainless steel and UV stable polycarbonate construction

Fitted with patented dual wavelength shatterproof Synergetic® bulb

Glueboard contains an additional fruit attractant
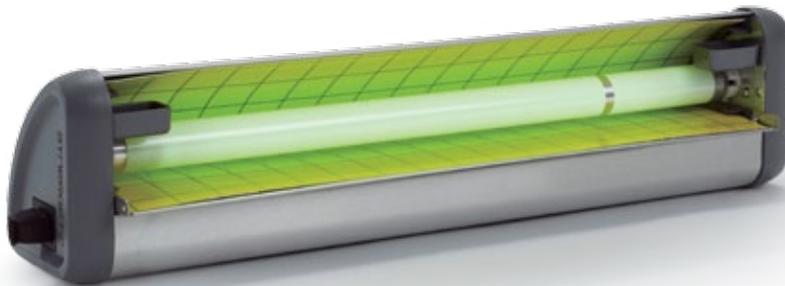
PRODUCT CODE
ZL055/110v
DESCRIPTION
Nectar, 15 watt, Stainless
DIMENSIONS (INCHES) H x W x D
4¾ x 21½ x 4
COVERAGE (ft²)
Full Counter Coverage
BULBS
1 x TGX15-18S
GLUEBOARDS
2 x INL170
WEIGHT (lbs)
4¼

ROOM COVERAGE
Full Counter

APPLICATION
Full In-counter + Food Display Area

aura™

aura™

Stylish and contemporary, the Aura™ decorative flylight is an ultra discreet unit designed for front-of-house applications.

Ideal for use within cafes, restaurants, bars and hotels, the Aura™ offers an elegant, modern aesthetic alongside innovative, easy-to-service features and maximum efficacy. **The unique circular registered design of the unit allows light to attract flying insects from a full 360° around the unit**, attracted by the patented Synergetic® green light, whilst the design of the discreetly positioned glueboard gives a 100% useful glue area which remains hidden from customer view.

FEATURES

Contemporary detailing and elegant clean lines

Beautifully polished facade

Slim design ensures that the unit is unobtrusive

Ultra discreet fly catching glueboard hidden from view

100% useful glueboard area ensures maximum efficacy

Ensures compliance with food hygiene legislation

Patented dual wavelength Synergetic® technology for an increased catch

Easy tool free access and efficient, fast servicing

Robust stainless steel and UV stable polycarbonate construction

UV light reflector

Simple to service starter replacement

Simple to service glueboard

Swing down front guard

Self holding 90° hinge

Simple to use wall mounting

Optional discreet hard wire access
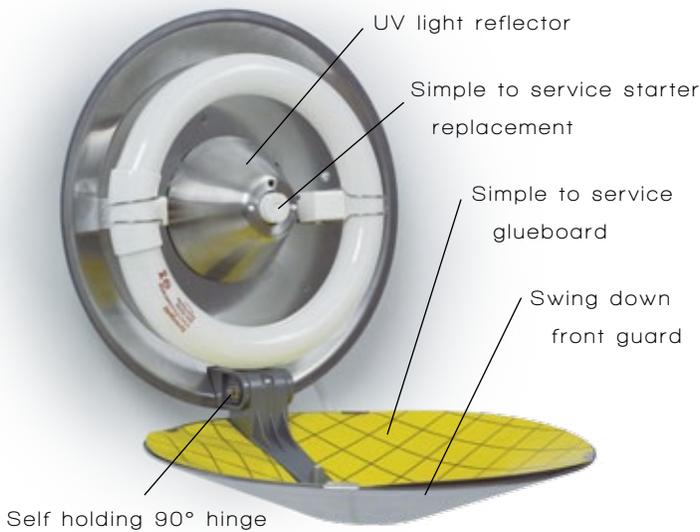
PRODUCT CODE
ZL051/110v
DESCRIPTION
Aura, 22 Watt
DIMENSIONS (INCHES) H x W x D
10½ x 10½ x 5¼
COVERAGE (ft²)
430
BULBS
1 X TGX22
GLUEBOARDS
1 x INL198
WEIGHT (lbs)
4¼

ROOM COVERAGE

430 ft²

APPLICATION

Front of House

LuraliteProfessional™

Developed as a highly effective but discreet solution for insect control, Luralite flylights are ideal for use in restaurants, bars, cafes and other front of house applications. Luralite™ is available in two sizes with the compact Luralite™ Cento Plus emitting 18 watts of UV light and the larger Luralite™ Professional, offering a higher light output and a larger glueboard for increased efficacy. Both styles are easy to service and are designed for use with genuine Glupac® glueboards, which incorporate UV stable dry glue for longer life and an increased catch.

PRODUCT CODE
LL30/110v
DESCRIPTION
Luralite Pro, 30 watt, White
DIMENSIONS (INCHES) H x W x D
7½ x 28½ x 8¼
COVERAGE (ft²)
538
BULBS
2 x TPX15–18
GLUEBOARDS
1 x INL121
WEIGHT (lbs)
10

ROOM COVERAGE
538 ft²

APPLICATION
Front of House

LuraliteCentoPlus™

FEATURES

Ideal for front-of-house applications

Quick and easy glueboard and bulb replacement

High efficacy UV bulbs

Designed for use with Glupac® pheromone impregnated glueboards with UV stabilizer

Robust all metal construction

PRODUCT CODE
LL18/110v

DESCRIPTION
Luralite Cento Plus, 18 watt, White

DIMENSIONS (INCHES) H x W x D
7¾ x 17½ x 7

COVERAGE (ft²)
270

BULBS
1 x TPX18

GLUEBOARDS
1 x INL128

WEIGHT (lbs)
5½

ROOM COVERAGE

270 ft²

APPLICATION

Front of House

*fly***pod**®

*fly***pod**®

Flypod® incorporates several unique features to provide commercial effectiveness and domestic serviceability. Designed specifically to be quick and easy to service, Flypod® incorporates a patented rear glueboard removal system, ensuring the user doesn't come into contact with dead flies or the sticky glueboard.

FEATURES

Patented rear glueboard removal provides ease of service for the user

Unique cone shaped body traps fly inside before catching it on the pheromone impregnated glueboard

Unique curved base sits flush to the desk top allowing flies to crawl up to the UV light source

High efficacy UV bulbs

Designed for use with Glupac® pheromone impregnated glueboards with UV stabilizer

The polypropylene diffuser distributes the UV light throughout 180° whilst discreetly hiding caught flies

With its stylish and compact design, Flypod® discreetly fits in with any front of house or domestic environment

PRODUCT CODE
ZF050/110v
DESCRIPTION
Flypod®, 18 watt
DIMENSIONS (INCHES) H x W x D
12 x 7¾ x 6¾
COVERAGE (ft²)
323
BULBS
1 x TPX18
GLUEBOARDS
1 x INF252
WEIGHT (lbs)
3¼

ROOM COVERAGE

323 ft²

APPLICATION

**Domestic +
Front of House**

SYNERGETIC® ELECTRIC GRID FLYLIGHTS

| | **27** |
| | PLUSZAP |

| | **28–29** |
| | ALLURE |

| | **30** |
| | SPLASHPROOF |

WHAT IS AN ELECTRIC GRID FLYLIGHT?

Electric grid flylights use UV light to attract flying insects to the unit, then use a electric grid to kill the insects, before retaining them in a catch tray to allow hygienic disposal.

Electric grid flylights are ideal for use in commercial backroom, commercial front of house and industrial backroom areas.

PLUS+ZAP™

The second generation PlusZap™ range offers a contemporary aesthetic combined with high specification features, creating a stylish electric grid range ideal for commercial environments.

FEATURES
Modern detailing makes the unit ideal for customer-facing areas

White painted mild steel finish

Staggered bulbs create efficient light output, whilst the innovative offset killing grid creates a large, effective catch area with easier servicing

Mains interlocked catch tray is simple to remove for quick and safe maintenance, with anti-blow out folds

Tool free bulb removal for a quick and simple service

Flexible mounting options for wall, desk or ceiling suspension

PRODUCT CODE
ZE124/110v

DESCRIPTION
PlusZap, 30 watt, White

DIMENSIONS (INCHES) H x W x D
10¼ x 20¼ x 5

COVERAGE (ft²)
861

BULBS
2 x TVX15–18

WEIGHT (lbs)
7¾

ROOM COVERAGE
861 ft²
APPLICATION
Commercial Backroom + Commercial Kitchen

ALLURE®

allure.

Proven to have more than 60% greater UV light output than traditional electric flylights

With an innovative, patented* open top design to maximise light output of the Synergetic® UV bulbs, this truly unique zapper flylight releases light from the back, sides and top of the unit, creating 67% more useful UV light output than traditional flylights utilizing the same power UV bulbs.

The unique Z-shaped killing grid provides a 20% larger fly killing area, ensuring that the unit easily copes with the increased number of flies attracted by the greater light output. Designed with serviceability in mind, the killing grid, deep catch tray and UV bulbs are easily cleaned and maintained whilst the tool free, drop down guard, also holds the catch tray during servicing making the unit quick and easy to service.

Independent tests show that the Allure attracted 448% more flies than the leading traditional 30 watt unit.
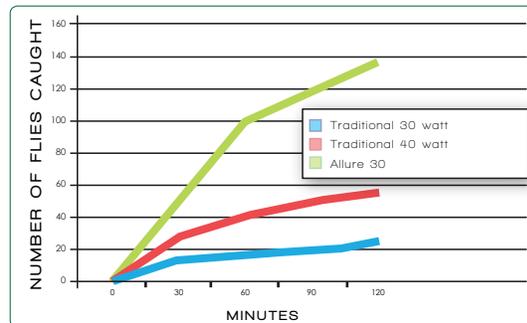
* Patent pending

FEATURES

Innovative, patented* open top design gives maximum possible UV light output for increased efficacy

Unique 'Z Shaped' killing grid gives 20% larger useful killing area for increased efficacy

Large capacity, mains interlocked catch tray with anti-blow out folds

Patented dual wavelength Synergetic® technology for an increased catch

Tool free, swing down front guard for quick, simple servicing

Simple wall, ceiling or desk mounting

Contemporary market leading design

PRODUCT CODE
ZC010/110v

DESCRIPTION
Allure®, 30 Watt, Stainless

DIMENSIONS (INCHES) H x W x D
11¾ x 23 x 4¾

COVERAGE (ft²)
1300

BULBS
2 X TGX15−18

WEIGHT (lbs)
11

ROOM COVERAGE

1300 ft²

APPLICATION

Commercial Backroom

* Patent pending
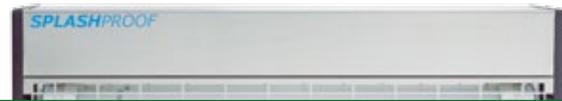
SPLASHPROOF™

***SPLASH**PROOF*™

Developed specifically for harsh environments, Splashproof™ provides
a high quality solution to insect control where IPX4 protection is required.
Incorporating high quality components and build quality, Splashproof™
is constructed from 304 grade stainless steel and UV stable polycarbonate.

FEATURES

IPX4 tested for hose cleaning

FEP coated shatterproof bulbs for hazardous and sensitive areas

Reliable high specification 3750V transformer

High efficacy UV bulbs

Strong UV stable polycarbonate and 304 grade stainless steel
construction

Wall, ceiling or desk mounting

Easily removable large killing grid for easy cleaning

PRODUCT CODE
ZSP005/110v
DESCRIPTION
SP80, 80 watt, Stainless
DIMENSIONS (INCHES) H x W x D
10½ x 27 x 6
COVERAGE (ft²)
2583
BULBS
2 x TP20-24 / TVX18-24
WEIGHT (lbs)
14¼

ROOM COVERAGE
2583 ft²
APPLICATION
**Specialist
+ Industrial
Backroom**

FLYLIGHT PRODUCT SELECTOR – COMMERCIAL

Use our simple guide to help you select the perfect flylight for your type and size of application.

COMMERCIAL										
APPLICATION	FRONT-OF-HOUSE			KITCHEN			BACKROOM			SPECIALIST
COVERAGE (ft²)	0-450	451-1075	1076-1615	0-540	541-1075	1076-1615	0-540	541-1075	1076-1615	0-540
GLUEBOARD FLYLIGHTS										
Edge	●	●	●	●	●	●				
Halo (2nd Generation)	●	●	●	●	●	●				
Halo IP65	●	●	●	●	●	●				●
Flytrap Professional										
KILLING GRID FLYLIGHTS										
PlusZap				●	●		●	●		
Allure				●	●	●	●	●	●	
Splashproof										
DECORATIVE FLYLIGHTS										
Nectar	●									●
Aura	●									
Luralite Cento Plus	●									
Luralite Professional	●	●								
Flypod	●									

FLYLIGHT PRODUCT SELECTOR – INDUSTRIAL

For further help and advice please call **toll free (877) 928-2847**
or email **customercare.na@pandlsystems.com**

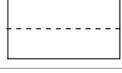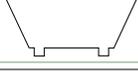| INDUSTRIAL												
APPLICATION	FOOD PREPARATION				BACKROOM				SPECIALIST			
COVERAGE (ft²)	0-540	541-1075	1076-1615	1615+	0-540	541-1075	1076-1615	1615+	0-540	541-1075	1076-1615	1615+
GLUEBOARD FLYLIGHTS												
Edge	●	●	●									
Halo (2nd Generation)	●	●	●	●								
Halo IP65	●	●	●	●					●	●	●	●
Flytrap Professional	●	●	●	●								
KILLING GRID FLYLIGHTS												
PlusZap												
Allure												
Splashproof					●	●	●	●	●	●	●	●
DECORATIVE FLYLIGHTS												
Nectar												
Aura												
Luralite Cento Plus												
Luralite Professional												
Flypod												

BULB PRODUCT SELECTOR

Use this quick and easy reference guide to find the right bulbs for your flylight. To find out more about each of our bulb brands, please turn to pages 6 and 7 or alternatively call our team on **(877) 928-2847** who would be happy to advise you on bulb selection.

PART NO.	DESCRIPTION	BULBS			
		QUANTITY	BRAND	PART NO.	
ZC008/110v	IF100 S/S	4	PlusLamp™	TVX25-TB	25w, 9.5″
ZC010/110v	Allure 30	2	Synergetic®	TGX15-18	15w, 18″
ZF028/110v	FTP30	2	Philips	TPX15-18S	15w, 18″
ZF033/110v	FTP80	2	Philips	TVX36-24S	36w, 24″
ZF050/110v	Flypod	1	Philips	TPX18	18w, 9″
ZF100/110v	Halo 30 (1st Generation)	2	Philips	TPX15-18	15w, 18″
ZF101/110v	Halo 45 (1st Generation)	3	Philips	TPX15-18	15w, 18″
ZE124/110v	PlusZap 30 White	2	PlusLamp™	TVX15-18	15w, 18″
HL15/110v	Halo 15 (2nd Generation)	1	Synergetic®	TGX15-18	15w, 18″
HL30/110v	Halo 30 (2nd Generation)	2	Synergetic®	TGX15-18	15w, 18″
HL45/110v	Halo 45 (2nd Generation)	3	Synergetic®	TGX15-18	15w, 18″
HL45IP/110v	Halo 45 IP65	3	Synergetic®	TGX15-18S	15w, 18″
ZF105/110v	Edge 30	2	Synergetic®	TGX15-18	15w, 18″
LL18/110v	Luralite Cento Plus	1	Philips	TPX18	18w, 9″
LL30/110v	Luralite Professional	2	Philips	TPX15-18	15w, 18″
ZL022/110v	Satalite 30	2	Philips	TPX15-18	15w, 18″
ZL051/110v	Aura	1	Synergetic®	TGX22	22w
ZL055/110v	Nectar	1	Synergetic®	TGX15-18S	15w, 18″
ZSP005/110v	SP80	2	Philips	TVX36-24	36w, 24″

All bulbs are also available in shatterproof versions – please specify if shatterproof is required when ordering by inserting the letter 'S' after the product code

GLUEBOARD PRODUCT SELECTOR

Use the reference guide below to quickly select the recommended glueboards for your flylight. Simply locate your flylight product code and find the corresponding glueboard pack code to make ordering simple. To find out more about Synergetic® Glupac® glueboards please visit page 8 or alternatively call our team on **(877) 928-2847** who would be happy to advise you on glueboard selection.

FLYLIGHT MODEL NO.	DESCRIPTION	GLUEBOARD						
		QTY.	PART NO.	SHAPE	COLOR	PACK SIZE	ALTERNATIVE / COLOR	DIMENSIONS (INCH)
ZF028/110v	FTP30	1	GB001		Yellow	Yellow	GB002 Black	15.6 x 12.2
ZF033/110v	FTP80	1	GB011		Yellow	Yellow	GB012 Black	21.4 x 12.2
ZF050/110v	Flypod	1	INF252		White	White	–	6.7 x 9.4
HL15/110v	Halo 15 (2nd Generation)	1	GB015		Black	6	–	21.3 X 12
HL30/110v	Halo 30 (2nd Generation)	1	GB012		Black	6	GB011 GB001 GB002 Yellow	15.6 x 12.2
HL45/110v	Halo 45 (2nd Generation)	1	GB012					
HL45IP/110v	Halo 45 IP65	1	GB013		Yellow	6	GB001 GB002/GB003 Yellow	21.3 X 12
ZF105/110v	Edge 30	1	INF198		Black	Black	INF197 Yellow	17.7 x 15
LL18/110v	Luralite Cento Plus	1	INL128		Black	Black	–	–
LL30/110v	Luralite Professional	1	INL121		Yellow	Yellow	INL132 Black	22.4 x 10.8
ZL022/110v	Satalite 30	1	INL161		White	White	–	19.1 x 8.1
ZL051/110v	Aura	1	INL198		Yellow	Yellow	–	11.6 Dia
ZL055/110v	Nectar	2	INL170		Yellow	Yellow	–	4.5 x 17.7

OTHER P+L SYSTEMS BRANDS

To find out more about P+L Systems brands please visit www.pandlsystems.com

Network specializes in the provision of high quality bird control products for the professional pest control market, including leading brands Avipoint™ and Avishock™.

With a leading reputation amongst professional pest controllers, Network is known for innovative time saving product solutions alongside expert technical guidance and specification support.

Network offers a comprehensive range of bird control products from the globally recognized Avipoint™ spike brand, through to high specification bird nets and installation time saving fixings and the leading electric bird proofing brand Avishock™. Developed to offer absolute discretion, Avishock™ is extremely popular amongst architects and specifiers, as well as bird control specialists.

SX Environmental is one of the UK's leading distributors of traditional and innovative pest control products.

SX is an expert in pioneering new products in the market, offering well-known pest control brands alongside newly developed products to meet the demands of the dynamic pest control environment, including unique rodent boxes and other plastic products. Alongside a comprehensive range of pest control products, SX is recognised for its market leading customer service and technical advice.

P+L Systems Washroom is Europe's leading supplier of fragrances and dispensers with over 25 years experience in developing products for commercial washroom use.

P+L Systems Washroom understand that fragrance forms an integral part of the customer experience, and have developed a comprehensive range of products to suit a variety of applications. From fruity scents to light florals, rich vanilla to fresh baby powder, P+L Systems Washroom has a range of fragrances to suit many areas, from the lobby to the washroom. The selection of fragrances are complimented by a wide choice of high quality, stylish fragrance dispensers offering programmable options to suit a broad range of environments.

In addition to the comprehensive range of fragrances and dispensers, P+L Systems Washroom also offers a wide range of washroom products designed for the European market, including urinal fragrancing and water management solutions, contemporary high specification hand dryers, hygienic feminine hygiene bins available in a range of sizes to suit servicing cycles, plus a range of automatic and manual soap dispensers.

Pest-Stop is the UK's leading manufacturer and supplier of high quality pest control products for the retail market.

The Pest-Stop brand offers a comprehensive range of market-leading products, from the traditional Little Nipper mouse traps, one of the longest standing pest control brand names, to contemporary products designed with the domestic user in mind.

SYNERGETIC®

For advice on product selection or technical support,

call our team on (877) 928-2847

or email customercare.na@pandlsystems.com

T +1 (877) 928-2847

F +1 (800) 973-5562

W www.synergetic-flylights.com

P+L Systems®

For more information on the P+L Systems Group please visit www.pandlsystems.com

DISTRIBUTED BY: