



# IDENTIFICATION GUIDE

*IDENTIFY, CONTROL, & TREAT FLIES*



# BLOW & BOTTLE FLIES



## OUR RECOMMENDATION

ProFoam® Platinum • Nibor-D® • Nisus DSV™ • Bac-Azap®  
(see last page for details)

## DESCRIPTION

About 1/3" in length with a shiny metallic, dark blue abdomen and thorax. Includes black blow flies and green bottle flies.

## FEEDING/BREEDING HABITS

Dead animal carcasses, garbage and wounds in living animals.

## LIFE CYCLE

8-21 days

## NON-CHEMICAL CONTROL

Sanitation, destruction of breeding sites and tight-fitting garbage containers.

## CHEMICAL CONTROL

Larvicides, residual and space sprays, bio-remedial cleaning and use of foam to deliver insecticides.



# HOUSE FLIES



## OUR RECOMMENDATION

ProFoam® Platinum • Nibor-D® • Nisus DSV™ • Bac-Azap®  
(see last page for details)

## DESCRIPTION

About 1/4" in length with dull gray thorax marked longitudinally with four dark stripes, pale abdomen and fourth wing vein is angled.

## FEEDING/BREEDING HABITS

Warm organic material such as animal and poultry manure, garbage, decaying vegetables and fruits and moist leaves and lawn clippings.

## LIFE CYCLE

6-10 days

## NON-CHEMICAL CONTROL

Sanitation, destruction of breeding sites, tight fitting garbage containers and screens on windows and doors.

## CHEMICAL CONTROL

Larvicides, residual and space sprays, baits, bio-remedial cleaning and use of foam to deliver insecticides.



## MOTH / DRAIN FLIES (ALSO FILTER / SEWAGE)



### OUR RECOMMENDATION

Nibor-D® + IGR • Foam Fresh®  
(see last page for details)

### DESCRIPTION

1/16" to 1/8" in length, light gray to tan.

### FEEDING/BREEDING HABITS

Decomposing organic material such as moist plant litter, garbage, sewage, around kitchen or bathroom sinks and water traps in plumbing fixtures.

### LIFE CYCLE

7-20 days

### NON-CHEMICAL CONTROL

Sanitation, destruction of breeding sites, tight fitting garbage containers and moisture control.

### CHEMICAL CONTROL

Larvicides, residual and space sprays, bio-remedial cleaning and use of foam (including foam in drains) to deliver insecticides.



## FLESH FLIES



David Cappaert, Bugwood.org

### OUR RECOMMENDATION

Nibor-D® • Nisus DSV™ • Nibor-D + IGR  
(see last page for details)

### DESCRIPTION

3/8" to 9/16" in length, dull grayish-black with three dark stripes on the thorax, dark-patterned abdomen.

### FEEDING/BREEDING HABITS

Decayed flesh, spoiling meat, manure, wounds in living animals and sometimes garbage.

### LIFE CYCLE

8-21 days

### NON-CHEMICAL CONTROL

Sanitation and destruction of breeding sites.

### CHEMICAL CONTROL

Residual and space sprays, bio-remedial cleaning and use of foam to deliver insecticides.



## BLACK-EYED FLIES & DARK-EYED FRUIT FLIES



### OUR RECOMMENDATION

Nibor-D® + IGR • Foam Fresh®  
(see last page for details)

### DESCRIPTION

Eyes dark with dark bodies, adults 1/8" length.

### FEEDING/BREEDING HABITS

Fermenting or rotting fruit and vegetable material, garbage cans and drains.

### LIFE CYCLE

8-21 days

### NON-CHEMICAL CONTROL

Sanitation and destruction of breeding sites.

### CHEMICAL CONTROL

Residual and space sprays, bio-remedial cleaning and use of foam to deliver insecticides.



## VINEGAR FLIES / RED-EYED FRUIT FLIES



### OUR RECOMMENDATION

Nibor-D® + IGR • Foam Fresh®  
(see last page for details)

### DESCRIPTION

Eyes red, adults 1/8" length, tan to brown.

### FEEDING/BREEDING HABITS

Fermenting or rotting fruit and vegetable material, garbage cans.

### LIFE CYCLE

8-21 days

### NON-CHEMICAL CONTROL

Sanitation and destruction of breeding sites.

### CHEMICAL CONTROL

Residual and space sprays, bio-remedial cleaning and use of foam to deliver insecticides.



# PHORID / HUMPBACKED FLIES



Susan Ellis, Bugwood.org

## DESCRIPTION

About 1/8" in length with a small head and large thorax causing the fly to have a hump-backed appearance.

## FEEDING/BREEDING HABITS

Decaying vegetation, animal debris, garbage, sewage, and ant and termite nests.

## LIFE CYCLE

10-25 days

## NON-CHEMICAL CONTROL

Sanitation, destruction of breeding sites and moisture control, repair sewage leaks.

## CHEMICAL CONTROL

Residual and space sprays, bio-remedial cleaning and use of foam to deliver insecticides.

## OUR RECOMMENDATION

ProFoam® Platinum • Nibor-D® • Nisus DSV™ • Bac-Azap®  
Nibor-D® + IGR • Foam Fresh® (see last page for details)



# PRIMARY SERVICE PRODUCTS



Bac-Azap®

Nisus DSV™

Nibor-D®

ProFoam® Platinum



## COMMERCIAL FACILITY FLY AND COCKROACH PRIMARY SERVICE PROTOCOL

Nibor-D and Nisus DSV are highly effective as primary applications against moderate to severe pest infestations. Bac-Azap is a bio-sanitation product, and ProFoam® Platinum helps deliver all three products. These protocols are guidelines that can be adapted to pest pressure and the specific needs of the facility.

### First Visit: Preliminary Investigation, IPM and Treatment. Drains should be cleaned before initiating fly control.

1. Remove organic solids from drains and drain plates using a brush dipped in or sprayed with **diluted DSV** per label to clean. Spray or pour remaining **diluted DSV** into drains and around drain openings prior to treatment.
2. \*Foam drains with **Nibor-D, DSV and ProFoam Platinum** solution. Add an IGR to stop the reproductive cycle if desired. Treat any areas where larvae, eggs or live adults are found, such as cracks, crevices, voids, broken tile, missing grout, under equipment, etc.

### Repeat Visits: Evaluate sanitation changes and IPM. Determine current pest population pressure.

1. Inspect drains for buildup and clean again using a brush dipped in **diluted DSV** per label if necessary. Flush drains with 2-3 gallons of fresh water after cleaning.
2. If drains are clean and clear and pest pressure has decreased, incorporate bio-sanitation by **adding Bac-Azap to your tank mix of Nibor-D and ProFoam Platinum**. **Note:** Flush drains with water thoroughly after cleaning with DSV as it may harm the beneficial microbes in Bac-Azap.
3. Foam drains with a combination of **Nibor-D, DSV and ProFoam Platinum** if pest pressure remains high.

For more detailed information, see *Nisus Small Fly and Cockroach Control Protocol for Commercial Food Facilities*.

\*We recommend using at least a 10% solution mix for the initial treatment. The label allows for applications up to a 15% active ingredient concentration. For this use, the optimal concentration is 10% and is permitted by the label.



## COMMERCIAL FACILITY FLY AND COCKROACH MAINTENANCE SERVICE PROTOCOL

The Nisus *Commercial Facility Fly and Cockroach Maintenance Service Protocol* merges the effectiveness of Nibor-D Insecticide Foam + IGR with Foam Fresh Bio-Sanitation Foam for rapid service to commercial and residential accounts. Before beginning follow-up and maintenance procedures, be sure to first speak with staff about any recent small fly or cockroach activity and to check any pest sighting logs that may be present. Also check drains and other potential problem areas for sanitation controls. Drains should be cleaned any time heavy buildup is detected. Any drains that require service can be cleaned using a brush dipped in diluted DSV per label and then flushed with 2-3 gallons of fresh water. Note: Flush drains with water thoroughly after cleaning with DSV as it may harm the beneficial microbes in Foam Fresh.

### Follow-up and maintenance: Incorporate Monthly/Bimonthly Pest Service with Bio-Sanitation.

1. Foam any drains, cracks, crevices and/or voids that show evidence of live insects or larvae with Nibor-D Insecticide Foam + IGR. The foam will dissipate in approximately 10-15 minutes.
2. Apply Foam Fresh Bio-Sanitation Foam to all non-food preparation surfaces where organic debris, grease and grime tend to build or additional sanitation measures are needed such as drains, trash receptacles, dumpsters, under equipment, service carts, mops, brooms, dustpans, floor mats, bar and soda fountain drip trays, etc.

For more detailed information, see *Nisus Small Fly and Cockroach Control Protocol for Commercial Food Facilities*.



# USE THE PROTOCOL WITH A **ONE-TWO PUNCH**

**Don't let small flies and cockroaches cost you extra time and money!**

Small flies and cockroaches are some of the most persistent and frustrating pests in a commercial kitchen and cause problems in residential accounts, as well. Both cockroaches and small flies hide in drains, cracks and crevices, voids, under equipment and in other hard-to-reach areas where food debris and other organic matter tend to build up.

Foam Fresh® Bio-Sanitation Foam and Nibor-D Insecticide Foam + IGR are ready-to-use aerosol foams that allow fast 360° application into tight areas. Each is equipped with a flexible hose for deep drain penetration and a quick and easy application.

[CONTACT YOUR NISUS REPRESENTATIVE TO LEARN MORE](#)



\*Foam Fresh Bio-Sanitation Foam is not a pesticide.



## MAINTENANCE SERVICE PRODUCTS

# NIBOR-D® + IGR

**REDUCE FLY & COCKROACH POPULATIONS IN COMMERCIAL KITCHENS WITH NIBOR-D INSECTICIDE FOAM + IGR**

- 100% mortality on adult cockroaches and small flies, eliminates adult emergence and prevents juvenile development.
- The DOT active ingredient attaches to food debris to eliminate adult flies and developing larvae, while the IGR (Insect Growth Regulator) disrupts insects' reproductive systems.
- Speeds up service - no mixing equipment needed. Nibor-D + IGR is a ready-to-use aerosol foam that includes a flexible hose for deep drain penetration.
- Especially convenient for bar drains and other smaller voids where a pre-mixed aerosol makes application fast and simple.
- Great for crack and crevice treatment - kills cockroaches by direct contact.
- Use in commercial and residential accounts.



# FOAM FRESH®

- The fastest, most powerful bio-sanitation foam in the industry!
- Drain actuator and 17" semi-rigid hose included **WITH EVERY CAN.**
- The 3.3 mm semi-rigid hose fits through the smallest drain plate grids so you can treat without removing the drain plates.
- New 18 oz. can featuring a cone-spray actuator with an up-down valve, giving you 360° control.
- Use in commercial kitchens to consume Fats, Oils & Grease (FOG).



# NISUS®

Better science for a better world.

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800.264.0870 | [www.nisuscorp.com](http://www.nisuscorp.com) | Remember to always read, understand and comply with the label, SDS and regulations.

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