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SAFETY-TESTED AND CERTIFIED BY NATIONALLY RECOGNIZED TESTING LABORATORIES (NRTL'S)



# The Dispatch



"An Insect-O-Cutor® and Germ-O-Ray® Newsletter"

SPRING 2001

## FROM THE EDITOR:

Spring has sprung! And with it comes baseball, flowers, flying insects... and your current copy of *The Dispatch*.

The past winter has been a busy time for us at Insect-O-Cutor®. From preparing this season's replacement lamp inventory (*remember to relamp before the bugs come*)... to improving upon product offerings... to refining existing models, we haven't been hibernating.

One example of improved product offerings can be noticed within our Guardian® Glueboards. Many of you have asked for "bulk" packaging of replacement boards; we're now pleased to meet your needs — details can be found inside this *Dispatch*.

As for refining existing models, we're happy to report that Insect-O-Cutor® is now incorporating state-of-the-art universal lamp ballasts in "export" and 220 Volt equipment. The benefits of universal ballasts are explored in this issue's "Tech Corner".

As always, we're striving to provide you with the best value for the dollar spent — remember, you get what you pay for. If you ever have special needs, or simply have a suggestion or criticism of any type, then don't hesitate to call us.

Enjoy the Spring! J. Harris, Ed.

## Energy-Efficiency... Not Just California Dreamin'

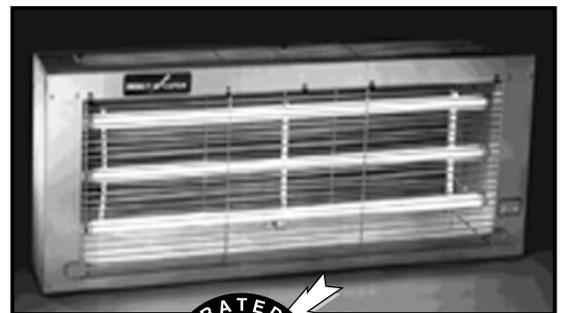
The rolling blackouts and electricity price spikes seen in California this past year have more than a few facility engineers, CFOs, and plant managers scrambling to implement energy conservation programs.

In 1994, Insect-O-Cutor® was first to offer a complete line of energy-efficient equipment. These exclusive models were designed, built, and offered to address the National Energy Policy Act of 1992 which mandates the eventual usage of only energy-efficient electrical components in lighting fixtures. Then and now,

we are concerned with offering state-of-the-art products to keep ourselves and end-users ahead of product obsolescence concerns. Little did we know how important energy conservation would become in six short years.

As an example, our Energy-Efficient Models 7194E and 894E (equipped with 3-36" lamps) use, on average, **at least 40% less energy than comparable models** using only 2-48" lamps.

### ARCHITECTS & DESIGNERS CHOICE



VERSATILE 894E  
CEILING-HUNG OR  
WALL-MOUNTED



110V/60HZ & 220V/50HZ  
STAINLESS STEEL OR  
ALUMINIZED STEEL

CONTINUED ON PAGE 4

## The Dispatch: Spring 2001 Issue

Dis·patch (dīs·päch')

*tr.v.* to send off to a specific destination; to complete or dispose promptly of; to put to death summarily; *-n.* a written message sent with speed; a news item.

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Germ-O-Ray® is a registered product name for Air Disinfection Fixtures manufactured solely and exclusively in Stone Mountain, GA, U.S.A.

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## 2001 Food Code Released!

Every two years, the nation's Food Code is reviewed, revised, and re-released. As in past Food Codes, there are a number of sections related to Insect-O-Cutor® usage. Within Physical Facilities - Chapter Six" and various "Annexes", one will find sections applicable to Insect-O-Cutor® equipment, safety-coated lamps, and other matters.

- Chapter 6, Section 202.13 (Insect Control Devices)
- Chapter 6, Section 202.11 (Light Bulbs, Protective Shielding)
- Annex I, Section 501.III (Controlling Pests)
- Annex I, Section 206.12-13 (Pest Control & Monitoring).

Should you be interested in reviewing the 2001 Food Code (when available) then point your web-browser to <http://vm.cfsan.fda.gov/~dms/foodcode.html> for an online version of the Food Code or call 703.605.6000 for your own copy.

## 12-PACK BULK PACK

Starting this Spring, Insect-O-Cutor® is pleased to offer "bulk" packaging of replacement glueboards. These "bulk" packages increase the quantity of replacement glueboards from a 4-pack to a 12-pack.

New glueboard part numbers and sizes offered include:

- Part No. GB5-12 ..... 4.5 x 22" ..... (for Model GBP242) and  
 Part No. GB4-12 ..... 4.5 X 17" ..... (for Models GB18, GB36 and GBH362).

The GB5-12 is priced at \$26.99 per package of twelve boards. And the GB4-12 is priced at \$19.99 per package of 12 boards. Glueboard 4-packs (GB5/GB4) continue to be available.

### READY... FOR THIS YEAR'S INSECT ONSLAUGHT?

Replace the black light lamps in all your insect electrocutors if the lamps have been used for a full season (7000 hours or 9.5 months). At the same time, inspect ballasts, transformers, lampholders, insect collection trays/drawers, and other parts for serviceability.

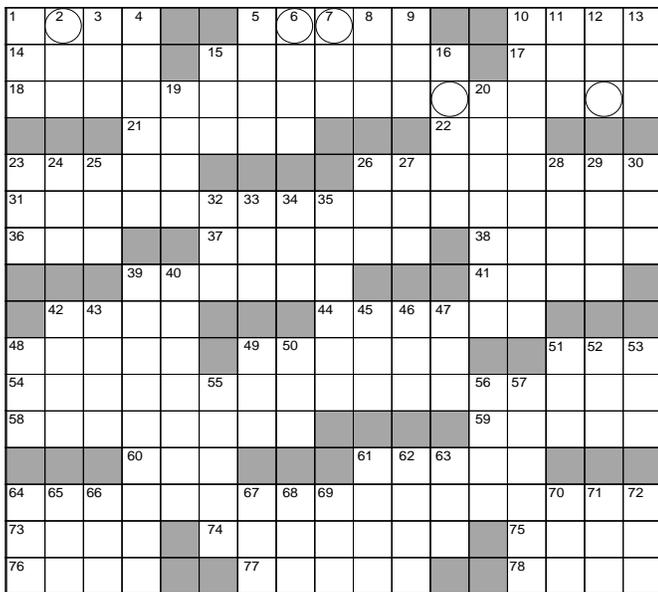


Lamps, replacement parts, and other needs are available for immediate shipment from stock. Don't delay in getting your system up to par. Spring clean now.

### HEY! HEY! HEY!

- Is your procurement moving "online": Ariba, Commerce One, SAP... ?
- Do you require audit, engineering, design, or project support?
- Do you have special requests?

Insect-O-Cutor® is over 60 years old not for simply building the best "bug light"; but in part, our success depends on addressing your needs. We stand ready to work with you. Let us know how we can help.



75. Montand  
 76. Yukon \_\_\_\_\_  
 (abbrev.)  
 77. Old hat  
 78. 45 Down
- DOWN**
1. Bernadette (Fr.)
  2. Ms. Rand
  3. IBM component
  4. Maintain
  5. Aloud
  6. Clark's lady
  7. Traveler's Holiday
  8. Contend
  9. Poetic contraction
  10. Including all merchandise
  11. Malt liquor ingredient
  12. Anger
  13. Mal de \_\_\_\_\_
  15. Simpson Judge
  16. Derision
  19. David Lee \_\_\_\_\_
  20. Abuse one's welcome
  23. Curve
  24. Scrooge declaration
  25. Cheer
  26. Royal \_\_\_\_\_  
 Mounted Pol.
  27. Women's Rel. Org.
  28. Trig function
  29. Newts
  30. Tet start
  32. Kit \_\_\_\_\_
  33. 25 Down

34. Parseghian
35. Grace land?
39. Short-barreled pistol
40. "Crush" hour formation
42. Cell
43. Seed coat
45. Japanese Buddhism
46. Suffix for 71 Down?
47. Scotland river
48. Part of 42 Down
49. Ltr. insert
50. Be indebted
51. Burnt coal residue
52. Chorus line number?
53. Make sense (with up)
55. Sluggish
56. Basis
57. Hagman and Bird
61. Ark passengers
62. Swiss river
63. Repeat (mus.)
64. Made a lap
65. 13 Down sight
66. \_\_\_\_\_ rain will stay
67. Prolific artist/poet (Fr.)
68. Teachers' org.
69. Metric units of meas.
70. Apple taster
71. Dry but not brittle
72. Atl. crosser

### ANSWERS !!

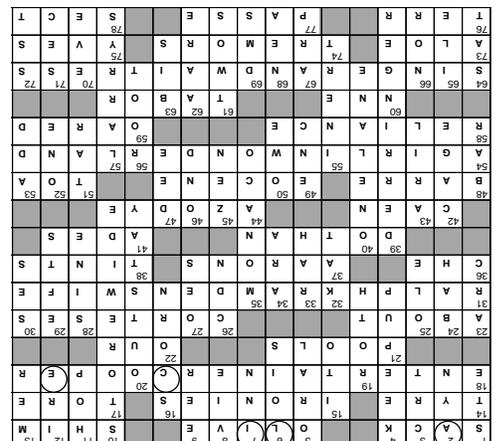
#### WHO AM I?

##### ACROSS

1. Game play
5. Martini swimmer
10. Level
14. Sur
15. Drama styles
17. Hied away
18. SEE 31 ACROSS!
21. Shares the commute

22. \_\_\_\_\_ Gang
23. In the area
26. Aztec conqueror and kin
31. SEE 54 ACROSS!
36. Despot Rivera
37. Hank and Burr
38. Pastels
39. S.E. Alabama city
41. Summer drinks
42. Normandy beach town
44. Versatile colorant

48. Wilkes-\_\_\_\_\_
49. Epochal rock system
51. Ode beginning
54. SEE 64 ACROSS!
58. Trust; dependence
59. Paddled
60. Phila. to NYC Dir.
61. Small drum
64. SEE 18 ACROSS!
73. African succulent
74. Seismic movements

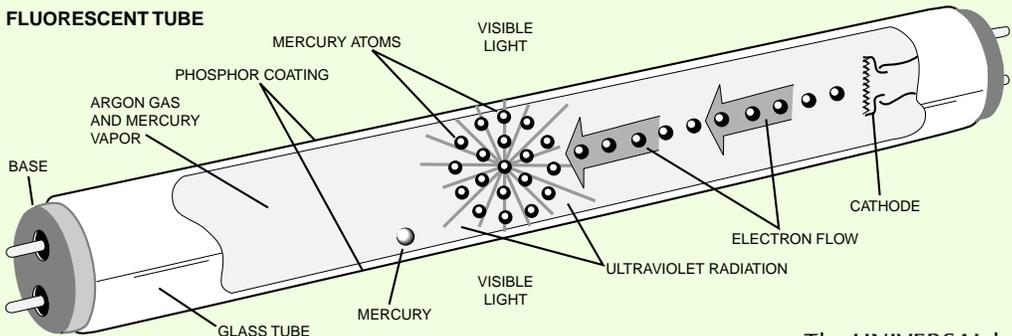


In our last installment of TECH CORNER, we addressed operational concerns associated with an Insect-O-Cutor®'s electrical grid (the "zapper"). This TECH CORNER looks at some concerns related to a unit's lamp tube/bulb operation.

**Q. How do lamps produce light?**

A. Starting with the electrical line current, primary power (110V, 60Hz U.S.A. and 220V/50Hz foreign) is directed to a lamp ballast. The lamp ballast is a type of electrical transformer; here the primary line current is converted to meet the specific needs (voltage, hertz, amperage, wattage...) of a particular lamp type before being sent to the lamp tube.

At the fluorescent lamp tube, current flows between the lamp's cathodes (coiled tungsten filaments coated with an electron-emitting substance). Between the cathodes and sealed within the tube is mercury vapor. The electrons emitted and flowing between the cathodes interact with the mercury vapor to produce ultraviolet (UV) energy.



In order to use this "raw" ultraviolet energy, the lamp tube's interior is coated with a phosphor lining. Phosphors have the unique ability to alter UV energy into "usable" segments of the light spectrum (black light, visible light, grow-light...). In other words, phosphors are excited to fluoresce by exposure to UV energy; that is, as they glow, they produce light.

**Q. What are the different types of ballasts — magnetic, electronic, universal?**

A. MAGNETIC ballasts are traditional or "old" ballasts. They accept primary power and "run" it around copper coils to convert the current to meet a lamp's starting and operational needs. The converted current is emitted in a steady and "strong" stream. A "strong" stream is initially needed to "heat up" or help start a cold lamp. Once lit, the lamp typically does not need a strong stream of current to operate; however, the magnetic ballast cannot regulate its outflow; it's either all or nothing.

In order to address this mismatch of current to a lamp's operational needs, engineers designed the ELECTRONIC ballast. Like a magnetic ballast, the electronic ballast initially supplies a steady and "strong" stream of current to light a cold lamp. After the lamp is lit, the electronic ballast regulates or reduces the current supplied to the lamp; that is, the lamp only gets the energy it needs. By reducing the amount of electricity supplied/used, electronic ballasts are considered to be "energy efficient".

The UNIVERSAL ballast is the newest type of ballast available. In essence, the universal ballast is an electronic (energy-efficient) ballast that can accept virtually any type of input primary power (110V,60Hz, 220V/50Hz, etc.). This is an important development for a number of reasons; including, being able to address fluctuating current (brownouts), allowing flexibility in facility electrical design, and simplifying component supplies for international/global operations.

**GERM-O-RAY®**

In addition to a revamped website, <http://www.germ-o-ray.com>, beginning this Spring the Germ-O-Ray® product line will focus on wall mounted air disinfection fixtures. Wall mounted air disinfection fixtures have been found to be more economical and practical as compared to in-duct fixtures. "Custom" installations, including possible in-duct applications, will still be offered by Germ-O-Ray®. Should you have any questions about the existing Germ-O-Ray® product line or Indoor Air Quality concerns, then please don't hesitate to call on us.

**FINGER LICKING GOOD?**

<http://www.ent.iastate.edu/misc/insectasfood.html>

You don't need to be stranded on a deserted island to discover the nutritional "benefits" of everyday insects. The kind folks of the Entomology Department at Iowa State University have compiled a reference chart to help you identify the fat grams and protein content found in everyday insects along with "tasty" recipes. Silkworm souffle anyone?



### Energy-Efficiency...

Interestingly, the 36" lamp emits well over twice the ultraviolet, insect-attracting energy compared to a 48" lamp. And as the 36" lamp is smaller in length and diameter than a 48" lamp, the 36" lamp is less impacting on landfills.

Smaller, stronger, more environmentally friendly, and more affordable to buy and operate... energy-efficient Insect-O-Cutors® can complement your energy conservation programs.

### INSECT-O-CUTOR® SIGHTINGS...

Although it's not the tour's highlight, anyone visiting the Hoover Dam will see a number of Insect-O-Cutor® 3389EG'S protecting the nation's energy supply from insect onslaughts. Mr. Earle Olson of Medina, Ohio kindly forwarded this snapshot to us. Remember, if you see an Insect-O-Cutor® in action at an unusual location (King Kamehameha's Palace, Hawaii... Hoover Dam, Nevada), then take a snapshot of it and forward it to us. If we use your picture in the "Dispatch" you'll receive an Insect-O-Cutor® tee-shirt.



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### VISIT OUR WEB SITES:

INSECT-O-CUTOR® <http://www.insect-o-cutor.com>  
GERM-O-RAY® <http://www.germ-o-ray.com>

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