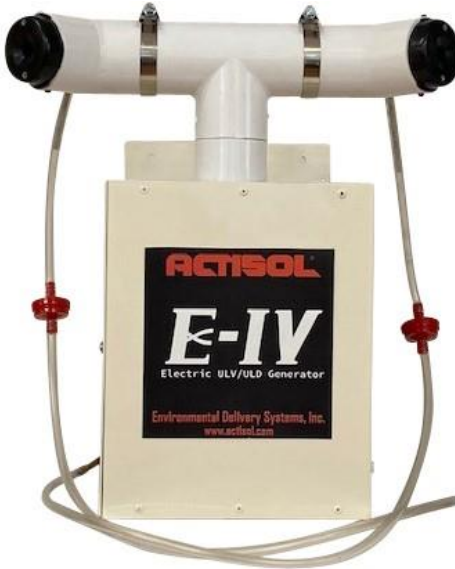


ACTISOL®

**E-IV Wall Mount Unit
PB80-20-7230**

**E-IV with Hand Cart & Timer Unit
PB80-20-7240**



OPERATING MANUAL

Actisol® E-IV Specifications

| | |
|---------------------------------|------------------------------------------------------------------------|
| E-IV Wall Mount Unit | Part # PB80-20-7230 |
| Height | 15 in. |
| Width | 12 in. |
| Depth | 10 in. |
| Weight | 20 lbs. |
| Power Cord | 10 ft. – 16 AWG |
| Chemical Pick Up Tubes | 60 in. |
| Droplet Size | 95% 1-20 Micron/MMD |
| E-IV With Cart and Timer | Part # PB80-20-7240 <i>5 Gal Storage Bucket Not Included</i> |
| Height | 43 in. |
| Width | 18.5 in. |
| Depth | 18 in. |
| Weight | 43 lbs. |
| Power Cord | 25 ft. – 16 AWG |
| Chemical Pick Up Tubes | 36 in. |
| Droplet Size | 95% 1-20 Micron/MMD |

Actisol® E-IV

Electric ULV/ULD Generator

Congratulations on your choice of the Actisol® E-IV Cold Aerosol Generator, an Electric ULV/ULD liquid insecticide delivery system.

This uniquely designed wall mount or cart mount, electric powered unit features dual nozzles that can be individually adjusted for directional spray.

Whether treating an open or divided area this unit combines the right amount of liquid with a high volume of moderately pressurized air to apply liquid insecticides in particles small enough to remain suspended in air for an extended period of time, thus allowing the insecticide to impact flying pests and exposed stages of crawling pests in the treatment area.

Manufactured in the USA

Environmental Delivery Systems, Inc.
314 Morningside Drive
Friendswood, TX 77546

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INSTALLATION OF WALL MOUNT UNIT

For maximum efficiency and proper chemical application the units should be strategically positioned in the area to be treated. Installation can be made at any convenient height, but should be above or away from obstructions which would interfere with the spray discharge from the nozzles.

The unit base has two holes for mounting. Bolt or screw the unit to a sturdy support, located as described above. Always mount the unit with the nozzles on top.

Each nozzle can be adjusted independently, up or down. In most situations the units can be positioned so they are in close proximity to existing outlets. After installation of the E-IV is completed, adjust nozzles and tighten clamps once set to the desired position for best dispersal.



Each E-IV unit, either individually or within a multi-unit system, requires a container or bottle for its chemical reservoir. It is recommended that the chemical reservoir not exceed a five gallon pail size as the E-IV does not include a pump.

OPERATING INSTRUCTIONS

Handle with care.

Do not place the unit where vibration and surface conditions would allow it to fall.

1. Always wear personal protective equipment.

When operating these units, always wear protective clothing, eyewear, chemical resistant rubber gloves, and a respirator. Refer to the insecticide label for specific instructions and other precautions.



2. Preparations and Guidelines when Making ULV Aerosol Applications. (*Mallis Handbook of Pest Control, 9th Edition*)

Refer to insecticide label for directions on proper preparation for area to be treated before operating this equipment. General preparation includes:

- Everyone in the treatment area must wear an approved respirator during treatment and when re-entering a treated area when the aerosol may still be present.

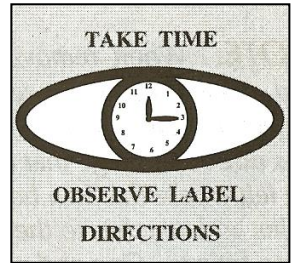
- Turn off all pilot lights or sources of open flame. Ventilation systems and air moving systems should be turned off. Appliances that routinely create high heat should be turned off. Computers and other electrical equipment should be turned off, covered, or removed from the treatment area.
- All non-pest management personnel must leave the treatment area. Cover or remove ornamental plants. Cover and seal all aquariums. Aquarium filters must be shut off and not turned back on until the aerosol is no longer present. Pets, including exotic pets (birds, amphibians, reptiles, arachnids) must be removed. Re-entry for exotic pets is not recommended for a period of 24 hours.
- All exposed food must be removed or placed in containers that will prevent contact with the insecticide. Food preparation utensils and surfaces must be covered or cleaned thoroughly before reuse.
- Close and lock all entry ways. Professionals may want to consider posting warning signs on doors opening into the treatment site.
- Open all doors, cabinets, storage areas, and drawers in the treatment area.
- Before reoccupation, thoroughly ventilate treatment area.
- Do not use gasoline powered equipment in grain mills, flour mills, grain storage, or grain processing areas. Grain/Flour dust may be highly explosive. Electric powered units must be certified as explosion proof for these sites. Check with manufacturers for details on certification.

3. With the equipment mounted/positioned, place pick up tubes with copper weights into chemical container. Plug unit into wall outlet or timer.

4. Follow the label directions on the insecticide container.

Always Observe Label Directions.

Do not operate the Actisol® E-IV with insecticides that are not labeled for aerosol, fog, or mist applications. Read the insecticide label to determine if the insecticide is EPA-approved for use in this type of equipment. Contact your chosen distributor for information on insecticides currently labeled for use in this type of equipment.



DO NOT USE VAPONA (Dichlorvos).

Special Nylon Nozzle Assembly (Part # PB80-05-152) is available if your application requires the use of VAPONA (Dichlorvos).

FORMULA TO DETERMINE RUN TIME

Use the following formula to determine the running time per unit in relation to the flow rate.

$$\frac{V}{1000} \times D = Q$$

V = Area volume to be treated, per unit

D = Dosage or quantity of insecticide per 1000 cubic feet (28m³)

Q = Total quantity of insecticide required

F = Flow rate

T = Running time per unit

EXAMPLE: (This sample assumes only one unit. LABEL DIRECTIONS MUST BE FOLLOWED)

V = 300,000 cubic feet (84,942m³)

D = .50 ounce per 1000 cubic feet (14gr/28m³)

F = 4.3oz/min (122gr/minute)

$$\frac{300,000}{1000} \times .50 = 150\text{oz.}$$

150

4.3 = 35 min. running time per unit (zone)

In this example you would set the appropriate zone time for 35 minutes.

DIAGNOSIS AND FIELD SERVICE

- 1. The unit runs, but no liquid flows through the nozzle.**
 - A. Check to be sure there is sufficient liquid in the container.
 - B. Check in line filter.
 - C. Remove nozzles from housings and check hose connections at the nozzles. Be sure they are not crimped or plugged.

- 2. Units are dispensing liquid but the wrong amount is being dispersed per area treated.**
 - A. Be sure there is sufficient insecticide in the container to complete the required running time.
 - B. Remove nozzles from housings and check hose connections at the nozzles. Be sure they are not crimped or plugged.

PARTS

We maintain a large inventory of replacement parts which can easily be ordered and shipped directly from our factory to you.

Call Today: 281-993-0019



SERVICE

If the Actisol® E-IV requires factory service the most efficient and economical way to get your unit to us is to utilize our Inbound Return Service program. All you have to do is properly prepare your unit for shipping, go to www.actisol.com/service/ and complete the online form. Once the information is received, we will schedule the pickup of your package with UPS. Typically the package will be picked up within 24 hours or the following business day.

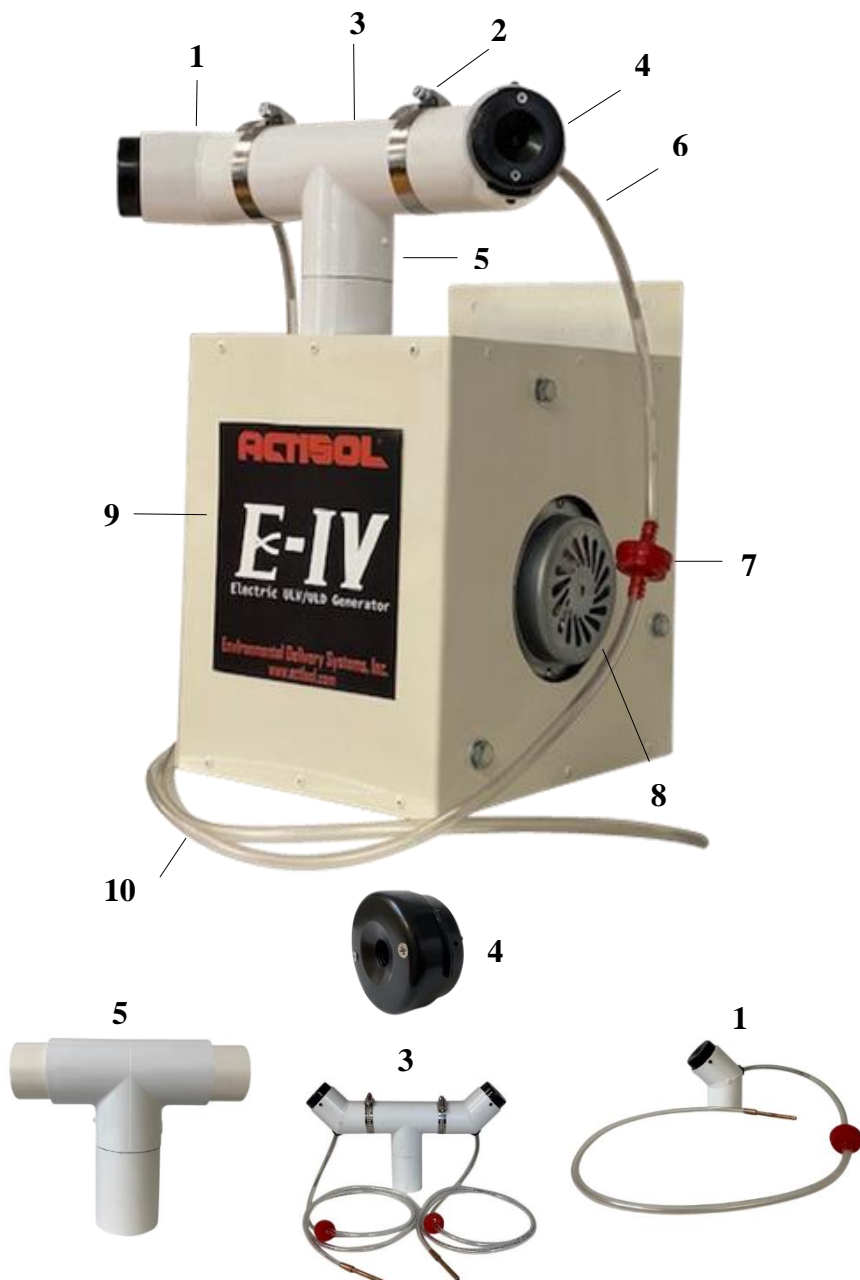
If you prefer to ship your system to us using a different carrier or your own shipping account, please ship to:

Environmental Delivery Systems, Inc.
Attn: Service Department
314 Morningside Drive
Friendswood, TX 77546

NOTE: Post Warranty service will be billed for parts, labor, packaging (if needed), and freight (inbound and outbound).

HINT: Be sure to save your original factory packaging for future use. Should your unit require factory service this specially designed packaging is proven to protect your system during shipping and may be used several times with proper care.

ACTISOL® E-IV WALL MOUNT



| NO. | ITEM | DESCRIPTION |
|------------|------------------|--------------------------------------|
| 1 | PB80-05-801-1 | Nozzle Assembly Complete |
| 2 | 80-03-112 | Worm Drive Clamp |
| 3 | PB80-05-4001-02 | Motor Outlet Tee Assembly Complete |
| 4 | PB-80-05-151 | Nozzle Assembly |
| | PB-80-05-152 | Nozzle Assembly - Nylon |
| 5 | PB-80-05-4001-01 | Motor Outlet Tee Sub Assembly |
| 6 | 80-08-1149-1 | Spring – 6” |
| 7 | 80-13-1120 | In Line Filter |
| 8 | 80-03-192 | Motor Blower |
| 9 | 80-05-4050 | E-IV Decal |
| 10 | 80-05-4042 | Clear Tubing – 3/16” x 5/16 “ (IN) |
| | 80-05-4001-02 | Schedule 40 - 45° Elbow – NOT SHOWN |
| | 80-08-234 | Grommet (For 45° Elbow) – NOT SHOWN |
| | 80-05-522 | Cushion Tube Clamp – NOT SHOWN |
| | 80-05-4041 | Copper Tubing-1/4” (IN) - NOT SHOWN |
| | 80-05-4051 | Standoff – ½” OD x 4.5” – NOT SHOWN |
| | 80-06-3035 | Crimp Sleeve – NOT SHOWN |
| | 80-05-4464 | Cord Strain Relief – NOT SHOWN |
| | 80-72-0001 | HC Screw – 5/16”-18 x 6” – NOT SHOWN |

ACTISOL® E-IV W/CART



| NO. | ITEM | DESCRIPTION |
|------------|------------------|------------------------------------------------------------------|
| 1 | PB80-05-801-1 | Nozzle Assembly Complete |
| 2 | 80-03-112 | Worm Drive Clamp |
| 3 | PB80-05-4001-02 | Motor Outlet Tee Assembly Complete |
| 4 | PB-80-05-151 | Nozzle Assembly |
| | PB80-05-152 | Nozzle Assembly - Nylon |
| 5 | PB-80-05-4001-01 | Motor Outlet Tee Sub Assembly |
| 6 | 80-08-1149-1 | Spring – 6” |
| 7 | 80-13-1120 | In Line Filter |
| 8 | 80-03-192 | Motor Blower |
| 9 | 80-05-4050 | E-IV Decal |
| 10 | 80-05-4042 | Clear Tubing – 3/16” x 5/16 “ (IN) |
| 11 | PB-05-4100 | E-IV Cart With Timer <i>5 Gal Storage Bucket Not Included</i> |
| 12 | 300123 | 25’ Extension Cord |
| 13 | 4010028 | 1 ½” Strap w/ Side Release Buckle |
| 14 | 4010011 | Wheel – 8” |
| 15 | 8010056 | Shock Absorber Foot |
| | 80-05-4104 | 24 Hour Timer – NOT SHOWN |
| | 80-05-4001-02 | Schedule 40 - 45° Elbow – NOT SHOWN |
| | 80-08-234 | Grommet (For 45° Elbow) – NOT SHOWN |
| | 80-05-522 | Cushion Tube Clamp – NOT SHOWN |
| | 80-05-4041 | Copper Tubing-1/4” (IN) - NOT SHOWN |
| | 80-05-4051 | Standoff – ½” OD x 4.5” – NOT SHOWN |
| | 80-06-3035 | Crimp Sleeve – NOT SHOWN |
| | 80-05-4464 | Cord Strain Relief – NOT SHOWN |
| | 80-72-0001 | HC Screw – 5/16”-18 x 6” – NOT SHOWN |

PRODUCT LIMITED WARRANTY

Environmental Delivery Systems, Inc. and its products are warranted to be defect free in materials and workmanship under normal use, for a period of (1) year from the date of manufacture or (1) year of use, with proof of purchase. This limited warranty will not exceed (2) years, in any event.

Environmental Delivery Systems, Inc. shall not be liable for freight damage incurred during shipping. Package returns carefully. If the original carton is not available, pack the unit in a durable box and protect the unit as best you can. If using foam packing materials, be sure to place the unit in a plastic bag before adding materials to carton.

Environmental Delivery Systems, Inc.'s obligation under this warranty policy is limited to the repair or replacement of the unit. All returns will be tested per Environmental Delivery Systems, Inc. factory criteria. Units found not defective, under the terms of this limited warranty, are subject to the charges paid by the returnee.

Warranty replacement will be shipped on a freight allowed basis. Environmental Delivery Systems, Inc. reserves the right to choose the method of transportation. This limited warranty is in lieu of all other warranties, expressed or implied, and no other person is authorized to give any other warranty or assume obligation or liability on Environmental Delivery Systems, Inc.'s behalf. Environmental Delivery Systems, Inc. shall not be liable for any labor, damage or other expense, nor shall Environmental Delivery Systems, Inc. be liable for any indirect, incidental or consequential damages of any kind incurred by the reason of the use or sale of any defective product or part.

Return Policy

All units must be flushed of any chemicals before shipping. Carriers, including U.S.P.S., airlines, UPS, ground freight, etc. require specific identification of any hazardous materials to be shipped. Failure to do so may result in a substantial fine and/or prison term. Check with your shipping company for specific instructions.

All Units must be flushed of any chemical (ref. OSHA Section 1910.1200 (d)(e)(f)(g)(h)) and **NO** hazardous chemicals will be accepted for service or warranty consideration. Environmental Delivery Systems, Inc. reserves the right to request a Material Safety Data Sheet from the returnee for any product it deems necessary. Environmental Delivery Systems, Inc. reserves the right to "disposition as scrap" any products returned which contain unknown fluids. Environmental Delivery Systems, Inc. reserves the right to charge the returnee for all costs incurred for chemical testing and proper disposal of components containing unknown fluids. Environmental Delivery Systems, Inc. requests this in order to protect the environment and personnel from the hazards of handling unknown fluids.

ACTISOL[®].COM

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