



PORTABLE ELECTRIC ULV (ULTRA LOW VOLUME) DEVICE USER'S MANUEL

Electric ULV device is a ULV (Ultra Low Volume) device that can produce very low volume drops. As the ideal solution spraying unit, it can be used in hotels, restaurants, canteens, public places, camping areas, schools, offices, clinics, planes, trains, barns, meat combinations, farms, mills, greenhouses, hospitals, kinder gardens etc. very good results are obtained in spraying the places.

The electric ULV device has a flow rate adjustment regulator that is adjusted to 0 - 0.167 ml / min (0-10 LPH) depending on the type and viscosity value of the sprayed liquid, thanks to the system that determines the position of the flow adjustment mechanism (number of turns).

Most Conspicuous Features of Electric ULV Device:

1. It can be used for giving the vaccine at the poultry farms and houses by inhalation
2. It consist of copolymer plastic header and tank resistant the chemical effects.
3. A powerful electrical motor provides the most ideal spraying.
4. Provides proper particle diameter adjustment in proportion to the sprayed liquid amount.
5. Thanks to the drop diameters that can vary between 0 - 49 microns, the result is 100% successful as the solution suspended in the air completely affects every area of the cavity with zero loss.
6. Due to its versatility, it allows atomization of not only insecticidal solution, but also disinfectants, antiseptics and deodorants.
7. It has higher atomization than normal atomizers of the same class.

SAFETY WARNINGS

1. Attention should be paid to all warnings on the label regarding the functions used, and the parts of the equipment that come into contact with the formulations should not be handled before thoroughly cleaning with pressurized water.
2. All personnel exposed to aerosol must take an appropriate respirator mask (gas mask) and other protective clothing must wear.
3. Formulations containing solvents that damage plastic should not be sprayed. (eg methylene chloride).
4. Spraying should not be done near an open flame.
5. The tank suction hose should be checked regularly.
6. Air filter cleanliness should be checked regularly. Clogged air filter can cause improper spray performance and overheating of the electric motor.
7. The device should be operated in a dry environment.
8. After each application, the device must be cleaned and the tank must be emptied.



IMPORTANT WARNING

1. The electric ULV device is suitable for dispensing liquids (medicine, perfume, water, disinfectant, etc.) in the form of aerosol droplets.
2. Sample Average Consumption Values of Flow Rate Regulator Applied in Various Positions are given below:
 - a. In the tests performed, it was determined that the consumption value is 0-167 ml / min when water is used.
 - b. The diameter of the particles is between 0 and 49 microns depending on the flow rate. More specifically, at the average flow rate setting of "1", 70% of the particles are smaller than 22 microns and less than 10% are around 22 - 29 microns.
 - c. Thanks to these particles, the sprayed area is completely covered and provides maximum effect for environment disinfection. As with large particle diameters (100-500 microns in diameter), the problem of loss of most of the liquid before reaching the target or on the contrary, the problem of being ineffective due to minimum contact with the existing environment in small particles (with a diameter of less than 1 micron) is eliminated.
 - d. In atomizers, in both cases (large drop or small drop), positive results cannot be obtained and there is a loss of solution. It is possible to adjust the particle diameter using the controlled spray system of the electric ULV device.

PARTICLE SIZE	FALLING TIME (1 METER HEIGHT)
100 micron	5 seconds
50 micron	5 minutes
20 micron	4 hours
1 micron	8 hours
0,25 micron	Not recommended.

Technical Specifications	
Input Power:	220V – 1.400W, 50 – 60Hz
Engine Header:	Copolymer. Resistant to all kinds of corrosion
Optimum range:	8 – 10 meters
Chassis:	Electrostatic painted
Filter:	Specially designed sponge (2 spares)
Length:	44cm
Width:	14cm
Height:	58cm
Tank capacity:	10 liters
Using:	2 pieces of Klortab NaDCC 17,4gr tablets to 10 liter water (tank capacity) and 1.000ppm available chlorine solution. 1.000ppm available chlorine is the solution strength recommended by the World Health Organization and British CDC in combating COVID-19.
Tank:	Copolymer. Resistant to all kinds of corrosion
Empty weight:	5,5kg
Full weight (filled with water):	15,5kg
Flow rate:	0 – 10 liter/hour
Particles size:	9 – 49 micron

START THE DEVICE SYSTEM

1. First, the tank cover is opened by checking whether the plug of the device is plugged into the electrical socket.
2. Care should be taken not to mix different disinfectants (acidic - basic) into the formulation.
3. After the disinfectant filling is completed, the tank cover is tightly closed.
4. Before plugging in, care must be taken that the on / off switch of the device is in the OFF position.
5. The device is placed in the most effective part of the environment to be disinfected and its switch is turned (ON).
6. After a few seconds the device starts to spray.



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7. The flow rate regulator is adjusted and the desired spraying performance is achieved with the help of the knurled knob.

When using with Klortab NaDCC tablets, having the regulator in the middle (20 - 28 micron) will provide an effective disinfection.

TERMS OF USE OF THE DEVICE

1. GENERAL WARNINGS

- The labels and commands of the disinfection to be used should be read carefully.
- Adequate ventilation should always be provided for disinfectant and sprayed parts.

2. INTERNAL APPLICATIONS

- Internal doors must be closed for the most effective result.
- Exposed nutrients should be taken out and protected.
- During the procedure, a full mask should be worn near the device.
- The disinfectant rate and time required for the application area should be calculated.
- The process starts from the farthest point to the exit and progresses slowly to the exit according to the timing.

When the device is operated at 100% performance, it is possible to disinfect 860m² area in 43 minutes with 5 liters of Klortab NaDCC 17,4gr solution. Therefore, 1 minute is sufficient for an area of 20m² and 120ml solution is spent during this period.

3. OUTSIDE APPLICATIONS

Areas, house, picnic fields and the around of swimming pools.

- If the wind speed exceeds 15 km / h, the administration of solutions is not recommended.
- It should not be used against wind during the process.

MOTOR REPLACEMENT INFORMATION OF ELECTRIC ULV DEVICE

Except for technically competent staff, the engine parts should not be touched, and technical support should be requested from the manufacturer.

IMPORTANT WARNING: Before intervening in the electrical ULV Device, it should be noted that the plug of the device is not plugged in.

THE METHOD OF DISASSEMBLING THE ENGINE OF THE DEVICE:

1. ULV Header consists of three main parts.
 - 1.1. ULV body
 - 1.2. Motor housing
 - 1.3. Filter Housing Cover

- The air filter is removed by pulling the Filter housing cover of the ULV header.
- Its head is separated from the body.
- The motor housing, which is attached to the body part, is removed by loosening the 6 screws with nuts on the sides.
- Care should be taken as the motor power cables come from the ULV body. The motor is taken out by removing the connection cables from the motor lugs.

2. Engine parts are divided into 2 among themselves.
 - 2.1. Motor propeller and winding part
 - 2.2. Engine propeller cover

- In order to separate the motor from the propeller cover, remove the 2 screws with nuts at the bottom by loosening and remove the motor by gently separating it from the edges.



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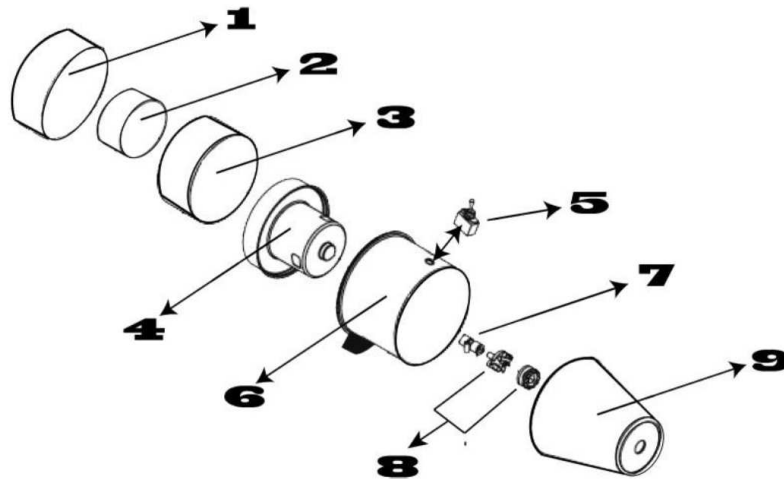
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- After the propeller cover and filter housing are separated, the engine will successfully complete the disassembly.

METHOD OF INSTALLING THE ENGINE OF THE DEVICE

- Before mounting the motor of the ULV header, the solution hose connected to the cut-up system on the body should be checked and care should be taken to prevent any crushing and damage.
- The motor connection cables are fixed by soldering to the motor lugs.
- The motor housing is placed in the main body and the mounting screws are tightened. After the air filter is placed in its place, the process is completed by closing the filter housing cover.



1. Filter housing
2. Filter
3. Motor housing
4. Motor
5. ON / OFF switch
6. Intermediate Body
7. Pneumatic part
8. Atomizer
9. Tip of the body