

# The Outstanding Advantages Of Hudson Porta-Pak ULV Sprayer Assure Better Results!

## What is an ULV spraying?

Ultra low volume (ULV) spraying is defined as the volume of application below 5L/ha for ground crops and 20L/ha for trees respectively. To control pest effectively in such an ultra low dosage, the concentration of chemicals used should be high and the droplet size be as tiny as aerosol (<50 microns). This advanced technique not only saves time, labor, diluent and pesticides, but also provides excellent penetration, uniform coverage and maximum effectiveness, as compared to traditional spraying methods. It is especially suitable for uses in agriculture, environmental pest control and public health programs. The HUDSON's ULV sprayer is one of the best-motorized knapsack sprayers that can apply concentrated pesticides in minute droplets at ultra low dosage rates.

## Design Features

### COMFORTABLE

The Hudson Porta-Pak ULV sprayer is an easy-to-operate, user-friendly product which can be used in various conditions. It weighs only 16.3kg and is comfortable to carry. When spraying, it generates lower noise and less vibration than conventional motorized knapsack mistblowers.

### EFFICIENT

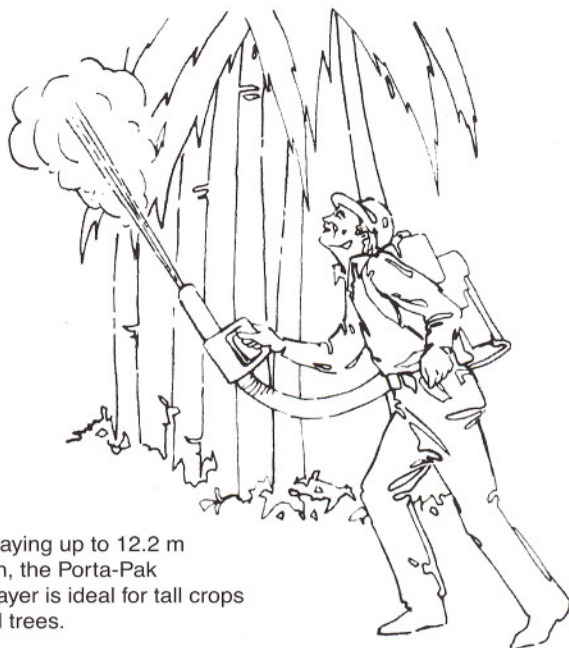
It is equipped with an easy-starting, heavy-duty engine. With three interchangeable nozzle tips, it can provide consistent and accurate application rate with a range from 0.033 to 0.152L per minute. More importantly, the liquid droplet can be atomized to 18-75 microns. With its powerful air blast, a strong turbulence is created which results in covering target surfaces uniformly and effectively. Theoretically, the maximum coverage density\* can reach 3200 droplets per square centimeter. It also produces an excellent penetration - 23m horizontally and 12.2m vertically. At a discharge rate of 60ml per minute, with horizontal swath length of 23m and walking speed of 30m per minute, it can treat up to 2.5ha per tankful of pesticide. (\*Application rate = 1L/ha)

### CONVENIENT

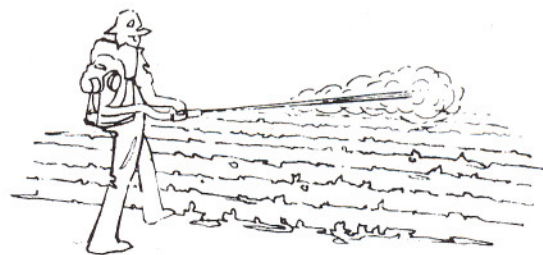
There are significant savings of chemical, diluting liquid and labor. Compared with other mistblowers, the Hudson Porta-Pak ULV sprayer requires 10% of the water for dilution. In other words, the use of concentrated pesticide, with significant lowering the frequency of pesticide tank refill, can increase labor efficiency and reduce the cost and inconvenience of spraying at the site where water is scarce. It is ideal for use with various types of chemical substances (e.g. insecticides, herbicides, biological control substances or vaccines) in any formulations such as oil-based liquid, aqueous solution, emulsifiable concentrate and wettable powder in high concentration. Thus, it is especially designed for the control of agricultural pests and disease vectors.

### ENVIRONMENTALLY SAFE

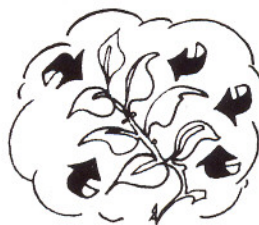
The ultra low volume dosage, combined with high impaction and fine droplets, enhances the adhesive capability of chemicals on the surfaces sprayed and eliminates ground contamination caused by the loss of chemicals through natural run-off.



Spraying up to 12.2 m high, the Porta-Pak sprayer is ideal for tall crops and trees.



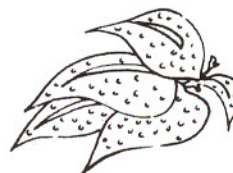
Sprays 23 m horizontal swath. Covers large areas quickly, saves time and work.



Because of unique nozzle discharge system, pesticides uniformly and effectively cover target. Also, less goes on ground, reducing pesticide cost.



No heavy waterload to carry. Operator has less fatigue, can do more work in less time. Ideal for use where water is scarce or transporting is a problem.



Highly turbulent spray action envelops and covers all plant surfaces for better control.