# *Why the Chinook Fan Prop?*

## ***Chinook fans have improved aerodynamics – 80 degree sector angle!***

The aerodynamics of the Chinook blade makes it different from other blades. While other fan props move air within sector angle coverages of 45-47 degrees, the Chinook prop widens the sector angle circle of coverage to 80 degrees, significantly increasing the velocity and movement of air on the ground where coverage is needed. In addition, an increase of air movement directly under the tower is very noticeable.

## ***Chinook fans cover more ground, wider area, and longer duration – 15+ acres!***

Numerous field comparison tests have been performed comparing the Chinook blade with competitive blades that do not have the trailing edge wedge (i.e. Gurney Flap). In all scenarios, the **Chinook blade has performed better**, with increased velocity, covering more ground, over a wider area, and for a longer duration of time during each rotational cycle, **with no increase in horsepower usage**. Chinook fans conservatively **protect 15+ acres in mature tree fruit, up to 18 acres in lower growing crops** like wine grapes, strawberries, kiwis, etc. Compared with competitive fans of the same horsepower, **the Chinook fan will protect approximately 100-150 feet more on the radius.**

## ***Chinook fans protect the fruit bud longer and better!***

Under normal radiation frost conditions, ice nucleation begins to form after 4 minutes of no air movement. Whereas other competitive fans return to the plant tissue within 4 minutes, the Chinook fan is back protecting the fruit bud/plant in 3 ½ minutes. **The air movement on the plant tissue has increased from 35 seconds to over 60 seconds for each 4 ½ minute gear head rotational cycle with the Chinook fan**. Chinook's wider sector angle coverage mixes air not only in the horizontal plane but also in the vertical plane. This advantage gives you additional plant tissue protection even on uneven ground up to 3 ½ - 4 degrees of slope with no special add-on equipment.

## ***Chinook fans move larger volumes of air, more immediate temperature rise!***

Drawing warmer air from the upper atmosphere with **increased sector angle helps to raise the temperature on the orchard floor more quickly than with other prop styles.** This can be advantageous when trying to get units started in already cold pockets. In one documented test, the Chinook fan blade created 3,857,187 CFM compared with 1,733,362 CFM of another competitive fan blade. This is over 2 times more volume of mixed air with the Chinook fan.

# ***Chinook fans - your best value for dollar spent***

# ***Satisfaction Guaranteed!***

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