



# **NELSON HARDIE®**

## **4000P**

PTO-Drive Air Blast Orchard Sprayer  
40" Diameter, 12-Blade SuperTuff® Fan



▲ **NELSON HARDIE® 4000P** - 500 Gal. Sprayer

Both Sprayers shown include Optional Work Lights, Right-side Step and Tank flanges

▼ **NELSON HARDIE® 4000P** - 1,000 Gal. Sprayer





# NELSON HARDIE® 4000P

Single 40" Diameter Axial-flow Fan • PTO-Driven

***Rugged Construction • Easy Operation • Low Maintenance • Best Performance***

The NELSON HARDIE® 4000P PTO-drive sprayer, with 40" diameter fan, will provide excellent spray coverage in orchards with medium to tall trees. The 4000P is perfect for nuts and stone fruit as well as some taller trees such as older almonds and even close-planted walnuts.

## FRONT AIR INTAKE

The 4000P features "Front-Air Intake" which means that the air is drawn from between the Tank and Fan prior to blowing into the trees. The Front Fan guard remains relatively clean of debris compared to a rear-intake fan.

## BUILT TO PERFORM

The NELSON HARDIE® 4000P will deliver maximum coverage and penetration in medium sized trees and through dense foliage. The 40" diameter - 12 blade SuperTuff® fan, with adjustable pitch blades, are uniquely designed from hub to tip to produce efficient, quiet air flow and an even spray pattern. SuperTuff® fans have no welds that can crack, they never require costly balancing and are inexpensive to replace.

## RUGGED DURABILITY

Nelson builds the 4000P to exact specifications. Tank is built from heavy gauge Type 304 stainless steel with 3/16" thick stainless mounting rails for the ultimate in strength, durability and corrosion resistance. The galvanized 3" x 8" tubular frame and stainless Doors and panels further reduce your maintenance time and costs. The rugged axle assembly and heavy duty tongue hitch can be adjusted for preferred ground clearance and level towing.

## DEPENDABLE POWERTRAIN

Power is transferred from the tractor via the heavy-duty PTO driveshaft featuring a compact high torsional strength 80° constant-velocity joint for smooth operation even on tight turns. Power is transmitted to the Fan through the heavy-duty 2-speed gearbox (with neutral). The reinforced composite Fan is light in weight and the

through-tank driveline includes a run-down clutch. Both features help to minimize shockloads and greatly extend drivetrain life.

## EASY TO OPERATE

All NELSON HARDIE® PTO-driven sprayers include 12-volt Electric Switches in a stainless Control box at the Operator station with heavy-duty cord. The Set & Forget® Pressure Regulator enables quick adjustment and helps keep spray pressure where you set it. Roll-over Discharge Valves with Anti-drip provide easy calibration versatility.

## MINIMAL MAINTENANCE

Stainless steel is used without exception from the Tank to the Discharge Manifolds. Stainless valves and fittings completely eliminate rust and corrosion, saving you costly downtime. The 8" x 12" high-volume Suction strainer and 3" x 8" Discharge strainers are all stainless steel and offer a variety of stainless screen choices.

The dependable 2-stage Centrifugal pump with twin 7 inch impellers produces up to 100GPM at 200PSI which provides plenty of spray volume and excellent Tank agitation. The NELSON HARDIE® Jet Agitation system, with high-volume Eductors at both front and rear of the Tank, keeps even heavy powders in suspension. While more effective than Mechanical agitation, Jet agitation is maintenance-free, eliminating bearing/belt maintenance and seals that eventually leak. If you prefer, Nelson offers stainless Mechanical agitation with a 1-1/4" diameter shaft.

## PROVEN FAVORITE

NELSON HARDIE® sprayers have proven themselves with discriminating individual farmers as well as large ranches and Custom applicators that put hundreds of hours on machines each year. These tough yet very effective sprayers will go the distance, giving your crop the protection it needs and providing you with many years of dependable service.

## STANDARD FEATURES

- 40" diameter Fan, 12-blades, SuperTuff® composite
- Electric Sprayer Controls, R&L Spray Valves
- Large Liquid Sight Gauge on front panel
- 2-stage Centrifugal Pump, 100GPM @ 200PSI
- 16.5L x 16.1, 10-ply Tires, ribbed (500 Gal. sprayer)
- 21.5L x 16.1, 14-ply Tires, ribbed (1,000 Gal. sprayer)
- H.D. adjustable height Hubs and Spindles
- Galvanized Frame, 3" x 8" heavy wall tubing
- Galvanized heavy gauge Fan Housing and Guards
- Galvanized Lower Volutes, adjustable
- Roll-over Discharge Valves with Anti-drip
- Ceramic Orifices and Swirl Cores
- Stainless steel Tank, 500 Gal., 12 gauge, T304
- Stainless steel Fill Basket, 16" Dia. x 17" deep
- Stainless steel Jet Agitation with Eductors
- Stainless steel "Set & Forget" Pressure Regulator
- Stainless steel Suction Strainer, 8" Dia. x 12" long
- Stainless steel Discharge Strainers, 3" Dia. x 8" long
- Stainless steel Plumbing Fittings and Clamps
- Stainless steel Hoods, Doors and Panels

## OPTIONS

- Tank size: 500 Gal. to 1,000 Gal. and up to 4,000 Liters
- Tires: 11.25 x 24 ribbed or 21.5L x 16.1 ribbed or 21.5L x 16.1 Turf & Field
- Cable Controls or Hydraulic Controls
- Two (2) Work Lights with S/S Guard
- Tank Flange, 2" or 3", S/S (welded to Tank)
- Mechanical Agitation, 1-1/4" Dia. shaft, S/S
- ONE SHOT® Tree Recognition system
- Micro-Trak Rate controller with wheel sensor

## SPECIFICATIONS

- Tractor Requirement: 70 - 100 PTO HP / 540 RPM Max
- O.A. Width: 500 Gal.: 100" / 1,000 Gal.: 102"
- O.A. Length: 500 Gal.: 194" / 1,000 Gal.: 223"
- O.A. Height: 500 Gal.: 65" to 75" adjustable  
1,000 Gal.: 75" to 85" adjustable
- Empty Weight: 500 Gal.: 3,400 Lbs.  
1,000 Gal.: 4,000 Lbs.



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