



# **NELSON HARDIE®**

## **6800E**

**Engine Drive Air Blast Orchard Sprayer**  
**140HP with Twin 34" Diameter, 12-Blade SuperTuff® Fans**



**NELSON HARDIE® 6800E - 500 Gal. Sprayer with Dual 34" Dia., 12-Blade Fans**  
**Sprayers shown with Optional Work Lights and Turf & Field Tires**



# NELSON HARDIE® 6800E

Dual 34" Diameter Reinforced Composite Fans - 140HP Engine

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

The NELSON HARDIE® 6800E engine-drive air-blast sprayer provides exceptional coverage in medium to tall trees such as almonds, pistachios and hedge-row walnuts as well as crops like citrus, with dense foliage.

## BUILT TO PERFORM

The 6800E features two 34" Dia., Co-Axial, 12-blade SuperTuff® reinforced composite fans for the ultimate in performance. Fan blades are uniquely designed from hub to tip which, not only produce an even and quiet air flow, but are very efficient, providing maximum air delivery and making the most of engine horsepower. These long-lasting fans are light in weight, eliminating the need for a clutch and the associated maintenance. Also, unlike heavy welded steel fans, the Nelson SuperTuff® fans have no welds that can crack, they never require costly balancing and are very inexpensive to replace.

The 4-cylinder engine and frame design results in a relatively short overall length with a short turning radius making the 6800E a great choice in orchards with tight headlands and narrow row spacings.

## DEPENDABLE POWERTRAIN

The 6800E is powered by the 140HP, 4.5 Liter John Deere Powertech E diesel engine that is turbocharged, air-to-air after-cooled in Tier 3 or Interim Tier 4 and includes safety shut-down protection. Power is transferred to the Fans through the strong 1610 series driveline.

## RUGGED DURABILITY

NELSON HARDIE® sprayers are built with uncompromising attention to detail. The 500 gallon chemical tank is built from heavy 12 gauge Type 304 stainless steel with 3/16" thick stainless mounting rails for the ultimate in strength, durability and corrosion resistance. Doors, hood, front and side panels are also stainless steel to further reduce your maintenance time and costs.

The 3" x 8" heavy wall tubular frame and the heavy gauge fan housing are both galvanized for long-lasting durability. The rugged axle assembly and heavy duty tongue hitch are easily adjusted for preferred ground clearance and level towing.

## EASY TO OPERATE

NELSON HARDIE® Engine-drive sprayers include Electric controls with Full engine instrumentation on an LCD monitor at the Operator station. Another exclusive, the NELSON HARDIE® "Set and Forget" Pressure regulator helps keep spray pressure constant from full tank to empty and enables quick water pressure adjustment.

Roll-over Discharge valves with Anti-drip provide extra calibration versatility while ceramic orifices and swirl plates (standard) withstand the most abrasive chemicals.

Other important features include the extra deep, heavy gauge stainless steel Fill basket and the Nelson Mfg. exclusive "Non-Splash" tank lid which allows tank venting in both directions.

## MINIMAL MAINTENANCE

Stainless steel is used on all plumbing fittings from the 500 gallon tank to the discharge manifolds eliminating rust and corrosion and saving costly downtime. The huge 8" x 12" high volume Suction Strainer is all stainless steel and extra large Discharge Filters are all designed to maximize time before needed cleaning.

The dependable two-stage Centrifugal Pump with twin 7-inch Impellers produces up to 100 GPM at 200 PSI which provides plenty of spray volume and excellent tank agitation.

The NELSON HARDIE® Jet agitation system with high-volume Eductors keeps even heavy powders fully suspended in the tank water, proving to be more effective than Mechanical agitation without bearing and belt maintenance or having to rely on shaft seals that eventually leak. Nelson offers Mechanical agitation that includes an 1-1/4" stainless shaft, if you prefer.

## PROVEN FAVORITE

NELSON HARDIE® sprayers have become a favorite with demanding custom applicators as well as large farms and discriminating individual farmers. These tough yet very effective sprayers will go the distance, giving your crop the protection it requires and providing you with many years of dependable service.

## STANDARD FEATURES:

- Twin 34" Diameter Co-axial Fans, 12-blades, SuperTuff® reinforced composite
- Electric Sprayer Controls: Valves and Throttle
- Full Engine instrumentation on LCD screen
- Large liquid Sight Gauge on front panel
- 2-Stage Centrifugal Pump, 100GPM @ 200PSI
- 21.5L x 16.1, 14-ply Tires, ribbed
- H.D. adjustable height Wheel spindles and Hitch
- Galvanized Frame, 3" x 8" heavy wall tubing
- Galvanized heavy gauge Fan housing & Guards
- Galvanized Lower Volute, 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" tall
- Stainless steel "Non-Splash" tank lid
- Stainless steel Jet Agitation with Eductors
- Stainless steel "Set & Forget" regulator
- Stainless steel Suction Strainer, 8"Dia.x12" long
- Stainless steel Discharge Strainers, 3"Dia.x8"
- Stainless steel Discharge Manifolds
- Stainless steel Plumbing fittings & clamps
- Stainless steel Hoods, Doors, Panels

## OPTIONS:

- Tank size: Any size from 500 Gal. (2000 Liters) to 1,000 Gal. (4000 Liters)
- Tires: 11.25x24 ribbed or "Turf & Field" 21.5x16.1 (or Owner choice)
- Two (2) Work lights, LED, with S/S Guard
- Tank Flange, 2" or 3"FPT, S/S, welded to Tank
- Mechanical Agitation, 1-1/4" Dia. shaft, S/S
- ONE SHOT® Tree recognition system
- Rate Controller, MicroTrak® with Wheel Sensor

## SPECIFICATIONS:

**Fans:** Two 34" Dia., 12-blades at 45° pitch

**Engine:** John Deere PowerTech E, 140HP diesel, 4.5 Liter, Turbocharged, Aftercooled, Tier 3 or IT-4

**Fuel Capacity:** 88 Gal. (Dual Fuel tanks)

**O.A. Width:** 500 Gal.: 100" / 1,000 Gal.: 102"

**O.A. Length:** 500 Gal.: 227" / 1,000 Gal.: 256"

**O.A. Height:** (21.5 Tires) - 500 Gal.: 65" to 75" adjustable - 1,000 Gal.: 75" to 85" adjustable

**Ground Clearance:** 9" to 19" (21.5 Tires)

**Weight (Empty):** 500 Gal. 5,350 Lbs.

1,000 Gal.: 5,950 Lbs.



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