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# NELSON HARDIE® SUPER 80

Engine Drive Air Blast Orchard Sprayers  
173HP or 225HP with Dual 40" Diameter Co-Axial Fans



▲ NELSON HARDIE® SUPER 80 - 500 Gallon

▼ NELSON HARDIE® SUPER 80 - 1,000 Gallon



## NELSON HARDIE® SUPER 80

Dual 40" Reinforced Composite or Cast-Aluminum Fans - 173HP or 225HP

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

NELSON HARDIE® Super 80 engine drive sprayers, with twin 40" diameter Fans, provide exceptional coverage in tall trees such as walnuts and pecans and crops with heavy foliage such as citrus.

### BUILT TO PERFORM

The Super 80-C series feature two SuperTuff® reinforced composite fans with 16 Blades for the ultimate in performance. 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 Super 80-AX series boasts dual 10-blade Cast-aluminum Fans along with a heavy-duty 11" Dia. centrifugal clutch which affords easy engine starting and smooth shut-down.

The blades on both Fan designs 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.

### DEPENDABLE POWERTRAIN

The NELSON HARDIE® Super 80 is powered by dependable John Deere PowerTech 6-cylinder diesel engines that are turbocharged, air-to-air after-cooled in Tier 3 or Interim Tier 4 and include safety shut-down protection. Engine horsepower choices include 173HP and 225HP.

### RUGGED DURABILITY

NELSON HARDIE® sprayers are built to stringent specifications. The 500 gallon chemical tank is made using 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

All NELSON HARDIE® Engine-drive sprayers include Electric controls and Full engine instrumentation with LCD monitor at the Operator station. Display information includes Tach, Oil pressure, Volts, Water Temp., Engine hours, Fuel use and more.

Another exclusive, the NELSON HARDIE® "Set and Forget" Pressure regulator, enables quick adjustment and helps keep spray pressure constant.

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 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 at both front and rear in Tank, keeps even heavy powders fully suspended in the tank water. This system is more effective than mechanical agitation and eliminates bearing and belt maintenance or having to rely on shaft seals that eventually leak. If you prefer, Nelson offers Mechanical agitation that includes an 1-1/4" S/S shaft.

### PROVEN FAVORITE

NELSON HARDIE® sprayers have become a favorite with discriminating individual farmers as well as large ranches and demanding custom applicators. 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:

- Two 40" Dia. Fans: 16-blade SuperTuff® reinforced composite or 10-blade Cast-Aluminum
- 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 Hubs and Spindles
- Galvanized Frame, 3" x 8" heavy wall tubing
- Galvanized heavy gauge Fan housing & 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" tall
- Stainless steel Jet agitation with Eductors
- Stainless steel "Set & Forget" Regulator
- Stainless steel Suction strainer, 8" Dia., 12" long
- Stainless steel Discharge strainers, 2-1/4" Dia.
- Stainless steel Discharge manifolds
- Stainless steel Plumbing fittings & clamps
- Stainless steel Hoods, Doors, Panels

### OPTIONS:

- Tank size: Any size from 500 Gal. to 1,000 Gal.
- Tires: 11.25x24 ribbed or "Turf & Field" 21.5x16.1 (or Owner choice)
- Two (2) Work lights, halogen with S/S Guard
- Tank Flange, 2" or 3" FPT, S/S welded to Tank
- Mechanical Agitation, 1-1/4" Dia. shaft, S/S

### SPECIFICATIONS:

- Engines:** JD PowerTech E, 173HP, 6.8L, 6-Cyl.  
JD PowerTech Plus 225HP, 6.8L, 6-Cyl.
- Engine Design:** Turbo, Aftercooled, Tier 3 or IT-4
- Fans (C = Composite / AX = Cast-Aluminum):**  
**Super 80-C175:** Two 40" Dia., 16-blades at 40°  
**Super 80-C225:** Two 40" Dia., 16-blades at 45°  
**Super 80-AX175:** Two 40" Dia., 10-blades at 37°  
**Super 80-AX225:** Two 40" Dia. 10-blades at 40°
- Fuel Capacity:** 120 Gallons (Dual Fuel tanks)  
**O.A. Width:** 500 Gal.: 100" / 1,000 Gal.: 102"  
**O.A. Length:** 500 Gal.: 273" / 1,000 Gal.: 302"  
**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.: 6,500 Lbs.  
1,000 Gal.: 7,100 Lbs.