



## SPRAY STAR 1000C

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<b>MODELS</b>	<b>1002C Electric Spray Control System</b> <b>1008C Computer Spray Control System w/ GPS</b> <b>1010C Manual Spray Control System</b>
<b>POWER</b>	23.5HP (17.78 kW) twin cylinder OHV gasoline engine 12 volt electronic ignition, full pressure lubrication with oil filter.
<b>CONFIGURATION</b>	4 wheel, mid-mount engine, rear mounted sprayer component
<b>DRIVE</b>	Hydrostatic variable speed pump, flange mounted to engine, direct drive via splined shaft. Hydraulic power to two rear wheel drive motors.
<b>SPEED</b>	Forward Speed 0-8 m.p.h. (0-12.8 kph) Reverse Speed 0-3 m.p.h. (0-4.8 kph)
<b>BRAKING</b>	Dynamic breaking through the hydrostatic transmission Hand operated, disc type park/emergency brake
<b>BATTERY</b>	Automotive type 24F, 12 volt, 900 CCA minimum
<b>LIGHTS</b>	Equipped with pair of headlights. Rocker switch operated.
<b>CONSTRUCTION</b>	Heavy gauge square steel tubing, hydraulically formed, electrically welded.
<b>TIRES/WHEELS</b>	Front: (2) 20-10-10 Ribbed Rear: (2) 24-12-12 Multi-Trac
<b>STEERING</b>	Hydraulic power steering with orbital motor. Automotive 15 in (38 cm) steering wheel with tilt adjustment. 18 ft (5.5m) Outside turning circle.
<b>INSTRUMENTATION</b>	Hour meter, Speedometer, Oil Light, Pump On, Low Pressure Alarm
<b>PRIME MOVER CONTROLS</b>	Dual Pedal Hydraulic Actuation (1 forward, 1 reverse) Hand operated throttle control
<b>GROUND SPEED CONTROL</b>	Mechanically actuated Smithco "Speed Boss" Ground Speed Control Device to maintain constant ground speed Fixed position engine hand operated throttle
<b>SEAT</b>	Deluxe seat, padded, vinyl covered 1 piece molded, ½ back support Adjustable Operator Position
<b>ELECTRICAL</b>	12 volt battery - 24 AMPS, operator presence switch in seat.
<b>SOUND LEVEL</b>	88dB(A) under normal operating conditions

<b>DIMENSIONS (Inches/cm)</b>	Length: 104" (264cm) – Width: 70" (178 cm) – Height: 77" (196 cm) Wheel Base 53" (135 cm) Width with Booms open 180" (457 cm) Height with Booms folded: 110"(279 cm)
<b>WEIGHT</b>	1283 lbs (582 kg) dry - 2200 lbs (998 kg) loaded
<b>LIQUID CAPACITIES</b>	Gasoline (unleaded): 6 Gallon (22,7 liter) in high density nylon low-perm tank Hydraulic System Oil: 5 gallon (19 liter) in high density steel tank
<b>SAFETY &amp; CONFORMANCE</b>	Operator presence switch in seat for engine start Complies with all applicable ANSI, OSHA, and European Carb-Compliant Gas Tank Machinery Directive standards Certified ROPS with Seat Belt

### **SPRAYER COMPONENT (Common to all models)**

<b>TANK</b>	110 gallon (416 liter), elliptical shape, cross-linked polyethylene construction with UV inhibitors. 16" (41 cm) hinged lid and fillwell with built-in locking device and nylon strainer basket in fillwell. Positive feed suction sump
<b>FILTRATION</b>	Downstream spray system protected by "Self-Cleaning" nylon reinforced filter with return to tank and 50 mesh stainless steel
<b>AGITATION</b>	Smithco "Quadra-Jet" agitator with four venturi volume boosters
<b>PUMP</b>	Electromagnetic clutch with toggle switch at operator position 10-70 gallons per minute (38-265 lpm) 10-60 psi (0.7-4 bar) High volume centrifugal type with silicon-carbide seal All stainless steel body, shaft and plugs Built in low pressure warning horn to alert operator to low spray liquid level Built in automatic air bleed system for self re-priming during operation with low liquid levels Belt drive from prime mover engine
<b>PERFORMANCE</b>	Spray performance <ul style="list-style-type: none"> <li>• Application rates: 20-220 gallons per acre</li> <li>• 0.5-5 gallon per 1,000 sq. Ft.</li> <li>• 180-2050 liters per hectare</li> <li>• Production rate 6.4 acres/hour @ 3.5 mph (5.6 kph)</li> <li>• Up to 75 acres per day</li> </ul>

## SPRAYER CONTROL SYSTEM

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**Model 1002** Raven 203 Electric Controller;  
- Master on/off Toggle Switch  
- 3 Individual Boom Control Toggle Switches  
- Spring loaded remote pressure adjustment switch to control motorized valve  
- Oil-Filled Pressure Gauge  
- O-ring seal threadless spray system

**Model 1008** Raven SCS 440 Computer Spray Control System with GPS Satellite Based Speed Sensor;  
- Precise delivery of pre-selected application rate  
- 3 Individual Boom Control Toggle Switches  
- Record of material applied and area covered  
- Foot switch for booms  
- O-ring seal threadless spray system

**Model 1010** Manual type, 3-way section ABS ball valve turns individual boom sections on/off, agitation on/off  
Manual Screw type Pressure Adjustment, with pressure gauge

**BOOMS**

**10-160** 15 ft(4.5 m) stainless steel boom with 9 nozzles. Manual operation. Folds vertically and forward for transport. Hinges brake away and return to position automatically

**17-585** 18.5ft (5.5m) 11-triple nozzle triangular structure boom with tips and strainers, 12 volt powered outer section fold/ deploy.

**17-575** 14ft (4.0 m) 17-triple nozzle triangular structure boom on 10" spacing, 12 volt powered outer section fold/ deploy.

**17-601** 15ft (4.5 m) 9-triple nozzle triangular structure boom with tips and strainers, 12 volt powered outer section fold/deploy.

## OPTIONS & ACCESSORIES

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**10-378** Foam Marker  
**10-417** Smithco Safe Fill Chemical Education System  
**10-419** Fresh Water Wash Tank  
**15-835** Tank Rinsing System  
**16-129/16-906** Hose Reel: 200 ft. (61 m.) Capacity, Manual or electric rewind  
**10-377** Hose Reel Mounting Kit f/ 10-160 Boom  
**10-422** Hose Reel Mounting Kit for Super Booms  
**10-106** Clear Water Wash Tank.  
**10-366** Chemical Cleanload Safe Fill System (1002 and 1008 ONLY)  
**10-365/10-370** Water Fill Meter Kit Gal/Liters  
**15-622** Weather Canopy  
**30-141** 26 Gal (98 l) Wash System with electric pump

### Smithco "Safe-Fill System"

The Smithco Safe Fill System is a self-contained education system that allows the operator to mix liquid and dry chemicals safely and quickly.

- 316 Stainless steel venturi provides highest education rate and durability against all chemicals.

- Safety - All crop protection chemistry is mixed at ground level.

Cleanload eliminates the need for operators to climb on and around machines while handling expensive and dangerous chemicals. Operator exposure to slips, trips, and falls is reduced. Chemical spill potential is reduced, minimizing operator and environmental exposure.

- Optional suction lance allows the operator to educt bulk liquid and dry chemicals (wetttable powders, dry flowables and water-dispersible granules) from large containers without secondary handling.

- Robust tank and bottle rinse nozzles designed to wash Cleanload hopper and triple rinse chemical containers of residue.

