

GUARDIAN™ SELF-PROPELLED FRONT AND REAR BOOM SPRAYERS

SP.240F | SP.240FXP | SP.275F | SP.365F | SP.240R | SP.275R



FAST, HASSLE-FREE SPRAYING

NEW GUARDIAN™ SELF-PROPELLED SPRAYERS PROTECT MORE OF YOUR ACRES PER HOUR.

Take full control of your spraying schedule with a Guardian sprayer from New Holland. These new front and rear boom sprayers allow you to respond quickly to protect your investment.

GUARDIAN ADVANTAGES

The list of Guardian advantages is long. But, the list adds up to one huge benefit: more acres covered each hour.

PRODUCTIVITY

Guardian sprayers help you to achieve a new level of spraying efficiency and freedom with leading features including the industry's highest horsepower, largest tank size, smoothest suspension, highest ground clearance and tightest turning radius.

DURABILITY

Rugged construction, reliable drive and delivery systems and easy maintenance assure reliable performance each season.

COMFORT

Spacious, smartly designed cabs offer excellent visibility and natural control, so operators can run long hours and consecutive days and remain fresh, alert and productive.

RELIABLE SUPPORT FROM YOUR NEW HOLLAND DEALER

Your New Holland dealer stands ready to answer your questions and back you up with trusted service and parts support. Stop by to see the new Guardian sprayer advantages in person.



GUARDIAN™ SELF-PROPELLED SPRAYERS

Front Boom Sprayers	Rated Power	Drive	Tank Size, gallons	Boom Size, feet
Guardian SP.240F	240 hp	4 wheel hydrostatic	1,000 or 1,200	90 or 100
Guardian SP.240FXP	275 hp	4 wheel hydrostatic	1,000 or 1,200	90 or 100
Guardian SP.275F	275 hp	4 wheel hydrostatic	1,200, 1,400 or 1,600	90, 100 or 120
Guardian SP.365F	365 hp	4 wheel hydrostatic	1,200, 1,400 or 1,600	90, 100 or 120
Rear Boom Sprayers	Rated Power	Drive	Tank Size, gallons	Boom Size, feet
Guardian SP.240R	240 hp	2 wheel mechanical	1,000	90 or 100
Guardian SP.275R	275 hp	2 wheel mechanical	1,000 or 1,200	90, 100 or 120



A MODEL TO MATCH YOUR NEEDS

New Holland offers two rear boom, mechanical-drive models and four front boom, hydrostatic-drive models. There's a model with the right combination of horsepower, boom width and tank size to suit your operation perfectly. Every Guardian model is designed to deliver efficient, even product application with precise, easy control.

FRONT BOOM SPRAYERS (pages 4–9)

Top-of-the-line precision, control and comfort for large-acreage cash-crop operations. The incredible visibility and additional clearance make them ideal for tall crops like corn.

REAR BOOM SPRAYERS (pages 10–15)

Ideal for mid- and large-acreage operators who want to spray whenever crop conditions warrant--without hiring a custom operator. The simple design and proven reliability maximize return on investment.



GUARDIAN

NEVER LOOK BACK

GUARDIAN™ FRONT BOOM SPRAYERS HELP YOU DO MORE WITH LESS TIME.

Step into the productivity of Guardian front boom sprayers and you'll never look back. Growers appreciate the enormous capacity and the boost in operator stamina these high-volume sprayers provide.

UNMATCHED VISIBILITY AND CONTROL

Since the spray boom is in front, your visibility is outstanding. Operators never need to turn in their seat to monitor spraying action. Nozzles are located behind the boom for a complete, unrestricted view of every nozzle. With such a good view, your operators can run the boom closer to the ground to control drift. Spray is delivered into the crop before the first tires go over it, eliminating the potential for dust to neutralize the spray.

COVER ACRES FASTER

Four front boom models provide top-of-the-line precision, control and comfort for large-acreage cash-crop operations. In addition to offering up to 365 horsepower—the highest horsepower in the industry—Guardian front boom sprayers provide incredible visibility your operators are sure to appreciate and additional clearance for tall crops like corn.

LEADING MANEUVERABILITY

An industry-leading, 15-foot turning radius provides easy maneuvering for less crop damage, fast spraying around corners and safe, efficient movement in other tight situations around the farm.



LESS COMPACTION, BETTER TRACTION

Guardian front boom sprayers are balanced perfectly. Component position creates a nearly perfect 50/50 weight distribution, leading to better traction and minimum soil compaction. The ultra-high-strength steel used for the Guardian frame is both stronger and lighter than frames made with conventional steels.

WORK ANYTIME, DAY OR NIGHT

With 14 powerful halogen lights, operators can work as long as needed to take advantage of proper spraying conditions. Optional Xenon HID lighting and additional worklights increase brightness and visibility even more.

SEASON-LONG VERSATILITY

No other sprayers can beat the six-foot ground clearance of Guardian sprayers. That means you can get into the field for spraying just about any time—even late in the growing season—so you can respond quickly when conditions warrant. Tread width adjusts hydraulically from 120 to 160 inches center to center to easily match row spacing. You can even mount a swather head to your Guardian sprayer to handle double duty.

GUARDIAN™ FRONT BOOM SPRAYERS

Model	SP.240F	SP.240FXP	SP.275F	SP.365F
Engine, Tier III	6.7-liter Cummins QSB	6.7-liter Cummins QSB	6.7-liter Cummins QSB	8.9-liter Cummins QSL
Rated Power, hp (kW)	240 (179)	275 (205)	275 (205)	365 (272)
Power Bulge, hp (kW)	250 (187)	275 (205)	275 (205)	375 (280)
Chassis length, ft. (m)	28.2 (8.6)	28.2 (8.6)	30.3 (9.2)	30.3 (9.2)
Wheelbase, in. (cm)	153 (389)	153 (389)	177 (450)	177 (450)



DURABILITY, ACRE AFTER ACRE, YEAR AFTER YEAR

RELIABLE FRONT BOOM SPRAYERS STAND UP TO LONG HOURS AND TOUGH CONDITIONS.

Rugged Guardian™ front boom sprayers handle the rigors of long hours and maintain their value while doing it.

STRESS BUFFER FOR SPRAYER AND OPERATOR

Four-wheel independent suspension provides an industry-leading 20 inches of travel to take the pounding of uneven terrain and reduce stress on both sprayer and operator. The suspension not only makes the ride smooth and comfortable, it also delivers maximum control and spraying accuracy by maintaining all-wheel stability and traction.



HIGH-STRENGTH MONOBEAM CONSTRUCTION

Rugged monobeam-style booms are constructed from high-strength steel. The mono-boom design minimizes stress and corrosion. Hydraulic boom suspension absorbs the shock of uneven field conditions, leading to better stability and flotation. And, you can be assured the boom stays level to the ground for accurate spray applications, even over rough terrain. This means you can work at higher speeds while achieving consistent product application. Long, parallel link arms ensure smooth lifting and tremendous height range from 22 to 118 inches to clear tall crops. Nozzles are located behind the monobeam for added protection.

POWERFUL, QUIET ENGINES

Electronically controlled Cummins engines provide high torque rise for added power when you need it. Engines are mounted in the rear for better weight distribution, easy access and a quieter cab.

SMOOTH, HYDROSTATIC TRANSMISSION

A proven hydrostatic drive system features twin, heavy-duty pumps. The system delivers smooth power to the wheels and provides you with a wide range of speeds to match varying spraying and field conditions.

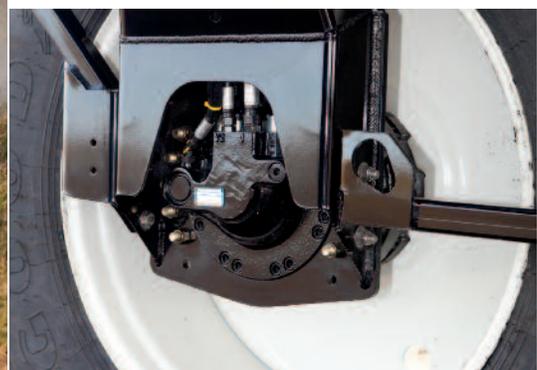
COOL, EFFICIENT AIR FLOW

The New Holland single-pass cooling system allows for more efficient and cooler air flow as compared to a "layered" system. Instead of modules being positioned front to back, they are positioned side by side, so all receive the benefit of the same, cool air flow. The high-volume fan pulls air through the entire system in a single pass, allowing for more efficient flow of cooler air through all of the cores for maximum efficiency.



DIRECT DRIVE WHEEL MOTORS

The wheel motor drive system puts more power to the wheels with fewer moving parts, larger pistons and less wear. It's simple, direct power that's efficient too.



SIMPLER, MORE RELIABLE GUARDIAN DRIVE SYSTEM

Features	Guardian direct-drive motors	Competitive Sprayers motors + gearbox
Wheel motor assembly	One-piece direct drive	Greater number of parts (motor + gearbox + brake)
Service brakes	Enclosed dynamic oil- cooled, lubricated braking system	None or caliper/disc (open to corrosion)
Leg profile	Narrower wheel drive motor	Wider (motor + gearbox)
Maximum motor shaft rpm	100 to 200 rpm	4000 to 5000 rpm
Major moving parts	8-10	18-20
Maintenance	No maintenance required. Cool and clean oil continuously, flush motor casing	Two oils required for motor and separate gearbox (Gearbox heat issues)
Power to the ground efficiency	Smooth, efficient operation through the entire speed range	Overall efficiency varies through the speed range

ULTIMATE COMFORT, CONVENIENCE AND CONFIDENCE

EXPERIENCE THE UNSURPASSED OPERATING EASE AND CONTROL OF A GUARDIAN™ FRONT BOOM SPRAYER AND YOU'LL NEVER LOOK BACK.

You spend more time in your sprayer than any other piece of machinery on the farm. That's why Guardian front boom sprayers are designed to make operators comfortable and efficient, even after long hours on the job. So why not give your body a break ... and never look back.

A VIEW THAT CAN'T BE BEAT

Nozzles are located behind the front-mounted boom, so you have a complete, unrestricted view of every nozzle without craning your neck or turning in your seat.

COMFORTABLE, ACRE AFTER ACRE

The roomy, quiet Guardian cab is designed for comfort and easy control so operators experience less fatigue and increased productivity for long hours on the job. An ultra-smooth ride results from the combination of the high-back, air-ride seat, the cab air-ride suspension and the four-wheel independent frame suspension. Climate control and the tilting, telescoping steering wheel add up to even more comfort. The cab is extra quiet, too, due in part to the rear-mount engine.





FINGERTIP CONTROL

The multi-function joystick keeps controls at your fingertips. It gives you complete hydrostatic control, and allows for fast adjustment of boom height and wing tilt, and includes the master shutoff and individual section shutoff switches. Additional controls are located on the convenient armrest console. The engine and transmission monitor at the front of the armrest provides clear, on-the-go information.



EASY ACCESS AND QUICK FILL-UPS

You can easily reach the engine from above or below. An automatic retracting rear ladder and platform makes access easy and safe. Maintenance turnaround time is quick with the fast fill station located at the front of the sprayer. Just pull up to your water truck and all fill controls are easy to reach and located in one area.



OPTIONS ADD CONVENIENCE

Optional boom wet line drain kit or boom air blowout kit improves boom cleanout for fast turn around and ultimate crop safety. An optional pressure washer keeps machine clean and helps prevent transferring soil, and spreading weeds and disease. You can further customize the sprayer to match your needs with fenders, fenceline nozzles, sectional control and more.

READY WHEN YOU ARE

GUARDIAN™ REAR BOOM SPRAYERS PUT YOU IN CONTROL TO MANAGE PESTS AND YOUR COSTS.

The 240- and 275-horsepower rear boom models are ideal for mid- and large-acreage operators who want to take control of their spraying schedule. You spray whenever your crop conditions warrant it, without hiring a custom operator. The simple Guardian design and affordable price increase your return on investment.



QUIET, EFFICIENT POWER

Cummins turbocharged diesel engines power both Guardian rear-boom sprayers. These gutsy engines respond with extra power when needed, yet are the quietest in the industry for their horsepower range. For tough field conditions, use the foot-operated differential lock to transfer power to both rear wheels. An on-demand, front-wheel assist option is available on the larger SP.275R Guardian model to give you the flexibility of added traction “on the fly” when you encounter soft or muddy spots.



WIDE, EVEN COVERAGE

You can handle huge areas in a hurry with models that cover up to 120 feet with each pass. The double-pendulum self-stabilizing boom suspension uses springs and shock absorbers to keep the boom level to the ground for consistent application and also saves boom components from the shock of ground changes.



HIGH CLEARANCE AND TIGHT TURNING

With a crop clearance of 48 inches, you can spray late in the growing season. The compact sprayer design and an industry-leading 15-foot turning radius allows you to maneuver with ease to spray field corners quickly and maneuver smoothly in other tight spaces around the farm. The four equal-size wheels combined with an exceptional weight distribution provides better flotation, a better ride, better turning radius and less compaction than sprayers with smaller front wheels. For more versatility, add the optional hydraulic tread adjustment. It allows you to adapt to any crop by changing wheel spacing between 120 and 150 inches from the cab.

TANK CAPACITY UP TO 1,200 GALLONS

Choose the tank to match your needs—1,000 or 1,200 gallons in poly or stainless steel construction. Stainless steel tanks have integrated saddles. A deep sump design allows for complete draining and less product waste.

RUGGED SIMPLICITY

HEAVY-DUTY CONSTRUCTION AND SIMPLE MECHANICAL DRIVE PROVIDE PEACE OF MIND.

The rugged construction and the simple, two-wheel mechanical drive system of Guardian™ rear boom sprayers allow them to perform dependably, while improving your fuel efficiency and return on investment.

CONSTANT HEIGHT AND A SMOOTH RIDE

The fully suspended rear axle provides a full 11 inches of suspension travel for an extra-smooth ride. Using four air bags, gas shock absorbers, trailing arms and a large-diameter anti-sway torsion bar, the active suspension system keeps the boom parallel to the ground for a constant height.

HEAVY-DUTY AXLES

Rugged axles with full-size wheels on both front and rear allow Guardian sprayers handle anything your fields dish out, no matter how harsh. The structural steel front axle features massive 2.5-inch kingpins and bushings. The rear axle features a heavy-duty design with formed steel receiver tubes to handle rough ground conditions.



RUGGED FRAME

The high-strength C-channel steel frame is designed to flex up to 30 degrees to handle heavy loads and punishing, uneven ground.



SINGLE-PASS COOLING

Guardian engines use a unique single-pass cooling system with modules that are stacked vertically instead of layered front to back. Cooling air flows through all the cores at the same time for maximum cooling and efficiency.

MORE POWER TO THE GROUND

The simple, reliable mechanical drive system transfers more power to the ground for higher productivity, better fuel economy and lower operating costs. Five-speed (SP.240R) and six-speed (SP.275R) Allison automatic transmissions smoothly transfer power through the drivetrain. A locking torque converter maintains constant speed even when traveling in uneven ground conditions. A cruise control switch on the armrest console allows you to return to a pre-set speed with the push of a button.

HIGH-STRENGTH TRUSS BOOM SYSTEM

The truss boom system has outstanding strength and rugged reliability. The center section of the truss boom features a double-pendulum suspension system with nitrogen accumulators to absorb the shock of boom movement. The result—smooth, consistent boom height and spraying accuracy

GUARDIAN™ REAR BOOM SPRAYERS

Model	Transmission	Speed Range	Angle Drive Shaft	Drop Boxes
Guardian SP.240R	5-speed automatic	Up to 40 mph	with 42-inch clearance	with 48-inch clearance
Guardian SP.275R	6-speed automatic	Up to 45.8 mph	Not Available	with 48-inch clearance

*Speeds will vary based on tire size and field conditions.
Do not exceed tire manufacturer's maximum load rating and permitted speed.*



FINAL DRIVE CLEARANCE

Heavy-duty, cast-iron drop boxes provide 48 inches of crop clearance and are standard on the SP.275R and optional on the SP.240R. A 42-inch clearance angle drive shaft is standard equipment on the SP.240R. The locking differential is tucked up into the rear axle for additional clearance and protection. The powerful hydraulic self adjusting brakes are located outside the differential and therefore do not transfer heat or contaminants to the differential oil for longer life. They are accessible and easy to maintain.

QUIET, COMFORTABLE CONTROL



CONVENIENCES AND A GREAT VIEW HELP YOU FLY THROUGH THE SPRAYING SEASON.

The Guardian™ cab is a place of quiet comfort and supreme control. It is designed expressly to make your work easier so you experience less fatigue, even after a long day of spraying.



STEP ABOARD

Unlike other sprayers that require you to squeeze through or around booms, or climb narrow, steep, rung-style ladders, Guardian sprayers provide easy, unrestricted access to the cab. Simply walk up the wide, stair-style ladder to the cab platform. The ladder hydraulically folds up or down when the parking brake is released or engaged — whether the booms are folded or extended.

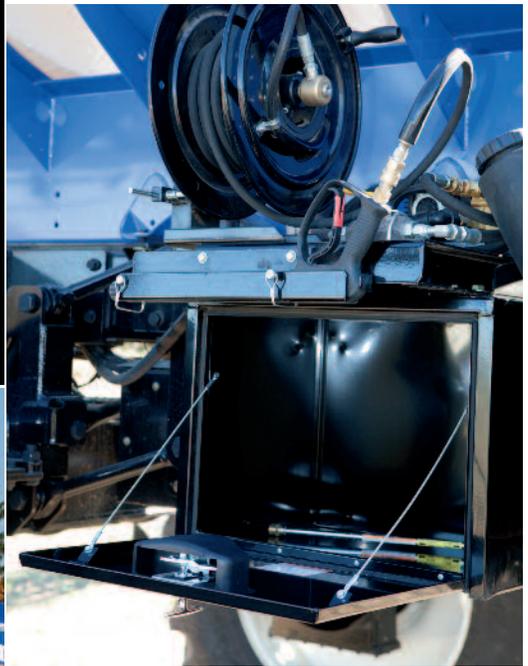


FINGERTIP CONTROL

Take your position in the high-back, air-ride seat and enjoy a smooth ride and use the controls that seem like an extension of your arm. The multi-function joystick and convenient armrest controls put Guardian operations and adjustments at your fingertips. On the armrest, you'll find the engine and transmission monitors, cruise control switch, transmission controls, system switches and boom folding switches. The joystick includes the throttle and the controls for boom height, wing tilt and shutoff switches.

OPTIONAL FEATURES ADD CONVENIENCE

- Optional boom wet line drain kit or boom air blowout kit improves boom cleanout for fast turn around and ultimate crop safety.
- Optional large tool box keeps tools or safety equipment within easy reach.



- Optional pressure washer keeps machine clean and helps avoid transferring soil, helping to prevent the spread of weeds and disease.
- Fenders, fenceline nozzles, sectional control and other options allow you to customize the sprayer to your needs.



AWESOME VISIBILITY

Wrap-around rear windows give you a fantastic view to the rear spray booms. And, the sprayer's wasp-like waist and front glass to the floor mean you get a full view to the wheels and crop.

TECHNICAL SPECIFICATIONS

Models	SP.240F	SP.240FXP	SP.275F	SP.365F
ENGINE				
Make / displacement liter	Cummins QSB / 6.7 / Tier III	Cummins QSB / 6.7 / Tier III	Cummins QSB / 6.7 / Tier III	Cummins QSL / 8.9 / Tier III
Rated power, hp (kW)	240 (179)	275 (205)	275 (205)	365 (272)
Alternator, amps	160	160	160	160
Fuel tank capacity, US gal. (l)	150 (568)	150 (568)	150 (568)	150 (568)
DRIVE TRAIN				
Transmission / type	Hydrostatic drive with Twin Sundstran heavy duty pumps	Hydrostatic drive with Twin Sundstran heavy duty pumps	Hydrostatic drive with Twin Sundstran heavy duty pumps	Hydrostatic drive with Twin Sundstran heavy duty pumps
Speed ranges	5 speed	5 speed	3 speed	5 speed
Wheel motors	Poclair® Direct Drive MW14 (front) and MS18 Dyna Plus with choice of cams in rear	Poclair® Direct Drive MW14 (front) and MS18 Dyna Plus with choice of cams in rear	Poclair® Direct Drive MS18 with choice of cams	Poclair® Direct Drive MW24 Dyna Plus
Service brakes	4 wheel internal wet disc	4 wheel internal wet disc	4 wheel internal wet disc	4 wheel internal wet disc
Parking brakes	All 4 wheels	All 4 wheels	All 4 wheels	All 4 wheels
Wheel drive	4 wheel drive	4 wheel drive	4 wheel drive	4 wheel drive
Leg profile / clearance, in. (mm)	Narrow 18" (457) profile, 72" (1829) clearance	Narrow 18" (457) profile, 72" (1829) clearance	Narrow 18" (457) profile, 72" (1829) clearance	Narrow 18" (457) profile, 72" (1829) clearance
Ground speed w/ std. tires, mph (kph)	0 to 38 (0 to 61)	0 to 38 (0 to 61)	0 to 29 (0 to 47)	0 to 34 (0 to 55)
1st range	12.5 (20.1)	12.5 (20.1)	14.0 (22.5)	11.0 (17.7)
2nd range	15.0 (24.1)	15.0 (24.1)	19.0 (30.6)	14.5 (23.3)
3rd range	19.0 (30.6)	19.0 (30.6)	29.0 (46.7)	21.0 (33.8)
4th range	25.5 (41.0)	25.5 (41.0)	NA	26.0 (41.8)
5th range	38.0 (61.2)	38.0 (61.2)	NA	34.0 (54.7)
AUX HYDRAULICS				
System capacity, (lpm)	31 (117), 51 (193) option	31 (117) or 51 (193) option	31 (117) or 51 (193) option	26 (98) or 44 (167) option
Performance	Closed center, pressure compensated, Eaton pump with 2700 psi operating pressure	Closed center, pressure compensated, Eaton pump with 2700 psi operating pressure	Closed center, pressure compensated, Eaton pump with 2700 psi operating pressure	Closed center, pressure compensated, Eaton pump with 2700 psi operating pressure
CHASSIS				
Frame	100,000 psi high strength steel	100,000 psi high strength steel	100,000 psi high strength steel	100,000 psi high strength steel
Cab mount	Front mount cab	Front mount cab	Front mount cab	Front mount cab
Tank mount	Mid mount tank	Mid mount tank	Mid mount tank	Mid mount tank
Engine mount	Rear mount engine	Rear mount engine	Rear mount engine	Rear mount engine
Suspension	Hydraulic with accumulators	Hydraulic with accumulators	Hydraulic with accumulators	Hydraulic with accumulators
Front, in. (mm)	20 (508), 10 (254) up/down	20 (508), 10 (254) up/down	20 (508), 10 (254) up/down	20 (508), 10 (254) up/down
Rear, in. (mm)	20 (508), 10 (254) up/down	20 (508), 10 (254) up/down	20 (508), 10 (254) up/down	20 (508), 10 (254) up/down
Tire options	380/90R46, 520/85R38, 320/90R50, 380/90R50	380/90R46, 520/85R38, 320/90R50, 380/90R50	380/90R46, 520/85R38, 320/90R50, 380/90R50, 320/105R54, 380/90R50	380/90R46, 520/85R38, 650/75R38, 320/90R50, 380/90R50
Fenders	Optional	Optional	Optional	Optional
Turning radius, ft. (m)	15 (4.6)	15 (4.6)	15 (4.6)	15 (4.6)
Track width, in. (mm)	120 to 160 (3048 to 4064), spread equal side to side	120 to 160 (3048 to 4064), spread equal side to side	120 to 160 (3048 to 4064), spread equal side to side	120 to 160 (2048 to 4064), spread equal side to side
Wheel tread adjustment from cab	Standard equipment hydraulic adjust	Standard equipment hydraulic adjust	Standard equipment hydraulic adjust	Standard equipment hydraulic adjust
Wheel base, in. (mm)	153 (3886)	153 (3886)	177 (4496)	177 (4496)
Crop clearance with standard tires, in. (mm)	72 (1829)	72 (1829)	72 (1829)	72 (1829)
Overall chassis length, ft. (m)	28.2 (8.6)	28.2 (8.6)	30.3 (9.2)	30.3 (9.2)
Overall width, in. (mm)	145 (3683)	145 (3683)	145 (3683)	145 (3683)
Weight and balance front to back	Within 4% of 50/50	Within 4% of 50/50	Within 4% of 50/50	Within 4% of 50/50

Models	SP.240F	SP.240FXP	SP.275F	SP.365F
LIQUID SYSTEM				
Tank capacity, US gal. (l)	1000 or 1200 (3785 or 4542) cross mounted	1000 or 1200 (3785 or 4542) cross mounted	1200, 1400, 1600 (4542, 5300, 6057) cross mounted	1200, 1400, 1600 (4542, 5300, 6057) cross mounted
Polyethylene tank	1000 or 1200 (3785 or 4542)	1000 or 1200 (3785 or 4542)	NA	NA
Stainless steel tank	1000 or 1200 (3785 or 4542)	1000 or 1200 (3785 or 4542)	1200, 1400, 1600 (4542, 5300, 6057)	1200, 1400, 1600 (4542, 5300, 6057)
Tank agitation	Poly - ventrury style or SS - sparge tube	Poly - ventrury style or SS - sparge tube	Sparge tube	Sparge tube
Rinse tank capacity, US gal. (l)	150 (568) with 2" quick fill			
Rinse system	Manual or electric	Manual or electric	Manual or electric	Manual or electric
Chemical educator, US gal. (l)	Optional 3.6 (13.6) SS w/ rinse system			
Fast fill, in. (mm)	2 (50.8), 3 (76.2) optional			
SOLUTION PUMP				
Make / model	Hypro 9306C standard	Hypro 9306C standard	Hypro 9306C standard	Hypro 9306C standard
Flow, gpm (lpm)	Up to 220 (833) at the pump			
High flow option, gpm (lpm)	Hypro 9307C up to 310 (1173)			
RATE CONTROL SYSTEM				
Make and model, standard	Choice Raven 4600	Choice Raven 4600	Choice Raven 4600	Choice Raven 4600,
Make and model, optional	Envizio Pro, Viper Pro			
Flow control	RFM 60 / optional RFM 100			
GPS	Optional (Intellisteer Kit)	Optional (Intellisteer Kit)	Optional (Intellisteer Kit)	Optional (Intellisteer Kit)
Boom height control	Optional ultrasonic or touch wheel system			
BOOM				
Boom mount	Front mount, 100% visibility			
Width options, ft. (m)	90/60 (27.4/18.3),	90/60 (27.4/18.3),	90/60 (27.4/18.3), 100/60 (30.5/18.3), 120/70 (36.6/21.3)	90/60 (27.4/18.3), 100/60 (30.5/18.3), 120/70 (36.6/21.3)
Height adjustment, in. (mm)	22 – 118 (559 - 2997)	22 – 118 (559 - 2997)	22 – 118 (559 - 2997)	22 – 118 (559 - 2997)
Breakaway	On the secondary boom wing			
Boom pipes	1" (25.4) stainless steel			
Nozzle bodies center, in. (mm)	15 or 20 (381 or 508)			
Nozzle bodies	3 way	3 way	3 way	3 way
Fence line spray tip	Optional	Optional	Optional	Optional
STRAINERS				
Pressure	50 or optional 80 mesh y-strainer			
Boom (In line filters)	Optional 50 or 100 mesh			
OPTIONAL FOAM MARKER				
Capacity, US gal. (l)	Foam injection uses 150 gal. (568) rinse water, holds 6 gal. (23) of foam concentrate	Foam injection uses 150 gal. (568) rinse water, holds 6 gal. (23) of foam concentrate	Foam injection uses 150 gal. (568) rinse water, holds 6 gal. (23) of foam concentrate	Foam injection uses 150 gal. (568) rinse water, holds 6 gal. (23) of foam concentrate
Air compressor	Engine driven	Engine driven	Engine driven	Engine driven
BOOM				
Sections	5 sect. (10 section option)			
Suspension	Link suspension with Nitrogen accumulators			



TECHNICAL SPECIFICATIONS

Models	SP.240R	SP.275R
ENGINE		
Make / displacement liter	Cummins QSB / 6.7 / Tier III	Cummins QSB / 6.7 / Tier III
Rated power, hp (kW)	240 (179)	275 (205)
Alternator, amps	160	160
Fuel tank capacity, US gal. (l)	120 (454)	120 (454)
DRIVE TRAIN		
Transmission / type	Automatic/ Allison/ RDS 2500	Automatic/ Allison/ RDS 3000
Torque converter	Standard	Standard
Torque converter	5 speed automatic	6 speed automatic
Differential / lock system	JCB / hydraulic lock up	JCB / hydraulic lock up
Service brakes	2 heavy duty power external discs on rear axle w/ dual caliper for each disc.	2 heavy duty power external discs on rear axle w/ dual caliper for each disc and front power disc brakes standard.
Parking brakes	Spring applied hydraulic release	Spring applied hydraulic release
Wheel drive	2 WD	2WD with optional front wheel assist
Angle drive shaft w/ planetary hubs	Standard JCB with 42" (1067 mm) clearance	NA
Drop boxes	Optional with 48" (1219 mm) clearance	Optional with 48" (1219 mm) clearance
Ground speed w/ std. tires, mph (kph)	0 to 40 (0 to 64.4)	0 to 45.8 (0 to 73.7)
1st range	8.6 (13.8)	8.8 (14.2)
2nd range	15.8 (25.4)	16.3 (26.2)
3rd range	20.9 (33.6)	21.8 (35.1)
4th range	30.0 (48.3)	30.5 (49.1)
5th range	40.0 (64.4)	40.0 (64.4)
6th range	NA	45.8 (73.7)
AUX HYDRAULICS		
System capacity, gpm (lpm)	30 (114)	49 (185)
Performance	Pressure compensating. Max system pressure at idle. Closed loop flow for best dirt protection.	Pressure compensating. Max system pressure at idle. Closed loop flow for best dirt protection.
CHASSIS		
Frame, in. (mm)	C-Channel bolted - 3x9x3/8 (76x229x9.5) 110,000 psi	C-Channel bolted - 3x9x3/8 (76x229x9.5) 110,000 psi
Suspension	Air bag with sway control - adjustment on all 4 air bags	Air bag with sway control - adjustment on all 4 air bags
Front, in. (mm)	>11 (279) travel	>11 (279) travel
Rear, in. (mm)	> 9 (229) travel	> 9 (229) travel
Tire options	380/90R46, 520/85R38, or 520/85R38 front w/ 710/70R38 rear (dual options available)	380/90R46, 520/85R38, or 520/85R38 front w/ 710/70R38 rear (dual options available)
Fenders	Optional	Optional
Turning radius, ft. (m)	15 (4.6)	15 (4.6)
Track width, in. (mm)	120 to 150 (3048 to 3810)	120 to 150 (3048 to 3810)
Wheel tread adjustment from cab	Optional hydraulic adjust	Optional hydraulic adjust
Wheel base, in. (mm)	168 (4267)	177 (4496)
Crop clearance with standard tires, in. (mm)	42 (1067) angle, 48 (1219) drop	48 (1219)
Overall chassis length, ft. (m)	23 (7) boom unfolded	23 (7) boom unfolded
Overall width, in. (mm)	144 (3658)	144 (3658)
LIQUID SYSTEM		
Polyethylene tank, US gal. (l)	1000 or 1200 (3785 or 4542)	1000 or 1200 (3785 or 4542)
Stainless steel tank, US gal. (l)	1000 (3785)	1000 or 1200 (3785 or 4542)
Tank agitation	Poly - Twinjet nozzles	Poly - Twinjet nozzles
Tank agitation	SS - sparge tube	SS - sparge tube
Rinse tank capacity, US gal. (l)	100 (379)	100 (379)
Rinse system	Manual or electric	Manual or electric
Chemical educator, US gal. (l)	Optional 3.6 gal. (13.6) SS w/ rinse system	Optional 3.6 gal. (13.6) SS w/ rinse system
Fast fill, in. (mm)	2 (50.8), 3 (76.2) optional	2 (50.8), 3 (76.2) optional

Models	SP.240R	SP.275R
SOLUTION PUMP		
Make / model	ACE 150F series	ACE 200F series
Flow, gpm (lpm)	Up to 120 (454)	Up to 220 (833)
RATE CONTROL SYSTEM		
Make and model, standard	Choice Raven 5000	Choice Raven 5000
Make and model, optional	Envizio Pro, Viper Pro	Envizio Pro, Viper Pro
Flow control	RFM 60 / optional RFM 100	RFM 60 / optional RFM 100
GPS	Optional (Intellisteer kit)	Optional (Intellisteer kit)
Boom height control	Optional ultrasonic or touch wheel system	Optional ultrasonic or touch wheel system
BOOM		
Width options, ft. (m)	90/60 (27.4/18.3), 100/60 (30.5/18.3)	90/60 (27.4/18.3), 100/60 (30.5/18.3), 120/65 (36.6/19.8)
Sections	5 section	5 section
Height adjustment, in. (mm)	20 – 80 (508 - 2032)	20 – 80 (508 - 2032)
Breakaway	On the secondary boom wing	On the secondary boom wing
Boom pipes	1" (25.4) stainless steel	1" (25.4) stainless steel
Nozzle bodies center, in. (mm)	15 or 20 (381 or 508)	15 or 20 (381 or 508)
Nozzle bodies	3 way	3 way
Suspension	Double pendulum	Double pendulum
Fence line spray tip	Optional	Optional
STRAINERS		
Pressure	50 or optional 80 mesh y-strainer	50 or optional 80 mesh y-strainer
Boom (in line filters)	Optional 50 or 100 mesh	Optional 50 or 100 mesh
OPTIONAL FOAM MARKER		
Capacity, US gal. (l)	Foam injection uses 100 gallon (379) rinse water, holds 3 gallons (11.4) of foam concentrate	Foam injection uses 100 gallon (379) rinse water, holds 3 gallons (11.4) of foam concentrate
Air compressor	Engine driven	Engine driven

CUSTOMIZE YOUR GUARDIAN SPRAYER



Outfit your New Holland sprayer with these high-performance options.

- **Intellisteer™ auto guidance** can be added to use GPS technology to guide your path.
- **Raven SCS4600 control console** (front boom sprayers), **Raven SCS5000** (rear boom sprayers), **Envizio Pro®** or **Viper Pro** control console gives you complete control over product application.
- **Raven Ultraglide®** or **PowerGlide® Plus** boom height control systems maintain optimum boom height.
- **Pace high pressure washer** with hose reel allows for convenient rinsing and cleaning.
- **The HID lighting option** replaces the stadium roof lights with HID lights for increased illumination.

- **The auxiliary lighting option** adds an HID light to each mirror bracket, and five additional halogen lights (one on each mirror, two at the rear of the cab and one illuminating the rear boom) and two area lamps.
- **Boom blowout and drain kits** allow you to fully clean the boom valves and lines.
- **Reversing fan** keeps the air system cleaner in dusty conditions.
- **A variety of tire options** is sure to match your needs.



VALUE, SERVICE AND SOLUTIONS

There's a certain way of thinking that comes from living on a farm. Farming takes equal parts brain and brawn. Not to mention thick skin, calloused hands and a fair share of know how. Seasoned farmers know it helps to have equipment that's built by farmers, sold by farmers and used by farmers. You might call that instinct, but we call it FARM RAISED.

Support at every step. When you place your confidence in New Holland agricultural equipment, you get the finest in local support. Your New Holland dealer understands the many challenges you face and stands behind you at every step with the equipment, parts, service and financial solutions to make your job easier. Look to New Holland for a complete selection of equipment, including a full line of tractors, hay & forage equipment, harvesting, crop production and material handling equipment.

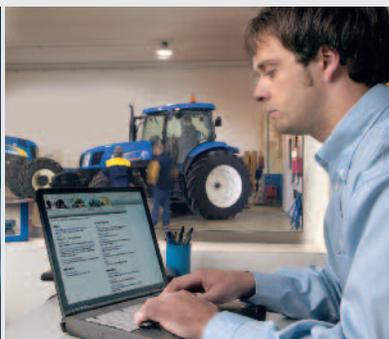
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Financing solutions. Your New Holland dealer can tell you about smart ways to turn your financial challenges into opportunities with a portfolio of innovative financial services available through CNH Capital, including customized financing, leasing, insurance and the purchasing convenience of a Commercial Revolving Account.

For reliable equipment, parts and service — or just honest advice on farming and finance — turn to New Holland and your trusted New Holland dealer. We know. We're farmers, too.

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.