

Airforce 1 24-36 m

4.600 l - 5.300 l - 6.600 l tank, capacity per tank - 153 to 220 ha





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capacity per tank - 153 to 220 ha

Airforce 1 Self-propelled sprayer is developed together with our partners, who have many years' experience producing and developing self-propelled sprayers. Airforce 1 is developed with expert knowledge, practical experience and innovation, which the spray pilot can clearly benefit from. With Airforce 1 you get not only high reliability, but also sublime comfort, superior capacity and a user-friendliness like no other.

Advantages:

With an Airforce 1 comes also an enormous spray capacity. The 4600 liter tank ensures a capacity up to 153 ha per filling, and with a 6600 liter the capacity is up to 220 ha. This very high capacity is due to the low liquid consumption from 30 to 50 l/ha.

Automatic cleaning programs

The sprayer is equipped with electric valves that automatically operates the 3 washing programmes. Everything is done simply by pressing an icon on the DSC screen.

The Airforce 1 has without doubt the highest capacity on the market

When spraying in high crop like e.g. rape or corn the pilot avoids unnecessary damage of the crop due to the high ground clearance, this ensures the pilot optimal conditions for his spraying job. Among others, the Airforce 1 is equipped with hydrostatic transmission, LS-Steering, John Deere engine Tier 4 Final with AdBlue for optimal operation, and clean water tank, to ensure an efficient cleaning of the sprayer. Further it is equipped with the latest Claas cabin.



300 hk John Deere

Electronic engine for maximum economical drift. The engine is mounted in the middle of the chassis for optimal weight balance.



Cabine

Danfoils new PC-SprayController with touchscreen and Joystick secures a optimal and simple control of the functions of the sprayer.



Ground clearance

1250 - 1700 mm depending on track width and tire size.





Equipment for Airforce 1

Standard equipment for Airforce 1

- 3 full-automatic cleaning programs
- Electrical valves operated from cabin
- Electronic check of valves for malfunction
- Hydrostatic driven wheel motors
- 2/4 wheel hydrostatic
- Hydrostatic brake + auto parking
- Self-levelling air suspension
- Hydraulic adjustable track width, ground clearance 1250-1700 mm, depending on track width and wheel size
- Cab with climate control, air seat, carbon filter, radio/CD, electric mirrors, working lights and extra seat
- Monitor and joystick for controlling engine
- danfoil DSC Spray Controller and Joystick
- Automatic horizontal leveling boom
- Individual boom lift also negative
- DSC (danfoil Spray Controller)
- Danfoil Joystick
- Flexible extensions, mechanical
- Pendulum boom suspension
- Hydraulic suspended parallel lift
- Heated water for cleaning
- Tank for handwash
- Filling equipment for chemicals
- Self-cleaning pressure and suction filter
- Marking and working light
- Eurofoil® atomizers and antidrip

Extra equipment for Airforce 1

- Track automatic hydraulic adjustment
- Filling equipment, automatic
- High-pressure cleaner with hose reel
- Electronic windmeter
- Working light, LED
- Equipment for liquid fertilizer
- Hydraulic frame for the injection tanks
- Agitator for the large tanks for use of injection system
- Hedgerow nozzles
- Automatic horizontal levelling boom with 2 or 4 sensors
- Rough Terrain Control (RTC)
- ISOBUS GPS connection
- GPS boom and guidance computer with antenna
- Box for chemicals
- DSC Injection system

Please see page 41-45 for more detailed description of the extra equipment



Track width

From 1,80 m to 2,95 m.



Low weight

Low weight gives danfoil Airforce 1 a major advantage compared to conventional sprayers.



Capacity 153-220 ha.

Unseen capacity, from 153 ha/4.600 l to 220 ha/6.600 l nothing like it on the market.



Technical specifications

Technical specifications	Airforce 1 4.600 l.	Airforce 1 5.300 l.	Airforce 1 6.600 l.
Capacity	153 ha	177 ha	220 ha
Tank	4.600 liter	5.300 liter	6.600 liter
Cleanwater tank	520 liter	520 liter	520 liter
Handwash	15 liter	15 liter	15 liter
Booms 24-28M	2-parted, inner- and outer-boom in Alu	2-parted, inner- and outer-boom in Alu	2-parted, inner- and outer-boom in Alu
Booms 30-36M	3-parted, inner-, middle- and outerboom in Alu	3-parted, inner-, middle- and outerboom in Alu	3-parted, inner-, middle- and outerboom in Alu
Sections 24-28M	7 sections	7 sections	7 sections
Sections 30-36M	7 or 9 sections	7 or 9 sections	7 or 9 sections
Motor	John Deere 300 hk	John Deere 300 hk	John Deere 300 hk
Max speed	40 km/t	40 km/t	40 km/t
Fuel tank	320 l.	320 l.	320 l.
Standard wheel size	320/90 R54	380/90 R54	380/90 R54
Pump	AR 160	AR 160	AR 160
Filter	1 pressurefilter, 1 suction-filter, anti-drip filters	1 pressurefilter, 1 suction-filter, anti-drip filters	1 pressurefilter, 1 suction-filter, anti-drip filters
Hydraulic	LS steering	LS steering	LS steering
Boom suspension	Hydraulic boom suspension	Hydraulic boom suspension	Hydraulic boom suspension
Wheel suspension	Wheel axle with air suspension	Wheel axle with air suspension	Wheel axle with air suspension
Spray controller	DSC (danfoil Spray Controller)	DSC (danfoil Spray Controller)	DSC (danfoil Spray Controller)
Weight total (empty tank)	7.460 kg.	8.060 kg.	8.360 kg.
Ground clearance	From 1250-1700 mm*	From 1250-1700 mm*	From 1250-1700 mm*
Transport width	325 cm (depending on the length of the boom)	325 cm (depending on the length of the boom)	325 cm (depending on the length of the boom)
Transport height	400 cm	400 cm	400 cm

* depending on track width and tire size

Booms Airforce 1 selfpropelled sprayer		
Boom	Sections	Section width / meters
2-parted booms		
24 meter	7	3+3+4+4+4+3+3
28 meter	7	3,5+3,5+4,5+5+4,5+3,5+3,5
30 meter HD	7	3+4+5+6+5+4+3
3-parted booms		
30 meter HD	7	3+4+5+6+5+4+3
32 meter HD	9	2+2+4+5+6+5+4+2+2
36 meter HD	9	3+3+4+5+6+5+4+3+3



danfoil injection DSC

- 1 to 5 pumps - maximum flexibility

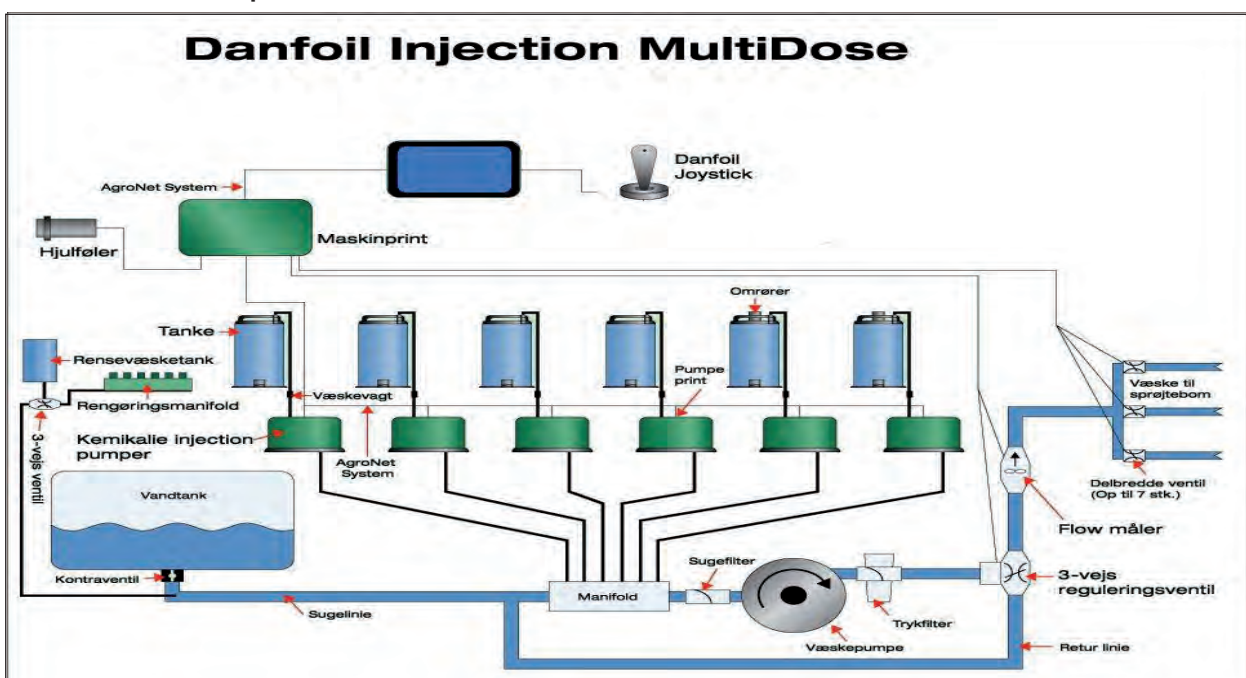


danfoil injection

DSC

With DSC injection system, you only use clean water in the tank, and you can dose up to five different chemicals simultaneously. The idea behind the product is, that it must be convenient to do different spray jobs on different parts of the same field. In this way you optimize your time in the field significantly, and, at the same time, achieve economical savings. By separating chemicals and water, you can avoid any waste of chemical residues, and you can control up to five dosage pumps with high accuracy.

DSC Injection, injektionssystem for sprayers with gps steering of the injectionpumps to steer after fieldmap



Advantages

Water and chemicals are kept separate; the chemicals are kept separately, in shock-resistant containers. By doing this, you avoid any problems with residues in the water tank and spray system.

No waste of chemical residue, because water and chemicals are not mixed before the manifold. This allows you to save any chemical residues - that may be left after the spray is interrupted or ended - until the next spray task.

Control of up to 5 dosage pumps allows you to select an injection system, that suits the individual users' needs. The system can be delivered with 1 to 5 pumps.

Easy to change chemicals, this means that it is very simple to switch from one chemical to another. It is possible to mix up to five different pesticides simultaneously, and individual dosage.

Dosage of water and chemicals are adjusted continuously during spraying and can be changed independently of each other. This is done by using a user-friendly display, located in the drivers cab of the tractor.

Simple and automatic cleaning of the spraying system is done easily, which means that the user may precede to the next spraying immediately after the job is done.

Great flexibility since the injection system, combined with danfoil's spray program, allows the user to perform a full day of spraying without having to return to the base to refill or clean – which provides a significant saving in time.



danfoil injectionssystem DSC



Injections system
From 1 to 5 pumps.



Danfoil injections pump
The Peristaltic pump is very precise and robust, it is easy to maintain.



Operating
The dosage and the mix of chemicals is controlled from the drivers cabin.



Clean water in the tank
The idea behind the injection system is to add the chemicals separately, so you only have clean water in the tank, and therefore maximum flexibility whilst spraying



Tanks for chemicals
Danfoil only uses approved storage tanks for the chemicals. They are available in either 28 l or 100 l. The tanks can be delivered with or without agitator and will be mounted on specific platforms.



Pump for agitation of the tank (extra equipment)
An extra pump for agitation can be mounted in the main tank, which secures further flexibility, as this makes it possible to add chemicals directly in the main tank.



Cleaning system
Automatic cleaning system with a separate cleaning tank, secures both a clean system, and no mix of different chemicals



Calibration
The injections system requires calibration depending on different types of chemicals. With the danfoil injection system, this is easily operated on the sprayer.

Suggested equipment package for danfoil DSC injection system

Injection system with 1 pump

- Large 7" DSC touchscreen
- Std. wheel sensor, flow gauge, 3-way valve
- 1 pcs. 28 l. tank without agitator
- Calibrating set
- Automatic wash system

Injection system with 2 pumps

- Large 7" DSC touchscreen
- Std. wheel sensor, flow gauge, 3-way valve
- 1 pcs. 28 l. tank with agitator
- 1 pcs. 100 l. tank without agitator
- Calibrating set
- Automatic wash system

Injection system with 3 pumps

- Large 7" DSC touchscreen
- Std. wheel sensor, flow gauge, 3-way valve
- 1 pcs. 28 l. tank without agitator
- 1 pcs. 28 l. tank with agitator
- 1 pcs. 100 l. tank with agitator
- Calibrating set
- Automatic wash system

Injection system with 4 pumps

- Large 7" DSC touchscreen
- Std. wheel sensor, flow gauge, 3-way valve
- 1 pcs. 28 l. tank without agitator
- 1 pcs. 28 l. tank with agitator
- 1 pcs. 100 l. tanks without agitator
- 1 pcs. 100 l. tanks with agitator
- Calibrating set
- Automatic wash system

Injection system with 5 pumps

- Large 7" DSC touchscreen
- Std. wheel sensor, flow gauge, 3-way valve
- 1 pcs. 28 l. tank without agitator
- 2 pcs. 28 l. tanks with agitator
- 1 pcs. 100 l. tanks without agitator
- 1 pcs. 100 l. tanks with agitator
- Calibrating set
- Automatic wash system

Optional extras for injection system

- 28 l. tank without agitator
- 28 l. tank with agitator
- 100 l. tank without agitator
- 100 l. tank with agitator
- Extra frame for 1 large or 2 small tanks
- Chemical mixer including pump for agitation
- Pump for agitation incl. flowregulating
- Hydraulic platform for inj. tanks

Sprayers mounted with danfoil DSC Injection system are without chemical mixer, external draw and rotary tank cleaner.

The system will be delivered with AR 813 pump.

It is not possible to mount the injection system on used sprayers..



danfoil DSC Spray Controller



danfoil DSC Spray Controller

- ver. I

Welcome to the future

With DSC (danfoil Spray Controller), danfoil has gathered all spray control on a single display, with great graphic freedom. It is possible to clean the sprayer via the automatic washing program, directly from the cabin. The system comes standard with a Touch Screen monitor and associated SC-joystick, which allows for easy and quick handling of the most used functions.

All functions controlled from one touch screen

The integrated steering manages all the field sprayers functions, including control of air pressure (m bar), liquid control, all hydraulic functions, self tracking drawbar, boom height, sections, individual boom lift, GPS-navigation, liquid valves and general control of all extra equipment, e.g. high-pressure cleaner. Cleaning of hoses and main tank is also possible from the cabin, just a simple touch on the screen.

The interface is simple and managable, and shows only the necessary functions and informations. It comes with a joystick for operating the most frequently used functions when the sprayers is running.

Based on the concrete job, the display changes on the DSC, which makes operating the DSC very logic and easy for everyone to use.

Integrated help function

DSC (danfoil Spray Controller) has an integrated help feature installed, so e.g. the functions of the joystick will be shown on the screen.

Advantages

- Automatic cleaning system
- One screen with all functions and information's
- Easily operated touch screen
- Perfect graphical overview
- Quick overview of the sprayers functions
- Built-in warning system
- Guides and charts uploaded on screen

Extra equipment

- additional touch screen on the sprayer
- Upgrade to DSC 7" Comfort joystick



Extra equipment AirBoss, ConCorde II, Airforce 1 and AirHammer



Individual boom lift

The boom follows the terrain, both above and below the horizontal. Individual boom lifts provide maximum flexibility for boom control

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	✓
Airforce 1 24-36 m	✓
AirHammer 24-36 m	✓



Automatic horizontal leveling boom

The self-leveling boom ensures a constant height of the boom over the crops, regardless of terrain variations. This way you avoid adjusting the boom and can concentrate on spraying. Sensors on the boom are adjusted via ultrasound from the field and crop.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce 1 24-36 m	+
AirHammer 24-36 m	+



Rough Terrain Control

Utilizing state of the art gyroscopic technology and up to 7 ultrasonic sensors, the wings are controlled above and below horizontal. This ensures a very stable boom in even the most challenging terrain.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce 1 24-36 m	+
AirHammer 24-36 m	+



TeeJet GPS

With automatic boom section control you achieve optimal screening thereby avoiding any overlap of the field, allowing you to concentrate on spraying. New boom section equipment from danfoil can use everything from Egnos to RTK-signals, and can at the same time be used on tractors that are prepared for automatic steering.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce 1 24-36 m	+
AirHammer 24-36 m	+



ISOBUS GPS

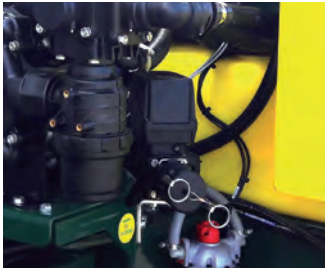
If the tractor is equipped with an ISO-BUS GPS, it is possible to use it to control the sections and the delivered liquid rate from the sprayer.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce 1 24-36 m	+
AirHammer 24-36 m	+

- ✓ = Standard equipment
- + = Extra equipment
- ± = Not possible



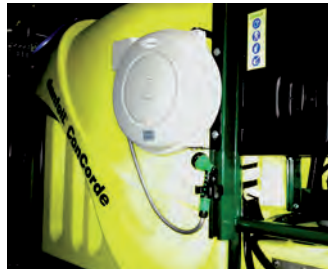
Extra equipment AirBoss, ConCorde II, Airforce 1 and AirHammer



Automatic filling equipment

With the auto fill equipment you know exactly how many liters you have filled into the spray tank. You enter water quantity and the filling equipment will stop automatically when the desired quantity is reached.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+



Washing equipment

With washing equipment it is possible to clean the sprayer in the field. The attached hose reel uses hot water from the clean water tank.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+



High-pressure cleaner

With the high-pressure cleaner you can clean the sprayer effectively with heated water from the clean water tank.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+



TrackControl - selftracking drawbar

ConCorde trailed field sprayer can be delivered with self tracking drawbar, which ensures that the ConCorde always follow the tractor tracks. This way you will avoid unnecessary descent of crops – and ultimately achieve a better yield.

Model	Status
AirBoss 15-24 m	÷
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	÷
AirHammer 24-36 m	✓



Box for chemicals

Allows you to store chemicals and other protective remedies.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+



Electronic wind meter

The electronic wind meter provides you with information about wind speed and wind direction.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+

- ✓ = Standard equipment
- + = Extra equipment
- ÷ = Not possible



Extra equipment AirBoss, ConCorde II, Airforce 1 and AirHammer



Hedgerow nozzles

The hedgerow nozzles are positioned angled and gives extra reach.



Working light for boom

With the LED working light for the boom a good overview is provided while spraying in the dark.



Protection shield

The protection shield is mounted under the chassis to reduce damage of the crop, it also makes cleaning of the sprayer much easier.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+

Model	Status
AirBoss 15-24 m	÷
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	÷
AirHammer 24-36 m	÷



Equipment for liquid fertilizer

By adding an extra pipe on the boom, you have the opportunity to distribute liquid fertilizer. By using the extra spray line you also avoid unnecessary wear on your primary spray line.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+

- ✓ = Standard equipment
- + = Extra equipment
- ÷ = Not possible



Extra equipment AirBoss, ConCorde II, Airforce 1 and AirHammer



Additional display

An additional display could be mounted on the side of the sprayer to control all function from outside the cabin.



Comfort Joystick

Comfort handle grip for better comfort.



Pneumatic brakes

If the tractor is equipped with compressor the sprayer could be supplied with pneumatic brakes as an alternative to hydraulic brakes.

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	✓
AirHammer 24-36 m	+

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	✓



Extra mounting-set

If the sprayer must be mounted on several tractors, it is possible to mount an extra set on tractor number 2.



Comfort display

An extra large display of 7 " gives a better overview of the icons on the screen. It is standard on sprayers with DSC injection systems

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	+
AirHammer 24-36 m	+

Model	Status
AirBoss 15-24 m	+
ConCorde II 20-28 m	+
ConCorde II 30-36 m	+
Airforce I 24-36 m	✓
AirHammer 24-36 m	+

- ✓ = Standard equipment
- + = Extra equipment
- +



Extra equipment AirBoss, ConCorde II, Airforce 1 and AirHammer



Pump for agitation of tank

As optional equipment for the injection system you can install an extra pump for agitation. This provides additional flexibility as there may be added pesticides directly into the tank.

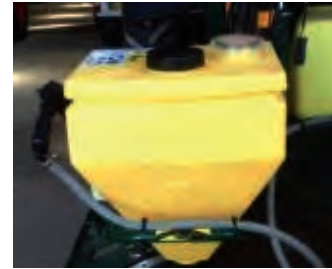
Model	Status
Inject. 1-5 pumper	+



Hydraulic platform for inj. tanks

The platform can be lowered 20 cm from the bottom, for optimal working height.

Model	Status
Inject. 1-5 pumper	+



Cleaning of chemical cans

An additional chemical mixer can be used for cleaning the emptied cans and for storing residual chemicals. These can subsequently be carried out on the fields

Model	Status
Inject. 1-5 pumper	+



Extra tanks for injection system

The tanks to the injection system are suitable for permanent storage of chemicals. Therefore, many choose to buy additional tanks, so these can be mounted on the sprayer, depending on the specific job.

Model	Status
Inject. 1-5 pumper	+



Extra frame for injection tanks

An extra frame for the injection tanks can be mounted, if you want to bring along extra tanks – this also increases flexibility.

Model	Status
Inject. 1-5 pumper	+

- ✓ = Standard equipment
- + = Extra equipment
- + = Not possible

Thank you for your interest in danfoil field sprayers

Our sales representatives are more than happy to discuss our spray concept with you and describe what specific benefits you could achieve by using a danfoil field sprayer on your farm.

Demonstration of a danfoil sprayer at your farm

Our sales representatives are continuously demonstrating danfoil sprayers and we will gladly pay you a visit and show how you the advantages you can achieve by using a danfoil sprayer. This also provides you with a unique opportunity to try the sprayer and the spray concept at you farm – you are guaranteed to be convinced.

24 hour service

We want to ensure, that you get the best possible start with your new field sprayer. Therefore, we offer nation-wide service, which is handled by our own professional service people. We know it can be expensive if the field sprayer, for some reason, is not working; therefore we are responding quickly. In the spraying season we offer 24-hour service so that you can always get a hold of us.

- less is more...

- less liquid consumption
- more capacity
- less costs
- more spraying hours
- less fuel consumption
- more efficient spraying

danfoil®

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