

AirBoss 18-24 m

- 1.000 l. tank, capacity per tank - 35 ha





AirBoss 18-24 m

- 1.000 l. tank, capacity per tank up to 35 ha

The AirBoss is a mounted field sprayer, which is unique in its design and user-friendliness. This solution focuses on functionality, quality, economy, and environment, and comes with the patented Eurofoil atomizer. All the functions of AirBoss are fully hydraulic driven. At the same time you have a clear view when driving because the boom is hanging above the tractor. It is easy to clean. Water is heated by the sprayers hydraulic system and therefore allows you to clean with hot water, while in the field.

Advantages

With a danfoil AirBoss, the pilot has an enormous spray capacity. He can cover up to 35 ha per filling, this due to the very low liquid consumption, from 30 – 50 l/ha. The pilot has a capacity equal to a conventional sprayer with a tank size between 4 – and 6.000 liters.

Furthermore the sprayer has a significant lower weight and can therefore easily work in wetland areas, which would not be possible with a conventional sprayer with the same capacity.

When spraying in high crop like e.g. rape or corn the pilot avoids unnecessary damage of the crop due to the special construction that gives the AirBoss a high clearance, which ensures the pilot optimal conditions for his spraying job.

Automatic cleaning programs

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

Load sensing as standard

The field sprayer is easy to connect and disconnect and requires no use of PTO. All AirBoss field sprayers have Load Sensing, which operates the fan, the pump, and all remote hydraulics, as standard. It is important that the tractor is equipped with LS and is able to deliver 85 liters at 190 bars, at least.

Robust construction

The AirBoss mounted field sprayer is build on a sturdy frame that is mounted to the tractors 3-point hitch. The frame carries tank, pump armature, and boom. The tank contains 1,000 liters. The pump is a 115 l diaphragm pump with three chambers. From the pump, the spray liquid is guided through the filter and flow meter to 7 section valves, which then supplies the Eurofoil atomizers on the boom.

The pump and fan is operated by the tractors hydraulic system. The boom is produced of aluminum – therefore easy and stable. As an additional security, the boom is hanging in a pendulum suspension, which is stabilized by the shock absorbers. The position of the boom can be fine tuned using a tilt cylinder. Height adjustment, folding and unfolding of the booms is regulated hydraulically from the control box. During transportation the booms are folded along the tractor, and above the drivers cab.





Equipment for AirBoss

Standard equipment AirBoss sprayer

- 3 full-automatic cleaning programs
- Electrical valves operated from cabin
- Electronic check of valves for malfunction
- Double rotary tank cleaner
- Hydraulic driven AR 115 Diaphragm pump
- self-cleaning pressure filter and suction filter
- Filter for clean water pump
- Seperate pump for quick boom cleaning
- Proportional hydraulic valves for boom control
- Automatic control of airpressure in boom
- A-frame with quick connector
- 1000 l main spray tank
- 100 l heated clean watertank with boom cleaning system
- 15 l tank for handwash
- Pendulum boom suspension
- 2-parted boom in aluminium
- Boom with 7 sections
- Flaps for 12 m working width
- Pesticide induction unit
- Boom tilt
- DSC (danfoil Spray Controller)
- Danfoil Joystick
- Complete rear light set
- Overflow and backflow protection
- Eurofoil® atomizers and anti-drip
- Flexible extensions, mechanical

Extra equipment for AirBoss

- Hedgerow nozzles
- Automatic horizontal levelling boom 2 or 4 sen
- Cleaning equipment with 20 m hose reel
- High-pressure cleaner with hose reel
- Working light, LED
- Box for chemicals
- Electronic windmeter
- Filling equipment, automatic.
- Electronic tank meter
- Extra mounting set for tractor
- Wheel sensor
- ISOBUS GPS connection
- GPS boom and guidance computer with antenna
- DSC Injection system
- Equipment for liquid fertilizer

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



Standard equipment on AirBoss



A-Frame

AirBoss is 3-point linked with A-frame, which guarantees you an easy and quick mounting on the tractor



7 sections

The boom is divided into 7 sections which increases flexibility and the possibility of cutting off one or more sections.



Boom in aluminum

To ensure a durable and stable boom, the AirBoss boom is made of aluminum – all booms are 2-parted.



LS

The sprayer is easy to mount and de-mount, and requires no PTO. All AirBoss sprayers are as standard equipped with LS Proportional hydraulic (Load Sensing).



Rear lights and marking light

The AirBoss field sprayer is equipped with approved rear light and marking light



Pendulum boom suspension

The pendulum boom suspension ensures an accurate control, optimal suspension of the boom and ultimately a very stable boom.



Clear view when driving

The booms are placed in transport position which provides the driver with a clear view from the tractor and lower height and width.



High clearance

Due to the high clearance the AirBoss is suitable for spraying in high crop, as this minimizes the damage of the crop.



Low weight

Low weight provides AirBoss with a clear advantage compared to conventional sprayers. The low weight is a necessity in seasons with very wet soil and in areas with soft marsh soil

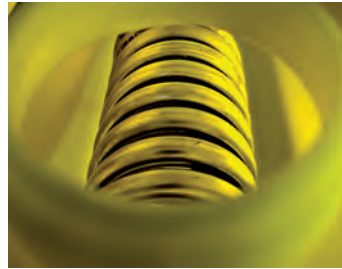


Standard equipment on AirBoss



1.000 l. tank

The AirBoss is delivered with a 1,000 l. tank in plastic (pro polythene) material. This ensures durable tank with a unique design



100 liter heated clean-water tank

Optimal cleaning of the sprayer, as the water is heated via the sprayer's hydraulics.



15 liter clean water

The handwash tank contains 15 liters of clean water, and it is integrated in the large tank.



Overflow and backflow protection

AirBoss field sprayer is equipped with overflow and backflow protection in order to prevent environmental contamination.



The Fan

AirBoss is equipped with hydraulic proportional controlled fans, which ensures an accurate air pressure. The fans are controlled via DSC display.



The Pump

AirBoss is equipped with an AR 115 diaphragm pump



Chemical mixer

The 20 liter chemical mixer can be pulled down for optimal operation. Chemicals are easily filled and mixed with water, which is transferred to the spray tank. The built-in rotary tank cleaner removes chemical residues from empty tanks easily.



DSC (danfoil Spray Controller)

Danfoil's new PC-based spray computer with touch-screen and joystick gives you an optimal and clear operation of the sprayer's functions.



Electronic valves

The cleaning process can be controlled from the cabin by 3 automatic cleaning programs. Valves are monitored and status could be seen on screen in cabin.





Technical specifications

Technical specifications	
Tank	1.000 liters
Cleanwater tank	100 liters
Hand wash	15 liters
Booms	2-parted, inner- and outerboom in Alu
Sections	7 sections
Max boom height	260 cm
Working width	18 to 24 meter
Pump	AR 115
Filters	1 pressurefilter, 1 suctionfilter, anti-dripfilters
Hydraulic	LS steering (min. 85 l/min at 190 bar)
Suspension	Hydraulic boom suspension
Control system	DSC (danfoil Spray Controller)
Weight total (empty tank)	1.300 kg.
Transport width	270 cm
Transport height	380 cm

AirBoss, 2-parted booms		
Boom	Sections	Section width / meters
15 meter	5	1,5+4+4+4+1,5
18 meter	7	1,5+1,5+4+4+4+1,5+1,53
20 meter	7	1+3+4+4+4+3+1
21 meter	7	1,5+3+4+4+4+3+1,5
24 meter	7	3+3+4+4+4+3+3



danfoil injection DSC

- 1 to 5 pumps - maximum flexibility

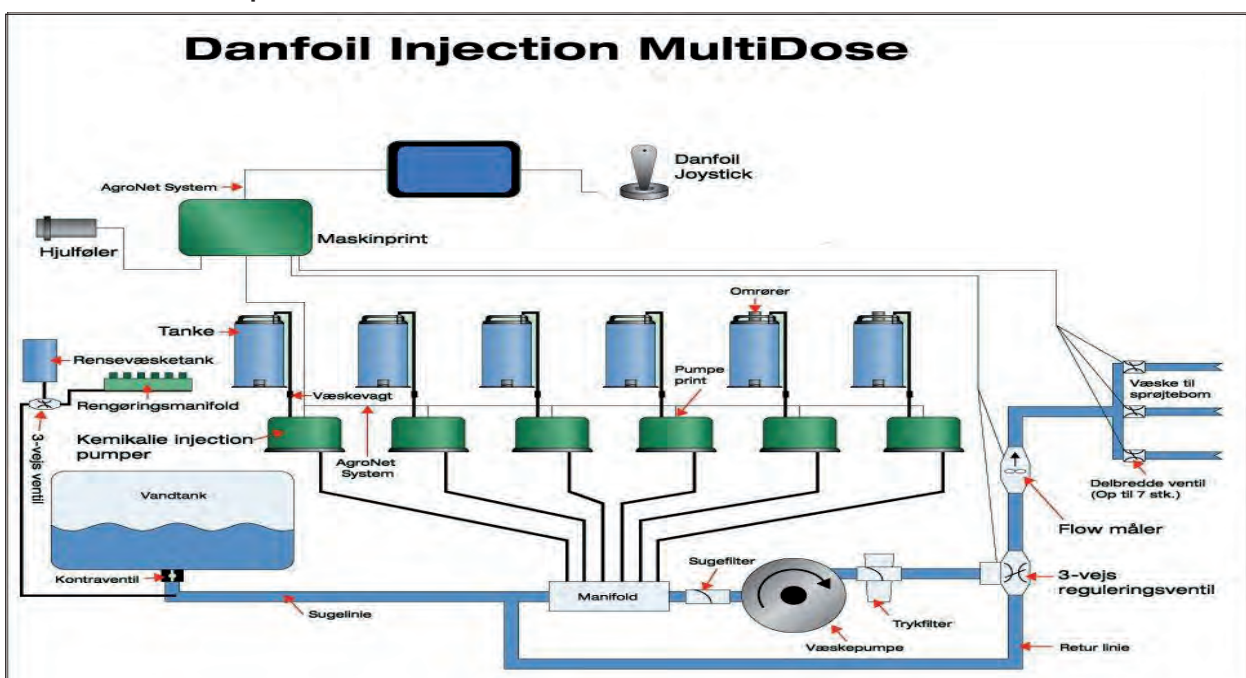


danfoil injection

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

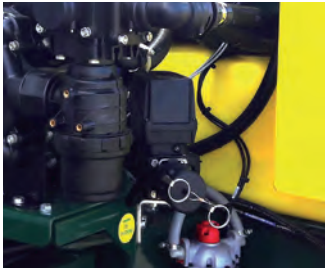
If the tractor is equipped with an ISO-BUS GPS, it is possible to use it to control the sections and the delivered liquid rate from the sprayer.

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



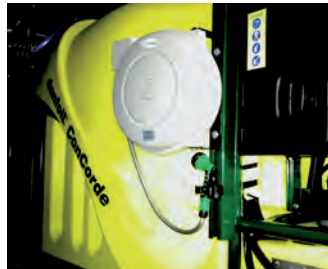
Extra equipment AirBoss, ConCorde II, Airforce 1 and AirHammer



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
- ⊕ = Not possible



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.

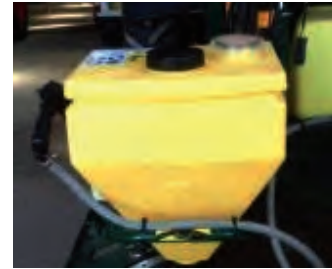
Model	Status
Inject. 1-5 pumper	+



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®

Jellingvej 14 | DK-9230 Svenstrup J
Tlf. +45 98 67 42 33
www.danfoil.dk | info@danfoil.dk