

DAMMANN®



Pflanzenschutztechnik
Fahrzeugtechnik
Airporttechnik

Wintering of plant protection equipment





1. To store


1. 1. Park the machine

If possible, store the machine in a dry place out of season.



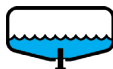
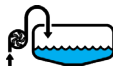


Procedure
1. Empty the tank.
2. Thoroughly clean the device inside and out.
3. Lubricate the device according to the lubrication plan in the Maintenance chapter.
4. Winterize the machine over the winter months. See Chapter "Winterizing the machine".




2. Wintering the machine

2. 1. Wintering standard devices


⚠ Attention	
	Environmental pollution <i>Environmental pollution from leaking liquids.</i> <ul style="list-style-type: none"> » Collect the antifreeze mixture in suitable containers for reuse or disposal. » Dispose of the antifreeze mixture in accordance with the currently applicable disposal regulations.
	Repair by HERBERT DAMMANN GmbH

Procedure	Buttons/Levers
1. Thoroughly clean the outside of the device.	
2. Clean the device with clear water. Pneumatic (option).	
3. Drain external filling connection.	

Procedure	Buttons/Levers
4. Pour antifreeze mixture into the device (at least 150 l). The bigger the barrel, the more antifreeze is needed.	
5. Pour the antifreeze mixture into the fresh water tank (approx. 20 l).	
6. Remove the cap on the display from the fresh water tank and pour the antifreeze mixture into the pipe (approx. 2 l).	
7. Start the CID system (option).	
8. Induction hopper, operate all functions.	
9. Suck the induction hopper empty.	
10. Close all ball valves on the induction hopper..	
11. Set the suction tap to "Device cleaning" (S2.2) and empty the fresh water tank.	
12. Set the suction tap to "Operation" (S2.0).	
13. Set the program tap to "injector suction" (S1.1).	
14. Set the program tap to "spraying with stirring" (S1.0).	
15. Open the agitator.	
16. Open filter rinse.	
17. Switch on pressure circulation flushing.	
18. Regulate the equal pressure fitting to 6 bar.	
19. Regulate the equal pressure fitting to 0 bar.	
20. Set the program tap to "stir vigorously" (S1.2).	
21. Open all nozzle holders / nozzles until the antifreeze mixture emerges.	

Procedure	Buttons/Levers
22. Loosen the hose line on the pressure gauge (pump pressure 0 - 25 bar), let the liquid run out until the antifreeze mixture emerges. Then close the line again.	
23. Set the program tap to "Clean barrel" (S1.3).	
24. Set the program tap to "spraying with stirring" (S1.0). With the wash brush or vario spray tube option, open the shut-off valve and pump the anti-freeze solution into the hose until the anti-freeze solution emerges.	
25. Activate pneumatic purging to direct the remaining antifreeze mixture into the main barrel.	
26. Clean the suction and pressure filters.	
27. Clean the filter of the high-pressure cleaner (option).	
28. Open the compressed air flushing safety valve.	
29. Blow out the device completely with compressed air.	
30. Blow out the nozzle line and nozzles with compressed air.	
31. Activate pneumatic purging to direct the remaining antifreeze mixture into the main barrel.	
32. Drain the antifreeze mixture through the drain valve on the sump of the main tank.	
33. Drain the antifreeze mixture via the suction and filling connection.	
34. Completely grease the device (observe lubrication plans) » Grease the boom » Grease the mast » Grease the hoist ropes	
35. Central lubrication system ascending and manual rights (option)	
36. Check/correct oil levels: » Hydraulic oil » Piston diaphragm pump » Mist lubricator » CID pump » high pressure cleaner » Slip-on gear	
37. Drain the compressed air system	
38. Switch off the machine.	

3. Wintering checklist ANP/DTP

⚠ Attention	
	<p>Environmental pollution</p> <p><i>Environmental pollution from leaking liquids.</i></p> <ul style="list-style-type: none"> » Collect the antifreeze mixture in suitable containers for reuse or disposal. » Dispose of the antifreeze mixture in accordance with the currently applicable disposal regulations. <p>Repair by HERBERT DAMMANN GmbH</p>

- ☐ Thoroughly clean the outside of the device.
- ☐ Clean the device with clear water.
Pneumatic (option).
- ☐ Clean the suction and pressure filters.
- ☐ Clean the high pressure cleaner filter (option).
- ☐ Drain external filling connection.
- ☐ Pour antifreeze mixture into the device (approx. 150 l).
- ☐ Pour the antifreeze mixture into the fresh water tank (approx. 20 l).
- ☐ Remove the cap on the display from the fresh water tank and pour the antifreeze mixture into the pipe (approx. 2 l).



- ☐ Operate the high-pressure cleaner, machine washing facilities until the antifreeze mixture emerges.
- ☐ Start the CID system (option).
- ☐ Induction center, operate all functions.
- ☐ Switch / operate all systems of the liquid flow.
- ☐ Open all nozzle holders / nozzles until the antifreeze mixture emerges.
- ☐ Drain the compressed air system

- ☐ Loosen the hose line on the pressure gauge (pump pressure 0 - 25 bar), let the liquid run out until the antifreeze mixture emerges. Then close the line again.



- ☐ Activate the pneumatic flush to direct the remaining antifreeze mixture into the main drum.
- ☐ Drain the antifreeze mixture through the drain valve on the sump of the main drum.
- ☐ Drain the antifreeze mixture via the suction and filling connection.
- ☐ Pneumatic flushing
- ☐ Grease the device completely (observe the lubrication plans)
 - » Grease the boom
 - » Grease the mast
 - » Grease the hoist ropes
- ☐ Fill the central lubrication system and trigger it manually (option)
- ☐ Check/correct oil levels:
 - » Hydraulic oil
 - » Piston diaphragm pump
 - » Mist lubricator
 - » CID pump
 - » high pressure cleaner
 - » Slip-on gear Slip-on gear

DTH-chassis

- ☐ Thoroughly clean the outside of the device.
- ☐ Clean the device with clear water. Pneumatic (option).
- ☐ Completely grease the device (observe the lubrication plans)
 - » Lubricate the bars (on vehicles with track adjustment axles).
 - » Grease axles.
 - » Fill the central lubrication system and trigger it manually (option).
- ☐ Check oil levels:
 - » Motor oil
 - » Gear oil
 - » Hydraulic oil
- ☐ Drain the compressed air reservoir with the drain valve
- ☐ Disconnect the batteries from the power circuit using the battery isolating switch
- ☐ Druckluftanlage an den Luftdruckvorratsbehältern und der Wartungseinheit entwässern.
- ☐ Thoroughly clean the condenser of the air conditioning system (blow out the fins with compressed air).
- ☐ Check or add to the antifreeze content of the coolant.
- ☐ Fill up the windscreen washer with sufficient windscreen cleaner
- ☐ (Quantity ratio = frost protection)
- ☐ Fill the fuel tank and urea tank to maximum
- ☐ Clean the air filter
- ☐ Check / top up the acid level of the batteries (not applicable to maintenance-free batteries)
- ☐ Empty the hand washing container