

CIRCULAR SPRAYER PRODUCT RANGE

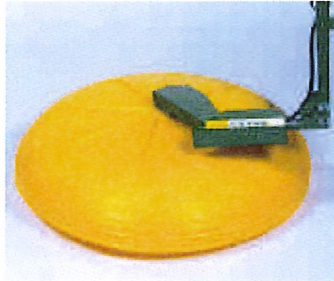
Spraydome 1200



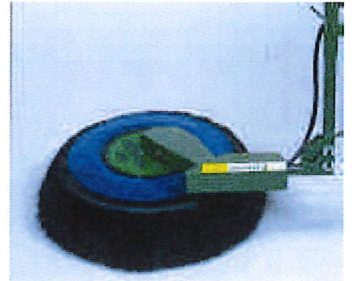
Undavina 900



Spraydome 1000



Undavina 600



Spraydome 600



Undavina 400



Spraydome 400



Undavina 250



Typical Circular Sprayer Vineyard Setup

UNDAVINA® & SPRAYDOME® INSTALLATION PROCEDURE

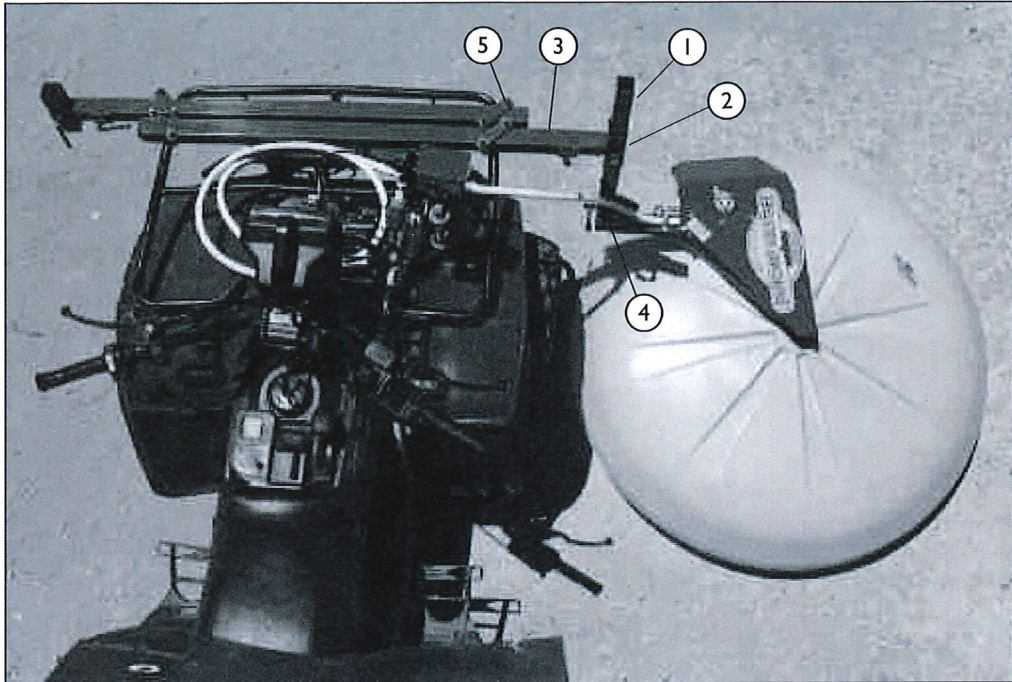


Figure 5.

1. Remove the Undavina® or Spraydome® from the shipping carton and place on a work area, taking care not to damage the CDA head beneath the spray cover.
2. Remove the WARRANTY CARD from the sprayer, fill out the relevant information and post it back to Enviromist Industries or your national distributor to ensure full warranty.
3. Using the clamp bolt, washers and nuts provided, assemble the vertical support bar (Fig.5, No.1) to the bracket on the chassis arm (Fig.5, No.4) of the sprayer.
 - (a) The clamp bolt (two bolts welded to form a U shape) should be inserted from the front of the sprayer.
 - (b) The clamp nut and thicker washer to be placed on the top thread.
 - (c) The Nyloc nut and thinner washer to be placed on the bottom thread.
 - (d) Refer to the Undavina® or Spraydome® drawings for further detail if required.
4. Locate and mount the mounting tube(s) (Fig.5, No.3) to the vehicle in the most appropriate position relative to the height and size of the vehicle, and the operating and transport positions of the Undavina® or Spraydome®.
 - (a) **Four Wheel ATV Mounting:**

Place the mounting tubes across the front carry rack. Firmly secure the mounting tube(s) using the clamp assemblies (Fig.5, No. 5) provided, taking care not to over tension bolts which might crush the carry rack. Allow sufficient height for vertical adjustment of the sprayer(s) and clearance around the wheels
 - (b) **Tractor Mounting:**

Fabricate suitable mounting brackets and if necessary modify the mounting tube(s) (Fig.5, No. 3) and attach to the tractor preferably between the front and rear wheels, allowing sufficient height for vertical adjustment of the sprayer(s) and clearance around the wheels.

UNDAVINA® & SPRAYDOME® INSTALLATION PROCEDURE *cont.*



Figure 5a.

5. Slide the "T"- bar adjustment arm (Fig.5, No. 2) over the vertical support bar (Fig.5, No. 1) that is attached to the sprayer (from step 3) and secure at about middle height using the "T"- bar clamp bolt. The "T"- bar should be aligned away from the applicator as illustrated in figures 5 and 5a.
6. Slide the "T"- bar adjustment arm (Fig.5, No.2) (that is attached to the sprayer) into the mounting tube (Fig.5, No.3) (that is attached to the vehicle) and secure in an appropriate position by tightening the mounting tube clamp bolt.
7. Adjust the applicator to the required width and height for work or transport, and lock into position. As indicated in step 4, ensure sufficient height for vertical adjustment of the sprayer(s) and clearance around the vehicle wheels.

8. If you are installing an Enviromist CDA sprayer, refer back to step 5 of "Backplate Installation Procedure" for instructions regarding connection of the sprayer's control box to the backplate. Enviromist Hi-Flo nozzle systems are at this stage simply connected to the tank & pump system.

IMPORTANT:

The bottom of the shroud should clear the top of the target to be sprayed by approximately 50mm (2"), ensuring the CDA head is clear of any ground interference.

If the shroud is set too high, the risk of spray drift increases dramatically.

If the shroud is set too low, debris may interfere with CDA operation, and hitting the ground or obstructions may damage the CDA

PRE-OPERATION CHECKING PROCEDURE

1. Before attempting to use any Enviromist equipment, READ the Operator's Manual thoroughly.
2. Read and follow instructions on chemical manufacturer's labels.
3. Always wear applicable protective clothing.
4. Check that all maintenance procedures have been followed.

Before filling the sprayer with chemical mixture, it is recommended that you complete the following test procedures to check that the system is working correctly.

5. Check all plumbing and fittings to ensure that all connections are correctly coupled and there is no damage or leaks.
6. Check that tank, strainers, lines and nozzles are clean.

WARNING: USE CLEAN WATER ONLY for the balance of this procedure!! DO NOT use chemical mixture when checking the sprayer.

7. Place a small amount of clean rainwater in the clean, empty chemical mixture tank, ensuring the strainer is in place when filling. Failure to use the

strainer will increase the likelihood of system blockages from contaminated water. The smaller fresh-water flushing tank should also be filled at this point if one is incorporated into the system.

8. Turn the inline switch **ON** (Refer page 10, Fig.2, No.5 from main manual) .
9. **For CDA Systems:** Turn the Control Unit switch(es) **ON** (Refer page 10 Fig.2, No. 11 from main manual).

At this stage the pump should start and the liquid flow will purge all air from the system liquid lines. Refer to the instructions printed on the tank if a fresh water flushing system is in use.

10. **For CDA Systems:** Check that the CDA beneath the shroud is working correctly. The disc of the CDA should be spinning counter clockwise when viewed from below and spreading a very fine mist. If not, refer to the TROUBLE SHOOTING section within this manual.

11. **For Hi-Flo Nozzle Systems:** Check that the nozzle is working correctly. At this stage a calibration check can be performed if required.

12. The sprayer is now ready for field operations.

OPERATING PROCEDURES

1. Establish the rate of chemical to be applied using the chemical manufacturer's recommendations.
2. Calculate the correct amount of chemical to add using the procedures in the pages **HOW TO CALCULATE APPLICATION RATES**.
3. Check the sprayer control switch(es) is **OFF** (Refer page 10, Fig.2, No. 11 from main manual).
4. Mix water and chemical thoroughly and then add mixture to the tank.

IN FIELD ADJUSTMENTS

Before starting operations, the width and height of the applicator must be adjusted to suit your conditions.

ADJUST WIDTH of Undavina(s)[®] or Spraydome(s)[®] to suit operation.

When striking the butt of a vine or tree **ENSURE THAT THE SPRING ARM MECHANISM IS NOT EXCESSIVELY USED.**

The trunk of the tree or vine should strike approximately between the 2 and 3 o'clock position looking down on the top of the right hand Undavina[®] or Spraydome[®].



Spraydome[®] striking between the 2 & 3 o'clock position



The Undavina[®] just touching the trunk

The flexible disc under the Undavina[®] cover should hardly touch the trunk of the tree or vine.

The trunk of the tree or vine should not be pushed more than 100mm (4") into the cover from its perimeter when passing. This will give a smooth operation and deflection and therefore extend the life of the machine.

If an operating head cover is set to greater than 100mm (4") overlap it will cause excessive movement and constant hammering on the pivot arm stop which will lead to excessive wear and tear.

5. HEIGHT ADJUSTMENT

On all units, set the height of the shroud to clear the top of the spray target by approximately 50mm (2").

The ends of the skirt or dome should not touch the ground, random high grass will pass through or under the unit.



Undavina[®] showing ground clearance

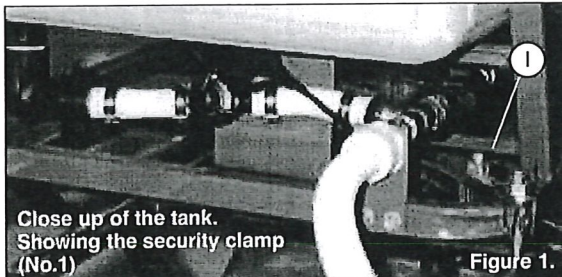
TANK INSTALLATION PROCEDURE

Connect the backplate or tank power wire prior to fitting the tank if the tank position impedes access to the vehicle's battery.

WARNING: Tank and contents must not exceed the specifications designated by the vehicle manufacturer.

FITTING A 60 / 80 LITRE TANK TO AN ATV.

1. Remove the tank from the shipping carton.
2. Locate the supplied mounting clamps and / or straps.
3. Locate and install the tank drain hose.
4. Place the tank onto the carrier of the ATV ensuring sufficient clearance for the tank drain hose. Secure using the straps or clamps (Fig.1, No. 1) provided.
5. Remove the WARRANTY CARD from the tank,



fill out the relevant information and post it back to Enviromist Industries or your national distributor to ensure full warranty.

6. Place three to four litres (1 US gallon) of clean rainwater into the tank and then for CDA systems refer back to Installation of the backplate, step 4. For Hi Flo (nozzle) systems, refer to Undavina® and Spraydome® installation procedure.
7. Secure all hoses so that the operator and moving parts are not obstructed.

WARNING: Failure to do so may result in injury to operator and or damage to equipment. Chemical spill may also occur.

THE UNIT IS NOW READY FOR PRE-OPERATION CHECK (Refer 'Checking Procedure').

FITTING TANKS TO TRACTORS.

A 3-point linkage cradle suited to tractors with

category-1 linkage is available in the following sizes.

- (a) 60 litre (15.8 US gallons)
- (b) 80 litre (21.0 US gallons)
- (c) 200 litre (52.6 US gallons)
- (d) 300 litre (78.9 gallons)

ENVIROMIST DUAL FLOW TANKS

Dual flow tanks are designed to cater for both CDA and Hi-Flo systems without the need to make adjustments to the bypass settings

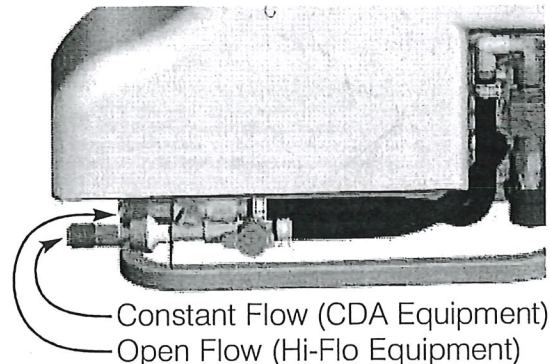
The installation of Dual Flow tanks is the same as the fitting instructions described earlier on this page.

Connecting Hi-Flo Sprayer to Dual Flow Tank

Connect the sprayer hose to the connection without the yellow constant flow valve. (Refer diagram below)

Connecting CDA controls to Dual Flow Tank

Connect tank hose to conector with yellow constant flow valve. (Refer diagram below)



USE OF NON-ENVIROMIST TANKS AND PUMPS.

For Enviromist Hi-Flo (nozzle) systems:

Minimum pressure required is 100 kPa (14 psi) and maximum 300 kPa (42 psi).

For Enviromist CDA systems:

1. In addition to the wiring and **10 amp** fuse protection for connecting the pump to a **12 volt** power supply, it will also be necessary to provide the hose, fittings and wiring to connect it to the Enviromist backplate.
2. If the pump used has a greater capacity than 55-70 kPa (8-10 psi), a BYPASS control **MUST** be fitted to limit the pressure to 70 kPa (10 psi) or less.
3. Pump fitted must be 100% duty cycle.