



Technical Help

Plant Moisture Systems

Using the Gas Bottle & Regulator

TO ASSEMBLE THE SYSTEM

1. Fit the flexible hose to the gas regulator. Screw one end into the matching thread on the regulator and tighten with a spanner.
2. Ensure the small 'O' ring seal is in place around the gas exit hole in the gas bottle pillar valve.
3. The 'A' clamp has already been fitted to the gas regulator at Skye. Use this clamp to attach to the gas bottle pillar valve, carefully placing over the 'O' ring seal. Fully tighten the clamp.
4. On the Skye Plant Moisture System, ensure that the large black valve is set to Off and the needle valve is closed (screw gently clockwise and downwards do not overtighten).
5. Attach the flexible hose to the system using the spring release connector. Pull back the collar, push onto the system, release the collar and push down and it will click into place. Pull on the hose to ensure it is firmly attached.

TO PRESSURISE THE SYSTEM

1. On the Skye Plant Moisture System, ensure that the large black valve is set to Off and the needle valve is closed (screw gently clockwise and downwards do not overtighten).
2. Ensure the flexible hose, gas regulator and bottle are fitted as above.
3. Turn the valve on the gas regulator anti-clockwise (this may be a large round valve or a brass bar) so that it is switched fully off.
4. Turn the valve on the gas bottle anti-clockwise to open you will see one of the dials on the regulator now shows the pressure of the gas inside the bottle. (If this pressure is less than the maximum working pressure of your Plant Moisture System, your gas bottle requires refilling.)
5. Open the gas regulator valve slowly (turn clockwise) until the second dial shows the maximum working pressure of your Skye Plant Moisture System e.g. if you are using a SKPM 1400/40 with a maximum working pressure of 40 bar, do not open this valve to show more than 40 bar on this second dial.
6. On the Skye Plant Moisture System, ensure the large black 'O' ring seal is in place on the chamber thread, insert the plant sample and attach the chamber head.
7. Adjust the zero of the display if necessary and turn the large black valve to fill.
8. Open the needle valve very slowly (screw gently anti-clockwise and upwards) and pressurise the chamber until the end point is reached as required.

TO DISMANTLE THE SYSTEM

1. On the Skye Plant Moisture System, close the needle valve (screw gently clockwise, downwards and do not overtighten).
2. Turn the large black valve slowly to Vent the pressurised gas will be safely released from the chamber with a loud hissing. Remove the chamber head.
3. There is still pressurised gas remaining inside the head of the regulator and flexible hose. This must be released before the system can be safely dismantled.
4. Turn the valve on the gas bottle clockwise to close.
5. Turn the large black valve on the system to Fill.
6. Open the needle valve very slowly (screw gently anti-clockwise and upwards). The remaining pressurised gas will be released into the open chamber. Watch both regulator dials until they both read zero.
7. Close the gas regulator valve (turn fully anti-clockwise).
8. The system is now safe to dismantle.

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