High-Pressure Sap Extractor

Three tonnes of pressure will extract sap from any plant tissue, no matter how dry!

This screw-press is capable of extracting juice from all types of plant materials, but is particularly suited for extracting sap from hard and/or dry leaf samples, where the Sap Extractor is not always effective. It allows the user to apply a 3 tonne pressure to the sample.

BENEFITS

– Heavy duty construction.
– Manufactured from marine grade stainless steel.

PACKAGING:

1.1 kg
Product Code:
HPSE
NTS High-Pressure Sap Extractor

MODE OF ACTION
The NTS High-Pressure Sap Extractor can be used with petiole or whole leaf samples. The unit uses a screw-press to crush plant material, and collect the sap in a lower well. A pipette is used to transfer the sap to the designated measuring tool.

OPERATION GUIDE
1. Always wear clean gloves when collecting and processing the sample to avoid contamination.
2. Ensure the machine is clean and dry prior to processing the sample.
3. Mount the ring evenly on the unit base (below the threaded handle).
4. Remove the piston from the extraction chamber (the chamber is a hollow cylinder with a drainage hole at the bottom for the sap to drain through).
5. Place the sample in the extraction chamber, then position the chamber on top of the ring.
6. Slide the piston back into the extraction chamber with the indented end upwards, and screw down the handle to squeeze the sample.
7. Reverse this process to expose the expressed liquid in the lower receptacle and use the pipette provided to transfer the sap onto an instrument for analysis.

IMPORTANT
− Ensure the thread is well lubricated with vaseline or, ideally, a nickel lubricant, after every use to prevent excess wear and damage to the unit.
− A nail can be used to dislodge the pressed sample from the extraction chamber once juice has been acquired.
− It may be necessary to use a toothbrush or similar to ensure the chamber is thoroughly clean between samples.
− If using sensitive ion meters it is advisable to wash the tool with distilled water between samples.
− Use a tissue or similar to ensure the press is dry prior to processing the next sample, as excess water will dilute the sap.

WHICH EXTRACTOR DO I USE?
NTS Sap Extractor – Leafy greens and vegetables with high moisture content.
NTS Advanced Sap Extractor – Suitable for most pastures and broadacre crops. Also suitable for small crops such as strawberries, potatoes etc.
NTS High-Pressure Sap Extractor – Ideal for most tree crops, e.g. macadamia, citrus and olive.

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