

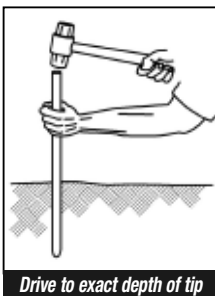


Soaking Tips

**Step 1 – Preparation** — Take the plastic wrappers off the tips and fill IRROMETERS with clean water. **Do not handle the ceramic tip.** Leave the instrument cap OFF and place the tip of the IRROMETER in clean water overnight (use clean non-rusting glass jar, plastic bucket or basin). Water in the instrument will drain through the tip and this operation may be repeated as often as time permits. After soaking and you are ready to install, protect the tip from air drying with wet paper towels or the plastic tip bag while transporting to the installation site.

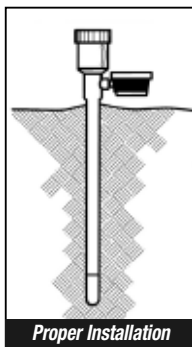


Pushing on cap

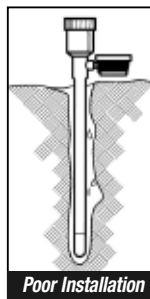


Drive to exact depth of tip

**Step 2 – Installation** — Drive a hole in the ground with an IRROMETER Installing Tool or with a standard piece of 1/2 in. pipe. Standard 1/2 in. pipe will make a hole for an exact fit. **Install in the root zone of the crop.** Insert IRROMETERS in the hole, leaving at least 1 in. of space between the bottom of the gauge and ground surface. Be sure instrument is “seated” firmly in the bottom of the hole.



Proper Installation



Poor Installation

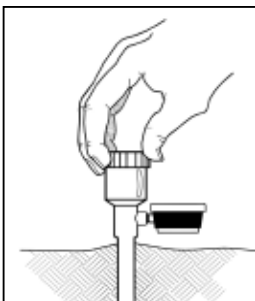


Air removal



Breaking the air lock

**Step 3 – Servicing** — Fill all IRROMETERS with a diluted solution of IRROMETER fluid (1 scant capful of concentrate to 1 gallon of water). Fill the IRROMETERS to the circle on the reservoir. Tap top of the IRROMETER with the palm of your hand to relieve any air lock. Take the vacuum pump and extract air from the instruments by pulling a vacuum of 80–85 cb (kPa) as registered on the gauge. Leave pump

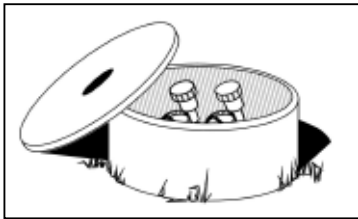
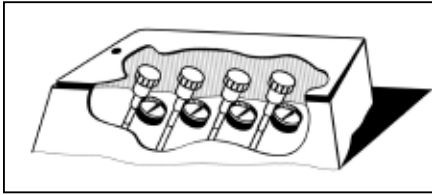


Release valve

on the instrument for 10–15 seconds to allow air to rise and then release vacuum gently. Refill if necessary and replace cap until stopper comes in contact with bottom of the reservoir, then continue **tightening for 1/4 turn only.** Repeat pumping as above each time, after reading, for three or four times to improve sensitivity.

**Important Information  
about your new**

**IRROMETER**

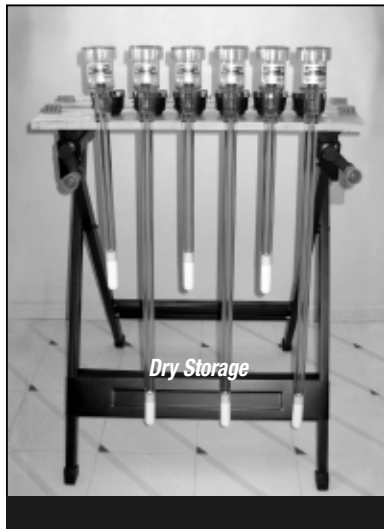


**Step 4 – Protection** — Instruments should be installed so they will not be damaged by equipment during routine crop maintenance operations. Stations should be covered and clearly marked for protection. In areas with temperatures falling below 32° F (0° C) the gauges must be protected against freezing. This can easily be done by covering the gauges with an insulating material and placing a box over the top to trap ground heat. In permanent tree crops or vineyards IRROMETERs can be covered with dirt or the gauge removed from the IRROMETER to eliminate the necessity of reinstalling the instrument.



*Wet Storage*

**Step 5 – Storage** — In seasonal cropping, where the ground will lie fallow over the winter, remove IRROMETERs **before** the first frost, clean exterior thoroughly with water. **DO NOT** let the ceramic tip dry while dirty. Soak the tip in a clean plastic bucket of water overnight with clean water draining through the tip, gravity flow. Air dry instruments and store. Gauges may have water in them and must be stored where temperatures are above freezing.



*Dry Storage*



*Tip Cleaning*

**Please refer to your  
IRROMETER Reference Book  
furnished with the Service Unit  
for complete information.**

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