



SMRI Displacement Rate Index

PRINCIPLE OF OPERATION

The Displacement Rate Index or DRI is an alternative way to measure cane preparation. Traditionally cane preparation to assess shredder performance has been measured by the pol in open cells method or the preparation index (PI) method. The PI method requires tumbling of an accurately massed cane sample and a sample prepared in a cold digester. The DRI method does not require massing of the cane and the test is completed in a much shorter time.

The DRI machine washes a Sample of prepared cane with a reticulated water supply. DRI is automatically calculated from the rate of increase in brix concentration throughout the washing procedure. DRI is a measure of how easily brix is extracted from a particular preparation.

ADDED VALUE OF THE DRI INSTRUMENT

- DRI is fully automated - does not require operator intervention once the sample of cane has been loaded. As a result, no analytical calculations need to be done by operator.
- Uses one sample of prepared cane only.
- Test results compare favourably with the error margin in the pol in open cells measurement, but fifteen-minute cycle time against one hour of other testing methods helps optimise cane preparation equipment settings.
- Does away with the PI Tumbler and Cold Digester / Disintegrator to obtain brix readings.
- Shredder performance can be determined at lower cost through more regular measurement.
- Quick and low maintenance - requires single daily washing of the machine with household bleach.



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