

INDUSTRY: SUGAR REFINING

APPLICATION: TO MONITOR AND CONTROL THE °BRIX OF A SUGAR SOLUTION DURING VACUUM CRYSTALIZATION. THIS IS A BATCH PROCESS.

HK INSTRUMENT: HK2-C WITH A REMOTE KEYPAD.

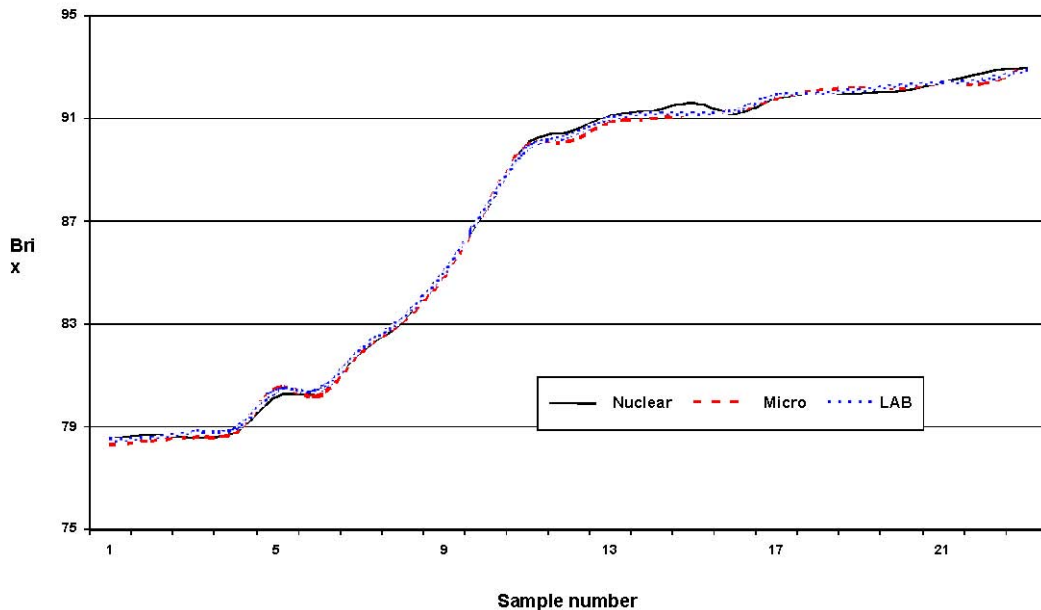
TESTING: LAB – SAMPLES ARE COLLECTED FROM THE VESSEL AND ANALYZED IN THE LAB WITH A TEMPERATURE COMPENSATED REFRACTOMETER.

ONLINE – READINGS FROM A NUCLEAR GAGE WHICH HAS BEEN INSTALLED IN THE VACUUM PAN ARE PRESENTED ON THE GRAPH.

RESULTS: LAB – CORRELATION BETWEEN LAB SAMPLES AND MICROWAVE READINGS IS EXCELLENT.

ONLINE – CORRELATION BETWEEN THE NUCLEAR GAGE AND THE HK-2 COMPACT UNIT IS EXCELLENT.

WHITE SUGAR VACUUM CRYSTALIZATION PAN



CONCLUSIONS: THE HK-2 MICROWAVE INSTRUMENT SYSTEM IS AN EXCELLENT TOOL THAT CAN BE USED TO MONITOR AND CONTROL THE °BRIX OF ANY SUGAR SOLUTION. THESE SYSTEMS CAN BE USED IN:

- PIPELINES AND VESSELS
- BATCH OR CONTINUOUS SYSTEMS
- ANY GRADE OF SUGAR FROM A MOLLASSAS TO A FIRST WHITE SUGAR