BRIX SUPERSATURATION

INCREASING PRODUCTIVITY IS THE KEY TO SUCCESS

SEED POINT CONTROL

MODEL 614

Process
Refractometer

Vacuum Pans/
Crystallizers

Evaporator Output

Syrup/Juice Lines

Melter Lines

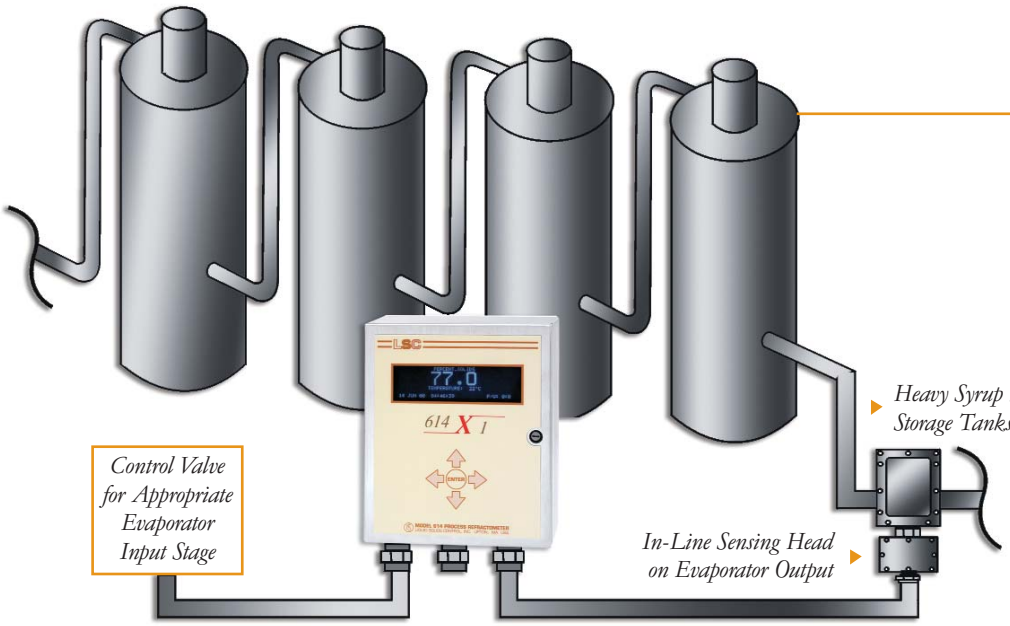
Molasses

Massecuite
(dissolved portion)

LSC

LIQUID SOLIDS CONTROL, INC.

There are many important measurement points within the Cane, Beet and Corn Processes. Two common installations are illustrated below.



Evaporator Installation

All types of multiple-effect evaporators can increase their efficiency by incorporating Process Refractometers. Installing an in-line sensing head at the output of the evaporator is the best way to control the brix concentration. The process refractometer signal output, through a controller, will operate the evaporator "in-feed" control valve. Increasing/decreasing the flow of syrup through the evaporator will allow a controlled syrup brix output. This simple control, when implemented, will enhance maximum productivity.

Vacuum Pans/Crystallizers Installation

Measuring supersaturation and controlling the seed point of the vacuum pan/crystallizer is an ideal measurement for the Model 614. LSC's insertion probe is the most versatile sensor on the market as we are the only manufacturer that has a "truly" extended sensor. All types of vacuum pans/crystallizers operate slightly different with their own circulation patterns; LSC has recognized this and responded to the industry's demands. The success of this application is directly linked to the placement of the sensing prism inside the pan. Pan operators/plant engineers can specify the exact Insertion Probe length their application requires (up to 500 mm length). Our ability to provide a probe/sensor specific to your needs makes LSC the preferred Process Refractometer for the Sugar Industry.

**Note: Model 614 X2 is designed to support two sensors from the same processor.*

Whether the brix concentration is controlled manually or automated, the Model 614 gives a continuous brix value that is both accurate and reliable. Air bubbles, color, particles and crystals have no effect on the accuracy of the LSC In-Line Process Refractometer. Refractive Index technology has proven to be superior over all other techniques and its reliability cannot be beaten. This is why Process Refractometers are the premier Brix instrument.

"LSC Model 614's Exclusive Five Year Warranty Affirms Its Reliability"

LIQUID SOLIDS CONTROL, INC. • P.O. Box 259, Farm Street • Upton, MA 01568 USA • Tel: (508) 529-3377 • Fax: (508) 529-6591
LIQUID SOLIDS CONTROL, DIV. • 107-721 Station Road • Victoria, BC V9B-2S1 Canada • Tel: (250) 474-2243 • Fax: (250) 474-3339
LSC SOUTH AMERICA, LTDA. • Rua Antonio Candido Alvarenga, 179 • 6 andar, cj. 61, Liberal Office Tower • Shangai, Mogi das Cruzes, S.P. CEP: 08710-200 Brazil, S. America • Tel: (11) 4796-6860 • Fax: (11) 4799-0687

www.liquidsolidscontrol.com