AMALGAMATED RESEARCH INC. SIMULATED MOVING BED CHROMATOGRAPHY (SMB)

Amalgamated Research Inc. has been designing and installing industrial SMB chromatography systems for more than 20 years.

ARi installed its first industrial scale simulated moving bed (SMB) chromatography system in 1981 for HFCS production in the starch/corn syrup industry. Since that time, ARi has installed SMB systems world-wide for a number of applications. These include the first use of SMB chromatography for beet molasses and the largest capacity molasses SMB systems in the world (over 600 tons per day feed @ 80 %DS). In addition to chromatography for the food industry, other applications include recovery of chemicals and biomass separations.

ARi operates several SMB pilot plants for evaluation of new applications and for determining customer separation and scale-up requirements. Six pilot simulated moving bed chromatography systems, all computer controlled, are available. The pilot plants are capable of evaluating a wide variety of feed materials including corrosive chemical mixtures.

Peripheral pilot equipment, such as the rising film evaporator to the left, support pilot testing and provide production of large enough amounts of separated products for thorough customer evaluation or subsequent processing.

Wet chemistry, instrument and microbiology labs support the pilot testing and together provide reliable information for process scale-up.

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