

Schmidt 30,000 pound 5-effect plate evaporator with TVR and essence recovery system. This system was designed to remove 30,000 pounds of water per hour.

The system consists of:

- (1) 50 gallon s/s feed balance tank w/Tri-Clover pump,
- (1) evaporator system control panel,
- (6) model sigmaster-90 plate and frame heat exchangers w/5 s/s 3,300 liter separator vessels,
- (2) model sigma-32 plate and frame heat exchangers,
- (1) model sigma-48-Sal, plate and frame heat exchanger,
- (13) assorted centrifugal pumps,
- (1) Waukesha 130 pump,
- (1) essence recovery system comprised of 1 distillation column and 2 vacuum/reflux tank /scrubber systems. Each of these vacuum /reflux scrubber systems is equipped with a Sihi vacuum pump, 2 Fristam s/s pumps, and 45 liter & 55 liter s/s vessels.

This system was purchased new in late 1989 and installed in 1990. The original owner stated that during the original startup the system evaporated 42,000 to 43,000 pounds of water on water. The original owner used a 250 horsepower boiler with a steam pressure at 90 psig at the TVR. The original owner calculated that this system removed 6.5 to 7 pounds of water per pound of steam used. This system originally ran orange juice concentrating from 20 to 65 brix and lemon juice concentrating from 20 to 65 brix. The essence recovery system produced 100-fold essence, and was scored excellent in flavor and aroma.

This evaporation system is capable of running many types of products with minimal or no modification. The condenser has recently been regasketed. It has had numerous new plates installed. This evaporator was built in Germany and tested on the factory site, unbolted, disassembled, containerized, shipped to the USA and installed on site. The system has been carefully matched marked and color coded at all connections and then carefully disassembled without the use of a cutting torch or cut off saws. It is ready for immediate reassembly. It does not require any structural foundation, only a level concrete floor, minimum of 4 ft. thick. It requires about a 15 ft. x 50 ft. area of floor space. The essence distillation column is approximately 25 ft. tall.

This is really a nice modular system in excellent condition. It could be up and running in two weeks after arrival at a new owner's site. This unit originally cost well over \$ 1,000,000.

**Please see pictures below.**

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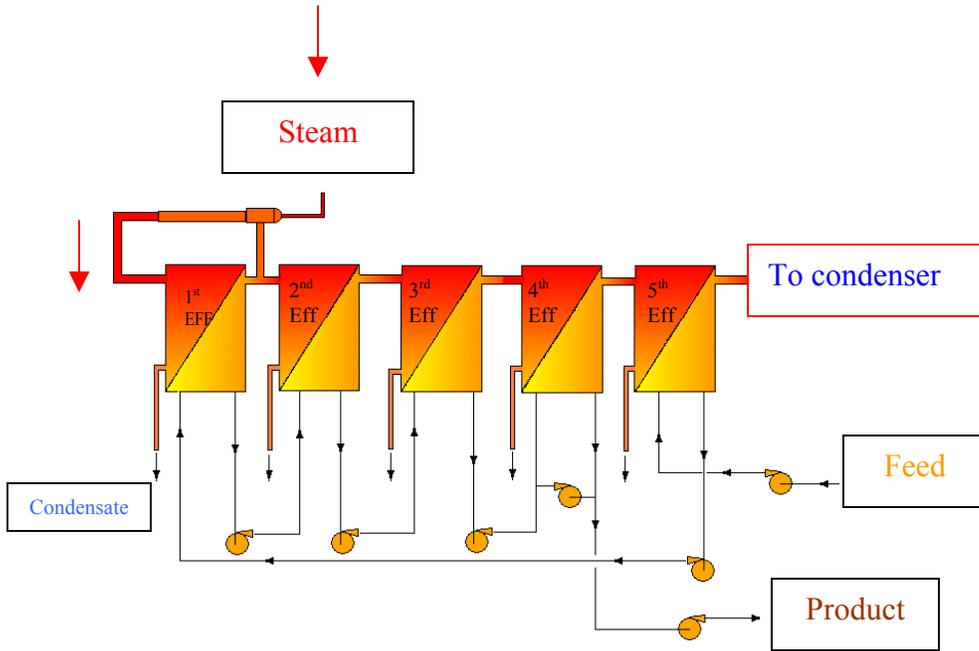
Schmidt 30,000 pound 5-effect plate evaporator with TVR and essence recovery system.

Pictured set up in storage



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**SCHMIDT 5 EFFECT FLOW PATH**

# Schmidt 30,000 5-effect Plate Evaporator with Essence Recovery

## Control Panel

