



CASE STUDY

Obtaining good recovery and purity of a high value product for a vitamins producer with less capital investment



Using Short Path Distillation for achieving good recovery and purity of a high value product

Case Study | Vitamins Industry

A customer producing **vitamins** needed a high vacuum distillation plant for one of its product streams. The purity and recovery of the high value product was of vital importance.

Technoforce offered a two stage **Short Path Distillation (SPDU)** plant (also known as molecular distillation).

The vacuum in the second stage had to be 0.001 mbar to ensure distillation at a low enough temperature so as to get the required quality of the product. It also ensured minimum loss of product with the residue.

The purity depended upon how nicely the volatile impurities were distilled out in the first stage. A fine control at this stage was important so that the loss of main product was a minimum at this stage.

The continuous distillation plant was automated for smooth operation. The customer was extremely satisfied with the results. A repeat order was given for a plant having 5 times the capacity as the first plant within 5 years. The plants are in operation for more than 15 years.

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Our Expertise

Evaporation

Drying

High Vacuum Distillation

Extraction

Crystallization

Zero Discharge Systems

TECHNOFORCE™



40 %
Less capital cost