

Solvent Recovery in Hemp Oil Production

Hebeler Process Solutions (HPS) has recognized the Hemp Oil industry's demand for efficient solvent recovery and provides customized solutions with our Buflovak Evaporation Technology

The multiple benefits of Hemp Oil are driving a tremendous market surge for the product. Hemp Oil is used in body care products, lubricants, paints, and plastics, as well as vitamins and food products. This overwhelming demand is generating production challenges and producers are scrambling to capitalize on this prodigious opportunity. Manufacturers must expand to meet the high consumer demands, or face an uncertain future with antiquated, capacity-limited equipment. Increasing production capacity is a considerable investment, and requires an intense investigation to balance what is needed to be successful in today's competitive and ever-changing market - product worth, capital equipment costs, energy efficiency, costs of operation, and environmental impact. Buflovak's Evaporation, Distillation & Separation Group provides the solution, with optimized, state-of-the art, packaged systems, customized for today's developing industry.

The Hemp Oil production process consists of multiple steps, to remove the Hemp Oil from the seeds and stalks. Midstream in the process, plant materials are immersed in an extraction solvent, which is used to remove the Hemp Oil from the plant material. The result of this stage is a solution of Hemp Oil, solvent, and plant material. Simple filtering techniques remove the plant material from solution. The separation of the Hemp Oil and solvent is where Buflovak's Engineering Team utilizes their expertise, to design a packaged system for efficient separation of the Hemp Oil, with all its coveted benefits, and the extraction solvent.

Buflovak's Solvent Recovery System are tailored to the customer's desired concentration. The high purity of



the separated extraction solvent allows it to be recycled, for use in subsequent extraction batches. This recycling provides economic benefits associated with reductions in both overall solvent usage and environmental discharge. The choice of solvent used in the extraction process is by the individual producer. While this is a critical factor in the evaporator design, Buflovak's Engineering Team has designed and installed efficient separation systems with diverse solvents, ranging from various alcohols to low boiling alkanes, all while designing to the producer's time and temperature exposure constraints needed to preserve the integrity of the desired end product.

Hebeler Process Solutions and its Buflovak Team set the standard for Hemp Oil concentration and Solvent Recovery. Buflovak partners with the industry to provide the benefits of world class process engineering and decades of separation experience.