



SPECIALTY EXTRACTORS

Continuous Solid/Liquid Extraction of Nutraceuticals, Botanicals, Specialty Chemicals, Beverage Flavors, Pharmaceuticals and Soils

SPECIALTY EXTRACTORS

FEATURES & ADVANTAGES

- Continuous counter-current extraction improves extraction efficiency
- Shallow bed technology provides good solvent product contact without short circuiting
- Wash products of reaction and reactants from solids
- Continuous extraction yields consistent, superior product
- Continuous operation requires minimal operator attention
- Sanitary, easy-to-clean designs also provide access for maintenance
- Time-proven design for alcohols, hydrocarbons, and other solvents
- Complete testing facilities and rental equipment available for testing and small production

EXTRACTION PRINCIPLES

PERCOLATION TYPE, MODEL II, III, V

- Liquid from top down for good draining materials, flakes, and leaves
- Self Cleaning bar screens prevent product plugging
- En masse conveyors minimize product breakage
- Stationary screens prevent solvent bypass
- Good drainage minimizes carryover
- Use separate solvents in one extractor
- CIP Design available

IMMERSION TYPE, MODEL IV

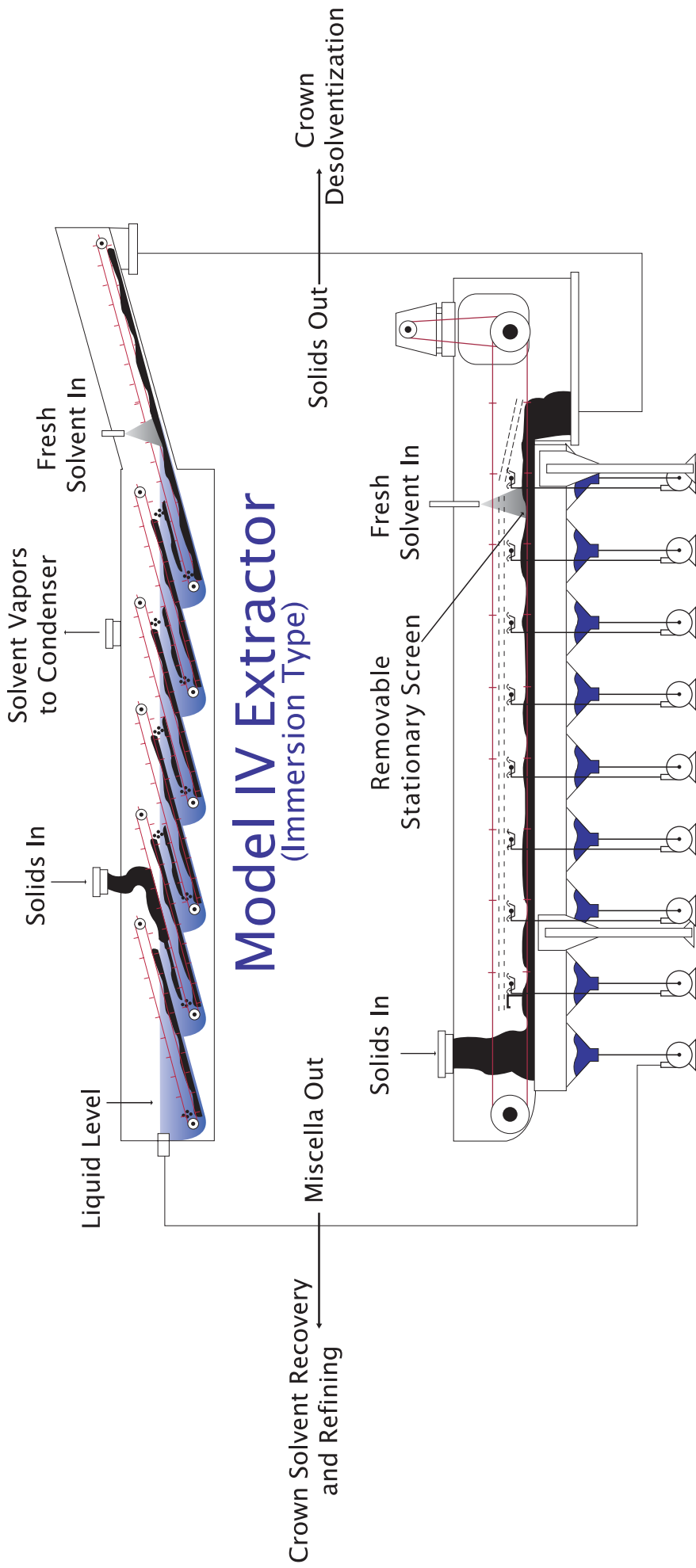
- Counter-current wash for granular materials that are heavier than solvent
- Complete bed turnover in extractor ensures good solvent product contact. Low liquid velocity minimizes loss of fines
- Gentle bed turnover minimizes product breakage
- Good drainage minimizes carryover
- Extended residence times possible
- CIP Design available

MATERIALS PROCESSED

- | | | | |
|------------------|-------------------------|------------------|---------------------------|
| • Alfalfa | • Coffee beans | • Marigolds | • Specialty Oil Seeds |
| • Almond hulls | • Corn germ | • Natural rubber | • Silica gel |
| • Anchovy meals | • Diatomite pellets | • Oats | • Soy protein concentrate |
| • Bark | • Drink flavors | • Pine Needles | • Soybean flakes |
| • Coffee grounds | • Fermentation products | • Polluted soils | • Tar sands |
| • Carrots | • Fish meal | • Proteins | • Vanilla |
| • Chicken parts | • Herbal products | • Pyrethrum | • Wood chips |
| • Chlorophyll | • Hops | • Red peppers | • Wood pulp |



CROWN MODEL IV AND MODEL V EXTRACTORS



Crown Solvent Recovery and Refining

Miscella Out

Solids Out

Desolventization



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