

BHS Engineering

BHS-Filtration Inc. provides single-source solutions for your difficult filtration, washing and drying problems. BHS completes the installation with vacuum/compression packages, solids handling and containment systems, instrumentation, and PLC controls systems. Custom designs are also available.

BHS Piping & Instrumentation Skids



BHS PLC Controls Systems including Factory Acceptance (FAT) and Site Acceptance (SAT) Testing Services

BHS Services

BHS-Filtration provides on-site start-up and process assistance. Once the filtration systems are in production, spare parts stocking and preventative maintenance programs are structured to meet your operating requirements.

BHS Rental Filters

Lab and pilot-scale rental filters for all of the product technologies are available for on-site testing. In addition, the BHS "Pocket-Leaf" Filter can be used for initial testing to determine the appropriate solution to the process problem. Alternatively, the product or slurry can be shipped to the BHS laboratory for preliminary testing using the BHS "Pocket-Leaf" Filter.

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Specializing in Thin-Cake Filtration, Cake Washing & Drying Technologies





FEST Rotary Pressure Filter...

- Continuous thin-cake (0.25-6 inches) production
- Filtration is conducted via pressure of up to 90 psig
- Positive displacement washing or counter-current washing
- Multiple washing steps as well as solvent exchanges, steaming and extraction
- Cake drying by blowing hot or ambient-temperature gas
- Atmospheric discharge from pressure operations for direct discharge to downstream equipment



Vacuum Belt Filter...

- Continuous filtration, washing and drying
- Thin-cakes between 0.25-4 inches
- Multiple washing zones for forward or counter-current washing to 99.99% purity
- Drying to 0.1% moisture with heated trays and mechanical compression
- Cooling and steaming operations can also be accomplished
- Materials include stainless steel, Hastelloy and synthetic materials
- Gas-tight and pressurized housings

Test in the BHS Laboratory or at Your Plant for the Optimum Process Technology



... Candle Filter

- Pressure filtration, clarification and heel filtration
- Specialized candles with perforated metallic or synthetic cores
- Filter media to less than 1 micron
- Cake washing produces a uniform cake for drying
- Cake discharge via gas blowback



Autopress Pressure Filter

- The Autopress is installed in potent compound and active pharmaceutical ingredient (API's) facilities as well as for specialty chemical applications
- Thin-cake, typically 0.25-1.0 inches, and multipurpose production in a single vessel
- Specially designed vertical filter plates with synthetic or sintered metal filter media
- Filter plates are contained in a pressurized filter housing for complete containment
- Batch pressure filtration and forward flow or counter-current washing to 150 psig
- Vacuum or hot-gas drying or pre-drying without agitation or tumbling
- Mechanical compression to 600 psig to eliminate cake cracking
- Fully automatic, heel-free and contained product discharge
- CIP systems with documented performance based upon Riboflavin tests

Pressure Plate Filter

- Horizontally designed to ensure that stable cakes can be built
- Possible pre-coating of the media with activated carbon or diatomaceous earth
- Vibrating plates, both in the up-down and horizontal direction along with gas-assist pulsing, provide for automatic discharge
- Effective solids discharge without spinning-plates eliminates solids sticking to the vessel walls and transmitting large dynamic forces to the vessel and surrounding equipment
- No rotating or mechanical seals which reduces the potential of leaks or mechanical failures