

SWECO®

PHARMASEP™ FILTER/DRYER WITH VIBRO-DRY™ VACUUM DRYING TECHNOLOGY

SEPARATE AND DRY IN THE SAME MACHINE

The PharmaSep™ 1200mm (46") Filter/Dryer allows batch processing of up to 25kg of solids as well as continuous processing in pilot plants and full production environments. For both wet and dry processes, the sealed pressure vessel design, with a highly polished crevice-free interior, delivers high yield product recovery while containing potent pharmaceuticals for safer handling. Unique (patent pending) Vibro-Dry™ technology, developed by Sweco, allows vacuum drying to occur within the PharmaSep while the product is gently tumbled on the screen surface, accelerating drying and reducing formation of agglomerates.



VALIDATABLE CIP/SIP CAPABILITY
VACUUM DRY PRODUCT ON-SCREEN
CLASS 100 CLEAN ROOM DESIGN
MANUFACTURED TO cGMP STANDARDS
30 PSI VESSEL DESIGN



We Put Technology In Motion™

www.sweco.com

Shown with customized control panel

Less Handling. Complete Containment.



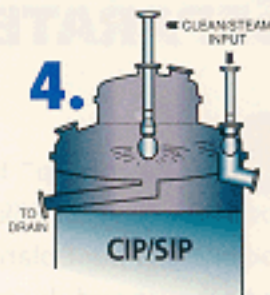
RESIDENCE TIME IS MAINTAINED ON THE SCREEN TO FACILITATE REPRODUCIBILITY AND IMPROVE YIELD.



VACUUM DRYING OF PRODUCT WITHOUT ADDITIONAL HANDLING.



NO OBSTRUCTIONS TO PRODUCT DISCHARGE.



NO-GAP DESIGN ALLOWS FULL CIP/SIP CAPABILITY.

Wet Filtration

For batch operation, the spout plug is closed to contain the product on the screen surface. (1) Product is introduced to the top screen for scalping of any large, oversized particles or agglomerates. The product then flows to the second product screen where the patented Sweco Vibro-Energy® motion spreads the product across the screen surface in a helical pattern to promote dewatering. At the completion of dewatering, (2) purge air and vacuum are introduced to fully dry the product on the screen while the Vibro-Energy motion continues to gently tumble the product, exposing greater surface area to promote faster drying. (3) Finally, the plug is opened and the fully dried product is discharged for packaging or further processing.

Dry Powder Classification

Dry powder is introduced to the top screen, removing any oversized particles. Remaining product then falls to the product screen to be dedusted. The optional product discharge plug can be used to control residence time of the product on the screen for more precise and efficient sizing in batch and semi-continuous operations. The no-gap design and controlled retention time result in improved yields. Following product discharge, (4) optional CIP/SIP nozzles and connecting hoses may be installed for cleaning and sterilization.

TECHNICAL DATA

Motor	2 1/2 HP Explosion proof
Construction	
Wetted Parts	316L SS
Screens	316L SS and Supertaut® Plus adhesive
Exterior	316L and 304 SS
Screen Size (nominal)	
Top	800mm (30") diameter
Bottom	1200mm (46") diameter
Basic Dimensions	
Height	1600mm (62") - tall base available
Footprint	1000mm (40") diameter

OPTIONS

- CIP/SIP nozzles and hoses for cleaning and sterilizing
- One or two screen deck designs
- VibroDry technology and construction
- Pneumatic Product Discharge Plug for batch processing
- Electropolishing and other finishes
- Motion Control Analyzer
- Full line of PharmaScreens to suit your process
- Cooling jacket for sensitive materials
- Temperature/Level/Humidity probes for monitoring
- Custom control panels or connection to DCS systems
- QuickChange™ screen changing assistant

