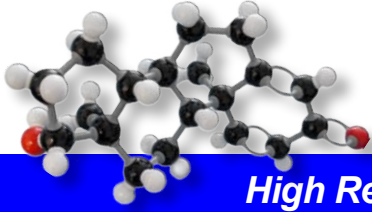


High Performance Inverting Filter/Dryer Centrifuge

from **COMI-CONDOR**



High Recovery Solid/Liquid Separation and Drying in a Single Environment

fine chemicals ◦ pharmaceuticals ◦ macromolecules ◦ crystalline products ◦ biologically active products ◦ toxins

Advantages of the Inverting Filter/Dryer Centrifuge

- 1. GENTLE** - Solids discharge is performed by inverting the filter cloth and spinning the product off centrifugally. No discharge blade means that delicate crystals and macromolecules can be recovered without breakage.
- 2. HIGH YIELD - LOW RESIDUAL** - High yield is achieved because the solids are discharged immediately by the inversion of the spinning filter and high centrifugal force. Because solids are discharged without the use of a blade or blowback, ultra-thin cakes can be processed efficiently.
- 3. IMPROVED CIP & VALIDATION** - There are three (3) moving parts (filter, platen and basket) inside the Inverting Filter Centrifuge. Crevices, seals and the additional surface area associated with the discharge blade, feed line, spray line and load control are eliminated.
- 4. LOW CONTAMINATION** - The patented Rear Feed Line is integral with the basket drive spindle. This eliminates the need for the high-speed seal used with traditional front-feed pipe designs.
- 5. DRYING CAPABILITY** - Removal of bound moisture is performed with dry or heated gas at up to 80 psig differential pressure across the cake.



THE WESTERN STATES
MACHINE CO. is the
exclusive representative
for COMI-CONDOR in
the U.S.A., Puerto Rico
and Canada providing
sales, service and parts.

THE WESTERN STATES MACHINE COMPANY

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Inverting Filter/Dryer Centrifuge Design & Specifications



Inverting Filter design allows isolation of the **PROCESS SIDE** from the **MECHANICAL SIDE**.

Design Features

- Batch Capacities from 0.2 ft³ to 7.8 ft³.
- High Filtering Capability with 800 to 2,000 gravities of force.
- Horizontal Basket Design ensures uniform coating of the filter.
- Polypropylene or PTFE filter cloth.
- Outer Housing is Gas Tight to 400mm H₂O (0.6 psig).
- Inertia Pad with Viscous Dampers allows installation directly on floor.
- Through-the-Wall Installation provides separation of process and mechanical portions of the centrifuge.
- Shafts and bearings serviceable from the service in rear making the process side free from contamination.
- All Process Surfaces can be Visually Inspected.
- Clean-In-Place Design.
- Available in 316L Stainless Steel, Hastelloy & other exotic alloys.
- All levels of surface finish available.

Control Options

- Complete PLC controls with touch-screen interface.
- Switch between automatic and manual operation.
- Variable frequency drive (VFD) speed control.
- NEMA-4 and NEMA-7&9 electrical enclosures.
- Optional instrumentation integrated into the Control System including oxygen monitoring, temperature, pressure, liquid feed flow, N₂ purge flow and effluent particle clarity.



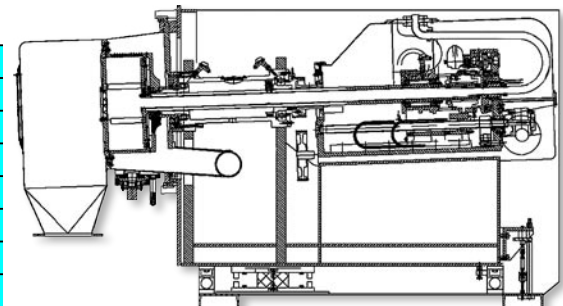
After-Market Support

- Field Service Support Available 24/7
- Mechanical and Electrical Parts.
- Operating and Maintenance Manuals.
- Mechanical and Electrical Upgrades.
- Certifications and Construction Documentation.



Inverting Filter/Dryer Centrifuge Models

Dimensions & Capacities	Units	HT300	HT470	HT600	HT800	HT900	HT1000
basket diameter	inches	11.8	18.5	23.6	31.5	35.4	39.4
basket length	inches	4.3	7.1	8.9	13.6	13.6	16.9
filter surface area	ft ²	1.1	2.8	4.8	9.7	10.8	14.5
cake volume	ft ³	0.2	1.0	2.1	5.1	6.0	7.8
maximum basket speed	rpm	3,400	2,300	2,000	1,600	1,500	1,300
G-factor	G's	1,927	1,388	1,330	1,144	1,130	900
centrifuge weight	pounds	1,540	5,280	7,040	14,300	14,960	17,160



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