



INNOVATIVE CENTRIFUGAL BAG FILTER INTRODUCED TO SOUTH AFRICA

Filcon Filters will soon be introducing Sun Central's all new design filter bag housing to the South African market. Sun's model HCTB, Centrifugal Bag Filter (patent pending) features in-house centrifugal flow formation and a unique Bag Holder/Dispenser Assembly unit. This product is designed to achieve multiple performance advances, including:



Improved in-housing liquid distribution

Eliminates destructive hydro-hammer effect on bag bottom

Staged particle separation and retention

Ensures full bag installation. Holder/Dispenser

Assembly acts as a bag installer

Eliminates destructive back-wash effects
Holder/Dispenser Assembly prevents bag from being sucked up by system vacuum

Extended filter service life. Centrifugal flow ensures full and even utilization of the entire filter surface area

Unlike the traditional inlet design, HCTB features a novel inlet pipe which enters the housing at a tangent as you can see in the photo below.



SWIRL FLOW

As liquid enters the tangential inlet, swirl flow forms under centrifugal force. The liquid proceeds downward and enters the filter bag. As the flow channel narrows, the centrifugal flow rate accelerates

ACCELERATED FLOW

During such process, coarser particles are thrown outward and captured on the sides of the bag media. Fine particles proceed downwards to the lower portion of the filter bag. The Deflector Shield effectively prevents these

particles from rising and forces them into the filter media under the deflector

DEFLECTED FLOW

Since the bag bottom mainly captures fine particles, the potential destruction of the bottom is significantly reduced.

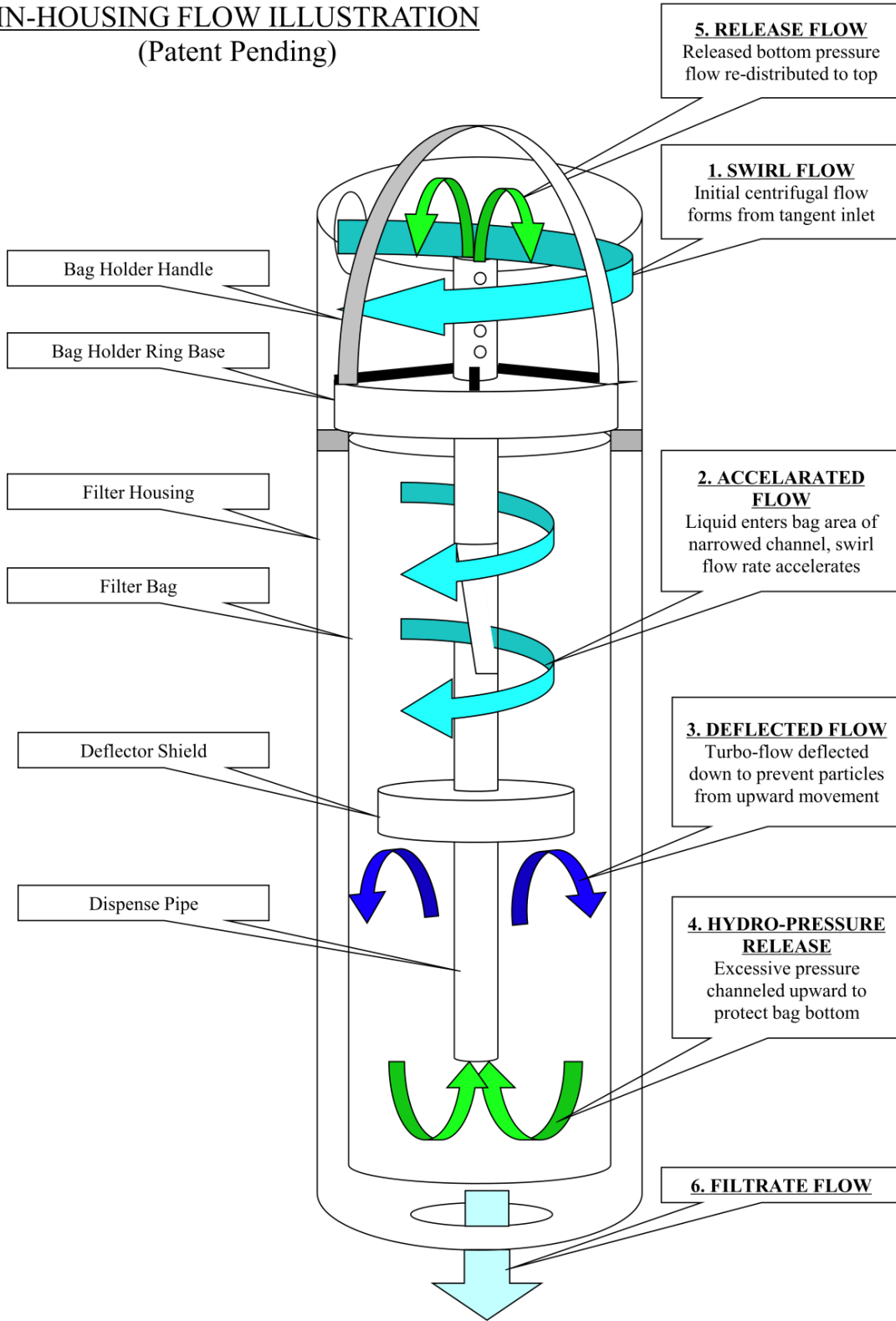
HYDRO-PRESSURE RELEASE

Excessive pressure developed at the bag bottom is released and channelled upward through the Dispense Pipe, effectively protecting bag bottom from bursting, one of the most common problems.



See illustration/diagram below

IN-HOUSING FLOW ILLUSTRATION
(Patent Pending)



The HCTB is manufactured by ISO9001 certified Sun Central LLC, Wilwaukee, USA at their Shanghai factory.