

# Donaldson® Disk Drive Filtration Technology

## Description

The Standard Recirculation Filter (SRF) is comprised of an electrostatic filtration media encapsulated between two layers of protective scrim.

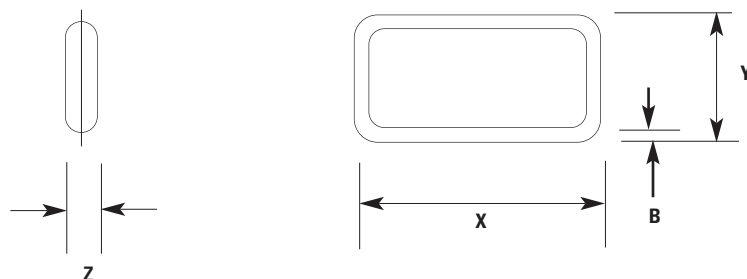
## Principle of Operation

The SRF is designed to provide protection from particles. The high efficiency, low pressure drop construction provides optimized particle clean-up performance.

## Installation in Drive

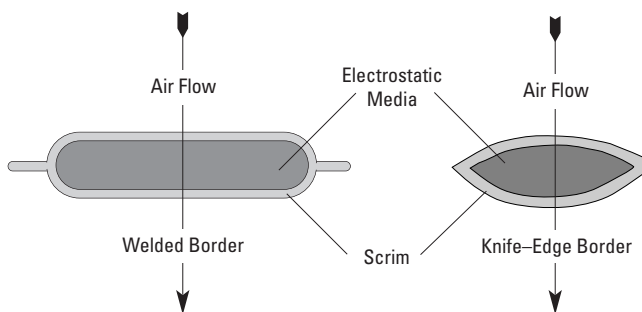
The SRF is located directly in the path of the airflow generated by the rotating disks. In a hard disk drive, this location is typically opposite the read/write arm; in a removable cartridge drive, it is typically in the airstream entering the cartridge. The installation of the filter into the drive can be accomplished by several techniques. The most common method is inserting the filter into a holder integral to the base casting. Alternative methods are inserting the filter into a slot in a plastic bracket or ultrasonically welding the filter to the plastic bracket. The plastic bracket, in turn, is custom designed to fit into the base casting.

## Dimensional Specifications



Dimension	Range	Tolerance
X Length	8–50mm (0.31–1.97")	± 0.5mm (0.02")
Y Width	2–50mm (0.08–1.97")	± 0.5mm (0.02")
B Border, Welded	0.5–3.0mm (0.02–0.12")	
B Border, Knife-Edge	No Border	
Z Thickness (@ 0.5 PSI)	2–5mm (0.08–0.2")	± 1.25mm (0.05")

## Typical Construction, Cross-Section



## STANDARD RECIRCULATION FILTER (SRF)

Parameter	Specification	Comment
<b>Performance</b>		
Restriction	1–3 mm of H <sub>2</sub> O @ 5.3 cm/s (10.5 ft/min)	
Efficiency	45-95% on 0.1 µm Particles @ 5.3 cm/s (10.5 ft/min)	
<b>Packaging</b>		
Inner Bag	Level 100 Cleanroom Bag Free of Silicone, Amides, and DOP per NVR/FTIR	
Outer Packaging	Enclose Inner Cleanroom Bag in Outer Cleanroom Bag	
<b>Contamination Control</b>		
In-House Cleanliness Testing Performed Routinely. Designed to Meet the Most Stringent Cleanliness Specifications. Manufactured in a Cleanroom Environment.		

Contact your Donaldson representative for more information.



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