

## Filtration Systems

### MORE CONSISTENT CLEANING

The addition of filtration allows operators to maintain consistent chemistry within their system resulting in a more consistent and predictable cleaning operation. Filtration enables the continuous removal of debris which can slow down the cleaning process and consume cleaning chemicals. By continuously removing debris and contaminants from the cleaning bath, the life of the cleaning solution is greatly extended, drag out of undesirable contaminants is reduced and cleaning chemical consumption is minimized.

### INCREASED BATH LIFE

The addition of filtration increases the lifetime of a cleaning bath. Over time, the filtration operation saves enough in cleaning time and chemicals to pay for itself many times over. Filtration can extend the life of a typical cleaning bath by two to three times while also making the cleaning process more consistent and preventing the drag out of removed contaminants on otherwise clean parts. Other advantages include less water consumption, lower disposal costs and higher equipment usage efficiency.

### COST SAVINGS - CLIENT EXAMPLE

A fabricator is operating a 150 gallon cleaning tank at 15% cleaner concentration and the cleaner costs \$11/gallon. Before the addition of filtration, the typical lifetime of the cleaning solution was 1 week but after filtration, the solution life was extended to 2 weeks and substrates were free of debris upon removal from the cleaning tank.

Before filtration cleaner expenses: 150 gallons x .15 x \$11/gallon x 52 weeks = \$12,870 annually

After filtration cleaner expenses: 150 gallons x .15 x \$11/gallon x 26 weeks = \$6,435 annually

**Savings = \$6,435 annually**

### TYPES OF FILTRATION

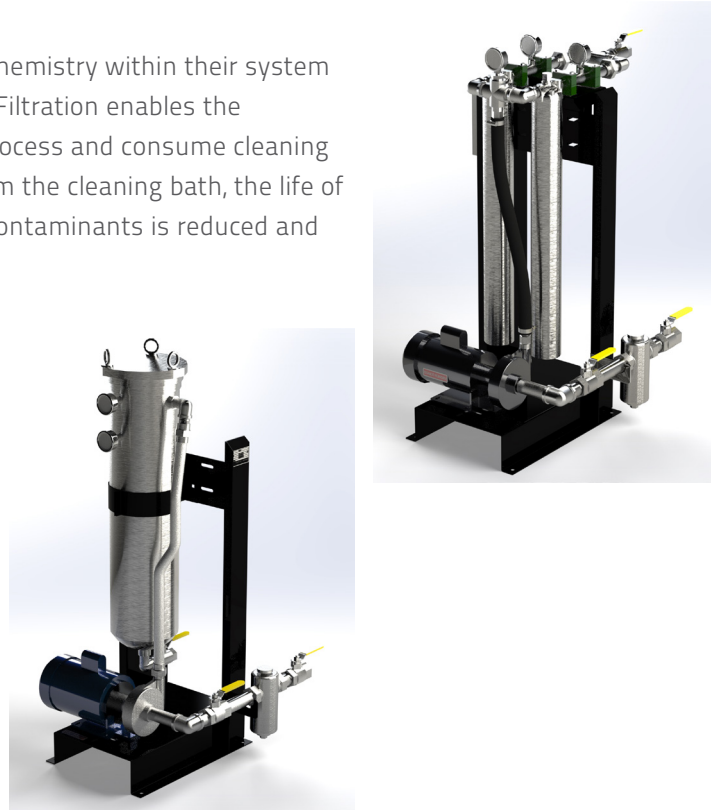
Magnus Engineered Equipment can provide both bag and cartridge style filters as an enhancement for your cleaning process. Filtration equipment is supplied in parallel arrangements, series arrangements, or combinations of both. Parallel configurations allow for higher flow rates while also allowing filter change out without equipment downtime. Fine filtration is achieved with filters of finer particle retention in a linear (series) flow configuration. Our staff can help you select the proper filtration for your cleaning needs, and filtration can be purchased with new equipment or as an add-on to existing equipment.

#### STANDARD FEATURES

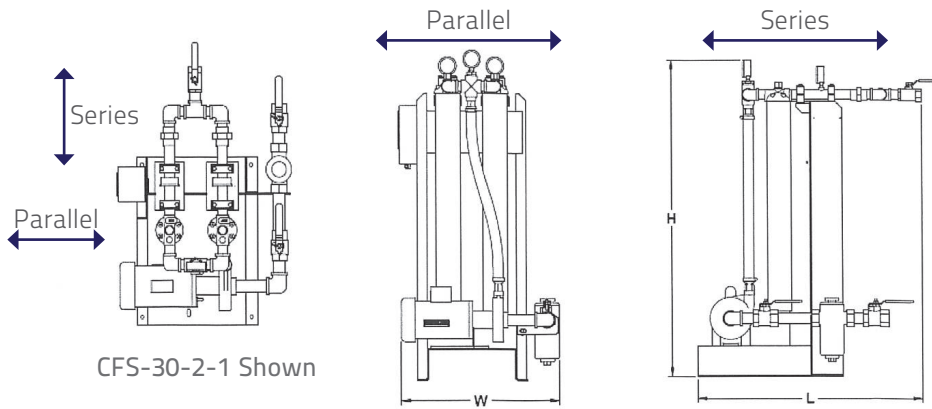
- Easy filter replacement
- Basket strainer to protect the pump
- Centrifugal solution circulating pump
- Complete with manual motor starter
- Painted carbon steel structure
- Liquid filled analog pressure gauges

#### AVAILABLE OPTIONS

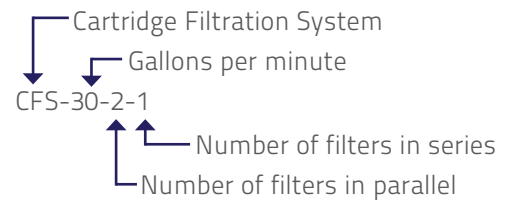
- Return line eductors
- Stainless steel wetted components
- Magnetic pump strainer



# Cartridge Filtration Systems



## MODEL NUMBER LEGEND:



## MACHINE DIMENSIONS

MODEL NUMBER:	CFS-5-1-1	CFS-15-1-2	CFS-15-2-2	CFS-30-1-1	CFS-30-2-1	CFS-30-2-2	CFS-50-2-1
Width (W)	22.00"	23.00"	23.00"	23.00"	23.00"	23.00"	23.00"
Length (L)	28.00"	42.00"	42.00"	29.00"	34.00"	42.00"	34.00"
Height (H)	43.00"	47.00"	47.00"	47.00"	47.00"	47.00"	47.00"

## SERVICE CONNECTIONS

MODEL NUMBER:	CFS-5-1-1	CFS-15-1-2	CFS-15-2-2	CFS-30-1-1	CFS-30-2-1	CFS-30-2-2	CFS-50-2-1
Solution Inlet (NPT)	0.75"	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"
Outlet (pump return) NPT	0.50"	1.00"	1.00"	1.00"	1.00"	1.00"	1.00"

## ELECTRICAL SUPPLY: additional voltages available

240V/3/60Hz	2A	5A	5A	5A	5A	6A	6A
480V/3/60Hz	1A	3A	3A	3A	3A	3A	3A

## GENERAL DATA

Cartridges Required	1	2	4	1	2	4	2
Flow Rate (maximum GPM)	5	15	15	30	30	30	50
Pump Horse Power	1/3	1	1	1	1	1.5	1.5

# Bag Filtration Systems

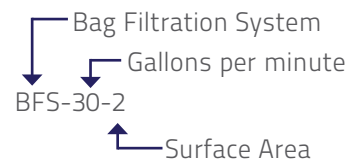
## MACHINE DIMENSIONS

MODEL NUMBER:	BFS-5-3	BFS-30-4	BFS-30-2	BFS-50-1	BFS-50-2
Width	21"	24"	24"	24"	24"
Length	22"	31"	31"	31"	31"
Height	44"	46"	51"	46"	51"

## SERVICE CONNECTIONS

MODEL NUMBER:	BFS-5-3	BFS-30-4	BFS-30-2	BFS-50-1	BFS-50-2
Solution Inlet (NPT)	0.75"	1.25"	1.25"	1.25"	1.25"
Outlet (pump return)	0.5"	1"	1"	1"	1"

## MODEL NUMBER LEGEND:



FILTER TYPE	FILTRATION RATING (NORMAL)
Cartridge	5, 10 and 100 microns
Bag	25, 50, 100, 200 and 300 microns

\* other filter ratings available upon request