

# 3-Inch Duplex C.S. Bag Filter

Model/Make: Bag Filter CS / Krystil Klear D8-30-3F-D-150-C-B-S-PB

## Product Description

Two independent filter housings are skid-mounted and manifolded such that one filter unit is active while the other is out of service. Both filters can also be in service at the same time. Inlet and outlet connections are provided on each end of the skid. These units can be used for filtering a wide range of industrial and commercial process fluids, groundwater discharge from construction sites, stormwater or urban runoff.

## Technical Data

### Weights and Measures

Capacity*	Single Filter: 100 gpm Both Filters in parallel: 200 gpm
Design Pressure	150 psi
Design Temperature	200°F max.
Height	5' - 1" (overall)
Width	4' - 0"
Depth	3' - 8"
Weight	800 lbs

\*Capacity (flowrate) depends on factors such as liquid viscosity, micron value of the filter media, solids loading etc. Assuming water as the filtrate and factoring in pressure drop only, 200 gpm is a practical upper limit for a size #2 bag with a 10 micron rating. Clean pressure drop would be 2-3 psi. Lowering the micron rating increases the pressure drop. The minimum pressure drop for this unit at higher micron ratings is 1-2 psi. Filter bags should be changed out at 15-18 psid, or earlier if the process requires it.

### Wetted Materials *for material compatibility check*

Carbon Steel	Filter vessel; piping
Buna	Top cover seal

### Skid Design

Skid	2"x2" and 2"x4" C.S. structural tubing
Vessel Mount	Legs are attached to cross supports on skid

### Surface Details

Exterior Coating	High gloss polyurethane
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## Filter Design

Filter Housing	Krystil Klear model D8-30-3F-D-150-C-B-S-PB (8" dia. X 36" long)
Top Cover	Three eye nuts; hinged for easy access
Piping	3" schedule 40 C.S.
Inlet & Outlet	3" Male Cam Lock
Cover Seal	Buna N (Nitrile) o-ring
Housing Material	Carbon Steel
Filter Basket	30" deep, 6.7" diameter, 4.4 sq. ft. surface area, 1000 cu. in. volume, 9/64" dia holes (51% open)
Filter Media	Filter bags, size #2. Wide range of micron ratings is available, down to 1.0.
Vent Valves	1/4" ball valve on top cover
Drain Valves	1" threaded ball valve on the bottom of each housing
Gauges	0-100 psi pressure gauge at inlet and outlet

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