

Rush Machinery, Inc.
Specification- Rush FC-300 *Grinding Oil Filtration System*

Filtration Type: Edge Filtration

Filtration Accuracy: All particles larger than 1 micron are removed

Filter Element Material: Compressed paper disks

Filtration Pump: Cast iron, sealless construction

Filter Regeneration: Automatic backflushing of filter elements at programmable intervals

Swarf (Sludge) Handling: Automatically deposited into a cloth-lined basket, rolls out for easy removal

Applicable Fluids: Mineral or synthetic, low viscosity grinding oil (oil to be approved by Rush Machinery)

Fluid Viscosity Range: 37-58 sus (3.6 – 10 cst) at 100 degrees F (38 degrees C)

Compatible Swarf Materials: Tungsten Carbide, HSS*, stainless steel*, ceramic**

* Requires 100 micron prefilter for all steels

** System needs to be oversized for ceramic swarf

Recommended Operating Temperature: 70-85 degrees F (21-30 degrees C)

Operating Temperature Range: 55-110 degrees F (13-43 degrees C)

Compressed Air Requirement (for filter regeneration): 30 cfm at 80psi for 1-2 minutes during regeneration – must be dry and free of particles

Clean Oil Delivery Pump(s): Sized to customer requirements for pressure and volume

Operating Voltage: 440v standard; other voltages are available

Model FC-300-1700 (single filter vessel):

Filtration area: 70 sq. ft.

Number of filter elements: 61

Flow rate: 30 gpm at 46 sus (114 L/min at 6 cst); flow rate will vary with viscosity

Total fluid capacity: 185 gallons (700L)

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Dimensions: 63" x 43" x 57" high (160cm x 110cm x 145cm high)

Model FC-300-21200 (two filter vessels):

Filtration area: 140 sq. ft.

Number of filter elements: 122

Flow rate: 60 gpm at 46 sus (228 L/min at 6cst); flow rate will vary with viscosity

Total fluid capacity: 320 gallons (1211 L)

Dimensions: 63" x 71" x 57" high (160cm x 180cm x 145cm high)

Model FC-300-31800 (three filter vessels):

Filtration area: 211 sq. ft.

Number of filter elements: 183

Flow rate: 90gpm at 46 sus (342 L/min at 6 cst); flow rate will vary with viscosity

Total fluid capacity: 476 gallons (1800 L)

Larger systems are available. Please consult Rush Machinery to review your application.

Available Options:

Refrigerated cooling systems: sized to match the application

Prefilter for steel swarf: Inline, hanging sock-type with self-contained tank; 100 micron rating

Bar magnets for sock-type prefilter

Magnetic drum prefilter: For fluid containing large amounts of steel swarf

Clean oil delivery pumps: Available to match any flow and pressure requirements

Point-of-use compressed air dryer