PRODUCT DATA SHEET

August, 2008

DUPLEX CARTRIDGE FILTER SYSTEM

GENERAL INFORMATION

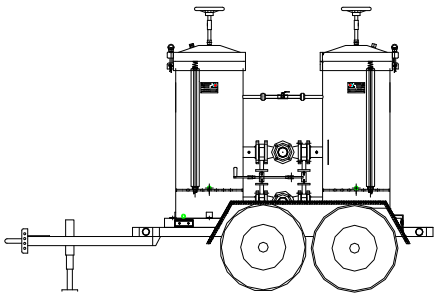
Two independent filters are trailer mounted and piped such that one filter unit is active while the other is out of service. Inlet and outlet connections are provided on each end of the trailer. Housings are not ASME code stamped.

WEIGHTS AND MEASURES

» Capacity:	600 gpm nominal flow rate
» Design Press:	150 psig
» Design Temp:	400°F max.
» Height:	2'-4" (deck height) 8'-5" (overall)
» Width :	7'-0"
» Length:	15'-0"
» Weight:	1,981 lbs.

TRAILER DESIGN

» Trailer Body:	2"x 12" channel
» Sub-frame:	3"x 3" structural tubing
» Trailer Deck:	3/16" thick diamond plate
» Wheels:	Eight spokes, 14x6
» Tires:	ST205/75D14, 50 psi inflation pressure
» Pintle Hook:	Wallace Forge part # AR3-048, 20,000 lbs. gross trailer weight, 1000 lb. max. vertical load
» Axles:	Tandem 3,500#
» Brakes:	Dexter 10"x2¼", with Raybestos breakaway kit including emergency battery
» Lights:	Side marker lighting and tail lights
» Jacks:	One permanent lifting jack on tongue, and one jack for each trailer corner



FILTER DESIGN

» Filter Housing	Two Rosedale 304 S.S. Model 24-40-40-4F-2-150-SST-B-VP housings, duplex arrangement, Buna N gasket, 4" 150# RFSO flanged inlet, 4" 150# RFSO flanged outlet
» Filter Access:	Domed lid with (8) swing-bolt closure assemblies, davit arm assembly for removal, Buna N o-ring sealed
» Piping:	Schedule 80 PVC, design MAWP of 150 psig at ambient temperature
» Inlet & Outlet:	Six-inch header with connections at each end of trailer; one end is blinded with 150# blind flange. Branch line from header to filters is four-inch.
» Cartridges:	40" length double open-end style. 40 total required. (Five micron – 200 micron filtration available)
» Inlet Baffle:	14"x14"x½" 316 SS plate
» Differential Press. Gauge:	0-30 in. water, 2½" dial case, ¼" NPT ports, Buna N static seals, aluminum wetted parts, teflon piston seal
» Butterfly Valves:	125 WB/LB , 200 psig MAWP, ductile iron body & disc, 416 SS shaft, Buna N seat and seal
» Ball Valves:	1" PVC, rated for 150# @ 73°F.
» Vent Valves:	½" steel ball valves, one on each filter housing
» Drain Valves:	No-Kink hose bibbs, ¾"MIPx¾" hose
» Pipe:	Schedule 80 PVC

SURFACE DETAILS

» Exterior Coating:	High Gloss Polyurethane

TESTS / CERTIFICATIONS

» Test Performed:	Scheduled QMS inspections

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