

Continuous Diesel Polishing for Reliable Operation

The Facet DRS Recirculation System is a turnkey solution designed to maintain fuel quality in bulk storage tanks through continuous polishing. The system integrates a pre-filtration vessel and a coalescer/separator vessel to remove free and emulsified water and particulate contamination from stored fuel. By recirculating fuel and removing contaminants before buildup occurs, the system prevents fuel degradation, extends fuel life, and protects critical equipment.

Specifications

Performance (Single-Pass) ISO Cleanliness: 13/11/9
Water Removal: <100 ppm total water

Fluid Compatibility #2 Diesel
Hydrotreated Vegetable Oil (HVO)

Design Flow Rates 10 gpm (38 lpm)
30 gpm (113 lpm)

Model Numbers DRS-10 (10 gpm)
DRS-30 (30 gpm)

Design Pressure 150 psi (10.3 bar)

Approximate Dimensions¹ 48" x 35" x 55" (1219 x 889 x 1397 mm) LxWxH

Approximate Weight Dry: 925 lbs (420 kg) | Full: 1100 (499 kg)

Materials of Construction Carbon Steel | Buna-N Seals

Exterior Coating C4 Classification Paint (ISO 12944)

Interior Coating Epoxy

Vessel Design ASME Sec. VIII, Div. I

Inlet Connection 1 ½" (DN 40) NPT

Outlet Connection 1 ½" (DN 40) RF Flange

Pressure Gauge Ports ¼" NPT

Drain Valve (Prefilter) ¾" NPT

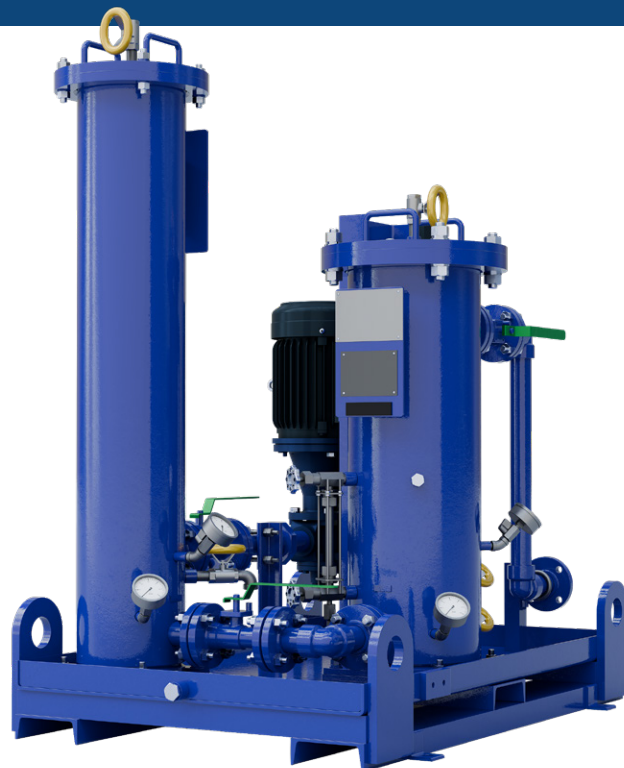
Drain Valve (Coalescer) ½" NPT

Water Drain: Manual Ball Valve

Water Level Detection: Visual Water Level Sight Glass

Pump Motor 10 gpm: 1.5 HP / 460VAC
30 gpm: 5 HP / 460VAC

Controls Manual Start/Stop Control
NEMA 4 Enclosure



Elements

Type	PN	Ø	Length	$\beta_p \geq 1000$	Qty	
					DRS-10	DRS-30
Pre-filter	DMG-636-5	6" (152 mm)	36" (914 mm)	4	1	1
Coalescer	DCI-420	3.5" (89 mm)	20" (508 mm)	-	1	3
Separator	DSI-420	4" (102 mm)	20" (508 mm)	-	1	3

1. Actual dimensions to be confirmed with customer approval drawing.

Optional Features

- Automatic Air Relief Valve
- Automatic Pressure Relief Valve
- Programmable Logic Controller with Touch Screen HMI
- Inlet/Outlet Sample Ports with Isolation Valve
- Higher Flow Rates Available Upon Request

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