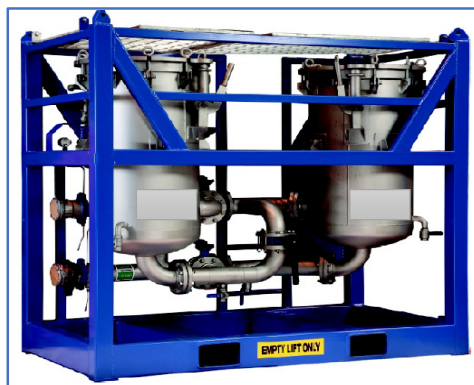


Dual Cartridge Filter Unit

EFFICIENT TREATMENT OF FLUIDS, WITH PROVEN DESIGN AND VERSATILITY

The Esk Offshore Cartridge Filter Unit can be used globally for the treatment of completion fluids during wellbore cleanup, gravel pack operations, workovers, water injection operations, and general seawater (brine) filtration. The stainless steel filter pods can be fitted with nominal rates or absolute rated pleated cartridge elements or oil absorption filter elements. Each pod holds fifty, 39" (1000mm) cartridges. The design the manifold allows the operator to choose between single, dual parallel or dual series vessel use. The dual series configuration is used with two stage filtration, using coarse filters in the first vessel and fine filters in the second.

The Cartridge Filter unit can be positioned as a polish filter downstream of the diatomaceous earth filter or as a stand-alone filtration unit. This filter unit is particularly effective for filtering seawater and treating produced water during well testing, when fitted with oil absorption filters. Flow rates for the units range from 1 to 18 bbl/min (up to 168 m3/hr).



Cartridge Filter Unit	
Features	Benefits
Individual, in-parallel or in series flow	Flexible use
High Flow Rates	Process large quantities of fluid
Easy operation	Requires minimal training
Small footprint	Minimal deck space
Large filtration surface area	Highly-effective treatment of lightly contaminated brines
Specifications & Dimensions	
Number of cartridge per vessel	50
Maximum recommended flow	18bbl/min (168m ³ /hr.)
Maximum working pressure	140psi (10Bar)
Maximum working temperature	158°F (70°C)
Vessel design code	PED 5500
Cartridge diameter	2.5in (63mm)
Cartridge length	39in (1000mm)
Code 3 cartridge type	Single closed and 222 open end
Vessel diameter	24in (610mm)
Pipe Size	4in (100mm)
Vessel and pipe materials	316 Stainless steel
Frame material	Carbon Steel
Inlet and outlet terminations	4in (100mm) NPT Thread
Pressure Relief Valve	140psi (10Bar) Set point
Dimensions	89in x 47in x 79inH / (2250mm x 1200mm x 2000mmH)
Weight	3300lb (1500Kg)

Contact Bcampbell@eskoffshore.com for further details!