

Sand Filters



Airpac Rentals

Energy Industry Solutions



Sand Filter



Tool Box

10,000 psi - 15,000 psi Dual Pot Sand Filters

The Airpac Rentals fleet of 10,000 psi and 15,000 psi dual pot sand filters improve well analysis during testing operations through the effective removal of sand and other solids from the well effluent. Wellhead sand filtration is established as an industry standard technique for sand and solids removal.

The two filtration pods are controlled individually allowing for either single or dual pot operation. Normally, one vessel is in use, in order to facilitate cleaning of the other.

The unit is skid mounted in a DNV 2.7-1 frame, complete with inlet and outlet manifolding, double gate valves on the downstream side and connections to register differential pressure across filters.

Each sand filter is supplied with an extensive spares package and fully equipped tool box.

Advantages

- Minimum mesh size 50 Micron
- Filter collapse pressure Maximum OD 14 1/4 inch
- Gas flow capacity 5,000 psi up to 20 MM scf/d 10,000 psi up to 35 MM scf/d 15,000 psi up to 50 MM scf/d
- Liquid flow capacity up to 5,000 Bpd

Flow capacity is dependent on filter element mesh size, viscosity and the amount of pollution. The filter elements are designed to stop sand/debris transport, without obstructing liquid and or gas flow through the unit.

Features

- Modular and rugged filter design
- Standard 200 micron filter cartridge supplied
- Annular flow and sand storage
- Safe & quick cleaning features
- Vertically positioned gate valves (to avoid gate obstruction)
- Fitted with back up valves
- No post-frac clean up required, production starts immediately through the facilities
- Diaphragm pump to facilitate flushing of the filter elements
- Tool box container supplied with critical spares and work space for operators

Options

- Experienced personnel providing a complete operational package including: hook-up & commissioning, servicing, re-fuelling and multiple installation assistance
- A range of micron screen sizes are available
- Can be supplied with a Sand Collection Box for collection of the waste solids
- High pressure bleed hoses are available on request

Technical Specifications

10,000 psi - 15,000 psi Dual Pot Sand Filters

Performance

Model	10,000 psi	15,000 psi
Working Pressure	10,000 psi	15,000 psi
Flow-line connections	3 ¹ / ₁₆ " Flange	3 ¹ / ₁₆ " Flange
Gas Flow capacity (higher rates may be achievable if modelling conducted)	35 MM scf/d	50 MM scf/d
Liquid flow capacity	5,000 Bpd	5,000 Bpd
Holding capacity per vessel	180 effect litres	100 litres
Vessel O.D	Up to 356mm / 14"	356mm / 14"
Filter Element O.D	114 mm / 4 ¹ / ₂ "	165mm / 6 ¹ / ₂ "
Filter mesh sizes (wire screen)	50 - 800 microns	
Differential Pressure Across the Filter Element	1 bar (clean and empty) in use advised max. ± 25 bar	
Filter Collapse Pressure	<100 bar	180 bar
Inlet Connection	3" 1502 Weco Union	4" 2202 Weco Union
Flush Line Inlet	2" 1502 Weco Union	n/a
Flush Line Outlet	2" 1502 Weco Union (x2)	2" 2202 Weco Union (x1)
Temperature class	Standard up to 250°F / 121°C	
Design Code	ASME & API 6A Certification Authority Det Norske Veritas	
Service	Sour (H ₂ S) service, Per NACE MR-01-75 latest rev.	

Weights & Dimensions

Transportation	10,000 psi	15,000 psi
Overall Length	4200mm / 165"	4300mm / 169"
Overall Width	2400mm / 94"	2500mm / 98"
Overall Height	2680mm / 105.5"	2500mm / 98"

Operational	10,000 psi	15,000 psi
Overall Length	2680mm / 105.5"	2500mm / 98"
Overall Width	2400mm / 94"	2500mm / 98"
Overall Height	4200mm / 165" (with lifting beams extended max. 7500mm)	4300mm / 169" (with lifting beams extended max. 7500mm)
Weight	9500 Kgs / 20944 lbs	15000 Kgs / 33069 lbs

Tool Box	Metric	Imperial
Dimensions	(L)1829 x (W)1524 x (H)2438mm	(L) 72" x (W) 60" x (H) 96"
Weight	6000 Kgs	13228 lbs

N.B. Weights and dimensions are for guidance only; please contact your local Airpac Rentals office for individual asset details

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Airpac Rentals UK is certified to
BS EN ISO 9001:2015 & BS EN ISO 14001:2015



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