

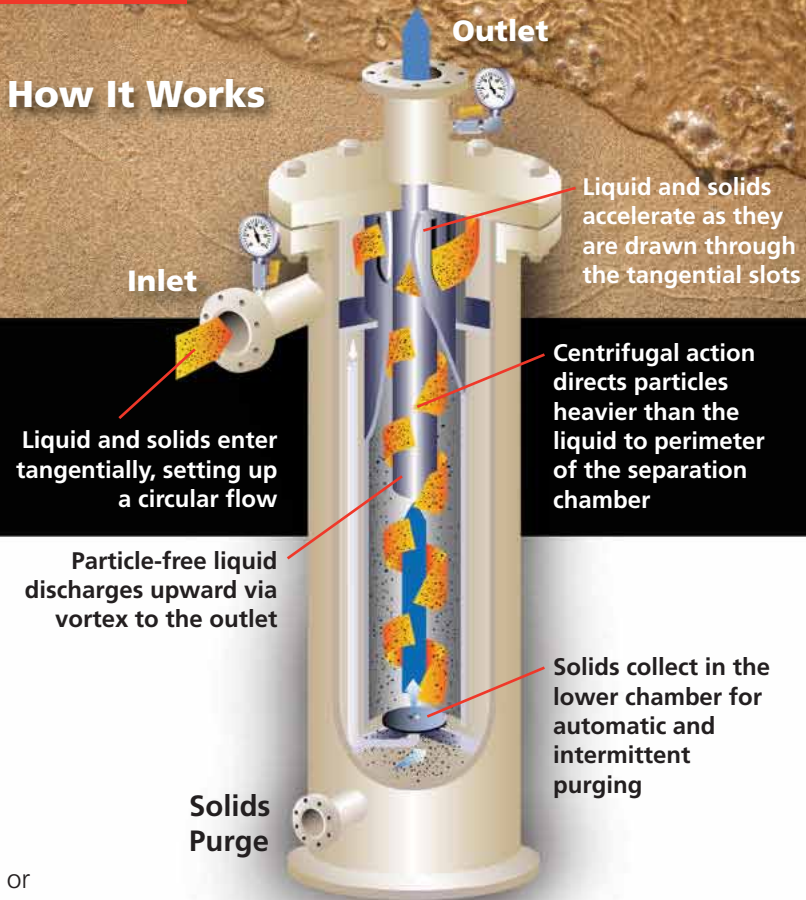
# More Solutions for More Production

## enerscope Desander

### Key features

- Designed and constructed to all industry standards such as ASME (section VIII, Div I), ANSI, CRN, PED and NACE among others for your specific application
- Independently tested
- No moving parts – no liners, screens, filter elements to clean or replace; no servicing routines saves maintenance time and cost
- Minimal to zero liquid loss – no backwashing eliminates additional treatment and allows reclaiming of valuable fluids
- Low and steady pressure loss saves energy and provides predictable flow rates
- Designed to handle slugging, upset situations and high solids loading to provide a predictable operating system
- Enhanced internal accelerating slots for optimum solids-removal performance without emulsification
- Internal vortex tube for enhanced separation and collection
- Choice of profiles to accommodate space and piping limitations making for an easy layout and installation
- In-line inlet and outlet configuration for simplified piping
- Systems and skidded units available

### How It Works



### Enerscope Desanders effectively remove solids from liquids using centrifugal-action.

Designed for high efficiency solids removal for dirtiest of applications to keep your fluid stream free of troublesome solids.

These desanders are used for a wide range of onshore and offshore applications from primary filtration to waterflood injection, disposal wells and SAGD. Units are designed with a two-to-one turn down ratio in most cases with flow rate from 100 bbl/d to 450,000 bbl/d per unit.

## General Specifications

| Model     | Flow Range    |                    | Inlet/Outlet | Purge Size | Collection Chamber Capacity |        | Weight |     | Weight w/ Water |       |
|-----------|---------------|--------------------|--------------|------------|-----------------------------|--------|--------|-----|-----------------|-------|
|           | bbld          | m <sup>3</sup> /hr |              |            | gal                         | liters | lbs    | kg  | lbs             | kg    |
| ESI-0015  | 2,200-3,800   | 15-25              | 2            | 2          | 0.8                         | 3      | 150    | 68  | 221             | 101   |
| ESI-0020  | 3,000-5,400   | 20-35              | 2.5          | 2          | 0.8                         | 3      | 194    | 88  | 278             | 126   |
| ESI-0030  | 4,600-8,400   | 31-55              | 3            | 2          | 0.8                         | 3      | 202    | 92  | 290             | 132   |
| ESI-0045  | 7,000-12,000  | 47-79              | 4            | 2          | 1.6                         | 6.1    | 327    | 149 | 507             | 231   |
| ESI-0065  | 9,900-19,900  | 66-131             | 4            | 2          | 5.4                         | 20.5   | 474    | 256 | 758             | 345   |
| ESI-0100  | 15,500-31,000 | 103-205            | 6            | 2          | 6.7                         | 25.4   | 697    | 378 | 1132            | 525   |
| ESI-0150  | 22,700-45,400 | 151-300            | 6            | 2          | 10.4                        | 39.4   | 898    | 413 | 1554            | 706   |
| ESI-0185  | 35,000-63,000 | 232-417            | 8            | 2          | 14                          | 53     | 1,200  | 544 | 2,266           | 1,028 |
| *ESI-0265 | 41,000-81,300 | 272-538            | 8            | 2          | 20.5                        | 77.6   | 1,411  | 641 | 2,665           | 1,211 |

\*Desanders for smaller and larger Flow Rates are also available.

- Pressure loss range: 3-12 psi (0.2-0.8 bar)
- Maximum particle size: 0.375 inch (9.5 mm)
- Standard pressure ratings up to 1,480 psi (102 bar), other pressure ratings available up to 10,000 psi (690 bar)
- ANSI flanged inlet and outlet connections; DIN and other connections available
- Carbon Steel with 1/8-inch (3mm) corrosion allowance or 316L Stainless Steel is standard construction
- Special coating and other materials available
- Spiral wound gaskets SS316L with graphite filled SS centering & inner ring
- Exterior finish is powder coated, minimum 2 lifting lugs

### Efficiencies

Expected performance for most produced water applications to be

|     |                                    |
|-----|------------------------------------|
| 98% | for 74 micron and larger particles |
| 95% | for 73 to 40 micron particles      |
| 84% | for 39 to 20 micron particles      |
| 50% | for 19 to 1 micron particles       |

These efficiencies are based on particles with a specific gravity of 2.6. For particles with specific gravities of 1.5 to 2.5, efficiencies to be

|     |                                    |
|-----|------------------------------------|
| 98% | for 74 micron and larger particles |
| 75% | for 73 to 40 micron particles      |
| 45% | for 39 to 20 micron particles      |
| 8%  | for 19 to 1 micron particles       |



### HERE ARE A FEW OF OUR COMMON APPLICATIONS:

ESP & PCP Pump Protection **Pipeline Flushing & Testing** FWKO SAGD Produced Water Desanding  
**Waterflood Injection** Frac Water Brine Filtration Fire Water Protection **Offshore Production** Seawater  
 Disposal Wells Heat Exchanger Protection **Secondary Recovery** Tertiary Recovery & Treatment  
 Process Cooling Water Pump Seal Protection Subsea Production **Wellhead Desanding**

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