

## Enclosed solids handling tank (ESHT)

**Expro's enclosed solids handling tank (ESHT) enables solids removal and measurement with minimum exposure to vapours.**

The ESHT is designed to operate at minimum pressures and to collect solids which are filtered out of the production process by high pressure applications.

The tank consists of a vertical cylindrical top part with a funnel shaped bottom part. Sight glasses in the funnel enable liquid-and solid level determination. A 10" air operated valve at the bottom of the funnel allows draining of solids.

The design includes a 2" or 3" inlet, 2" liquid drains at several levels on the tank and a flame arrestor as an integral part of the vent line. An internal water spray enables the tank and sight glasses to be flushed.

A roller conveyor at the bottom of the frame enables easy removal of solids containers. Finally a weight indicator is supplied to measure produced amounts of solids.



### Features and benefits

- Reduces the need for manual handling
- Reduces exposure to personnel
- Small footprint

### Applications

- Onshore and offshore oil and gas well testing and clean-up operations.
- Solids exclusion
- Frac clean up

### Technical specifications

	Type 1	Type 2	Type 3
Working pressure (inlet manifold)	150 psi (10 bar)	150 psi (10 bar)	150 psi (10 bar)
Working pressure (vessel)	Atmospheric	Atmospheric	150 psi (10 bar)
Capacity	10.4 bbls (1.7 m <sup>3</sup> )	12.6 bbls (2.0 m <sup>3</sup> )	9.4 bbls (1.5 m <sup>3</sup> )
Connections	Effluent inlet: 2" fig 1502 Liquid outlet: 2" fig 1502 Solids outlet: 10" knife valve Water flush ½" crowfoot Air inlet: ½" crowfoot Manhole: 16"	Effluent inlet: 3" fig 1502 Liquid outlet: 2" fig 1502 Solids outlet: 10" knife valve Water flush ½" crowfoot Air inlet: ½" crowfoot Manhole: 19"	Effluent inlet: 3" fig 1502 Liquid outlet: 2" fig 206 Solids outlet: 10" knife valve Water flush 1" 150lb flange Relief outlet: 4" fig 206 Vent outlet: 4" fig 206 Air inlet: ½" crowfoot Manhole: 24"
Weight (dry)	2,750 kg (6,062 lb)	3,500 kg (7,716 lb)	7,000 kg (16,534 lb)
Dimensions	4.5m x 2.0m x 1.9m (14.8' x 6.6' x 6.2')	3.8m x 2.0m x 1.9m (12.5' x 6.6' x 6.2')	4.4m x 2.1m x 1.8m (14.4' x 6.9' x 5.9')
Special Features	Air operated solids drain valve Internal water flush system 4 liquid drains at several heights Integrated flame arrestor in vent line Separate weight indicator for solids measurement	Air operated solids drain valve Internal water flush system 5 liquid drains at several heights Integrated flame arrestor in vent line Separate weight indicator for solids measurement	Pressurised vessel Nitrogen purge facility Air operated solids drain valve Internal water flush system 5 liquid drains at several heights Separate weight indicator for solids measurement.

Note: Other sizes, configurations and pressure ratings are available to meet most applications. For more information contact your local Expro representative or email [welltesting@exprogroup.com](mailto:welltesting@exprogroup.com)