



**Halgan**  
Environmental

Product Booklet

# TS Series PE Oil/Water Separators

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Call 1800 626 753

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[www.halganenvironmental.com.au](http://www.halganenvironmental.com.au)

## Halgan Environmental

Halgan Environmental has a diverse range of products to collect, treat, hold and release water providing suitable solutions and supporting environmentally friendly urban design.

## Australian Made

We are proud that the production and manufacturing of our water treatment products are located in Australia, using Australia

## Our Vision

We are committed to the continued growth of Halgan Environmental with our research and development team working along with local authorities, research and education institutions, to further expand our product range as per industry and environmental needs, in order to contribute to a more sustainable future.

## Our Services

Halgan Environmental provides a complete sustainable environmental treatment end-to-end solution from design assistance and manufacturing to maintenance and servicing of our wastewater and stormwater solutions.



# Halgan Environmental TS Series Oil/Water Separator

**Halgan Environmental TS Series Oil/Water Separators** are classified as coalescing type separators (CPS), where oil droplets in suspension in the moving water stream are removed in a coalescing process by the separating media.

The separating media in the two stages of the Halgan Environmental TS separator provides a random packed mass of polypropylene rings with a maximized ratio of surface area to volume. The mass of rings fully occupy the compartments of the two separation stages providing high surface area with the necessary open area to allow the waste water stream to pass through. The random placement of the packing ensures that the waste water cannot “channel” and avoid passing through the media rings.

In the separating process the oil droplets carried in the waste water stream must pass through the maze of polypropylene rings. The gentle flow used, in conjunction with a high surface area and depth of the bed in both compartments, ensures that the majority of oil droplets, however small, impinge on a ring surface. The droplet velocity reduces to zero and gravity takes control. As additional oil droplets impinge on the ring the droplets ‘coalesce’ together and grow in size. As the droplet volume increases the buoyancy



also increases. This increasing buoyancy drives the droplets to top surface. As the oil level grows on the top surface it overflows to a waste oil collection container.

Similarly, but in reverse sequence, the solids particles impinge on the ring surfaces and lose their velocity. Gravity will draw them to the base of the unit as their particle size increases. Upon passing through the treatment system, created by the two stage packed media coalescing process, water is now treated and via separator outlet is ready for disposal or to commence next stage of treatment.

## Why are they used?

Halgan Environmental TS Series Oil/Water Separator packages are installed to remove oils, grease and free hydrocarbons from waste water. They are a standard, low cost, pre treatment system for industrial applications commonly used in Australasia.

## Features

- Small footprint – install to tight spaces
- Available with selection of upgrades to suit site specific requirements
- Utilizes MPK coalescing media technology which is less prone to premature blockage
- No filter bag consumables required
- Removes hydrocarbons to 10ppm to exceed water authority regulations
- Commonly used as primary treatment for water recycling



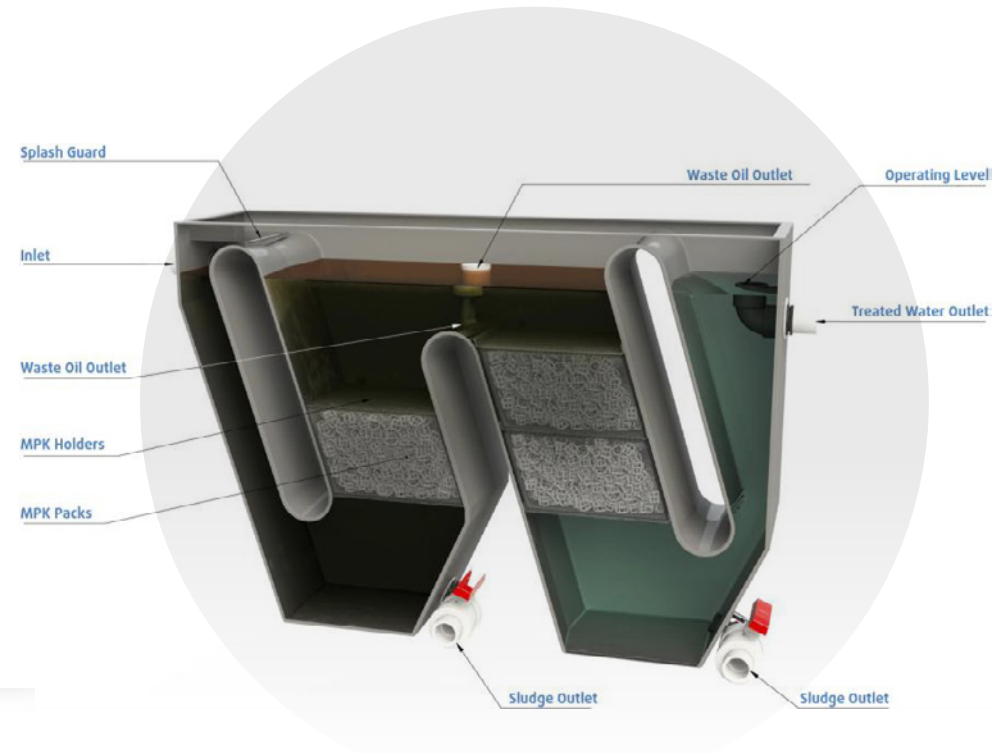
## Benefits

- Approved and appraised by all major metropolitan and regional authorities
- Turn key packages – easy and quick to install
- Avoid costly fines from authorities
- Avoid compromising the daily operations of your business
- Weatherproof for outdoor installations
- Automated operation and no consumables required
- Average working life of 20+ years

## How do they work?

Coalescing media packs are positioned in two stages to force free oil droplets to impinge on surface area. Upon impingement on media packs, droplets rise to the surface and are skimmed off into a waste oil container.

Effluent standards for the Halgan Environmental TS Series Oil/Water Separators adhere to the WSAA Product Specification WSA PS 810, Separator Systems for Light Liquids as listed below.



### Effluent Standards

Item	Standard
Total Grease	50 mg/L
Petroleum Hydrocarbons including BTEX	10mg/L
Benzene	0.1mg/L
Suspended Solids	200mg/L
Flammability	< 5% LEL (hexane) at 25OC
pH	7-10

#### NOTES:

- Quick break and bio degradable detergents and degreasers should be used in conjunction with the system.
- Holding pit capacity should match the hourly throughput of the oil separator system.
- Any solvent based liquids or emulsifiers should be avoided, these may affect the efficiency of the unit performance.
- Coalescing oil separators are designed to remove free oils and grease only.

# System Specifications

## Common Applications

- Wash Down Bays
- Small to Large Industrial & Mechanical Workshops
- Mining Workshops
- Mining LV/HV Wash Down Bays
- Refueling Areas
- Constructions Sites
- Commercial Car Washes
- Vehicle & Equipment Wash Down Bays
- Truck & Heavy Vehicles Bays
- Service Stations
- Hire Equipment Branches
- Food & Beverage Plants
- Transformer Bunds
- And many more applications

## Application

The **Halgan Oil/Water Separator** is ideal in a range of applications including: mechanical work shops, truck & car wash bays, fuel depots, panel beaters, service stations, marinas & airports.

## General

- Tank constructed from polyethylene
- The vessel is to be installed in a location that will not cause a nuisance, obstruct fire access, cannot be vandalised or be damaged by vehicles
- The vessel must have ease of access to pumpout point for maintenance
- Non standard installations require Halgan approval.

## Installation above ground

- The vessel is to be supported on a 100mm thick concrete pad
- Any maintenance platform must be designed in accordance with Australian Standard 1657 allowing safe access while inspecting and maintaining the vessel
- All pipes connecting to the vessel shall be fully supported; there shall be no stress on the tank connections
- All stormwater must be diverted away from the vessel to prevent undermining of foundation.

# Other products to consider



## Oil and Fuel Spill Kits

Oil and fuel spills can cause costly operational delays with ongoing health and safety issues.

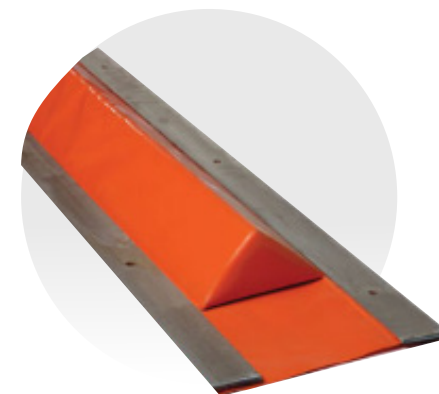
Long-term damage to equipment and expensive cleanups and fines where spills contaminate the environment – unless you deal with them quickly and effectively.

Kit sizes available from 15L to 240L.



## Oil and Fuel Absorbents

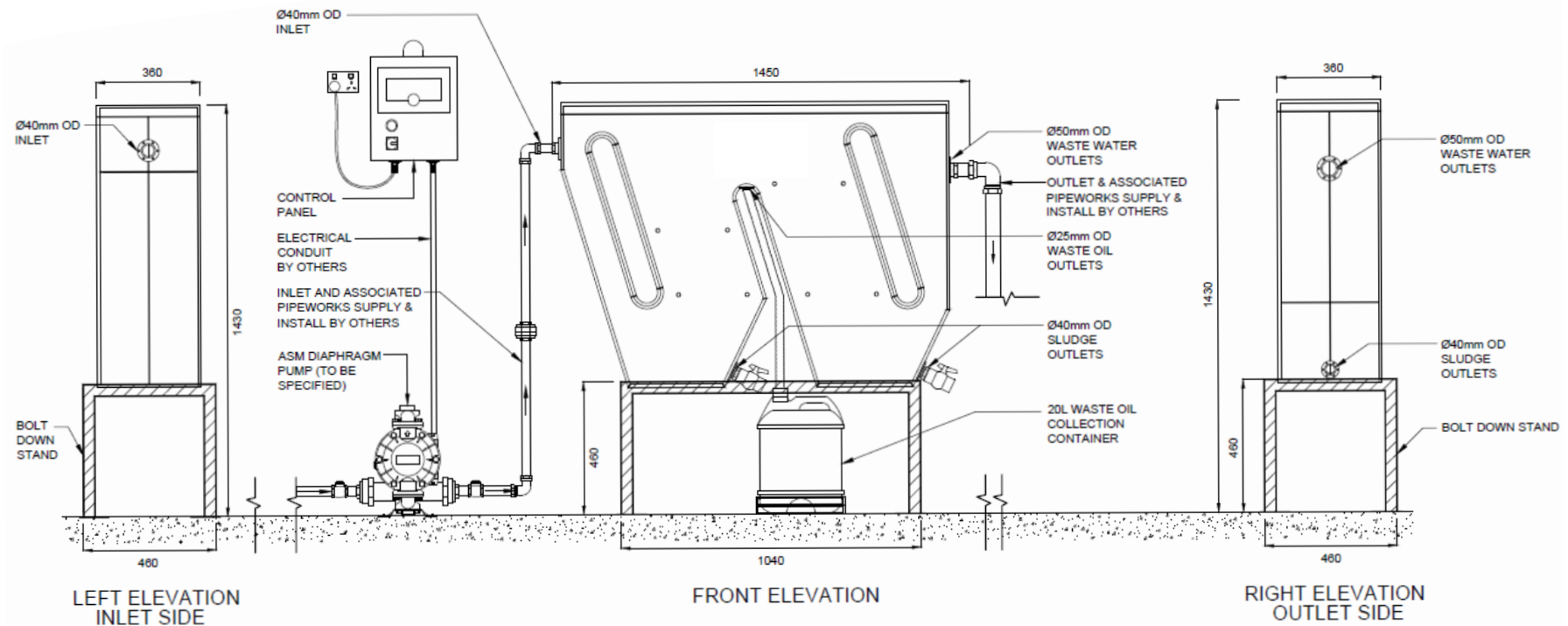
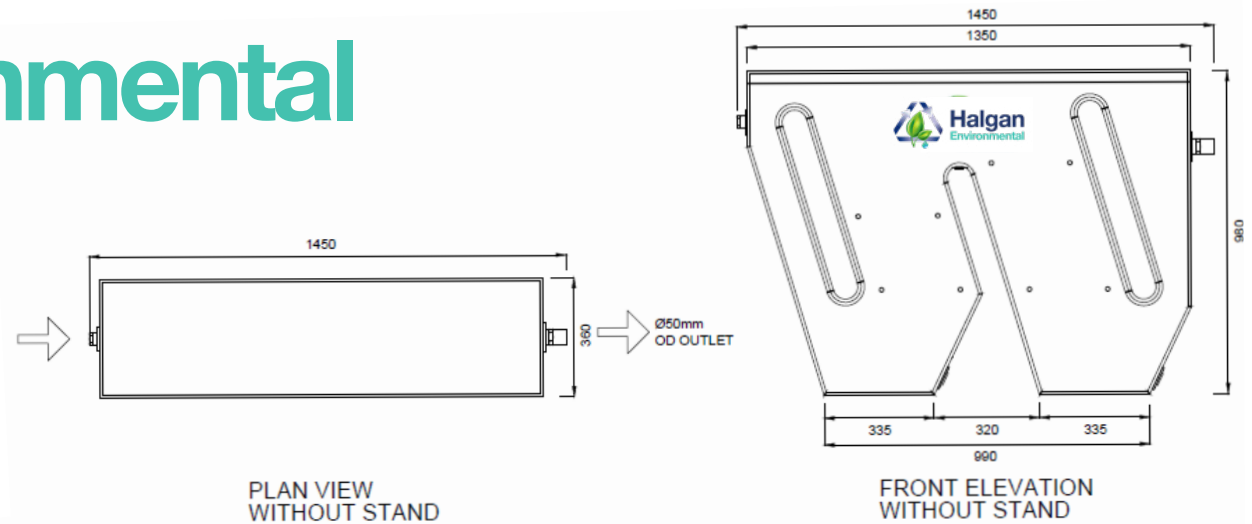
Oil and fuel absorbents help the breakdown of hazardous substances into natural elements. They're the first line of defence where bioremediation is required. Light and compact, our oil and fuel absorbents can be easily stored and transported - even where limited space is available.



## Drive Over Bunding

Drive over bunds can be quickly installed to create a bunded area in workshops, sheds and warehouses. Their robust design enables them to be driven over with up to 1 tonne loads without distorting their shape. They prevent spills from reaching sensitive environments where they can be absorbed into the ground or contaminate water streams.

# Halgan Environmental TS1000PE





# TS1000PE System Specifications

Model	TS1000 PE
<b>System Info</b>	
Dimensions	1350mm long x 360mm wide x 1430mm high
Nominal Litres per Hour	1000 litres per hour
Maximum Litres per Hour	3000 litres per hour
<b>Material</b>	
Construction	Polyethylene
Shipping Weight / Operating Weight	30kg / 380kg
Pump Model	Helical Rotor / Diaphragm
<b>Power</b>	
Power Requirement	240v 10 amp
Power Usage	0.37kW
<b>Performance</b>	
Typical TPH Influent	< 5000 - 6000ppm*
Typical TPH Discharge (treated)	< 10 ppm*

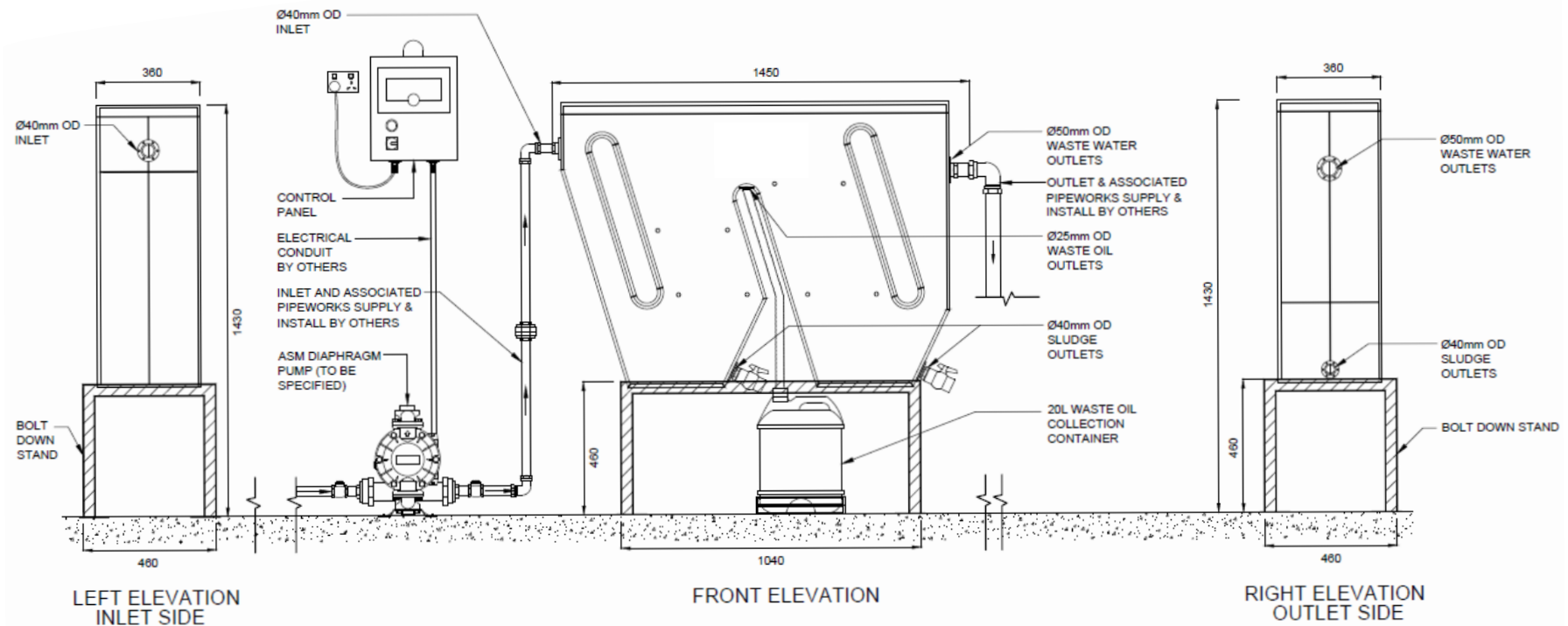
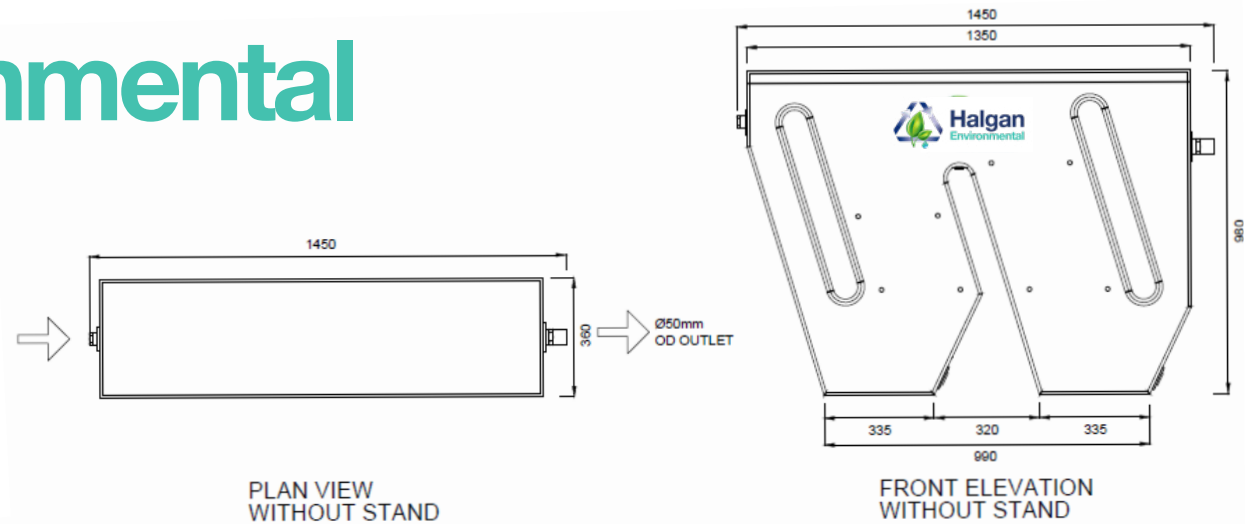
<b>Standard Inclusions List</b>	
Item	Standard
Halgan Environmental Oil/Water Separator	✓
Non-Emulsifying Pump	✓
Float Switch	✓
Control Panel 240v	✓
Galvanized Support Frame	✓
20 Litre Waste Oil Drum	✓

**Please refer to installation, operations & maintenance manual for other important package information.**

\* TPH, oil and grease results are typical and based on free hydrocarbons only, emulsified hydrocarbons may affect discharge results and additional filtration may be required.

**Additional accessories** available to suit your specific application, contact [Halgan Environmental](https://www.halganenvironmental.com.au) on **1800 626 753** to discuss your requirements.

# Halgan Environmental TS1500PE



# TS1500PE System Specifications

Model	TS1500 PE
<b>System Info</b>	
Dimensions	1350mm long x 360mm wide x 1430mm high
Nominal Litres per Hour	1500 litres per hour
Maximum Litres per Hour	3000 litres per hour
<b>Material</b>	
Construction	Polyethylene
Shipping Weight / Operating Weight	30kg / 380kg
Pump Model	Helical Rotor / Diaphragm
<b>Power</b>	
Power Requirement	240v 10 amp
Power Usage	0.37kW
<b>Performance</b>	
Typical TPH Influent	< 5000 - 6000ppm*
Typical TPH Discharge (treated)	< 10 ppm*

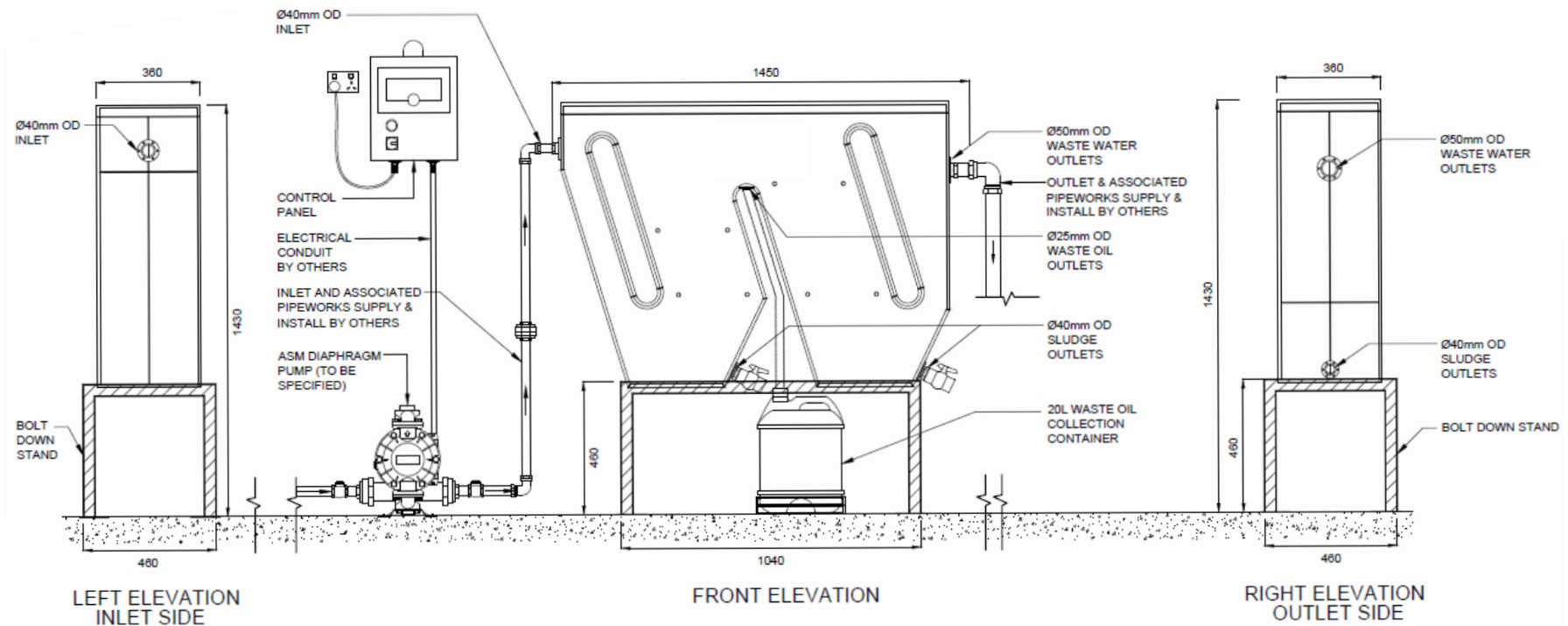
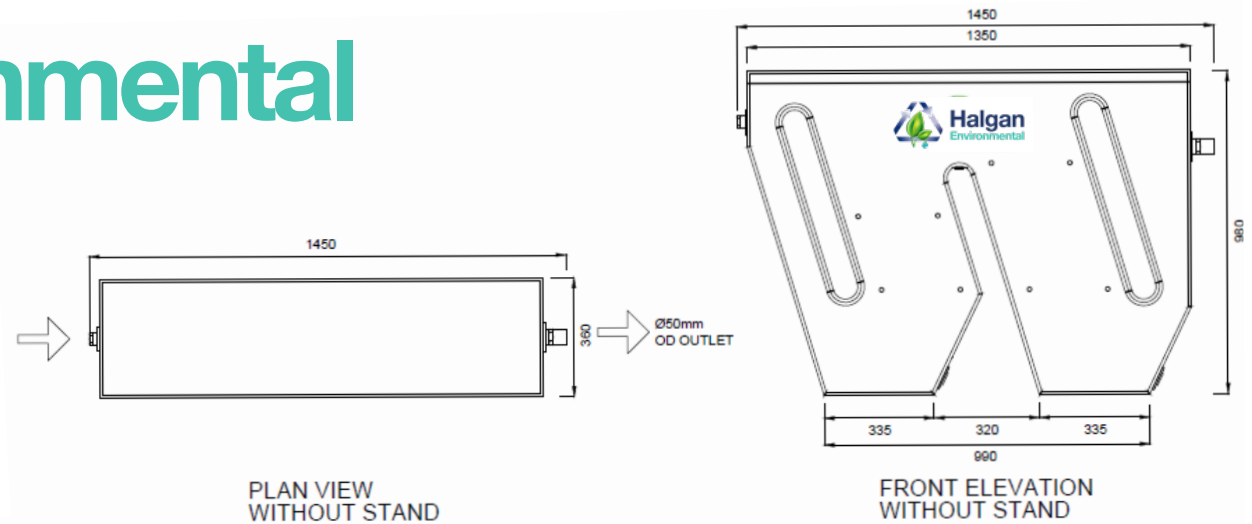
Standard Inclusions List	
Item	Standard
Halgan Environmental Oil/Water Separator	✓
Non-Emulsifying Pump	✓
Float Switch	✓
Control Panel 240v	✓
Galvanized Support Frame	✓
20 Litre Waste Oil Drum	✓

**Please refer to installation, operations & maintenance manual for other important package information.**

\* TPH, oil and grease results are typical and based on free hydrocarbons only, emulsified hydrocarbons may affect discharge results and additional filtration may be required.

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# Halgan Environmental TS2000PE



# TS2000PE System Specifications

Model	TS2000 PE
<b>System Info</b>	
Dimensions	1350mm long x 360mm wide x 1430mm high
Nominal Litres per Hour	2000 litres per hour
Maximum Litres per Hour	3000 litres per hour
<b>Material</b>	
Construction	Polyethylene
Shipping Weight / Operating Weight	30kg / 380kg
Pump Model	Helical Rotor / Diaphragm
<b>Power</b>	
Power Requirement	240v 10 amp
Power Usage	0.50kW
<b>Performance</b>	
Typical TPH Influent	< 5000 - 6000ppm*
Typical TPH Discharge (treated)	< 10 ppm*

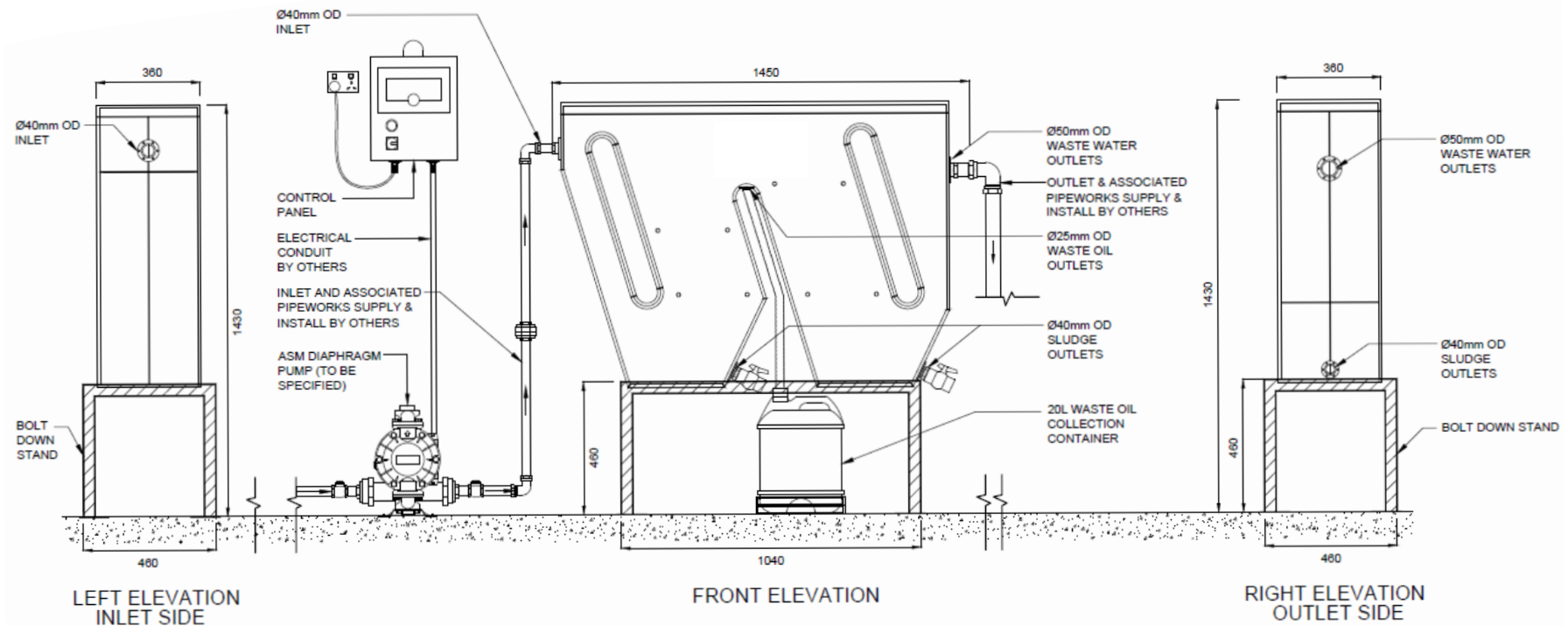
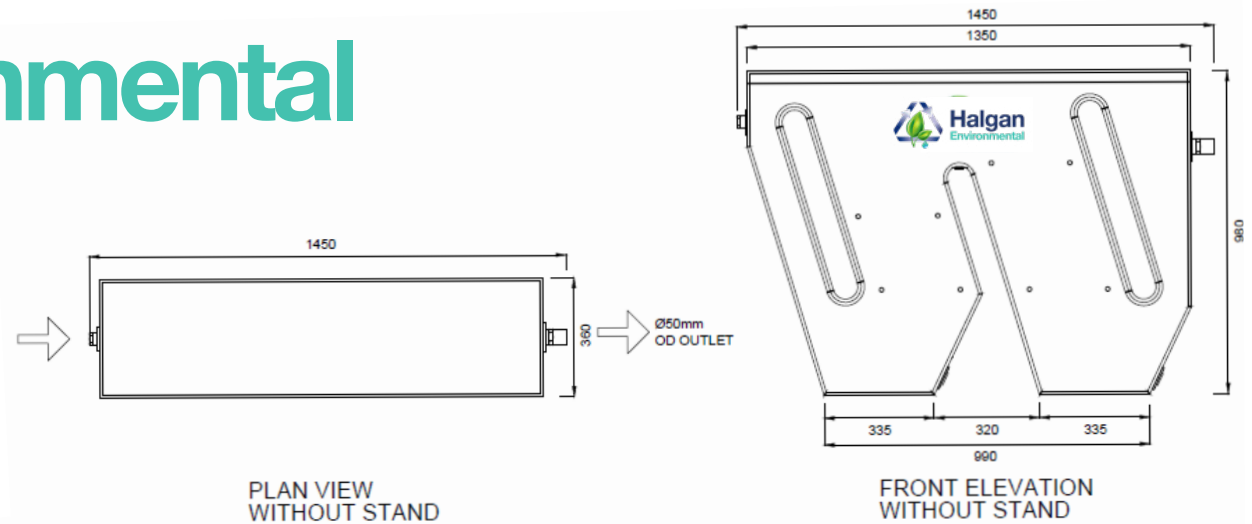
Standard Inclusions List	
Item	Standard
Halgan Environmental Oil/Water Separator	✓
Non-Emulsifying Pump	✓
Float Switch	✓
Control Panel 240v	✓
Galvanized Support Frame	✓
20 Litre Waste Oil Drum	✓

**Please refer to installation, operations & maintenance manual for other important package information.**

\* TPH, oil and grease results are typical and based on free hydrocarbons only, emulsified hydrocarbons may affect discharge results and additional filtration may be required.

**Additional accessories** available to suit your specific application, contact **Halgan Environmental** on **1800 626 753** to discuss your requirements.

# Halgan Environmental TS2500PE



# TS2500PE System Specifications

Model	TS2500 PE
<b>System Info</b>	
Dimensions	1350mm long x 360mm wide x 1430mm high
Nominal Litres per Hour	2500 litres per hour
Maximum Litres per Hour	3000 litres per hour
<b>Material</b>	
Construction	Polyethylene
Shipping Weight / Operating Weight	30kg / 380kg
Pump Model	Helical Rotor / Diaphragm
<b>Power</b>	
Power Requirement	240v 10 amp
Power Usage	0.50kW
<b>Performance</b>	
Typical TPH Influent	< 5000 - 6000ppm*
Typical TPH Discharge (treated)	< 10 ppm*

Standard Inclusions List	
Item	Standard
Halgan Environmental Oil/Water Separator	✓
Non-Emulsifying Pump	✓
Float Switch	✓
Control Panel 240v	✓
Galvanized Support Frame	✓
20 Litre Waste Oil Drum	✓

**Please refer to installation, operations & maintenance manual for other important package information.**

\* TPH, oil and grease results are typical and based on free hydrocarbons only, emulsified hydrocarbons may affect discharge results and additional filtration may be required.

**Additional accessories** available to suit your specific application, contact **Halgan Environmental** on **1800 626 753** to discuss your requirements.



**Halgan**  
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