

Domino ICSEPTM

Induced Cyclonic Separator



Everything Water PTY LTD

VICTORIA

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Domino ICSEP™



Features

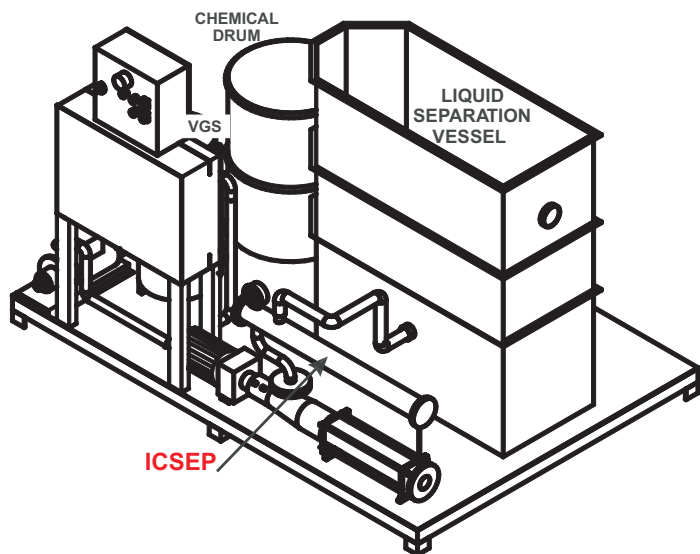
Scalable design allows for flow rates from 50-200+l/min with minimal modification.

High separation efficiency saves money on power and chemical use compared to alternatives.

Small Footprint - 2.6 x 1.8m

All equipment skid mounted for easy transportation.

General Layout



The Domino ICSEP was designed to remove hydrocarbons and solids from waste streams that required discharge to the environment.

The Domino ICSEP utilises a combination of air injection, static mixing, oil and liquid separation technologies to achieve its industry leading treatment abilities.

How it Works

1. The Vertical Gravity Separator draws dirty water from a holding pit removing free oil.
2. Simultaneously, water is drawn from the holding tank into the **ICSEP**.
3. The waste water and air are pressurised within the pump system and if required a flocculent is introduced. Air and oil droplets are sheared and dynamically mixed with the water and suspended solids through the cyclone unit.
4. The homogenous mixture is discharged into the Liquid Separation Vessel (LSV) where gravitational separation takes place with the assistance of micro bubble introduced at the base of the LSV.
5. Separated oil returns to the holding pit via a skimmer or scraper whilst clean water is discharged to the environment or stored for further treatment

Applications

- Vehicle Wash Water Treatment
- Marina bilge water pump outs
- Fuel storage depots
- Ground Water Remediation
- Hose down areas in factories, workshops and maintenance centres.
- Power Stations, Mine Sites, Refineries and petrochemical plants.

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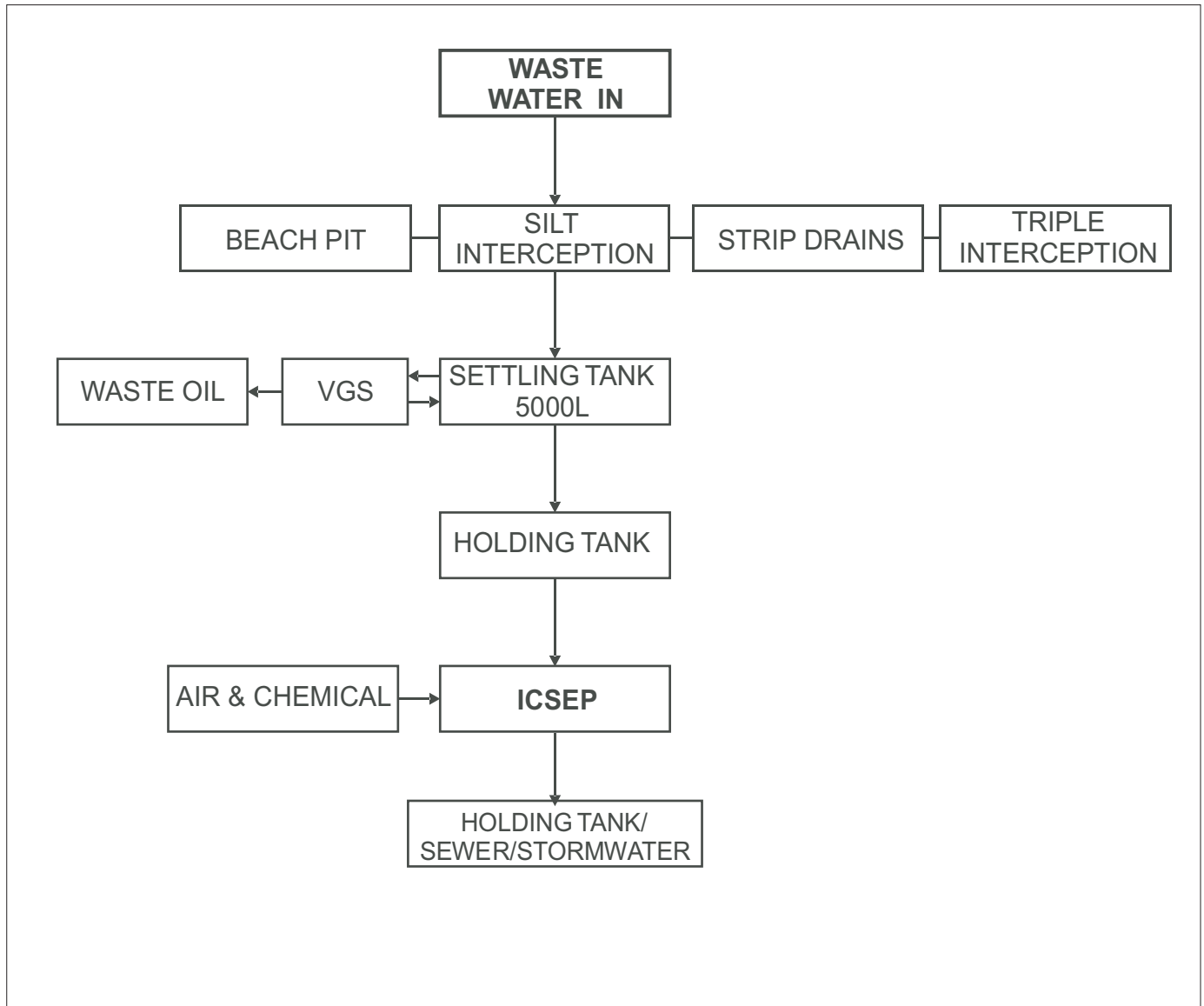
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Process Diagram



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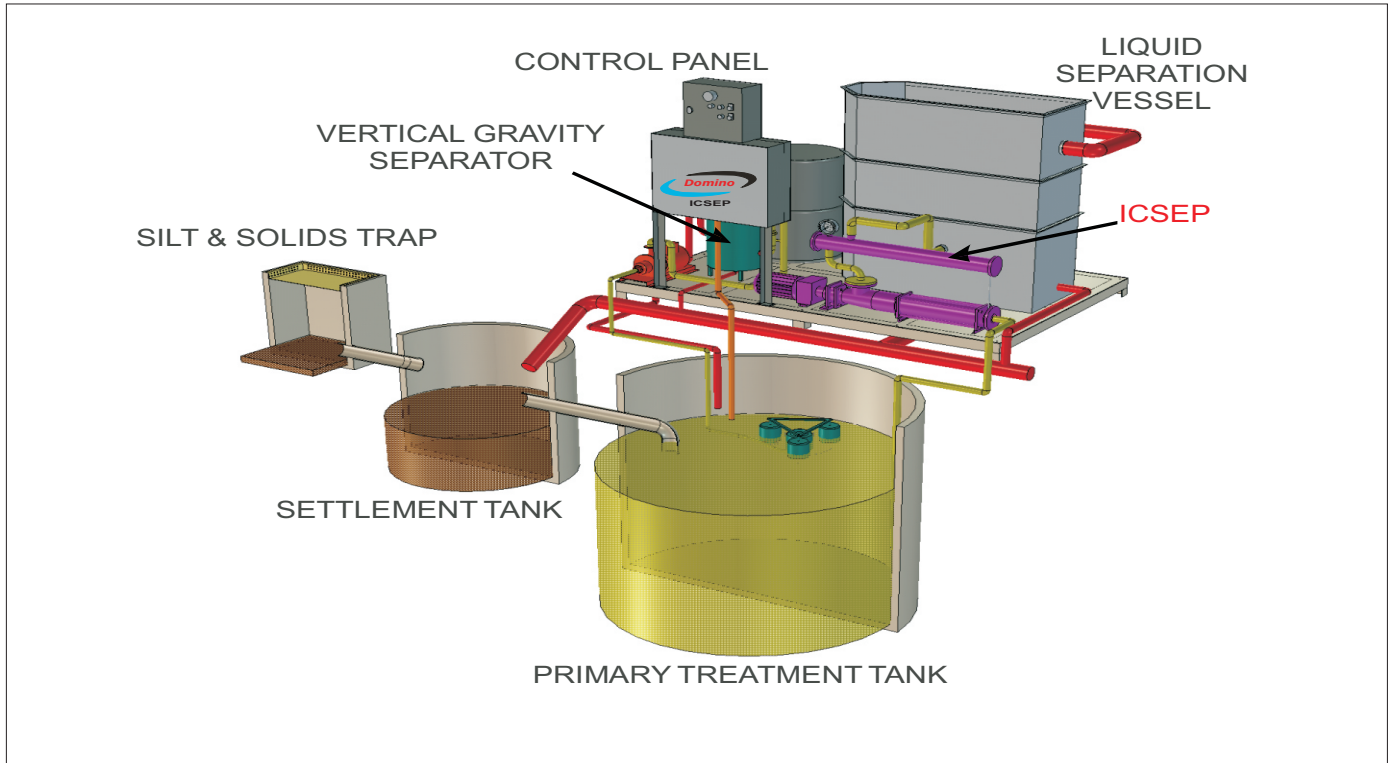
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Typical Domino ICSEP Installation



How it works

1. Waste water enters the system through the silt and solids trap.
2. As the solids trap fills water weirs over into the settlement tank.
3. The settlement tank fills until it also weirs into the primary treatment tank.
4. The water in the primary treatment tank is simultaneously treated in 2 ways:
 - a. Oily water is drawn from the surface of the tank by a floating skimmer which is then fed through a vertical gravity separator (VGS) before returning to the primary treatment tank. Oils and floating solids are captured in the VGS for later disposal.
 - b. Cleaner water is simultaneously drawn from the middle of the tank into the **ICSEP** where a flocculent may be added and the induced cyclonic air infusion process is commenced before transfer of the water into the Liquid Separation Vessel (LSV).
5. Separated hydrocarbons and solids are skimmed back to the tanks. They are now in a form that can be removed by the VGS.
6. Clean water is drawn out of the LSV direct to sewer, storm water or storage for further treatment or re-use.

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