

# ESK™

## Industrial Site Solution

### Oil/ Water Separator with Automatic Shutoff Valve

The **ESK™** is a passive high efficiency coalescing separator that removes free oil from contaminated stormwater runoff and has a built-in shutoff valve to prevent spills and storage capacity excess exiting the device. The device is ideally suited for sites where specific effluent targets are specified, or for sites where removal of oil and grease is the greatest concern e.g. fuel stations, fuel distribution stations, car servicing workshops, etc. It is typically sized to remove oil droplets as small as 10 microns and achieve an effluent concentration of 5 mg/L or less.

in cooperation with

**ecol-unicon**



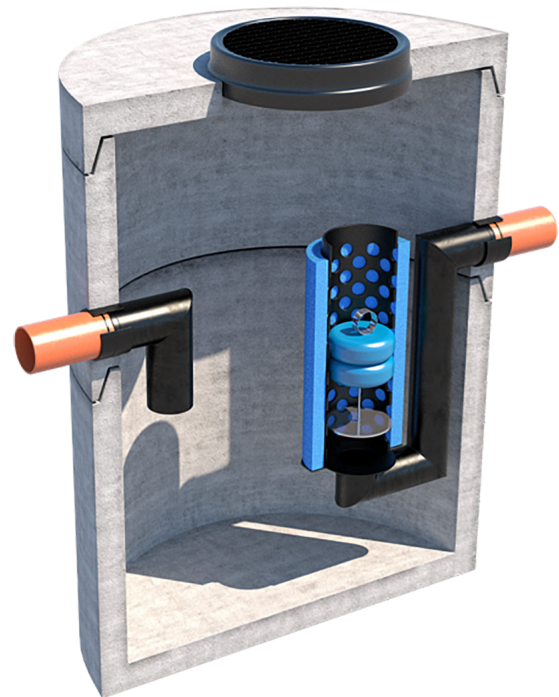
[www.ecol-unicon.com](http://www.ecol-unicon.com)

### HOW DOES IT WORK?

The design of the separator calms down the flow of polluted water and at the same time forces the division into oil (stored in the separator) and water.

Untreated runoff flows enter the ESK™ and are directed downwards via an angled inlet pipe, allowing gravity to start the separation process.

Petroleum derivatives lighter than water float to the surface, where they accumulate forming a layer. Small mineral oil droplets that do not have adequate buoyant force form larger drops (coalescence) during their flow through the coalescence material, which facilitates their separation. The submerged outlet prevents the escape of separated contaminations into the receiver while allowing treated water to exit the system. When the volume of captured oil exceeds the maximum design capacity or when a spill occurs onsite, an automatic shutoff check valve will close to prevent effluent leaving the device.



### ESK™ BENEFITS:

- Separates free oil from water using gravitational and coalescing technology
- Provides discharge of oil concentration as low as <5 PPM with an oil droplet size of approx. 10 µm
- Standard products accommodate a large variety of flows
- Automatic shutoff valve
- Easy to install and maintain
- Reusable and washable media
- Smaller footprint and depth than traditional oil/water separators
- Optional alarm system
- CE Marking
- Compliant with European and British EN 858 standards

## CUSTOMER SUPPORT

### INSTALLATION

Stormwater360 products are some of the easiest to install in the industry. We provide comprehensive installation details and instructions, as well as full technical support on every project.

### MAINTENANCE

Maintenance of Stormwater360 products is cost effective, straightforward and efficient. We offer a complete range of services that can be tailored to your specific site needs.

### SUPPORT

- Drawings and specifications are available upon request
- Site-specific design support is available from our engineers

## AVAILABLE MODELS

ESK	Chamber Diameter	Treatment Flow	Recommended Inlet/Outlet Pipe Size
	m	L/s	mm
ESK10	1050	10	150
ESK20	1200	20	200
ESK40	1500	40	300
ESK100	1800	100	300

Our standard ESK coalescing separator range is designed and manufactured for treatment flows starting at 1.5L/s up to 100L/s. For a site specific or full comprehensive site solution requiring a greater treatment flow, please contact our engineering and sales office via **0800 STORMWATER** or [sales@stormwater360.co.nz](mailto:sales@stormwater360.co.nz) for further assistance



### CONTACT DETAILS

#### Stormwater360

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