



Coalescing Plate Oil Water Separator

The **ALLIED PUMPS** Coalescing Plate Oil Water Separator (CPS) Package combines a moulded polyethylene, fibreglass or stainless steel chamber and high efficiency coalescing plate pack with a range of positive displacement diaphragm pumps and automatic controls to treat run off water containing free oil particles.

Allied Pumps' CPS is an enhanced gravity separator capable of removing oils and fine solids. The unique patented plate construction and plate material serves to multiply its efficiency in comparison with other gravity based devices.

Oily water influent is either pumped or flows into the inlet chamber under gravity. The heavy solids then settle out and the 100% oil slugs rise immediately to the surface. The remaining oily water mixture flows through the plates and both the smaller oil droplets and fine solids are progressively separated. Downstream a baffle or oil dam prevents the collected oil from entering the outlet weir. Maintenance of the CPS separator is simple and can be carried out 'in-house'.

OPERATING PARAMETERS

The Coalescing Plate Technology efficiency far exceeds that of settling tank or conventional plate separator systems. The plate packs remove oil droplets 20 microns or smaller, compared to 60 microns for conventional plate separators with 3/4" spacing and 120 microns for standard API tanks. This enables the separator to reduce effluent free oil content to levels of less than 15ppm over a wide range of influent conditions.

APPLICATIONS

- Workshop wash down facilities
- Commercial car washes
- Transport depots
- Industrial waste treatment
- Service Stations

COMPLETE PACKAGE INCLUDES

- Low voltage control system
- Suction Strainer
- EXN rated float switches
- High level alarm operation
- Operation and maintenance manual



ACCESSORIES

The range of Allied Pumps' CPS accessories are designed to provide for all requirements of a complete system package.

- A single or three phase controller and pump system is available
- Positive displacement diaphragm pumps are matched specifically to separator size to minimise emulsion of oil and water.
- Silt traps for up stream collection of grit and other pollutants are used to further enhance the system effectiveness.
- Holding sumps are used where gravity flows can be retained prior to being pumped into CPS.



PRODUCT SELECTION GUIDE:

OIL SEPARATOR SPECIFICATIONS						
MODEL NO.	FLOW L/H	APPROX. SIZING (mm)	PUMP MODEL	VOLTAGE	KW	SOLIDS (mm)
KCPS 15 FS	1500	1520H x 1450W x 550D	KDS 25	240	0.37	15
KCPS 15 FS EXE	1500	1520H x 1450W x 550D	KDT 25	415	0.37	15
KCPS 30/15 FS*	1500	1520H x 1700W x 870D	KDS 25	240	0.37	15
KCPS 30 FS	3000	1520H x 1700W x 870D	KDS 32	240	0.37	20
KCPS 60 FS	6000	1550H x 2160W x 840D	KDS 38	240	0.75	25
KCPS 75 FS	7500	1850H x 2160W x 840D	KDS 50	240	1.1	40
KCPS 150 FS	15000	1950H x 2905W x 1190D	KDS 76	240	1.5	50

* KCPS 30/15 FS is derated for heavy service applications.

CONTROLLER SPECIFICATION			
CONTROLLER MODEL	VOLTAGE	DIMENSIONS (mm)	NO OF FLOATS
KLC 1	240	200H x 200W x 150D	2
KLC 2 (EXE RATED)	415	300H x 200W x 150D	2

THE CPS ADVANTAGE

- Efficiency - more efficient than conventional triple interceptors at removing oil
- Installation - minimal installation costs
- Safety - safer than conventional methods in which oils can overflow into water catchment areas

CONTROLLER FEATURES

- Safe low voltage control 12V
- Auto/off/manual selection
- High level alarm indication
- Power on indication

