

Separation of Free Oil and Water

High performance, tilted plate, double stage oily water interceptors

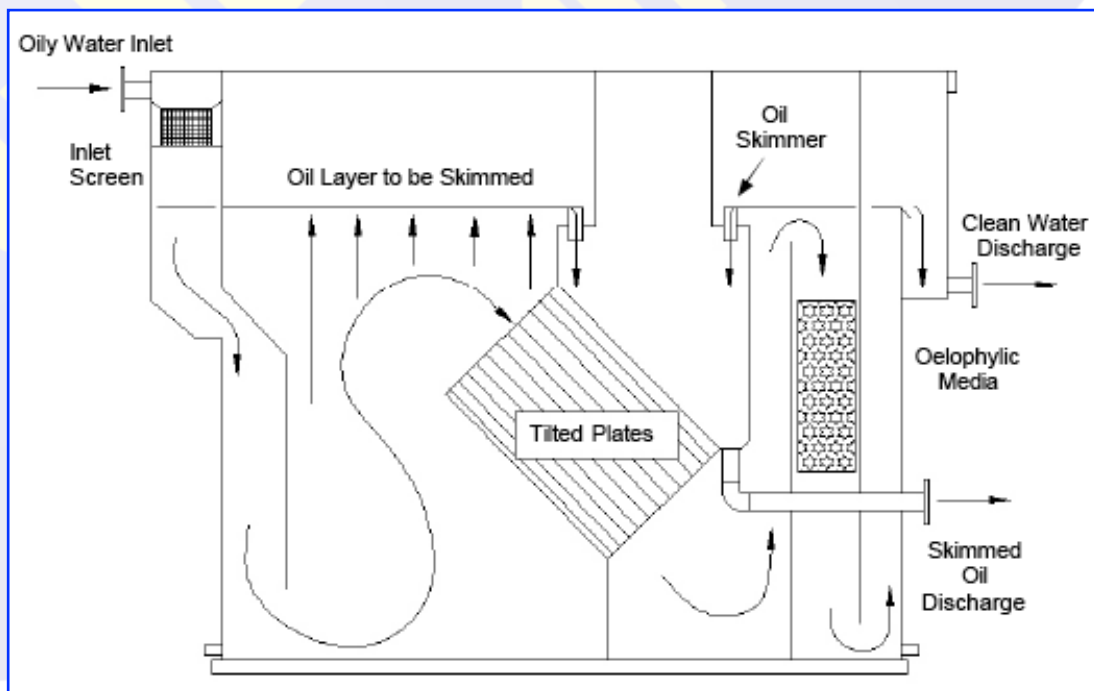
Stand alone systems to achieve 15 - 30 mg/l oil in water

Capacities: 1 - 100 m³/hr



Industries Served

Ports
Transport Depots
Power Stations
Surface Water Run-Off
Car, Train and Truck Wash
Refineries and Oil Storage Depots
Produced Water
Fracking
Oil and Gas



Description

An oily water separator - or interceptor - is used for the separation of free, floating oil and water. Many industries make oily waste water such as heavy industry, docks, shipping lines, oil and gas sector, truck and locomotive wash stations, power stations and airports.

Oily water separators do not remove emulsified oils from water. These will pass through the separator. To separate and remove emulsified oils a second process is needed and the ideal process is Electro Coagulation. See the Crowley Electro Coagulation brochure.

Rain fall becomes surface water run-off from hard standings and will often contain oil and this run -off water needs to be cleaned before discharge to the environment.

Not only heavy industry but food processing sectors also make dirty, oily waters, especially abattoirs and ready-meal and processed food makers.

The oily water separator uses enhanced gravitational separation via tilted plates and second stage oleophilic coalescing filters for polishing. Expected oil removal rates are 99.9% of 50 micron oil droplets of oil with an SG of 0.86 in water with and SG of 1.0.

The oily water separators are stand-alone package plants incorporating adjustable oil skimmers in the first and second stages plus an oil collection tank.

Optional additions to the process are automatic pre screening, feed pumps, heated oil collection tank to prevent thickening of oils and aeration of the second stage coalescing filter for enhanced performance.

Typically the oily water separators are flat bottomed but in the case of heavy solids entrained in the oily waste water, hopper bottom versions are available.

Construction is fully welded mild steel and epoxy coated.

Model	Flow Rate m ³ /hr	Size L x W x D m
OWI 1	1	2.0 x 0.7 x 1.5
OWI 2	2	2.5 x 0.7 x 1.9
OWI 4	4	2.6 x 0.7 x 1.9
OWI 8	8	2.7 x 0.7 x 2.2
OWI 15	15	2.7 x 1.3 2.2
OWI 25	25	3.2 x 1.3 2.6
OWI 30	30	4.2 x 1.3 x 3.1
OWI 45	45	4.5 x 1.3 x 3.3
OWI 70	70	4.5 x 1.9 x 3.3
OWI 100	100	4.5 x 2.5 x 3.3



Heglig, Sudan



Falmouth Docks



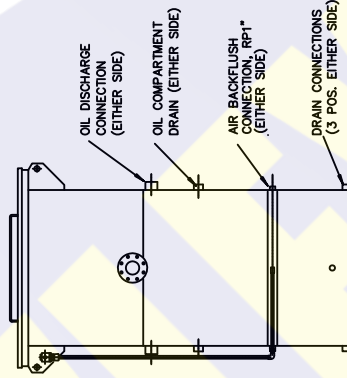
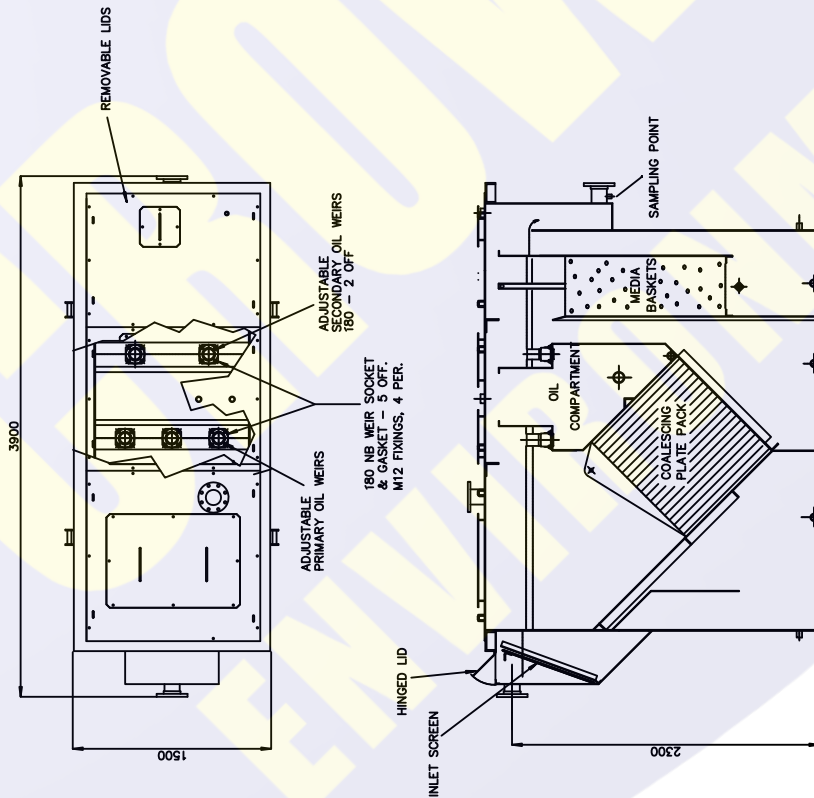
ADNOC



Marasi Abu Dhabi

DATA:
 OWI 25 WEIGHT (STATIC): 2750Kg
 OWI 25 WEIGHT (DYNAMIC): 11000kg
 PLATE PACK REMOVAL:
 HANDLING HEIGHT - 2000 min.
 OIL TANK CAPACITY - 500 LITRES APPROX.

NOTE:
 INTERCEPTOR TO BE MOUNTED ON A FULLY SUPPORTIVE BASE WITH AN INTERMEDIATE LAYER OF BITUMASTIC FELT.



	TWO STAGE TILTED PLATE OILY WATER SEPARATOR MODEL : OWI 25		CAPACITY 25 M3 PER HOUR	DRAWING No. PS1104-01
	DATE 20.7.18	SCALE NTS		ISSUE NTS

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Oily Water Interceptor Two Stage



Crowley Environmental is division of Crowley Engineering, Cork, Ireland making OEM products for the solid waste processing, water, gasification and biogas industries. With nearly a half century of business experience of engineering design and fabrication, Crowley Engineering are your global partner in the processing of municipal solid waste, water treatment and related sectors.

Contact us for expert technical help.



Crowley Environmental

PulpStar MSW Processing Technology

ElectroCoagulation Waste Water Treatment

Oily Water Separators

Close coupled gasifier, 6MW total using 52% moisture feedstock

Gasifier to steam to turbine electrical generation sets

On-farm biogas plants

Biogas Development and Investment

Biogas digestate concentrators and ammonia recovery

In Vessel compost systems

Biological water treatment

Crowley Engineering

Grain Driers

Conveyors & Elevators

Feed mills complete

Agricultural silos & augers

Marine Pontoons

Helicopter escape simulators