STETPACK
OIL INTERCEPTORS

SINGLE STAGE RECTANGULAR UNIT (SS)

stetfield separators

KROFTA

APPLICATIONS

Oily wastes and rainwater run-off streams at power stations, rail yards, maintenance depots, transport depots, industrial sites, waste treatment facilities, oil storage sites and onshore bilge and ballast treatment. In fact, any place where free oil contamination is a problem. The units are often used as pre-treatment to further processes such as dissolved or induced air flotation, electrocoagulation and/or biological treatment and should be selected where especially stringent effluent requirements have been specified, in environmentally sensitive areas or where the risk of oil contamination to further processes would have significant effects.

OPTIONS & ACCESSORIES

The following optional features are available for all separators: clarified water pumping well, extension of free board for below ground installation, handrail, access ladder and flooring, sludge discharge pipes, stiffened base for mounting on bearers in place of standard flat fully supported base and stainless steel or non-metallic materials of construction.

A range of complementary equipment is also available to facilitate installation and operation including: feed pumps, recovered oil pumps, clarified water pumps, oil in water monitor, pack removing frame and control equipment for motors and other ancillary items.

PERFORMANCE

The system is designed to capture 100% of 50 micron oil droplets at SG 0.86 from water of SG 1.0. Typically, effluents are achieved in the range of 10 - 60mg/l.

SPECIAL DESIGNS

Stetfield Separators specialise in the design and manufacture of purpose-built units to suit individual applications as well as providing our full range of standard units. Please contact us to discuss individual applications..

Typical Stetpack SS180 separators with inlet end seen on LH unit and outlet end on RH

RANGE

Stetpack is a range of oil water separation equipment in three standard types:

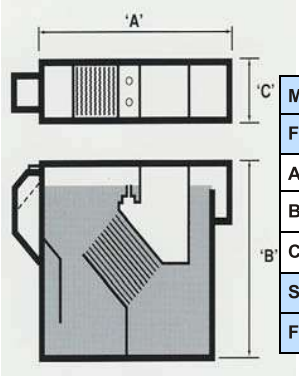
Circular Single-Stage Units

Rectangular Single-Stage Units

Rectangular Two-Stage Units

The equipment utilises a patented corrugated plate arrangement for the first stage. This basic building block can be adapted to a wide variety of mechanical configurations and process designs.

APPROX. DIMENSIONS (mm)



Model No.	SS15	SS30	SS60	SS90	SS120	SS180	SS270	SS360	SS540	SS720	SS900	SS1080
Flow (m^3/h)	4	8	16	24	32	48	72	96	144	192	240	288
A (mm)	2300	2650	2650	3050	4050	4350	4350	4350	4350	4350	4350	4350
B (mm)	1750	2150	2150	2500	3050	3200	3200	3200	3200	3200	3200	3200
C (mm)	570	570	1136	1136	1136	1136	1700	2270	3390	4500	5640	6760
Static wt (kg)	620	870	1190	1920	2800	3350	4950	6490	9000	13000	16000	19300
Full wt (kg)	1985	3045	5540	7810	13000	14950	22340	28950	45000	58000	70000	82500

AT ONE WITH SEPARATION TECHNOLOGY

SOLIDS SETTLING APPLICATIONS

The enhanced sedimentation characteristics utilised in our Stetpack range of oil separators can also be used to improve gravity settling of suspended solids. If necessary, the plates can be arranged in Lamella fashion to provide larger passages for the waste and avoid blockage where large volumes or a lack of mobility of the settled solids occurs.

Units can be provided with multiple stages for the separation of solids in the primary section, followed by further plate or coalescing stages for free and dispersed oils.

If necessary, drag conveyors can be provided beneath the initial stages to remove suspended solids as they are precipitated. Alternatively, sludge draw-off points can be provided for removal by tanker. Provision can be made and plant provided for the addition of chemicals to assist in both solid and oil separation.

Final water weir and oil weirs

LARGE CAPACITY PLANTS

The standard Stetpack range provides capacities up to a nominal 288m³/h. For capacities above this level, the modules can be combined to operate in parallel to achieve capacities greater than 1,000m³/h.

These larger units can be provided as stand alone steel weldments for installation either above ground or for dropping into a prepared foundation and backfilled, as indicated for the smaller units. Alternatively, sets of internals can be provided for building into concrete (RCC) interceptors.

We can supply a full kit of parts for in-ground concrete sumps, i.e. plate packs, weirs, support frames, media baskets, etc. These units can be supplied for flow rates of 1m³/h to >1000m³/h

A stainless steel plate pack for corrosive applications

FEATURES

Fabricated in substantial stainless steel, or mild steel sheet with two-pack epoxy paint finish for corrosion prevention. GRP units available to special order. Certificates of Conformity and Hydraulic tests can be provided, if required.

Stetpacks include a readily accessible inlet coarse screening device, an integral separated oil receiving tank, adjustable oil discharge weirs and a corrugated plate pack, located in a stainless steel case with a lifting bar for ease of removal. Corrugated plates are available in PVC, Polypropylene, GRP or Stainless Steel

Where flooring is provided, access points are available as required and the floor may be fully bolted, sealed and vented for explosion-proof installations. Where loose covers are specified, these are interlocked to prevent rainwater ingress. All handrails and ladders are in accordance with British Standards.

Whilst most units are expected to be installed above ground, the design is suitable for in-ground location. It is suggested that the units be positioned on a dry lean mix base and backfilled with dry lean concrete. To prevent distortion, they should be filled with water

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