DRAINAGE AND INTERCEPTOR MAINTENANCE/OIL STORAGE MAINTENANCE AND COMPLIANCE

Andel Hybrid Hydrocarbon Interceptor / Separators

The last line of defence against a pollution incident



Overview

Organisations with hardstanding areas require effective surface water runoff management. Andel's underground HDPE hydrocarbon separators capture oil, fuel and harmful substances before they enter watercourses via surface drainage systems.

Built to perform, designed to last

The monolithic HDPE body is rotationally moulded as a single, rib-reinforced piece for maximum strength. HDPE provides outstanding corrosion, fuel and mechanical-stress resistance while remaining lightweight. One-piece construction eliminates internal components needing replacement, reducing installation issues and servicing needs.

Dual-stage hybrid filtration

Each separator incorporates a coalescence filter and a secondary module with polypropylene rings, delivering treated water with discharge levels below 0.1 mg/L for strict environmental compliance.

Full retention or bypass

Full retention separators suit higher-risk areas. Bypass (BP10) models manage flow rates up to 10 times normal levels during storm conditions, making them ideal for lower-risk areas or sites with intermittent vehicle use.

How hybrid separation works

Light liquids are separated by flotation and coalescence. A flow device packed with shaped polypropylene rings accelerates flotation, while a special coalescing filter merges fine oil droplets. Together the two stages give the best separation results.

Customisable to fit your site

Models pair with risers and manhole cover options for different installation depths and surface conditions.

After-sales support and maintenance

With over 30 years of experience in separator and drainage system maintenance, Andel provides full aftercare support, including regular inspections in line with Environment Agency PPG3 guidelines. To further reduce risk between inspections, we strongly recommend installing an integrated alarm system.

Typical applications

- Car parks and forecourts
- Retail and commercial centres
- Fuel and oil storage areas
- Distribution centres
- Industrial and manufacturing sites
- Airports, ports and transport depots
- Car wash facilities and service areas

Benefits at a glance

- Dual-stage hybrid filtration for high-efficiency separation
- Constructed from robust, lightweight HDPE
- Corrosion and UV resistant
- Easy to handle, transport and install
- No internal moving parts, minimal maintenance, lower whole-life cost
- One-piece body prevents leakage and on-site installation delays
- Factory-fitted inlet / outlet connections for plug-and-play setup
- Adjustable risers for site-specific height
- Optional built-in alarm system for added safety
- Full retention and bypass models available
- Integrated desilter chamber for enhanced performance
- Discharge below 0.1 mg/L
- 10-year tank warranty
- Fully compliant with UK and EU standards

Designed and tested in accordance with BS EN 858-1 and 858-2 standards for the separation of light liquids from water.

Warranty: 10-year tank warranty

Configurations

HD H-O 3
L 1,530mm × W 1,000mm × H 1,220mm
Full retention. Nominal flow 3 l/s; tank volume 1,550 L; inlet/outlet Ø160mm; inflow height 720mm; outflow height 670mm; desilter chamber 430 L; separation chamber 480 L; light-liquid storage 169 L; max light-liquid layer 0.13 m; weight 126kg; 1 manhole

HD H-O 3 BP10
L 1,530mm × W 1,000mm × H 1,220mm
Bypass. Nominal flow 3/30 l/s; tank volume 1,550 L; inlet/outlet Ø250mm; inflow height 720mm; outflow height 670mm; desilter chamber 430 L; separation chamber 480 L; light-liquid storage 169 L; max light-liquid layer 0.13 m; weight 134kg; 1 manhole

HD H-O 4
L 1,530mm × W 1,000mm × H 1,220mm
Full retention. Nominal flow 4 l/s; tank volume 1,550 L; inlet/outlet Ø160mm; inflow height 770mm; outflow height 700mm; desilter chamber 445 L; separation chamber 500 L; light-liquid storage 169 L; max light-liquid layer 0.13 m; weight 126kg; 1 manhole

HD H-O 4 BP10
L 1,530mm × W 1,000mm × H 1,220mm
Bypass. Nominal flow 4/40 l/s; tank volume 1,550 L; inlet/outlet Ø250mm; inflow height 750mm; outflow height 700mm; desilter chamber 445 L; separation chamber 500 L; light-liquid storage 169 L; max light-liquid layer 0.13 m; weight 134kg; 1 manhole

HD H-O 6
L 1,530mm × W 1,000mm × H 1,590mm
Full retention. Nominal flow 6 l/s; tank volume 2,100 L; inlet/outlet Ø200mm; inflow height 1,080mm; outflow height 1,030mm; desilter chamber 670 L; separation chamber 780 L; light-liquid storage 199 L; max light-liquid layer 0.153 m; weight 157kg; 1 manhole

HD H-O 6 BP10
L 1,530mm × W 1,000mm × H 1,590mm
Bypass. Nominal flow 6/60 l/s; tank volume 2,100 L; inlet/outlet Ø315mm; inflow height 1,080mm; outflow height 1,030mm; desilter chamber 670 L; separation chamber 780 L; light-liquid storage 199 L; max light-liquid layer 0.153 m; weight 183kg; 1 manhole

HD H-O 8
L 2,250mm × W 1,000mm × H 1,600mm
Full retention. Nominal flow 8 l/s; tank volume 3,200 L; inlet/outlet Ø200mm; inflow height 1,030mm; outflow height 980mm; desilter chamber 1,190 L; separation chamber 800 L; light-liquid storage 297 L; max light-liquid layer 0.153 m; weight 217kg; 2 manholes

HD H-O 8 BP10
L 2,250mm × W 1,000mm × H 1,600mm
Bypass. Nominal flow 8/80 l/s; tank volume 3,200 L; inlet/outlet Ø315mm; inflow height 1,030mm; outflow height 980mm; desilter chamber 1,190 L; separation chamber 800 L; light-liquid storage 297 L; max light-liquid layer 0.153 m; weight 238kg; 2 manholes

HD H-O 10
L 2,250mm × W 1,000mm × H 1,600mm
Full retention. Nominal flow 10 l/s; tank volume 3,200 L; inlet/outlet Ø200mm; inflow height 1,100mm; outflow height 980mm; desilter chamber 1,270 L; separation chamber 860 L; light-liquid storage 297 L; max light-liquid layer 0.153 m; weight 217kg; 2 manholes

HD H-O 10 BP10
L 2,250mm × W 1,000mm × H 1,600mm
Bypass. Nominal flow 10/100 l/s; tank volume 3,200 L; inlet/outlet Ø315mm; inflow height 1,100mm; outflow height 1,050mm; desilter chamber 1,270 L; separation chamber 860 L; light-liquid storage 297 L; max light-liquid layer 0.153 m; weight 238kg; 2 manholes

HD H-O 15
L 2,400mm × W 1,200mm × H 1,630mm
Full retention. Nominal flow 15 l/s; tank volume 4,300 L; inlet/outlet Ø200mm; inflow height 1,150mm; outflow height 1,100mm; desilter chamber 1,850 L; separation chamber 1,210 L; light-liquid storage 374 L; max light-liquid layer 0.153 m; weight 246kg; 2 manholes

HD H-O 15 BP10
L 2,400mm × W 1,200mm × H 1,630mm
Bypass. Nominal flow 15/150 l/s; tank volume 4,300 L; inlet/outlet Ø400mm; inflow height 1,150mm; outflow height 1,100mm; desilter chamber 1,850 L; separation chamber 1,210 L; light-liquid storage 374 L; max light-liquid layer 0.153 m; weight 275kg; 2 manholes

HD H-O 20
L 2,400mm × W 1,000mm × H 1,630mm
Full retention. Nominal flow 20 l/s; tank volume 4,300 L; inlet/outlet Ø200mm; inflow height 1,210mm; outflow height 1,160mm; desilter chamber 2,000 L; separation chamber 1,275 L; light-liquid storage 374 L; max light-liquid layer 0.153 m; weight 246kg; 2 manholes

HD H-O 20 BP10
L 2,400mm × W 1,200mm × H 1,630mm
Bypass. Nominal flow 20/200 l/s; tank volume 4,300 L; inlet/outlet Ø400mm; inflow height 1,210mm; outflow height 1,160mm; desilter chamber 2,000 L; separation chamber 1,275 L; light-liquid storage 374 L; max light-liquid layer 0.153 m; weight 275kg; 2 manholes

HD S-O 30
L 3,080mm × W 2,240mm × H 2,450mm
Standard (non-hybrid) separator with desilter chamber. Nominal flow 30 l/s; tank volume 10,000 L; inlet/outlet Ø250mm; inflow height 1,960mm; outflow height 1,910mm; desilter chamber 4,000 L; separation chamber 4,000 L; light-liquid storage 904 L; max light-liquid layer 0.2 m; discharge below 5 mg/L; weight 420kg; 2 manholes

TECHNICAL INFORMATION

PERFORMANCE

Discharge (hybrid models): Below 0.1 mg/L

Discharge (HD S-O 30 standard): Below 5 mg/L

Nominal flow: 3–20 l/s full retention; 3/30–20/200 l/s bypass (BP10); 30 l/s HD S-O 30

Bypass capacity: Up to 10 × nominal flow during storm conditions

Separation: Flotation (polypropylene ring module) and coalescence filter

CONSTRUCTION

Material: Monolithic, rotationally moulded HDPE, rib-reinforced

Manhole: 950 × 750mm

Cover: PKP 950

Features: Integrated desilter chamber, automatic float closure, deflector for flow stabilisation, handles for lifting, factory-fitted inlet / outlet connections

OPTIONS

Extension shaft: NSP 950, for deeper installation

Adaptors: Types A, B and C for round cast iron manholes

Alarms: Overflow, oil-layer thickness and sludge alarms

STANDARDS

Designed and tested in accordance with BS EN 858-1 and BS EN 858-2; Environment Agency PPG3 guidance

Standards & certifications

- BS EN 858-1
- BS EN 858-2