HYDROPROTECTOR

MAINTENANCE MANUAL

MODEL ID

LOCATION

HYD SERIAL ID

PROTECTOR

HYDROPROTECTOR

THE ULTIMATE IN STORMWATER PROTECTION

SAVING NATURE.

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WARNING: this manual applies exclusively to the Hydroprotector unit specified above. Do not use this manual as a guide to operate or maintain any device that is not the specified unit.

For further information visit our website at **protector.com.au** or email **engineering@protector.com.au**

CAUTIONS AND SAFETY INFORMATION

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ALL MAINTENANCE ACTIVITIES ARE TO BE PERFORMED BY QUALIFIED PERSONNEL AND FOLLOW S.W.M.S. DEVELOPED IN ACCORDANCE WITH THIS MANUAL.

- Personnel to follow all Occupational Health and Safety guidelines.
- Before opening manway accesses, personnel to ensure all signage and barriers are erected prior to work.
- All access equipment to be checked prior to use.
- All electrical equipment to be checked prior to use.
- Where applicable, divert foot and vehicle traffic away from works zone.
- Wiring of any equipment should be performed by a qualified electrician.

COALESCER CHAMBER MAINTENANCE

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FIGURE 1: COALESCER CHAMBER

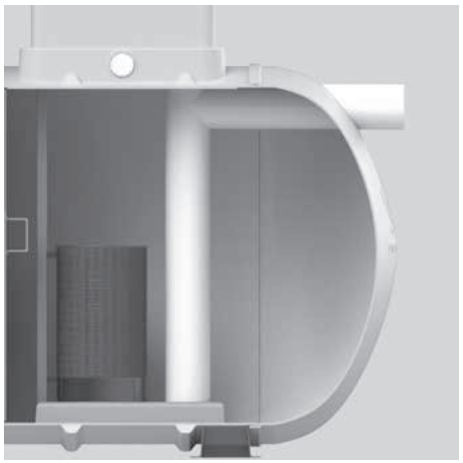

FIGURE 2: COALESCING FILTER

1. Open coalescer manhole access cover
2. Check holding chain is secured to coalescer basket
3. Using chain, carefully draw coalescer basket up the guide rail (can be taken off guiderails if very soiled)
4. Using a hose with normal water pressure, wash the filter foam in the basket.
5. Hose contaminated cleaning water back into unit. Continue hosing coalescer media until the water runs clear. If the media is heavily contaminated with oil and silt it may not be possible to clean effectively by hosing and coalescer should be replaced.
6. Lower coalescer down rail until it stops at base of unit
7. Close and bolt down coalescer manhole cover

REPLACEMENT COALESCER

A new coalescing filter will be required at least every 5 years of service. If there is significant soiling of coalescing foam due to a fuel spillage, seek a replacement immediately.

THE PERFORATIONS AND DESIGNS OF THE FOAM ARE SPECIFIC TO PROTECTOR SYSTEMS AND ARE INTEGRAL TO CLASS 1 OPERATION. ONLY PURCHASE GENUINE PROTECTOR PARTS.

Contact technician@protector.com.au or call 1300 585 787 to organise a replacement.

1. Remove existing filter foam from stainless steel basket. Wear appropriate PPE to prevent contaminants from making contact with skin.
2. Insert new filter foam. Continue maintenance as above.

MAINTAINING YOUR DUAL CHAMBER HYDROPROTECTOR

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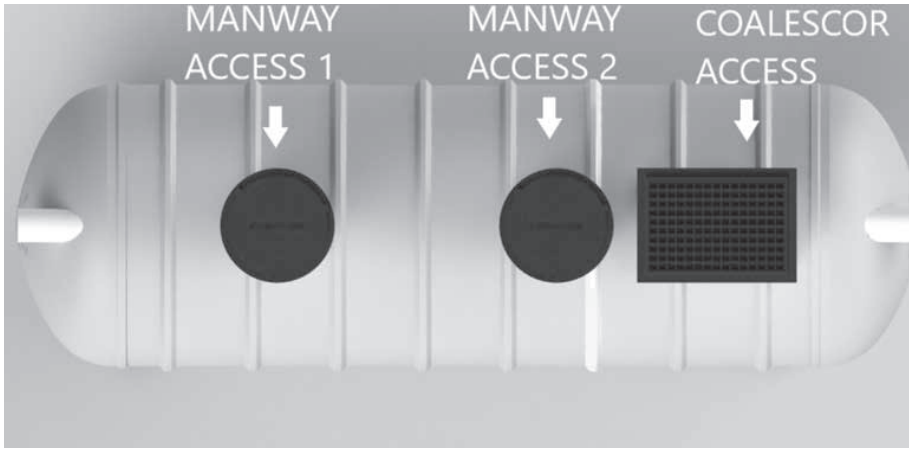
FIGURE 1: COALESCER CHAMBER



The Hydroprotector is a full retention gravity operated Class 1 Oil Water Separator.

Maintenance of your system is simple and fast. Understanding its design will assist you in caring for it and ensuring a long and effective design life.

- All supplied Hydroprotector's are issued with this maintenance manual with a site designed maintenance schedule on pages 6 and 7.
- All Hydroprotector units are supplied with an idOil-20 alarm system, it will automatically detect when there is a spill captured or if maintenance is required.

A routine maintenance check of the Hydroprotector is advised every 6 months or when alerted from the idOil-20 alarm monitoring system.

RETENTION CHAMBER MAINTENANCE

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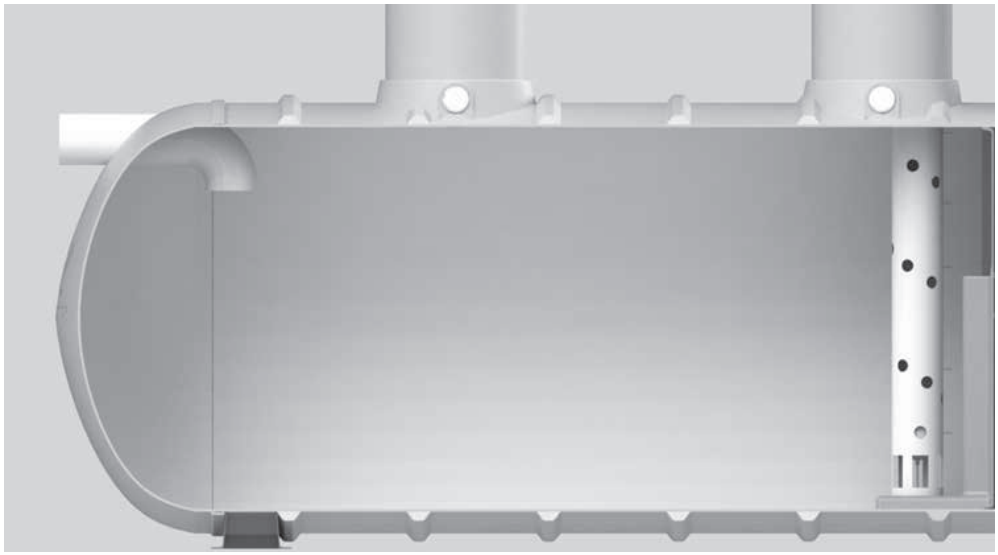
FIGURE 4: RETENTION CHAMBER



1. Open manway access one to retention chamber
2. Position sucker truck line vertically down from to surface level of oily water.
3. Vacuum skim oil in chamber and lower to check if there is sludge requiring removal at the base.
4. The oil probe is mounted in a protective tube under manway access one. Carefully remove the probe by drawing the line out of the protective tube. The drawing up of the probe should be easy. Do not apply unnecessary force to the line or the probe.
5. When drawing the line up, wipe the probe clean. Once dry the probe should set off the alarm.
6. If the probe does not operate as intended:
    - Refer to the Labkotec idOil-20 manual
    - Contact Protector for assistance.
7. Carefully reinsert clean probe directly into protective tube. Check top of probe is 50mm below the surface level when unit is full. (Unit may need some top up water as required.)
8. Close and seal manway access one.
9. Open manway access two to visually inspect the Auto Closure Device (ACD).

RETENTION CHAMBER MAINTENANCE

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FIGURE 5: AUTO CLOSURE DEVICE TUBE

FIGURE 6: ACD FLOAT IN TUBE

10. ACD Tube should be clear of any obstructions and floating at the surface of the water. In the rare event these conditions are not met, vacuum down the ACD tube and remove any obstructions. The ACD will be drawn onto the end of the suction hose. After releasing the suction, place ACD back into tube and check operation (it floats)

11. Upon completion of retention chamber maintenance, close and bolt down number one and two manhole access covers.

DESIGNED MAINTENANCE SCHEDULE

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Keep an accurate record of your Hydroprotector's service history.

NOTE: IF THE IDOIL-20 ALARM ALERTS BEFORE THE ANTICIPATED SCHEDULE, PLEASE ORGANISE A MAINTENANCE INSPECTION TO BE COMPLETED AS SOON AS POSSIBLE.

DATE OF INSTALLATION:

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MAINTENANCE SCHEDULE:

DATE OF SERVICE	PERSON (S) RESPONSIBLE	CHAMBER 1	CHAMBER 2	NOTES

If your Hydroprotector unit is frequently alarming before scheduled maintenance dates, increase frequency of maintenance accordingly. This is usually only required for unsealed sites with high silt loads.

For any questions, please contact technician@protector.com.au or call 1300 585 787.

IDENTIFICATION PLATE

An identification plate is embedded to the utmost part of the primary chamber riser with the aim to ease the service personal to find the following details,

Model:	Inlet / Outlet size:
Serial Number / Job No:	Installation cover:
Manufacture date:	Separator class:
Design flow rate: L/s	Design standard:
Max. operating flow: L/s	Temperature range:
Material of construction:	Flow direction:
Empty weight: Kgs	
Full operating weight: Kgs	

Identification plate is embedded to the topmost part of the riser.

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PROTECTOR

This information is correct at the time of publishing 21/08/2023 but the manufacturer reserves the right to carry out modification aimed at product improvement without notice. ® Protector Australia 2023.