

Approval certificate

Trade waste pre-treatment product



Applicant: Aline Group Australasia Pty Ltd
Postal address: PO Box 694 Engadine NSW 2233

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Manufacturer: Aline Group Australasia Pty Ltd
Address: PO Box 694 Engadine NSW 2233

Product description

The coalescing plate separator (CPS) units provided by Aline Pumps is a gravity separator capable of removing oils and/or solids found in the waste water run-off from vehicle workshops, service stations, tank farms and wash bays.

The CPS units are designed with vertically arranged coalescing plates. Flow is directed from the inlet port through the vertically oriented plates where solids are separated under gravity for collection in the hopper below. Oil slugs rise immediately to the surface. A baffle or oil dam prevents the collected oil from entering the outlet weir.

The Kwikflo KCPS-1000 Coalescing Plate Separator is suitable for both free-standing and wall-mounted installations. The Kwikflo KCPS-1500 and KCPS-2000/3000 Coalescing Plate Separator is suitable for free-standing installations only.

The tank is manufactured from moulded polyethylene which is UV stable and lightweight. The body weights range from approximately 25 kg to 80 kg.

Nominal flow rates vary from 1000 to 3000 L/h depending on the model.

The approval certificate applies to the pre-treatment products of the following sizes:

| Approval Number | Model | Vertical Plate Pack | | | Max Flow Rate ³ | Pump Type (Diaphragm) | Inlet Diameter ¹ | Outlet Diameter ¹ | |
|-----------------|-----------|----------------------------------|----------------------------|-------------------|----------------------------|-----------------------|-----------------------------|------------------------------|-------|
| | | Packing Arrangement ¹ | Plate Spacing ¹ | Area ² | | | | Oil | Water |
| | | | | | | | | | |
| AN-059-01 | KCPS-1000 | 1 pack x (305x305x600) | 14 | 7 | 1000 | (various) | 32 | 50 | 50 |
| AN-059-02 | KCPS-1500 | 1 pack x (585x305x600) | 14 | 11 | 1500 | (various) | 32 | 50 | 50 |
| AN-059-03 | KCPS-2000 | 2 packs x (305x305x600) | 14 | 14 | 2000 | (various) | 50 | 50 | 50 |
| AN-059-04 | KCPS-3000 | 3 packs x (305x305x600) | 14 | 21 | 3000 | (various) | 50 | 50 | 50 |

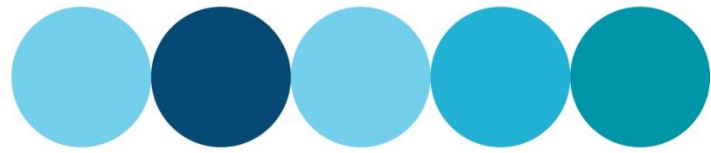
1 – millimetres; 2 – square meters; 3 – litres per hour

Special conditions of approval

1. The product shall be *supplied* with manufacturer's installation instructions and recommended procedures for operation and maintenance.
2. The product shall be *installed* strictly in accordance with the manufacturer's written instructions and the *Plumbing Standards*, with particular emphasis on the following:
 - a. Oil water separators must be installed in a bunded area and connected back to the pump pit.
 - b. A Trade Waste Sampling Point (TWSP) must be installed according to the Corporation's typical drawings.
 - c. The outlet pipe must be plumbed via a tundish that is separate and upstream to the TWSP.
3. This approval certificate is not a stand-alone document and **must be read** in conjunction with the following Water Corporation *Typical Drawings for Trade Waste*:
 - a. [Coalescing Plate Separator \(HX33-12-10\)](#)
 - b. [Trade Waste Sampling Point \(HX33-11-30\)](#)
4. A maintenance contract is to be in place to ensure the ongoing reliability of the product.
5. Water Corporation must be notified within fourteen (14) days upon installation of the product
6. The use of emulsifying agents upstream of the product must not occur. Such instructions must be noted on operating documentation.
7. The product chosen must be suitably sized to avoid surge conditions.
8. Clear access for the purposes of maintenance or servicing of the pre-treatment device must be maintained at all times.
9. This approval certificate is not an endorsement of the product by Water Corporation, and no claim shall be made in advertising, promotion or other manner to the effect.
10. Water Corporation accepts no responsibility for the effective operation, performance or efficiency of the product. This approval is not an engineering approval or structural endorsement.

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Special conditions of approval (continued)

11. The proponent of the approved product must formally seek a request for re-approval of the product no later than three (3) months before the assigned **Validity Period** has expired from the **Date Issued** of this approval certificate.
12. Water Corporation reserves the right to vary any requirements at any time. Any application of this condition normally occurs after consultation with the manufacturer, supplier and end business user connected to Water Corporation's sewer.
13. Water Corporation shall be notified in writing if the pre-treatment device is withdrawn from sale.
14. The proponent of the approved product accepts that the information provided in this document shall be made publically available.

General conditions of approval

Approval shall be **suspended** where any of the following conditions are not met:

1. If there is a breach of the Special Conditions.
2. The assigned **Validity Period** has expired from the **Date Issued** of this approval certificate.
3. The product shall be manufactured in accordance with Water Corporation's requirements at the time of approval.
4. The product shall be manufactured to comply according to the details noted in the *Aline Pumps KWIKFLOW Oil Water Separators – Installation, Operation & Maintenance (date received 26 Feb 2021)* in addition to any further details provided by the proponent when seeking this approval.
5. The product supplied for use in Water Corporation's area of operations shall comply with the requirements shown on this approval certificate. Sizes, classes, lengths or other product variables which are available with the product but which are not approved as listed on this approval certificate shall not be offered by the supplier for use in Water Corporation's area of operations.
6. All discharges to sewer associated with this product must not exceed Water Corporation's *Trade Waste Acceptance Criteria*.
7. Prior to any business (which is connected to Water Corporation's sewer) installing this product the business must apply to Water Corporation for a *Trade Waste Permit* for approval to discharge.
8. If this certificate has been issued to the manufacturer of this product then it is the responsibility of the manufacturer to ensure all current and future suppliers / vendors of this product are provided a copy of this approval certificate.

Approval shall be **reviewed** where any of the following conditions occur:

1. The product is manufactured with either different materials, methods of manufacture, location of manufacture, source of raw materials, component subcontractors or models to that at the time of approval.
2. The ownership of the primary manufacturer or any subcontractors is varied from that at time of approval.
3. The standards and/or specifications to which the product was required to comply with at the time of approval have been amended or revised. It is the responsibility of the proponent to immediately advise Water Corporation of any changes to the proponent's drawings and installation, operation and maintenance manuals made at the time of approval.
4. The product has been found to sustain damage or provide unsatisfactory performance on occasions of number considered excessive by Water Corporation, when handled, stored, assembled or installed in accordance with the supplier's or manufacturer's written instructions.

Approved drawing(s): As per details noted on the following drawings:

- (i) TA for outdoors or well ventilated areas (L00043, Rev A, Dated 24/11/2020)
- (ii) TA for explosion proof installation (L00044, Rev A, Dated 09/02/2021)
- (iii) TA for sewer installation (L00045, Rev A, Dated 09/02/2021)
- (iv) Model KCPS-1000 (Drawing 640048, Rev A, Dated 15/07/2015)
- (v) Model KCPS-1000WM (Drawing 640031, Rev A, Dated 03/08/2015)
- (vi) Model KCPS-1500 (Drawing 640204, Rev A, Dated 29/07/2015)
- (vii) Model KCPS-2000 3000 (Drawing 640102 & 640126, Rev A, Dated 29/07/2015)

Authorising person: Stephen Jerkovic (Team Leader – Investigations)

Date issued 26 February 2021

Validity period: Five (5) years