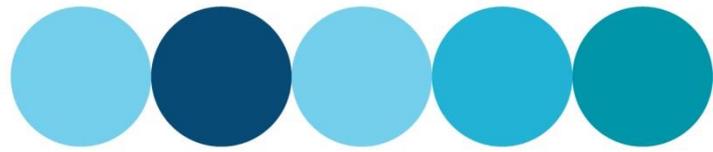


Approval certificate

Trade waste pre-treatment product



Applicant: Bulbeck Enviro
Postal address: 4 Channel Road, Mayfield West, NSW, 2304
Manufacturer: Bulbeck Enviro
Address: 4 Channel Road, Mayfield West, NSW, 2304

Attention: Willem Abrie
Web: bulbeckenviro.com.au
Email: willema@bulbeckenviro.com.au

Product description

The CleanaWater TS series of stainless steel and polyethylene oil water separators are classified as coalescing type separators, where oil droplets in suspension within the moving water stream are removed by the coalescing process through the separating media.

The CleanaWater oil water separators utilise a random packed separating media technology with a two stage separation process.

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

Approval Number	Model	Materials of Construction			Pump Type	Max Flow Rate (L/h)	Nominal Flow Rate (L/h)	Unit Water Capacity (L)	In / Out Diameter (mm)
		Shell & Cover	1 st Stage Separation	2 nd Stage Separation					
AN-020-01	TS 1000	304 SS	PP Media	PP Media	ASM DS25	1,000	1,000	327	40 / 50
AN-020-02	TS 1500	304 SS	PP Media	PP Media	ASM DS25	1,500	1,500	327	40 / 50
AN-020-03	TS 2000	304 SS	PP Media	PP Media	ASM DS32	2,000	2,000	327	40 / 50
AN-020-06	TS 2500	304 SS	PP Media	PP Media	ASM DS38	2,500	2,500	327	40 / 50
AN-020-04	TS 3000	304 SS	PP Media	PP Media	ASM DS38	3,000	3,000	654	40 / 50
AN-020-05	TS 4000	304 SS	PP Media	PP Media	ASM DS50	4,000	4,000	654	40 / 50
AN-020-07	TS 5000	304 SS	PP Media	PP Media	ASM DS50	5,000	5,000	654	40 / 50
AN-020-08	TS 1000 PE	PE	PP Media	PP Media	ASM DS25	1,000	1,000	319	40 / 50
AN-020-09	TS 1500 PE	PE	PP Media	PP Media	ASM DS25	1,500	1,500	319	40 / 50
AN-020-10	TS 2000 PE	PE	PP Media	PP Media	ASM DS32	2,000	2,000	319	40 / 50
AN-020-11	TS 2500 PE	PE	PP Media	PP Media	ASM DS38	2,500	2,500	319	40 / 50

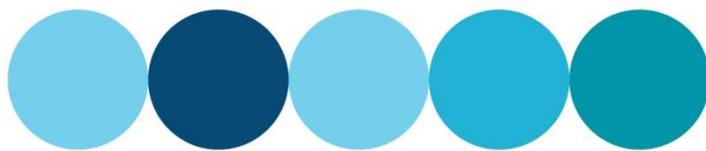
SS: Stainless steel; PP: Polypropylene; PE: Polyethylene

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 Water Corporation's *Typical Drawings for Trade Waste – Coalescing Plate Separator (HX33-12-10)*.
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.

Approval certificate

Trade waste pre-treatment product



Special conditions of approval (continued)

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.
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 documents referenced below, 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): TS1000 SS Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS1500 SS Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS2000 SS Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS2500 SS Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS3000 SS Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS4000 SS Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS5000 SS Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS1000 PE Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS1500 PE Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS2000 PE Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
TS2500 PE Installation, Operation and Maintenance Manual (Rev 2, dated 15/03/2018)
Oil Water Separator Specification Details TSSS-DAT-001 (Rev 0, dated 21/02-2020)
PE Oil Water Separator Specification Details TSPE-DAT-001 (Rev 0, dated 21/02-2020)

Authorising person: Stephen Jerkovic (Team Leader – Investigations)

Date issued 05 June 2020

Validity period: Five (5) years