

Approval Certificate

Trade waste pre-treatment product

Applicant: MA Griffith Pty Ltd
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Manufacturer: Thermaco Inc
Address: 646 Greensboro Street, Asheboro NORTH CAROLINA 27203 USA

Product/Device Description

The Big Dipper active grease separator is designed to trap and remove grease, fat and oil.

The product design utilises an internal strainer basket to capture incidental solids in kitchen waste water flows. A skimming wheel system inside the unit skims the grease and oils out of the retention area when activated by a programmable timer. Removed oil and grease is collected in a collection tank, which is located at the side of the unit. The product range, which is the subject of this product approval, can treat waste water flows from 70 L per minute to 189 L per minute.

The device range is manufactured from 304 stainless steel and rotationally moulded polyethylene. Nominal flow rates vary from 1.16 to 3.15 L/s depending on the model. All models have a maximum skimming capacity of 9.08 kg/hr of grease/fat/oil. Fitted basket strainers have a capacity of 7 – 9.5 L (depending on the model).

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

Approval Number	Model	Material of Construction		Max Flow Rate (L/s)	Number of Skimming Wheels	Grease Retention Capacity (kg)	Skimming Rate (kg/h)	Internal Solids Strainer Capacity (L)	Required Clearance for Maintenance (mm)
		Exterior	Interior						
AN-012-02	W200 IS	304 SS ¹	RMPE ²	1.16	1	18.14	9.08	7	356
AN-012-03	W250 IS	304 SS ¹	RMPE ²	1.50	1	22.7	9.08	7	356
AN-012-04	W350 IS	304 SS ¹	RMPE ²	2.21	1	31.8	9.08	9.5	356
AN-012-05	W500 IS	304 SS ¹	RMPE ²	3.15	1	45.4	9.08	9.5	356

KEY - 1: 304 SS = 304 Stainless Steel 2: RMPE = Rotationally Moulded Polyethylene

Special Conditions of Approval

1. **Connection of the product must be upstream of an appropriately sized Water Corporation approved grease arrestor.**
2. The product shall be *supplied* with manufacturer's installation instructions and recommended procedures for operation and maintenance.
3. The product shall be *installed* strictly in accordance with the manufacturer's written instructions and performed by a licensed plumber. **The product cannot be used downstream of glass washers or dish washers.**
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 product must be maintained at all times, as per supplied dimensions for all models W200 IS through to W500 IS.
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.
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.



Special Conditions of Approval (continued)

13. Water Corporation shall be notified in writing if the product 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. The assigned **Validity Period** has expired from the **Date Issued** of this acceptance certificate.
2. The product shall be manufactured in accordance with Water Corporation's requirements at the time of approval.
3. The product shall be manufactured to comply according to the details noted in **WSAA Product Appraisal Report** TWA 0802.1 (11th June 2011) in addition to any further details provided by the proponent when seeking this approval.
4. 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.
5. All discharges to sewer associated with this product must not exceed the Water Corporation's *Trade Waste Acceptance Criteria*.
6. 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.
7. 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.
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 drawings noted on Appendix B of WSAA product appraisal report TWA 0802.1 (published 11 June 2011).
Authorising person:	Stephen Jerkovic (Supervisor Investigations)
Date issued	18 January 2016
Validity period:	Five (5) years