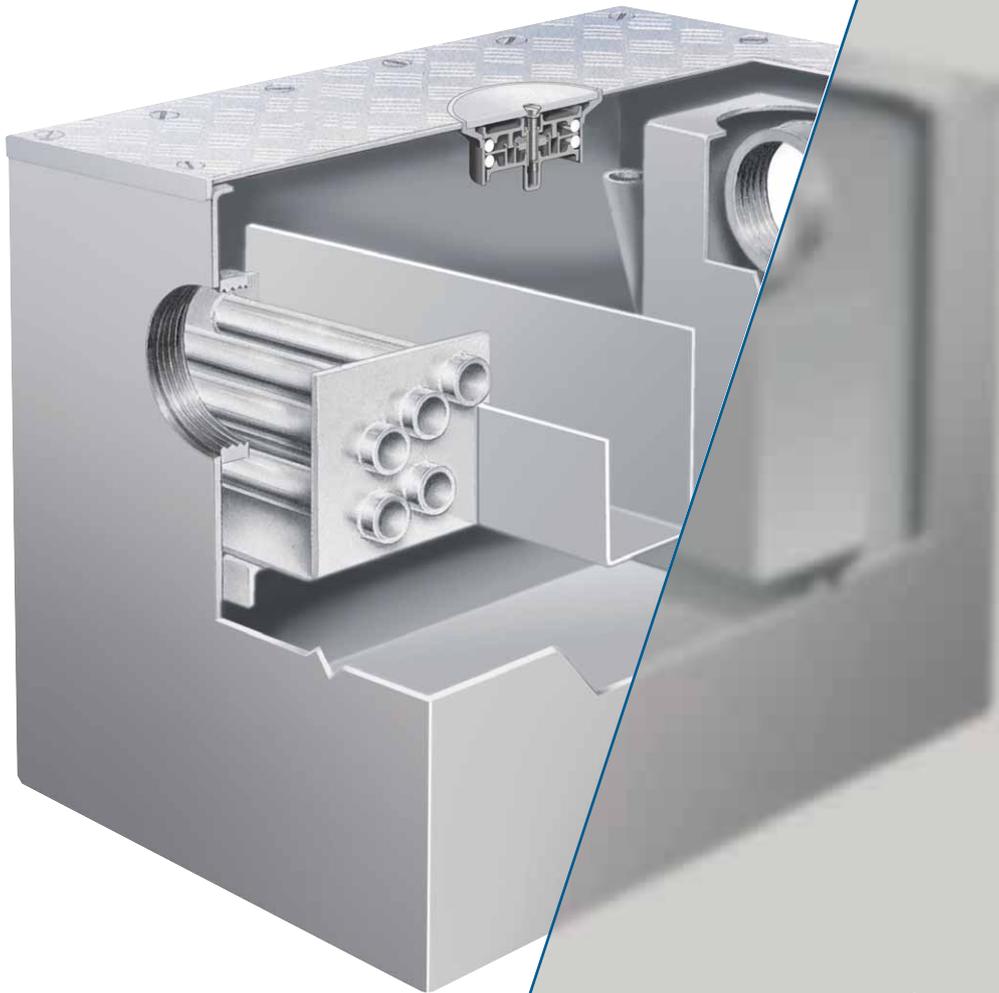


# WADE GREASE CONVERTERS



How to deal with  
grease & sediment



A UK company with more than fifty years' experience in the industry, Wade is established as a leading manufacturer of quality drainage products.

Much of the success of the Company is attributable to an ongoing commitment to put technology to practical use, to generate fresh ideas, and to guarantee quality assured production.

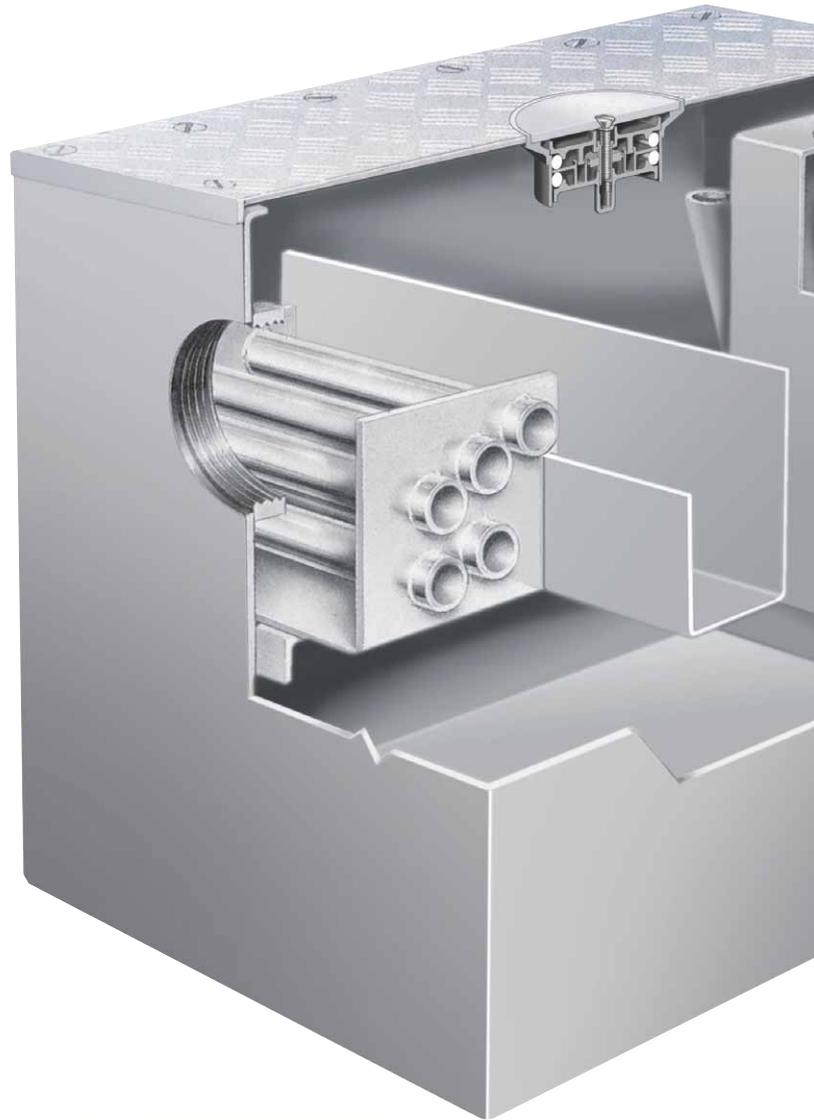
Meeting demands of water and municipal authorities, environmentalists, employers and employees, Wade provides effective and easy to use means of dealing with grease and sediment with a range of stainless steel grease converters and sediment interceptors.

## Actimatic Grease Converter

### **Why use a Wade Actimatic Grease Converter?**

Grease flushed down the drain can cause blockages and unpleasant smells in work areas. Blockages can lead to overflows and health hazards, whilst drain clearing is an inconvenient and costly operation.

A Wade Actimatic Grease Converter eliminates such problems and is a **Natural** means of **Permanently** converting grease to bio-degradable products.



*'Use of an Actimatic Grease Converter is far more acceptable than chemicals or detergents which merely move grease downstream to become a problem for someone else.'*



*'Degradation is a natural, slow process. Wade Actimatic uses only natural organisms to accelerate this process.'*

**Some typical locations where Wade Grease Converters are installed.**

**How does it work?**

The Actimatic Grease Converter works in two stages:

1. **Separation**  
 – effluent entering the converter passes over a hydrafilter baffle\* which causes grease to form in globules which float to the surface.
2. **Digestion**  
 – achieved by Wade Actimatic, which produces a colony of micro-organisms to degrade wastes and convert to water soluble, environmentally friendly products.

**Quality assurance**

Certification of compliance with BS EN ISO 9001:2015 underlines our commitment to quality and service.

\*Patent No. 13287055



Oil Rig, North Sea



Asda Store, Runcorn

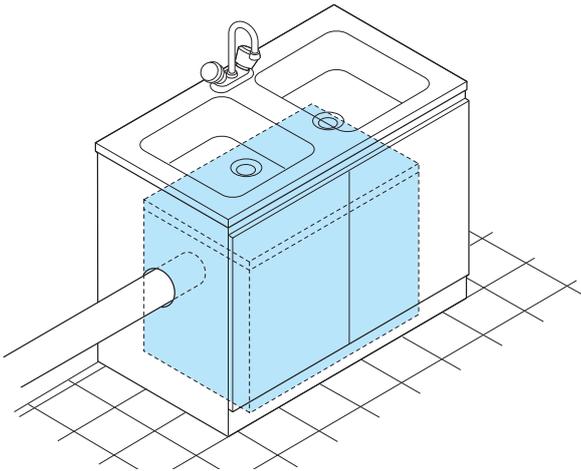


A McDonalds Restaurant

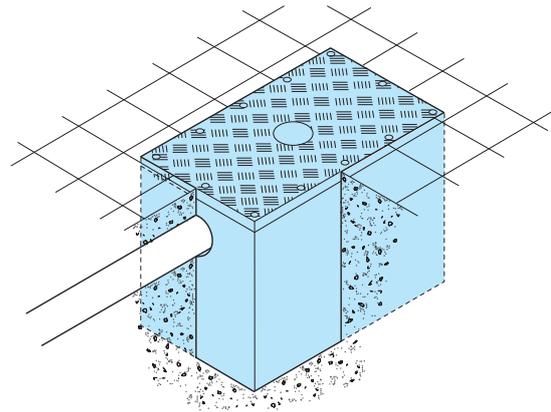


Stock Exchange, London

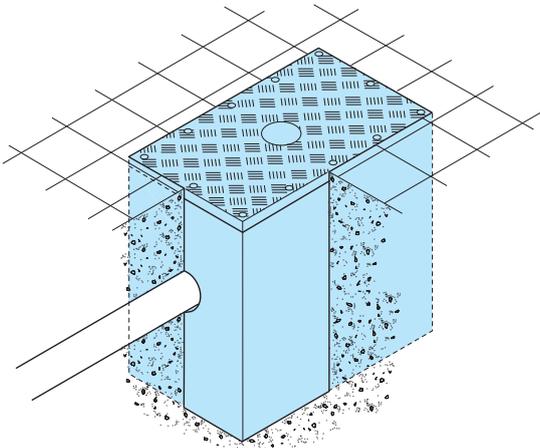
## Types of installation



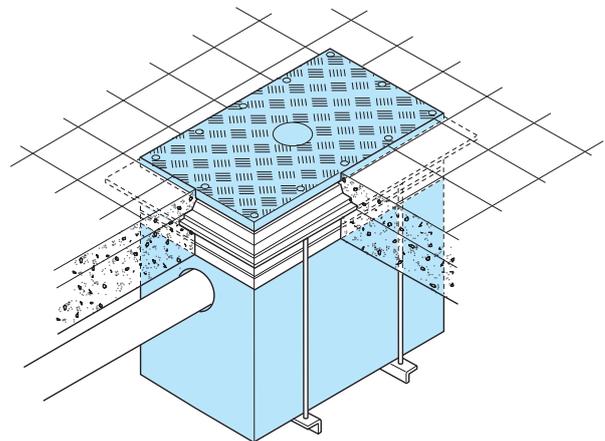
**Floor standing**  
(Standard and low profile models)



**Fully recessed in ground floor**  
(Standard invert models)



**Fully recessed in ground floor**  
(Deep invert model)



**Fully recessed in intermediate floor**  
(Hanger type)

## Installation guidelines

Wade Actimatic Grease Converters are designed to be installed in existing or new kitchens, at restaurants, canteens, hotels, hospitals, etc., and also at commercial or industrial premises where food is cooked, prepared or processed. They are not suitable for use with dedicated chicken rotisserie ovens unless special housekeeping measures are taken, including the introduction of water.

There is no optimum distance between the last fixture and the converter; it is generally accepted that pipework longer than 8 metres may allow grease to solidify before it reaches the converter.

It is not recommended that waste disposal units discharge into a Grease Converter, because frequent cleaning out will be necessary.

Waste from vegetable peelers must be filtered before discharging.

Certain cleaning agents (Chlorine, strong caustics, bleach etc.) in concentrated form, have a detrimental effect, and should not be discharged into a Grease Converter.

Only wastewater containing kitchen fat, oil or grease should drain into the grease converter, per the sizing chart opposite. Under no circumstances should sewage, rainwater or wastewater containing mineral oils discharge into the converter, as these will dilute and disrupt Wade Actimatic's ability to digest grease, may cause the converter to silt up, or could wash grease through before it has time to separate.

Installations may require prior approval from the Local Authority Environmental Health Department.

Wade Actimatic Grease Converters satisfy current Building Regulations / Standards in the U.K., and meet requirements of drainage systems designed in accordance with BS EN 12056-1:2000.

Spigot adaptors for connecting to different types and sizes of pipework are shown on page 6. These should be sealed with a suitable compound.

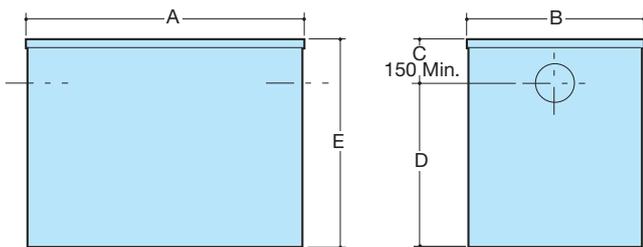
**Note:** Do not reduce the stated inlet or outlet size otherwise blockages could occur.

## How to select and size Grease Converters

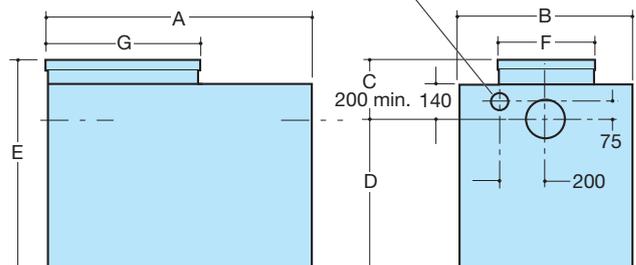
To determine the optimum size of converter to be used, account must be taken of the volume of fixtures discharging into the converter. Use the table below to calculate total volume by entering the quantity of each fixture, multiply by the volume shown and enter as Total Vol.; finally, add up your answers.

Type of fixture	Approx. size (mm)	Approx. vol. (litres)	Quantity	Total vol. (litres)
Handwash sink	300 dia. x 180 deep	12		
Domestic single sink	450 x 350 x 200	32		
Domestic double sink	(450 x 350 x 200) x 2	64		
Commercial sink	600 x 450 x 300	81		
Double commercial sink	(600 x 450 x 300) x 2	162		
Commercial potwash sink	760 x 500 x 380	144		
Tilting kettle		150		
Small dishwasher	Outlet pipe 32 dia.	185		
Medium dishwasher	Outlet pipe 40 dia.	235		
Large dishwasher	Outlet pipe 50 dia.	350		
Other fixtures				
<b>Total volume of fixtures (litres)</b>				

### 6000 Series



### 6200 Series



After selecting the appropriate TYPE of INSTALLATION, and calculating the TOTAL VOLUME of FIXTURES, select the 'Spec.Code' from the table below and add the required 'C' dimension to nearest 10mm. e.g. for Converter to serve fixtures with a total volume of 325 litres and having a 'C' dimension of 400mm, Specify: 6060XT 'C' = 400mm.

For details of materials (grade 316 optional), accessories and alternative covers, refer to page 6.

Type of installation	Max. total vol. of fixtures in litres	Spec. code	In/Outlet BSP inches	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Req. slab opening	Load class	Operational weight (kg)
Floor standing Low profile	<ul style="list-style-type: none"> <li>160</li> <li>160</li> <li>290</li> <li>290</li> </ul>	6020LR	4	775	482	150	180	330	•	•	•	A15	120
		6022LR	2	775	482	150	180	330	•	•	•	A15	120
		6032LR	2	988	669	150	180	330	•	•	•	A15	195
		6035LR	4	988	669	150	180	330	•	•	•	A15	195
Floor standing Standard invert	<ul style="list-style-type: none"> <li>210</li> <li>410</li> <li>625</li> </ul>	6030	4	594	382	150	368	518	•	•	•	A15	135
		6060	4	775	482	150	432	582	•	•	•	A15	230
		6080	4	988	669	150	419	569	•	•	•	A15	375
Fully recessed ground floor Deep invert	<ul style="list-style-type: none"> <li>210</li> <li>410</li> <li>625</li> </ul>	6030XT	4	594	382	To be specified on order	368	•	•	•	•	A15	135*
		6060XT	4	775	482		432	•	•	•	•	A15	235*
		6080XT	4	988	669		419	•	•	•	•	A15	380*
Fully recessed ground floor	<ul style="list-style-type: none"> <li>1230</li> <li>2100</li> </ul>	6215	6	1489	953	To be specified on order	732	•	482	775	•	D400	1310*
		6225	6	1869	1142		940	•	482	775	•	D400	2500*
Fully recessed intermediate floor Hanger type	<ul style="list-style-type: none"> <li>210</li> <li>410</li> <li>625</li> </ul>	6030H	4	594	382	To be specified on order	368	•	•	•	625 x 445	A15	165*
		6060H	4	775	482		432	•	•	•	805 x 545	A15	270*
		6080H	4	988	669		419	•	•	•	1020 x 730	A15	420*

For the hanger types listed, the dimension from finished floor level to the underside of the hanger frame (normally slab level) is adjustable on site from 35mm minimum to 75mm maximum. \*Indicated weights are based on 'C' = 200mm.

N.B. In practice fixtures do not all discharge at the full rate simultaneously. This has been allowed for and the table enables the correct grease converter to be selected. In abnormally high or 'dump' situations contact our Technical Services Department.

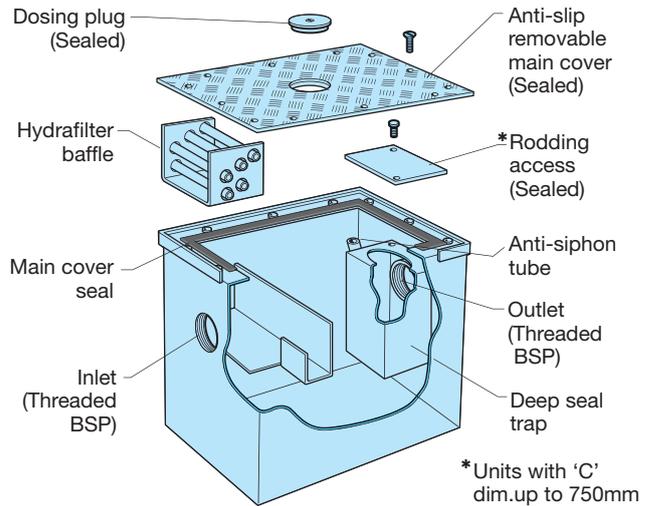
**Materials**

Seal – expanded closed cell neoprene.

Other parts – stainless steel grade 304.

For grade 316 stainless steel, add suffix ‘M’ to Spec. Code; a plain cover is supplied with grade 316 versions, if anti-slip cover is required add suffix ‘MAS’ (anti-slip cover is grade 304).

**Note:** 6200 series models have covers with no dosing plug or rodding access.



**Accessories**

**Covers are treadplate (anti-slip) stainless steel grade 304**

**Covers** – For alternative covers, add suffix to Spec.Code as follows:

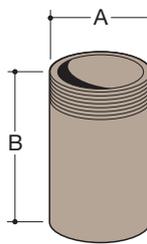
Heavy Duty (class D400) – ‘**HD**’

Recessed (min.‘C’ dimension = 170) – ‘**REC**’

For use with sheet floor covering

(min.‘C’ dimension = 180) – ‘**SVF**’

**Threaded pipework adaptors – to connect converter to pipework**



Spec. code	Pipework	A	B
T101	BS 416 / BS EN 877	60	90
T103	BS 416 / BS EN 877	100	90
T104	BS 416 / BS EN 877	150	90
T105	BS 437	100	90
T106	BS 437	150	90
T1702	Plastic	54	60
T1704	Plastic	110	126
T303	Plastic	160	166
T401	} Clay (Densleve)	100	170
T402		150	105
T501	} Clay (Supersleve)	100	130
T502		150	130

**Maintenance**

**Commissioning period maintenance**

During the first few weeks of dosing operation, regular inspection of the internal condition of the Converter should be made to gauge the performance of the dosage amount. If a thickening of the contents is noted, with a distinct caking effect across the surface, or an offensive, pungent odour is emitted, then gradually increase the suggested dosage rate to compensate. If the contents appear to remain in a minimal semi-liquid state with little or no odour, this indicates successful degradation of the grease.

**Routine maintenance**

Operation	Frequency
Remove main cover Remove and clean Hydrafilter baffle Check contents for caking Check for sediment build-up. If build-up has occurred tank should be cleaned	Quarterly
Remove main cover Remove and clean Hydrafilter baffle Clean out tank completely Check joints and seal	Annually

Whenever tank is cleaned out the Initial Dosing procedure must be repeated. Sediment build-up can be reduced if strainers are fitted to sinks to prevent solids entering the Converter.

**Grease Converter performance**

The Converter is working if there is:

- (a) Consistency similar to thick soup.
- (b) Little or no odour.
- (c) No dry deposit building up on its sides.
- (d) No caked deposit floating on surface.
- (e) No grease build-up in downstream drain line.

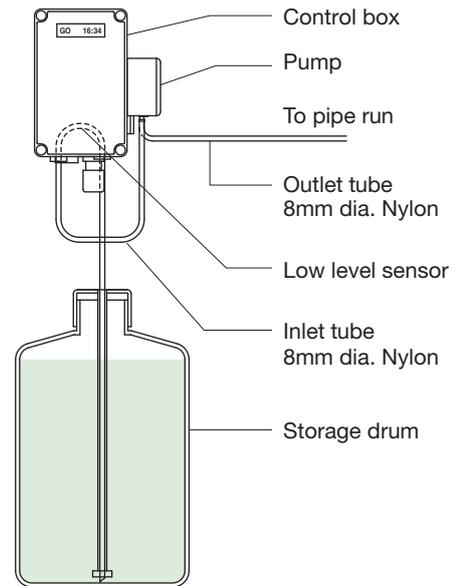
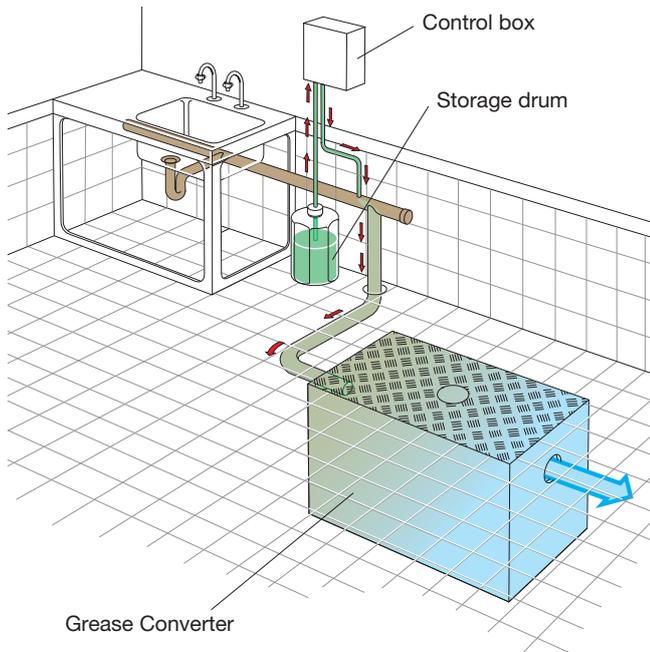
**For best performance**

1. Follow the Initial and Daily Dosing Procedures.
2. Do not discharge very hot water into the Converter immediately before or immediately after dosing.
3. Do not discharge chlorine, strong caustics, concentrated disinfectants, bleach or sanitisers into the Converter.
4. Do not deliberately discharge cooking oil or grease into the Converter.
5. Remember that food scraps and solid particles will settle on the bottom of the Converter and will need to be removed periodically. Do not discharge waste disposal units into the Converter.
6. Follow maintenance procedures.
7. Contact Wade Technical Services Department if you need advice; a free call out service is provided in mainland UK for regular users of Actimatic.

## Automatic dosing system

A mains powered dispenser unit is available for use with Actimatic Liquid. The unit automatically doses the Converter with diluted Actimatic Liquid once daily at a time selected by the user.

The system, once set, requires only monthly attention to replenish the liquid supply, and is suitable for use in most new and existing drainage systems. A warning light and an audible alarm indicates low level of liquid.



### Start-up operation

1. Read Health and Safety notes printed on the 1 litre jerrycan containing Actimatic Liquid.
2. Fill storage drum with water to level indicated on drum label.
3. Add 1 litre of Actimatic Liquid. Larger grease converters require an additional amount – refer to drum label.
4. Replace cap on drum and ensure that tube reaches the bottom of the drum.

### Construction

**Control box enclosure** – suitable for wall mounting; made of flame retardant polystyrene with removable cover, sealed to IP56. Size 180mm x 110mm x 90mm deep.

**Fixings** – stainless steel grade 304 minimum.

**Pump** – peristaltic type delivering 110 ml of liquid per minute.

**Storage Drum** – 10 ltr. capacity made of high density polythene; with screw cap and carrying handle; octagonal, 229mm across corners x 381mm high.

**Switches** – push-button, sealed to IP56.

**Timer** – programmable by user; ‘Mains On’ and ‘Low Liquid Level’ indicators; rechargeable back-up battery (maintains the timer programme, it will not run the pump).

**Tubing** – 8mm dia. clear nylon or equivalent.

### Maintenance

1. 30 days after start-up and every 30 days thereafter, re-fill storage drum with water and Actimatic Liquid.
2. Every 30 days check fittings and tubes for leaks.
3. Every 6 months check pump tubing for signs of wear.

### Automatic dosing system installation notes

**Control box** – should be wall mounted.

**Electrical** – 220–240V, (Fuse rating 3 amp – internally protected by 1.6 amp fuse). 50–60Hz single phase supply must be continuous and connected to control box via an isolator by a QUALIFIED ELECTRICIAN.

**Plumbing** – ensure control box and storage drum are in final operating positions.

**Inlet** – connect nylon tube to pump by pushing tube into INLET fitting. Feed other end of tube through hole in cap of storage drum until it reaches the bottom of drum (tube may be cut to length if desired).

**Outlet** – connect nylon tube to pump by pushing tube into OUTLET fitting. For connection to pipework up to 50mm dia., use quick fit adjustable pipe connector supplied. If connecting to pipework above 50mm dia., drill and tap a 1/8” BSP hole in a suitable pipe run leading to the grease converter. This hole MUST be located after the last trap in the run and in the top of the pipe if the run is horizontal.

Screw and seal the supplied 1/8” BSP fitting into the tapped hole. Connect free end of tube by pushing into fitting. (Tube may be cut to length if desired).

Audible alarm may be easily disabled if not required.

### Timer programming

Dosing time must be set by following the instructions supplied. Optimum start time is 2 hours after kitchen closes.

### To Specify / Order:

Spec. Code: **ADU** Automatic Dosing Unit

Spec. Code: **AL1** Actimatic Liquid (1 Ltr.)

Spec. Code: **MB** Optional wall mounting bracket for storage drum – made of grade 304 stainless steel with large radiussed corners to facilitate cleaning.

## Wade Actimatic Powder and Liquid

Wade Actimatic is a bacterial product specifically formulated to deal with kitchen effluent. It is available in powder or liquid form.

Actimatic Powder is a free flowing, buff coloured, granular powder; Actimatic Liquid is a green coloured, water- soluble liquid which is suitable for manual and automatic dosing. For technical information refer to back cover.

To function efficiently grease converters must be dosed regularly with Wade Actimatic. Daily dosing is recommended, but where this is impracticable, dosing twice weekly is an acceptable minimum.

When a converter is first put into service, and whenever it is cleaned out, a culture must be established or re-established within the converter per the Initial Dosing Procedure.

The best time for dosing is just before closing down for the night; this is because the micro-biological activity is more effective when there is least flow through the converter.

Details of automatic dosing are given on page 7.



### Initial dosing procedure

(1–3 days after kitchen commences operation)

#### Actimatic Powder

- Day 1
- Mix 8 level scoops (280 gm) with 2.25 litres (4 pints) of lukewarm water (30°C); stir to form a slurry.
  - Remove the dosing plug from the converter and pour in the slurry.
  - Wipe up any spillage and replace the dosing plug.
  - Wait at least 4 hours before allowing any discharge into the converter – this waiting time enables the micro-organisms to grow and reproduce in an ideal environment.

Day 2 Repeat as for Day 1.

Day 3 Commence daily dosing.

#### Actimatic Liquid

Day 1 Remove the dosing plug from the converter and pour in TWICE the amount shown in the Dosage Rate Guide.

Day 2-7 Repeat as for Day 1.

Day 8 Commence daily dosing.

### Daily dosing procedure

#### Actimatic Powder

- Mix the amount of powder shown in the Dosage Rate Guide with a little lukewarm water (30°C).
- Remove the dosing plug from the converter and pour in the solution.
- Wipe up any spillage and replace the dosing plug.

#### Actimatic Liquid

Remove the dosing plug and pour in the amount shown in the Dosage Rate Guide.



### Remote dosing

As an alternative to using the dosing plug facility, Actimatic may be poured into a sink which empties into the converter, and flushed with lukewarm (not hot) water.

### Dosage rate

The amount of Actimatic needed depends on the converter model and the type and number of meals prepared. If there is a build-up of grease, increase the dosage, if there is little indication of grease, reduce the dosage. Actimatic is highly concentrated; overdosing is wasteful but not harmful.

**Daily dosage rate guide** (with monthly equivalents).

Converter Model No.	POWDER		LIQUID	
	Daily level scoop	Monthly Kg	Daily capfuls	Monthly litres
6020LR	1	1	3	1
6022LR	1	1	3	1
6030	1	1	3	1
6032LR	1.5	1.5	4	1
6035LR	1.5	1.5	4	1
6060	1.5	1.5	4	1
6080	2	2	5	2
6215	2	2	6	2
6225	2	2	6	2

**Note:** If dosing twice weekly instead of daily, use three times the rate shown.

### To Specify / Order:

Spec. Code: **AL1** Actimatic Liquid (1 ltr.)

Spec. Code: **AP1** Actimatic Powder (1 kg)

Discount applies to standing orders.

## Wade Actimatic – supplementary information

Wade Actimatic is a mixture of micro-organisms, free enzymes, inorganic salts, buffers and non-ionic surfactants.

Six strains of micro-organism are selected because of their ability to produce the enzymes required to break down the range of waste materials produced by the catering industry. The micro-organism population comprises a range of bacilli, micrococcus and streptomycete cultures.

Four main types of enzymes are produced by the micro-organisms which operate in Wade Actimatic:

- Lipases – to break down fats and grease
- Amylases – to break down starch
- Proteases – to break down protein
- Cellulase – to break down cellulose

Enzymes serve to accelerate the establishment of the micro-biological culture; they have a limited life and will eventually be used up. Any dead micro-organisms will themselves be broken down and digested by other bacteria.

The micro-organisms in Actimatic Powder are naturally occurring and are not genetically engineered or genetically modified; they belong to Class1 as defined in the EU Council Directive 90/679/EEC of 26th November, 1990 and as amended by EU Council Directive 93/88/EEC of 12th October, 1993.

Actimatic Powder and its intermediates are tested using procedures recommended by the USDA and AOAC to ensure that they are free of Salmonella.

**Environmental impact.** The term BOD, biological oxygen demand, is often used in association with biological breakdown. BOD is a measure of the amount of organic matter in water and waste; it is the amount of oxygen in a given volume of water, consumed by micro-organisms during the degradation of organic matter over a five day period. High BOD causes concern since the loss of soluble oxygen in the water can create anaerobic conditions, which give rise to the production of foul odours arising from the formation of sulphides (particularly H<sub>2</sub>S) and methane; these conditions inhibit the degradation of fats and grease.

Wade Actimatic will not increase the BOD of the discharge from a correctly sized grease converter, nor the BOD loading of the final effluent plant.

All the ingredients of Wade Actimatic are bio-degradable and will have no adverse effect on the downstream biological clean-up operation.

Grease is converted permanently into soluble products which will not re-deposit further down the drainage system.

Wade Actimatic, when properly used, is not harmful to people, wildlife or the environment.

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### Independent product assessment:

In 1989 Wade became the first manufacturer of grease converters to be awarded an Agrément Certificate.

For the Grease Converter, an innovative product, there is no applicable British or European product standard. BS EN 1825 applies to products that require the physical removal of grease; the scope of the standard states “The standard does not cover the use of biological means (bacteria and enzymes)”.



# Sediment Interceptors



Sediment Interceptors are used to help prevent blockages where solids such as food scraps, hair, plaster, sediment etc. are discharged into drain lines.

## How does it work?

Solid material is captured in a collector – a bucket or, for fine particles, a filter bag – which needs to be lifted out of the interceptor for emptying at an appropriate frequency.

### Features

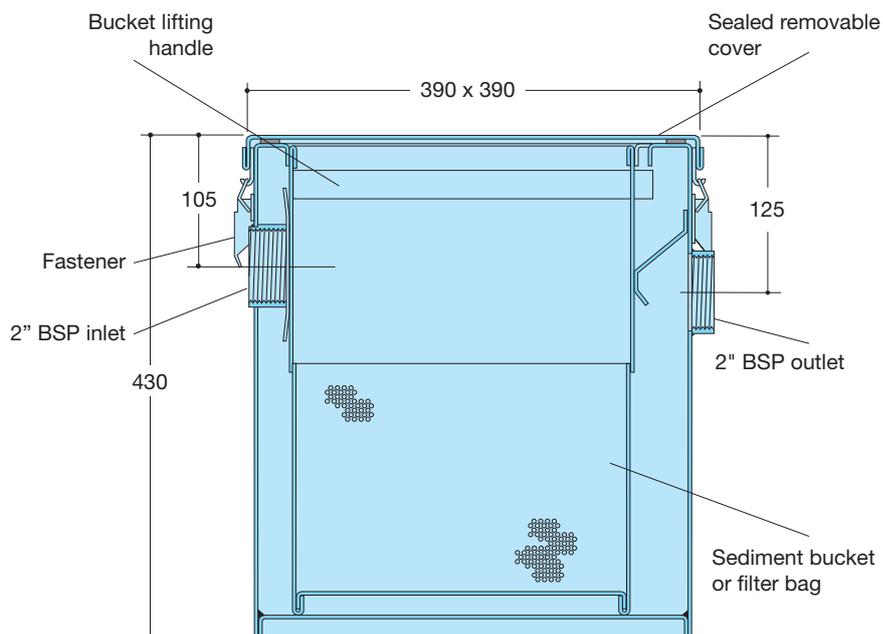
- suitable for floor standing or semi-recessed installations
- 2" BSP female inlet and outlet may be connected to pipework by means of proprietary connectors

### Material

Stainless steel grade 304, satin finish  
Seal – expanded closed cell neoprene.

### Options

For polished finish, add suffix 'P' to Spec. Code.



### Routine maintenance

Spec. code	Flow rate l/sec.	Solids collector
5740	0.4	Bucket – stainless steel (1.75mm dia. hole size)
5750	0.4	Bag – polyester (100 micron hole size)

Operation	Frequency
Remove main cover Remove and clean collector Drain and clean tank Check joints and seal	Annually

**Note:** Minimum clearance above cover of 450mm is required for removal of bucket/bag



Alumasc is a UK-based supplier of premium building products. The majority of the group's business is in the area of sustainable building products which enable customers to manage energy and water use in the built environment.

All Alumasc businesses have strong UK market positions within their own individual market niches and several are market leaders. Alumasc sustains this strong strategic positioning by offering customers quality products, service and trust. For certain brands, Alumasc is seeking to leverage UK successes in international markets, with particular focus in America, the Middle and Far East, and Europe.

Alumasc fosters an entrepreneurial, achievement orientated culture whereby businesses are encouraged to innovate and respond quickly to local market needs within a cohesive group strategic and management framework. Alumasc businesses also benefit from the group's financial strength.

**Alumasc Water Management Solutions (AWMS) is the new name in the industry for proven water management. It's a new joined-up brand that harnesses the expertise of five trusted brands in water management.**



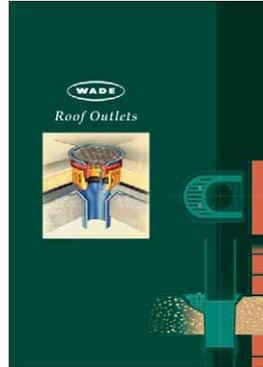
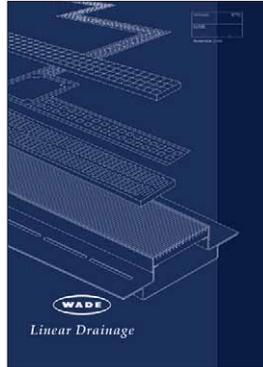
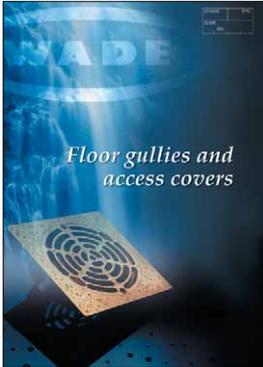
# About Wade

Visit our website for online versions of our product catalogue, price list, conditions of sale, news, job opportunities, Wade-CAD, Wade-BIM and PDF format technical handbooks.

Wade-CAD is for users who require drawings of Wade products; files are in both DXF and AutoCAD DWG format.

Wade-BIM is our library of BIM 3D models available for a range of products in Revit format.

## Other Wade literature



## Service

Product information and technical advice are available from the Wade Technical Services Department at Halstead, Essex, from Wade Technical Consultants located throughout the UK and from selected distributors throughout the world. A computer-aided design service is available free of charge for layouts and assemblies of Wade products.

## Warranty

The Company warrants its products to be free from defects in material and workmanship for a period of 12 months from the date of delivery. The Company's obligation under this warranty is limited, at its option, to the repair or replacement, free of charge, or refund of the net invoiced price of any part found to be defective, and which, in the Company's opinion, has not been subject to undue wear and tear, accident, alteration, abuse or misuse. Consequential damages are expressly disclaimed. Technical advice from Wade International Limited, whether verbal, in writing or by way of trials, is given in good faith but without warranty. The application, use and installation of the Company's products are beyond the control of the Company, and the purchaser is solely responsible for ensuring that goods are fit for any particular purpose. In line with the Company's policy of continual research and development, product specifications and availability are subject to change or withdrawal without prior notice.

## Dimensions

In line with general practice all dimensions shown are nominal. Dimensions are generally given in mm (other units are specified).



**FREE Drainage Design Software**  
This interactive software allows you to design your own drainage system using the same programme as our in-house design engineers. For a USB containing this free software, simply register your details with us.



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