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GREASE BLAST Grease Eradication System

GREASEBLAST

Combats Fats, Oils & Grease with a Natural **Biological Action**

Used by many businesses globally, Environmental Biotech's GreaseBlast[™] system is a cost-effective natural way to permanently free your drains from FOG (Fats, Oils and Grease) that account for over 75% of drain blockages.

The wall-mounted GreaseBlast™ automatic drain dosing system routinely delivers non-toxic bacteria directly into the drain line or grease trap. The bacteria simply consume the drain-clogging FOG, turning it into H₂O and CO₂.

GreaseBlast™'s multi-strained bacteria are specifically cultured for use in drain lines, and are proven to:

- Constantly maintain free-flowing drains using a 'biofilm' forming bacterial action
- Eliminate food related drain odours
- Save on unnecessary reactive call-outs and drain maintenance



The disposal of high volumes of FOG (Fats, Oils and Grease) from commercial kitchens is unavoidable.

What is avoidable is the resulting blockages, slow drainage, and bad odours, which have an untold effect on health and hygiene.

The Environment Agency estimates 75% of sewer blockages are caused by the build-up of FOG, equating to 75,000 environmental incidents each year.

The traditional 'patch-job'

Chemicals, enzyme systems, and surfactants (soaps) will not solve the problem. Instead, they simply relocate the issue further into yours, your landlord's or the water authority's drain system.

Surfactants do not offer a permanent solution







 Surfactants form a foamy barrier around the fatty acids and glycerol that make up FOG.

2. Once it cools, the surfactant dilutes and becomes much less effective.

3. FOG will return to its original form, further in your drain line.

Many resort to mechanical cleaning, which can damage pipe work as well as failing to resolve the issue. In the meantime, the costs associated with your own repairs and annual cleaning, not to mention the major risk of fines from water authorities, continue to be a real threat to the operation of your business.

Bio-technology – the way forward

Bioremediation is an established way of attacking fats, oils and grease deposited directly into kitchen drains and grease traps. The process simply involves grease-hungry microorganisms feeding on the problematic fat, sugar and starch wastes found clinging to drains, which is then turned into water and carbon dioxide. It is this biotechnology that GreaseBlast™ is founded on.

Bioremediation using multi strained bacteria

The dosing of live vegetative bacteria creates high count bacterial colonies throughout the drainage system to keep it free-flowing.



1. Fats clinging to drain lines are made up of fatty acids bonded to glycerol.



2. Once released into the drain line. GreaseBlast™ bacterial solution breaks down the bond between the fatty acids and glycerol by the LIPASE enzyme that is produced..



3. Once the bond is broken, the vegetative bacteria digest the fatty acids and transform them into harmless bi-products of water and carbon dioxide.



Tried & Tested

GreaseBlast™'s formula is the result of over 20 years' research at Environmental Biotech's company-owned R&D facility in Florida.

There is a reason why McDonalds use Environmental Biotech's bacteria at every drive-through across the UK and why Costa Coffee relies on the same company to take care of its sugar build-up.

Installation

GreaseBlast™ can be used in conjunction with a grease trap, where it is dosed prior to the trap, or as a standalone way of tackling the build-up of FOG.

Saving on valuable floor space, GreaseBlast[™] is wall mounted and very simple to install and operate, with no water connection or power required (battery operated pump).

GreaseBlast™ can be fixed anywhere in a kitchen or facility and its stainless steel finish compliments existing fixtures and fittings. The GreaseBlast™ tube is simply inserted into a drain where the bacteria can be dispensed. A fixing kit, tubing and full instructions are provided. The non-toxic, non-corrosive ready-mixed containers of bacteria are very easy to change over and install.

Capacity

How frequently the container will need changing will depend on the number of meals being prepared each day. As a guide:

More than 300 meals – dosing fluid is replaced every 14 days

Less than 300 meals - dosing fluid is replaced every 30 days

A simple fluid level display also shows the kitchen operator how much bacteria remains in the container and when it is close to requiring a replacement. The GreaseBlast unit is also key-lockable to ensure restricted access. The unique dispensing technology removes the need for ongoing service/maintenance.

Grease Traps

The capacity of a grease trap will determine how effective it is at managing FOG. Cleaning out grease traps and accessing them can be difficult and expensive. GreaseBlast $^{\text{TM}}$ offers a viable cost-effective solution. Installing a GreaseBlast $^{\text{TM}}$ system into the line that feeds directly into the trap, the bacteria will significantly reduce the amount of FOG in the trap. A grease trap also collects a build-up of food waste so will still require periodic cleaning.

Part No Description

450001 GREASEBLAST™ INSTALLATION KIT

comprising stainless steel housing with integral dispensing pump, fixing kit, tubing and 4×4 litre containers of GreaseBlast TM fluid contents of each bottle is enough for:

30 days use in an establishment serving fewer than 300 meals a day

14 days in an establishment serving over 300 meals a day dimensions of housing: 410(H)x182(W)x146(D)mm weight 7.25kg (with full container of fluid) requires 2xC batteries (supplied)



450002 GREASEBLAST™ FLUID

supplied as pack of 4 bottles, each containing 4 litres of fluid contents of each bottle is enough for:

30 days use in an establishment serving fewer than 300 meals a day

or 14 days in an establishment serving over 300 meals a day



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Food Waste Management Solutions

EPW FOOD WASTE MANAGEMENT

EPW is an aerobic food waste decomposition system providing rapid break down and elimination of food waste on-site where it is generated. The technology uses a combination of mechanical processing, heat, oxygen and an all-natural BioMix™ additive to accelerate the natural aerobic decomposition process to produce a grey water bi-product that meets or exceeds regulatory standards for safe disposal down the drain. The result is complete elimination of food waste in 24 hours.

BioMix[™] is a natural vitamin extract that does not contain bacteria or enzymes to accelerate the natural decomposition process It is effective with all food waste, including bones and fibrous materials such as coconut husks, and virtually eliminates fats and greases (FOG's). The EPW system has a proven track record in a wide range of different catering facilities such as hotels, schools, prisons and restaurants across America.

The system is available in a variation of sizes to match the food waste problem, with capacities from 54kg up to more than 6000kg a day. It can be used as a stand alone unit or integrated into a building wide system with a central unit taking waste from remote stations installed in different parts of a building, such as the dishwash and food prep areas or even multiple kitchens.

EPW Food Waste System Cycle

- 1 Loading food waste activates the cycle
 - · High pressure clean out of filters
 - Activate grinder pumps to grind incoming food, re-grind existing food waste and circulate settled solids in the tank
 - Cycle compressor pump and oxygen diffuser to ensure aerobic process
 - Deactivate pumps and grinders to allow settling of solids for sludge reduction
- 2 BioMix is Automatically added during cycle as required
- 3 PLC auto-controlled repeat cycle

Periodic Automatic Adding of BioMix

Periodic Automatic Adding of BioMix

Periodic Automatic Adding of BioMix

Technical details below are for guidance only as all systems are custom manufactured to meet individual requirements

	CAPACITY OVERALL DIMENSIONS cm			WEIGHT	WATER	ELECTRICS		
Model	kg/day	tons/mth	width	depth	height	Empty kg	litres/h	400V/3ph
EPW-120i	54	1.8	86	166	152	408	5	20A
EPW-240i	108	3.6	86	198	210	454	10	30A
EPW-360i	164	5.4	122	212	210	636	15	30A
EPW-480i	218	7.2	132	228	210	998	20	30A
EPW-600i	272	9.0	152	254	210	1044	25	30A
EPW-720i	326	10.8	194	298	224	1134	30	40A
EPW-1000i	454	15.0	194	298	236	1180	36	40A
EPW-1500i	680	22.5	238	334	236	1224	54	40A
EPW-2000i	908	30.0	270	360	260	1360	72	40A
EPW-240GT	108	3.6	132	198	210	680	10	40A
EPW-360GT	164	5.4	132	212	210	862	15	40A
EPW-480GT	218	7.2	132	228	210	1224	20	40A
EPW-600GT	272	9.0	152	254	210	1270	25	45A
EPW-720GT	326	10.9	194	288	224	1360	30	45A
EPW-1000GT	454	15.0	194	288	236	1406	36	45A
EPW-1500GT	680	22.5	238	334	236	1452	54	45A
EPW-2000GT	908	30.0	270	364	260	1588	72	45A
EPW-3000GT	1360	45.0	280	364	280	1678	86	45A

DRAINMAJOR/MINOR GREY WATER LIFTING STATIONS

Automatically pumps hot waste water from combi ovens, dishwashers and other catering/laundry machines when a low level drain is not available. Drainminor FC30 is suitable for a single oven machine, while Drainmajor FC30 has the capacity to handle grey water from several ovens. High pumping capability to handle awkward or long discharge pipe runs. Corrosion resistant pump suitable for mildly diluted chemicals in water. Durable tank is manufactured from polyester/glass fibre laminate, pigmented throughout with an externally smooth isophthalic polyester gel coat and resin enriched lining.

Vertical centrifugal type pump with submersible motor with built-in thermal cut-out.

Outlet connection 1¹/₄" BSP brass fitting with integral non return valve Requires 1¹/₄" minimum vent to air or ceiling void, or where this is not possible, vent should terminat with a Charcovent (supplied) which contains an activated carbon filter to remove unpleasant odours.

2" vent is required for use with glasswashers, dishwashers and washing machines or if the water is extremely hot.

Suitable for inlet connection at height of 110mm above floor level.



Part No Description

DRAINMAJORFC30SL DRAINMAJOR FC30SL WASTE WATER LIFTING SYSTEM

PTL30E vertical centrifugal type 0.32kW pump. Electrical supply of 230V/50Hz/1ph/1.4A flc Output 94 litres a minute at 2 metre head Maximum head 5m or 50m horizontally 48 litres capacity approx Inlet connection 110mm from floor minimum Outlet pipe 32mm Dimensions 400 x 550 x 420mm (h x w x d)

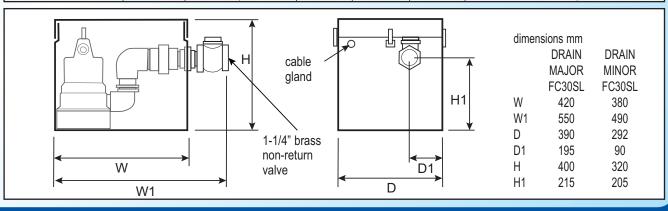


DRAINMINOR FC30SL WASTE WATER LIFTING SYSTEM

PTL30E vertical centrifugal type 0.32kW pump. Electrical supply of 230V/50Hz/1ph/1.4A flc Output 94 litres a minute at 2 metre head Maximum head 5m or 50m horizontally 25 litres capacity approx Inlet connection 110mm from floor minimum Outlet pipe 32mm Dimensions 320 x 490 x 292mm (h x w x d)



MODEL	Pump	Voltage 50Hz	P1 kW	P2 kW	flc A	RPM	Overload Protection	Maximum Solid Size
DRAINMAJORFC30SL	PTL30E	230V	0.32	0.2	1.4A	2720	Integral thermostat	10mm
DRAINMINORFC30SL	PTL30E	230V	0.32	0.2	1.4A	2720	Integral thermostat	10mm



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HT PIPEWORK FOR COMBI OVEN DRAINAGE

Part No	Description
60.70.464	COMBI WATER/DRAIN INSTALLATION KIT
	comprising 2m long water hose with 50mm drain
	and fittings suitable for all makes and sizes of
	combi ovens with 50mm/2" drain connection
8720.1031	COMBI DRAIN INSTALLATION KIT
	comprising 50mm drain fittings suitable for all
	makes and sizes of combi ovens with 50mm/2"
	drain connection (water supply hose not included)
Items in the ki	it are are available as individual items
2070.0054	50mm HT-SYSTEM PIPE 250mm
2070.0052	50mm HT-SYSTEM PIPE 500mm
2070.0043	50mm HT-SYSTEM 87° ELBOW
2070.0047	50mm HT-SYSTEM 45° ELBOW
2070.0048	50/50mm HT-SYSTEM TEE
2070.0051	50/50mm HT-SYSTEM DOUBLE SOCKET



DRAIN TUNDISH

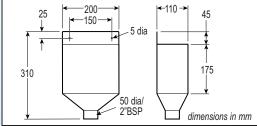
suitable for combi ovens drainage systems stainless steel construction and outlet for 2" pipework choice of threaded 2" BSP or plain outlet with rubber connector capacity 4.5 litres (approximately) overall dimensions 200(W)x110(D)x310(H)mm

Part No	Description	
408002	DRAIN TUNDISH WITH 2" BSP OUTLET with 2" BSP threaded connection for screw fit trap/pipework	
408001	DRAIN TUNDISH WITH 2" PLAIN OUTLET supplied with rubber connector for 2" push fit pipework	

rubber connector is also available separately
PC56 RUBBER CONNECTOR for pipe size 48-56m







RATIONAL CONDENSATION BREAKER

accelerates the expulsion of steam and other vapours from the vent pipe enables steam and vapours to be diverted into an extract system

Part No	Description	
60.72.591	CONDENSATION BREAKER - MODELS 61/62/101	
60.72.592	CONDENSATION BREAKER - MODEL 102	
60.72.593	CONDENSATION BREAKER - MODELS 201/202	



FLEXIBLE DRAIN HOSES

supplied with 'U' bracket for use with standpipes

Part No	Description
404001	19x22mm CONNECTIONS x 1.6m LONG
404002	19x22mm CONNECTIONS x 2.5m LONG
404003	22x29mm CONNECTIONS x 1.6m LONG
404004	22x30mm CONNECTIONS x 2.5m LONG
404005	22x29mm CONNECTIONS x 3.6m LONG

404006	21mm 90° ANGLE CONNECTION x 1.6m LONG	
404007	21mm 90° ANGLE CONNECTION x 2.5m LONG	



DISHWASHER CONNECTION HOSES

WRAS approved PVC hose with straight/angled plastic fittings. For hot and cold water with working pressure of 10bar at 60°C.

	1/2" 90° ELBOW F/FACED X 1/2" FEMALE F/FACED
Part No	Description
Q16000	RED INLET HOSE 3/4" x 3/4"BSP x 1500mm
WM15B	BLUE INLET HOSE 3/4" x 3/4"BSP x 1500mm





WASHING MACHINE TAP

supplied with a red and a blue lever for hot or cold water supplies

Part No	Description	
8136	WASHING MACHINETAP 15mm x 3/4BSP	



PLASTIC 2 WAY Y CONNECTOR

Part No	Description	
409001	PLASTIC 2 WAY Y CONNECTOR 3/4"F x 3/4"M x 3/4" M	



BRASS 2 WAY Y CONNECTOR

Part No	Description
904015	BRASS 2 WAY Y CO NECTOR 3/4"F x 3/4"M x 3/4" M3449061



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PEX TAP CONNECTION HOSES

Flexible tap connection PEX (cross-linked polyethylene) hoses with a stainless steel braid. Approvals include WRAS, ISO9001-2008, W270 approval and are suitable for use in Department of Health/NHS properties as being manufactured from approved materials that comply with their Estates and Facilities Alert DH (2010) 03. Internal diameter of 13mm and suitable for hot and cold water at up to a max pressure of 15 bar with a maximum temperature of 70°C.



Part No	Description
402014	1/2" F/FACED x 15mm COMPRESSION x 300mm PEX HOSE
402015	1/2" F/FACED x 15mm COMPRESSION x 500mm PEX HOSE



EPDM ST ST BRAIDED TAP CONNECTION HOSES

WRAS approved flexible tap connection EPDM hoses with a stainless steel braid. Suitable for hot and cold water at -20°C to +85°C a max pressure of 15 bar.



EPDM HOSES 8mm BORE

Part No	Description
MONO10SWS	10mm SHORT x 15mm COMPRESSION x 300mm
MONO10SWL	10mm LONG x 15mm COMPRESSION x 300mm



EPDM HOSES 10mm BORE

Part No	Description
MONO12S&L	12mm LONG/SHORT x 15mm COMPRESSION x 300mm



EPDM HOSES 10mm BORE

Part No	Description
TT01/300	1/2" F/FACED x 15mm COMPRESSION x 300mm
Q10207	1/2" F/FACED x 15mm COMPRESSION x 500mm
TT13/300	3/4" F/FACED x 15mm COMPRESSION x 300mm
Q10214	3/4" F/FACED x 15mm COMPRESSION x 500mm



EPDM HOSES WITH SERVICE VALVE 10mm BORE

Part No	Description
TT02/300	1/2" F/FACED x 15mm COMPRESSION x 300mm
TT02RW/500	1/2" F/FACED x 15mm COMPRESSION x 500mm



EPDM HOSES WITH SERVICE VALVE 12mm BORE

Part No	Description
TT25RW/300	1/2" F/FACED x 15mm COMPRESSION x 300mm
TT27RW/500	3/4" F/FACED x 15mm COMPRESSION x 500mm



Part No

EPDM ST ST BRAIDED CONNECTION HOSES

WRAS approved braided hose with nickel plated brass fittings. For hot and cold water -15 to +70°C and pressure of 10bar at 20°C



	1/2" 90° ELBOW F/FACED X 1/2" FEMALE F/FACED
Part No	Description
401021	FLEXIBLE S/S HOSE ø 12mm BORE x 1000mm LONG
401023	FLEXIBLE S/S HOSE ø 12mm BORE x 1500mm LONG
401024	FLEXIBLE S/S HOSE ø 12mm BORE x 2000mm LONG



3/4" 90° ELBOW F/FACED X 3/4" FEMALE F/FACED	
Description	
FLEXIBLE HOSE ø 10mm BORE x 1000mm LONG	

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401001	FLEXIBLE HOSE ø 10mm BORE x 1000mm LONG
401002	FLEXIBLE HOSE ø 10mm BORE x 1200mm LONG
401003	FLEXIBLE HOSE ø 10mm BORE x 1500mm LONG
401004	FLEXIBLE HOSE ø 10mm BORE x 2000mm LONG
401005	FLEXIBLE HOSE ø 12mm BORE x 1000mm LONG
401006	FLEXIBLE HOSE ø 12mm BORE x 1200mm LONG
401007	FLEXIBLE HOSE ø 12mm BORE x 1500mm LONG
401008	FLEXIBLE HOSE ø 12mm BORE x 2000mm LONG
401025	FLEXIBLE HOSE ø 19mm BORE x 1000mm LONG
401026	FLEXIBLE HOSE ø 19mm BORE x 1200mm LONG
401027	FLEXIBLE HOSE ø 19mm BORE x 1500mm LONG
401028	FLEXIBLE HOSE ø 19mm BORE x 2000mm LONG

AQUAVEND WATER CONNECTION HOSES

Food quality flexible hoses designed to deliver safe and taint free drinking water. WRAS approved and tested to BS6920 standard. Aquavend hoses combine a multi - layered pressure hose with TPE mirror smooth inner and nickel plated brass fittings. Suitable for hot and cold water feeds at temperatures of -15°C to + 70°C and working pressure of 10 bar at 20°C.



3/4" 90° ELBOW F/FACED X 3/4" FEMALE F/FACED

Part No	Description	
402001	AQUAVEND FOODSAFE HOSE ø 12.5mm x 1000mm	
402002	AQUAVEND FOODSAFE HOSE ø 12.5mm x 1200mm	
402003	AQUAVEND FOODSAFE HOSE ø 12.5mm x 1500mm	
402004	AQUAVEND FOODSAFE HOSE ø 12.5mm x 2000mm	



3/4" FEMALE F/FACED X 3/4" FEMALE F/FACED

Part No	Description
402005	AQUAVEND FOODSAFE HOSE ø 12.5mm x 1000mm
402006	AQUAVEND FOODSAFE HOSE ø 12.5mm x 1200mm
402007	AQUAVEND FOODSAFE HOSE ø 12.5mm x 1500mm
402008	AQUAVEND FOODSAFE HOSE ø 12.5mm x 2000mm

