

ACE GRITTER	
Screen unit	Degritting Screen 2mm perforations - Geared drive with output speed 2 rpm.
Capacity	For screeners up to 100 LPS. Removes up to 98% of grit above 2mm.
Electrics	0.25kw 380-400v 3ph 50hz
Discharge	500mm wide chute.
Brush	Polypropylene wiper strip.
Safety	Proximity switch to park the wiper mechanism. Reed switch to isolate on opening screen cover.
Screen & Frame	Fabricated in Stainless Steel throughout, Grade 304 as standard, Grades 316 and 316(L) are available as specials
Control	By timer.
Trap/Channel	A grit intake box and profiled channel is fitted upstream in the prefabricated inlet.
	Fabricated in Stainless Steel throughout, Grade 304 as standard, Grades 316 and 316(L) are available as specials
Grit pump	Designed to remove grit above 2mm in size
Electrics	2.2kw 1450rpm IP55 Rated 400v 3ph 50hz 110v anti condensation heaters



ACE STORMER	
Screen unit	6mm Screen - Geared drive with output speed 6 rpm
Capacity	For storm overflows on screeners up to 100 LPS.
Electrics	0.25kw 380-400v 3ph 50hz
Weir	Length 1.4 metres
Brush	Brush elements are made from LISAB [®] , a stiff non-setting filament
Safety	Proximity switch to park the wiper mechanism. Reed switch to isolate on opening screen cover.
Screen & Frame	Fabricated in Stainless Steel throughout, Grade 304 as standard, Grades 316 and 316(L) are available as specials
Control	Via levels measured by ultrasonic.



ACE DEGREASER	
Channel unit	Lammellar plate type with removable coalescer plates.
baffles & Frame	Fabricated in Stainless Steel throughout, Grade 304 as standard, Grades 316 and 316(L) are available as specials
Cleaning unit	Steel box containing angled wiper blades and Carriskip container.
Frame	Fabricated in Stainless Steel throughout, Grade 304 as standard, Grades 316 and 316(L) are available as specials
Grease storage	Carriskip.



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SCREEN SIZES

DRIVES & POWERS

MATERIALS AND CONSTRUCTION

RANGE EXTENSION DETAILS

SAFETY AND OPERATOR PROTECTION

FLOW CAPACITIES

Model	Min channel width	dwf (Gravity flows)	Max storm	Pumped	Approx PE.*
290	300	6	15	12	500
490	500	10	30	25	1000
590	600	15	40	35	2000
740	750	15	50	45	3500
591	600	20	60	50	5000
741	750	25	75	65	7500
991	1000	30	100	85	10000

All above are 6mm screens - Flow capacity for 3mm perforations needs to be derated
* Population equivalent is a rough guide only. Duty/Assist available.

Enquiry data sheets for customers to complete specific site details pending a detailed quote are available by request.

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E3088 August 04

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It is the policy of our Company continually to improve our products and accordingly we reserve the right to alter specifications and appearance without notice.

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Model		290	490	590	740	591	741	991
Minimum Channel Width	mm	300	500	600	750	600	750	1000
Screen Depth	mm	300	300	300	300	450	450	450
6mm Perforated screenplate								
Open area	(%)	53%	53%	53%	53%	53%	53%	53%
Free Area Ratio @ full flow depth	(%)	112%	113%	133%	132%	118%	117%	118%
Maximum installed headloss at full flow		100mm	100mm	100mm	100mm	100mm	100mm	100mm
3mm Perforated screenplate								
Open area	(%)	51%	51%	51%	51%	51%	51%	51%
Free Area Ratio @ full flow depth	(%)	107%	108%	127%	127%	113%	112%	113%
Maximum installed headloss at full flow		100mm	100mm	100mm	100mm	100mm	100mm	100mm
Drives and Powers								
Screen Unit Geared drive with output speed 6 rpm								
	Kw	0.18	0.18	0.25	0.25	0.25	0.25	0.25
	V	380-400 V/3ph/50Hz (other voltages available as specials)						
	IP	IP 55 (IP 68 available as special)						
Ace Pump Coupling drive (IP55 or IP68 when specified) or direct drive (IP67)								
	Kw	1.5 (10 min)	1.5 (10 min)	1.5 (10 min)	2.2 (10 min)	2.2 (10 min)	2.2 (10 min)	2.2 (10 min)
	V	380-400 V/3ph/50Hz (other voltages available as specials)						
	IP	IP 55	IP 55	IP 55	IP 55	IP 67	IP 67	IP 67
<small>Coupling drive = (CD) Direct drive = (DD)</small>	Drive	CD	CD	CD	CD/DD	CD/DD	CD/DD	CD/DD
	Output	Up to 4 l/s at 3.0m total head						
LS304 Dewatering Lisep (direct drive)with integral compactor (geared drive)								
	Kw Combined	1.68	1.68	1.68	1.68	1.68	1.68	1.68
	V	380-400 V/3ph/50Hz (other voltages available as specials)						
	IP	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
	Capacity	Up to 4 l/s raw sewage as output from the ACE Pump						
	Heat Pad	50W using a derived voltage						

Materials and construction								
Model		290	490	590	740	591	741	991
Screen Unit	Screen & Frame	Fabricated in Stainless Steel throughout, Grade 304 as standard, Grades 316 and 316(L) are available as specials						
	Brush	Brush elements are made from LISAB [®] , a stiff non-setting filament						
	Linkage	Bearings within the assembly are self lubricating IGUS bushes						
	Drive	Motors used are aluminium or cast iron frames, cast iron gear boxes						
Model		290	490	590	740	591	741	991
ACE Pump	Pump	Coupling drive units: Stainless Steel Grade 316 body and bearing assembly or grey cast iron or Austenitic (F1 Flake) Cast Iron for specific applications as specials. Direct drive units: Grey Cast iron						
	Drive	Drive motors use Aluminium frames as standard.						
	Cutting Element	Hardened tool steel shearplate Integral steel headstock with tungsten carbide cutting tips						
	Seal	Mechanical within oil bath.						
LS304	Liquid Separator & Frame	Fabricated in Stainless Steel throughout, Grade 304 as standard, Grades 316 and 316(L) are available as specials Separator screens: 3mm perforations						
	Body	Cast aluminium						
	Drive	Motors use Aluminium or cast iron frames, cast iron gear boxes						
Interfaces								
Pipework		ACE Pump to LS304 - 1.25" or 1.5" ABS female socket or union						
		LS304 Decant to channel or drain - 3"ABS female socket						
Washwater		NONE REQUIRED						
Electrical		Incoming supply to control panel - 1 cable, 3 phase & neutral, 25 Amp						
		Telemetry connections are available as standard						
		Note: On models 290, 490 and 590, control panels are supplied on a stand with junction boxes fitted to the screen unit and LS304. On other models, the control panel can either be stand mounted or mounted on the screen unit.						
Control Panel								
	Enclosure	Stainless steel enclosure, weatherproofed to IP67						
	Size	750mm tall x 340mm deep x 540mm wide (Typical)						
	Method of control	Programmable Relay (Siemens logo) - MODBUS as standard, or PROFIBUS available. Other programmable relays are available.						
	Control inputs	Ultrasonic depth measurement using Milltronics "Probe" as standard.						
Safety and Operator Protection								
Screen Unit	Guards	Screen mechanism is guarded by a removable cover. Removable cover can be padlocked shut.						
	Cut-outs	Removable cover includes a reed switch to automatically stop the screen if the cover is disturbed. Activating the reed switch will inhibit the entire system (ACE Pump & LS304). Emergency stop fitted to screen unit (common to ACE Pump).						
LS304	Guards	Access to the rotating assembly is via a hinged guard (Lisep) and removable guard (compactor). Both guards can be padlocked shut.						
	Cut-outs	Hinged cover includes a reed switch to automatically stop the LS304 if the cover is disturbed. Activating the reed switch will inhibit the entire System (Screen unit and ACE Pump). Emergency stop fitted to LS304.						
ATEX Directive 94/9/EC		ACE Screener XP is designated to meet ATEX requirements with the following explosion protection classes:- Zone 1: II 2 G ck T3, T _a :-20 to +40 °C Zone 2: II 3 G ck T3, T _a :-20 to +40 °C Note: For ACE Screener XP models some aspect of this technical specification will change. Screen performance is unaffected.						

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