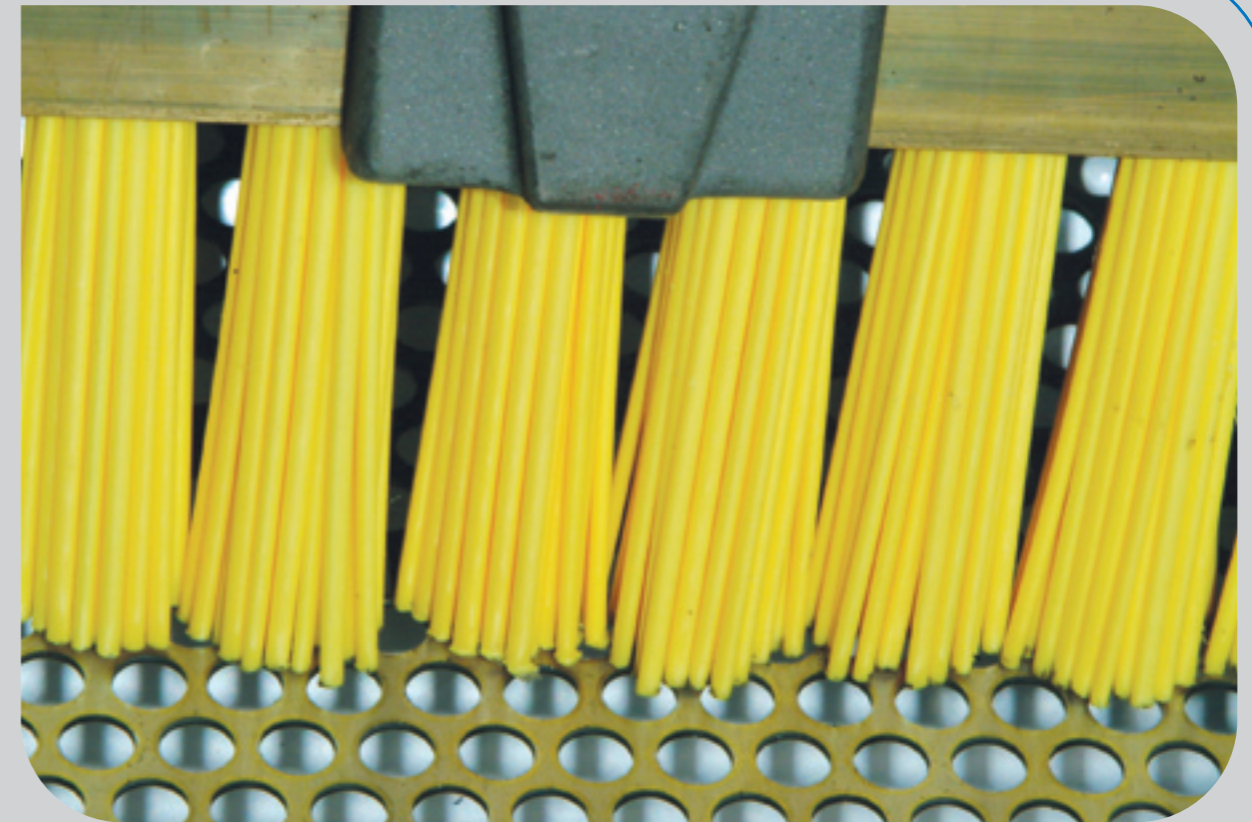




Waste Water Experience & Innovation



# ACE Screener™

Screening & Screening Handling  
Technical Specifications



[www.haigh.co.uk](http://www.haigh.co.uk)

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

EXXX/0512

**The Haigh Engineering Company Limited**  
Alton Road, Ross-on-Wye, Herefordshire HR9 5NG

Tel: +44 (0) 1989 763131  
Fax: +44 (0) 1989 566276

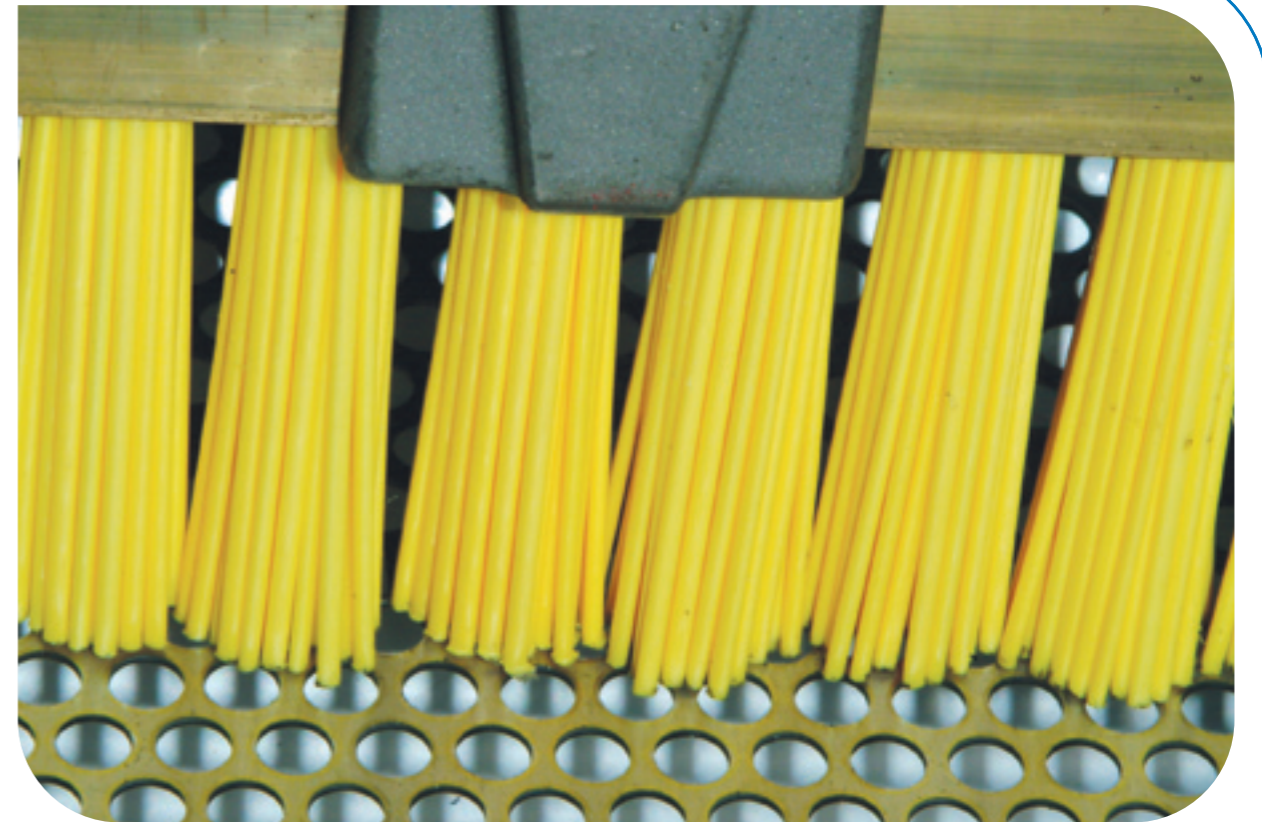
[info@haigh.co.uk](mailto:info@haigh.co.uk)



The pulp used for manufacturing this paper is from mills that are certified to ISO 14001. ECF pulp sourced from sustainable forests.



[www.haigh.co.uk](http://www.haigh.co.uk)



# ACE Screener™

Screening & Screening Handling  
Technical Specifications



Waste Water Experience & Innovation

# ACE Screener™

Technical Specifications



## CAPACITIES

Model	Screen Width (mm)	Screen Height (mm)	Approx Population	Maximum Flow (l/s)	Maximum Upstream Water Level before going to bypass (mm)	Maximum Downstream Water level acceptable (mm)
290	290	300	250	8	270	235
490*	490	300	500	20	270	235
491*	490	450	2500	40	270	235
590	590	300	1000	30	270	235
740	740	300	1750	40	410	360
591*	590	450	3000	50	410	360
741*	740	450	3750	60	410	360
991*	990	450	5000	80	410	360

2mm and 3mm screening can be offered as an option. Also Duty/Standby and Duty/Assist available, please enquire for flow capacities  
\*Standard preferred models

Prefabricated Inlet	Single Screen Unit (Kg)	Prefabricated Inlet with Screen (Kg)	Maximum Operational Weight (Kg)
290 Ace Screener	114	268	2000
490 Ace Screener	124	374	2200
491 Ace Screener	370	770	3300
590 Ace Screener	139	389	2200
740 Ace Screener	156	456	2500
591 Ace Screener	375	775	3300
741 Ace Screener	381	816	3700
991 Ace Screener	400	900	3000
LS304-5VR	128	N/a	203
Control Panel	117	N/a	N/a
Combined LS304-5VR and Control Panel	245	N/a	350

### Washwater

The ACE Screener requires zero washwater

### Headloss

The ACE Screener has a large screen plate surface area, which results in a very low headloss across the screen. At the maximum stated flows, the flow will be at the top of the screen plate with a headloss across the screen of less than 100mm. Under normal DWF flows the headloss will be less than 50mm.

## TYPICAL RUNNING TIMES

### Models 290 & 490

Drive	Screen Drive	ACE Pump	Lisep	Lipactor	Total
Notional power	0.25 kW	1.5 kW	1.5 kW	0.37 kW	3.62 kW
Run time / screen hour	1	0.33 (20 minutes)	0.4 (24 minutes)	0.46 (28 minutes)	
Power usage	0.25 kW	0.5 kW (1.5 x 0.33)	0.6 kW (1.5 x 0.4)	0.17 kW (0.37 x 0.46)	1.52 kW
Real Installed power consumption (when running)					1.52 kWh

### Models 590 & 740

Drive	Screen Drive	ACE Pump	Lisep	Lipactor	Total
Notional power	0.25 kW	1.5 kW	1.5 kW	0.75 kW	4.00 kW
Run time / screen hour	1	0.33 (20 minutes)	0.4 (24 minutes)	0.46 (28 minutes)	
Power usage	0.25 kW	0.5 kW (1.5 x 0.33)	0.6 kW (1.5 x 0.4)	0.35 kW (0.75 x 0.46)	1.7 kW
Real Installed power consumption (when running)					1.7 kWh

### Models 491, 591 & 741

Drive	Screen Drive	ACE Pump	Lisep	Lipactor	Total
Notional power	0.25 kW	3 kW	1.5 kW	0.75 kW	5.5 kW
Run time / screen hour	1	0.33 (20 minutes)	0.4 (24 minutes)	0.46 (28 minutes)	
Power usage	0.25 kW	0.99 kW (3.0 x 0.33)	0.6 kW (1.5 x 0.4)	0.35 kW (0.75 x 0.46)	2.19 kW
Real Installed power consumption (when running)					2.19 kWh

### Model 991

Drive	Screen Drive	ACE Pump	Lisep	Lipactor	Total
Notional power	0.37 kW	3 kW	1.5 kW	0.75 kW	5.62 kW
Run time / screen hour	1	0.33 (20 minutes)	0.4 (24 minutes)	0.46 (28 minutes)	
Power usage	0.37 kW	0.99 kW (3.0 x 0.33)	0.6 kW (1.5 x 0.4)	0.35 kW (0.75 x 0.46)	2.31 kW
Real Installed power consumption (when running)					2.31 kWh

Haigh recorded data suggests the following run times per day by unit size:

System Size	Typical Run Times per Day (hours)*	Typical Power Use per Day
290	1.5	2.18 kWh
490	2	2.90 kWh
590	3	5.10 kWh
740	4	6.80 kWh
491	4	8.76 kWh
591	5	10.95 kWh
741	6	13.14 kWh
991	7	16.17 kWh

\* Notes on running times