

ESCALATOR HANDRAIL STERILISER TEST RESULTS REPORT

MOTION ICON UK & EUROPE



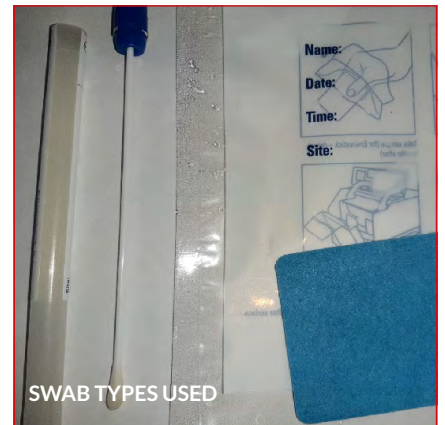
IT'S NOT A CHOICE...
IT'S ESSENTIAL



TEST RESULTS REPORT

Project Overview, Intertek were commissioned to supply sampling protocols sufficient to assess the effectiveness of the “WeClean-E” escalator handrail sanitiser unit, supplied by **MotionIcon UK Ltd.** To achieve this, a swabbing exercise was performed. The “WeClean-E” escalator handrail sanitiser was fitted to the handrail of an escalator for the purpose of cleaning and sanitising the handrail continually while the handrail is in use. The unit comprises of three cleaning stages, a chemical disinfectant, physical cleaning by means of 3 fabric roller brushes, and the final stage is UV-C light.

Testing was performed on two separate occasions. First on the morning after installation of the unit and the second sampling was completed three days after the first sampling. This was done to identify the initial organism reduction from the application of the unit. The second sampling was performed three days after the first to allow the unit to operate over time and the second results could be used to identify if the unit had maintained the initial operational performance.



Unsanitised Handrails Before

Control	Total bacteria count	Enterobactereace
A (Left Unit)	2200	<10
B (Right Unit)	2800	<10

Sanitised Handrails After

Left unit handrail	Sampling date	Total bacteria count	Enterobactereace
1	18/09/2020	110	<10
2	18/09/2020	9	<10
3	18/09/2020	120	<10
4	18/09/2020	70	<10
5	18/09/2020	90	<10
6	18/09/2020	10	<10
7	18/09/2020	9	<10
8	18/09/2020	9	<10
9	18/09/2020	9	<10
10	18/09/2020	9	<10

Right unit handrail	Sampling date	Total bacteria count	Enterobactereace
1	18/09/2020	9	<10
2	18/09/2020	9	<10
3	18/09/2020	150	<10
4	18/09/2020	110	<10
5	18/09/2020	9	<10
6	18/09/2020	140	<10
7	18/09/2020	9	<10
8	18/09/2020	9	<10
9	18/09/2020	9	<10
10	18/09/2020	9	<10

Calculated average of the bacteria results

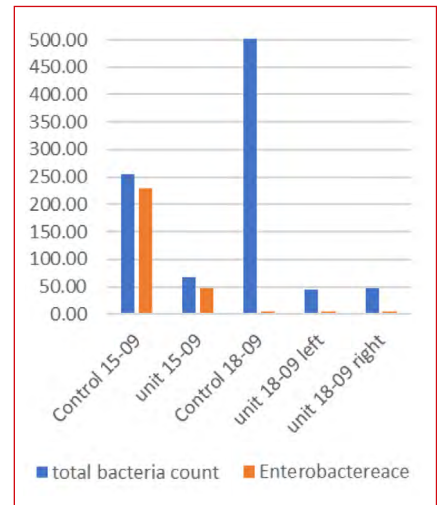
TEST RESULTS REPORT

Percentage reduction of Total bacteria Count		
15-Sep	Unit attached	73.93
18-Sep	unit left	98.22
18-Sep	unit right	98.15

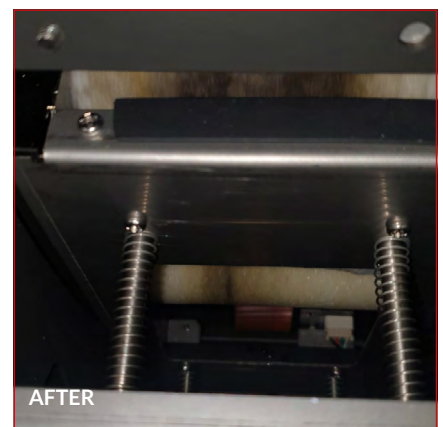
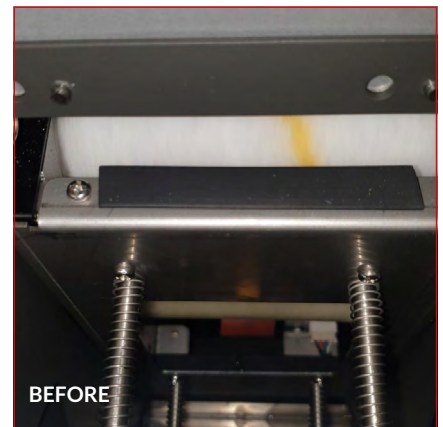
Final results showed a overall reduction 98% of bacteria count

Control sample ID	sample date	COVID-19 Result
Control A	15/09/2020	Not Detected
Control B	15/09/2020	Not Detected
Control C	15/09/2020	Not Detected
Control D	15/09/2020	Not Detected
Control E	15/09/2020	Not Detected
Control F	15/09/2020	Not Detected
Control F2	15/09/2020	Not Detected

no unit attached	sample date	covid-19
A	18/09/2020	Not detected
B	18/09/2020	Not detected



Graph shows comparison of bacterial levels between control handrails and handrails with operation units fitted



COVID-19 Sampling

Total bacteria count is the measure of all aerobic “viable” bacteria in the sample. The testing for total bacteria count is a commonly used hygiene indicator. Enterobacteriaceae is a large family of organisms occurring naturally in multiple environments including soil, water, skin and mammalian intestinal tract. Some members of this family such as e.coli, Salmonella, Citrobacter and Klebsiella are known to have health concerns. The testing for Enterobacteriaceae as a hygiene indicator organism is common practice. Footfall- during the testing, footfall was considered to be light, approximately 2-3 people per minute. Footfall for the times the unit was in operation between sampling could not be verified and should be assessed by the site if required.

The results were extremely positive, as per the table above and showed an overall reduction of 98%, which was maintained during the exercise. The percentage reduction the units achieved over the testing period showed that during the initial testing the units achieved 73.9%. during the second round of testing the control sampling showed a higher level of bacteria present and from this the units achieved a percentage reduction between 98.15% and 98.2%

Contact **MotionIcon UK & Europe** for more details on how you can protect your staff and customers safe from bacteria and viruses on your escalator handrails. We can also send you the full scientific and technical analysis report.

