



SUBZERO RS-170

**HIGH-POWER PORTABLE
UV-C RAPID SANITISER**

Designed to inactivate biomolecules and micro-organisms including the elimination of Coronavirus, the ultra-compact, lightweight SubZeroRS-170 is for use on all surfaces in applications posing a high risk of public cross contamination.

Target applications include ambulances and blue light services, buses, aircraft and cruise ship cabins, train carriages, and other public transport, and hospitals, schools, offices and hotel rooms.

The SubZeroRS-170 is the latest product in the Portable-UV programme from Integration Technology and follows the 2019 launch of the AC-850 series of portable hand-held high powered LED units for curing fillers, primers and coatings.

Easy to use and maintain, the 285 x 85 x 142mm, 3 kg air-cooled unit can be plugged into a standard electrical wall socket, offers rapid warm-up and cool-down and comes with a quick-change lamp cassette for reduced downtime on site.

SUBZERORS-170 AT A GLANCE

- Ultra compact "footprint"
- Ultra light weight (~ 3kg)
- High intensity reflector system
- Double quartz filter system with replaceable front quartz
- Quick change Cassette
- Rapid Warm up and Cool down
- Integrated air-cooling
- High Flex cable up to 15 m
- Long service life of the shutter > 30 million cycles
- One Year Integration Technology Warranty
- Comprehensive warranty backed by global support direct from Integration Technology and through its IST Metz



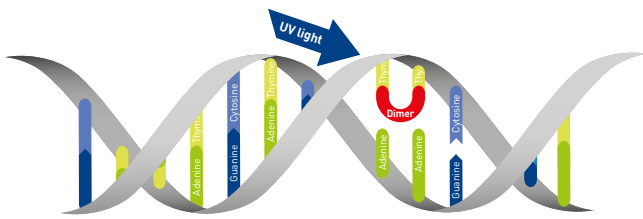


The RS-170 offers a 1700W input power with a high intensity reflector system. Four times more powerful than competing solutions means it significantly reduces the UV exposure time required to achieve the same virus elimination results. Its widespread illumination capability also achieves greater overall decontamination rates, faster.

The RS-170 draws on proven technology from Integration Technology's SubZero Series UV lamp technology, introduced to the print industry sector by the company in 2005.

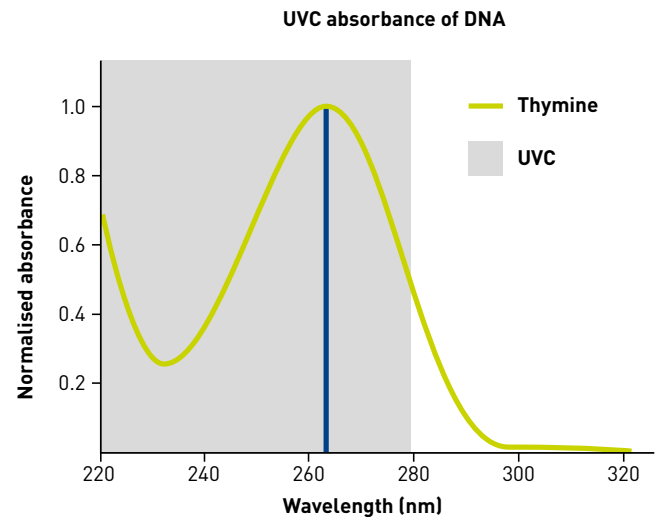
HOW DOES IT WORK?

- DNA is blocked by UVC (254 nm)
- Cell division of micro-organism is prevented
- Decay of products is not possible



Exposing DNA to UV light triggers a photochemical process. In the case of two adjacent thymines, UVC light absorption destroys the connection to the opposite strand and the thymines are linked to form stable dimers.

The mode of action of UV-light sterilisation is based on the fact that the DNA of viruses, bacteria and moulds absorbs UVC radiation in the broadband range of 200 – 280 nm. The absorption maxima lies at approx. 265 nm.



		Inactivation Rate			SubZero RS-170 @200 mm		
		Dose [mJ/cm ²]			Time [sec]		
		D ₉₀	D ₉₉	D _{99.9}	D ₉₀	D ₉₉	D _{99.9}
Bacteria	Legionella (dumoffii)	2.4	4.8	7.2	0.3	0.5	0.8
	Salmonella (typhil)	2.1	4.2	6.3	0.2	0.5	0.7
	Streptococcus (pneumoniae)	46.8	93.6	140.4	5.2	10.4	15.6
	Coronavirus (SARS-Cov1)	22.6	45.2	67.8	2.5	5.0	7.5
Virus	Measles (vrus)	2.2	4.4	6.6	0.2	0.5	0.7
	Poliovirus (type 1)	4.1	8.2	12.3	0.5	0.9	1.4

Source: Ultraviolet Germicidal Irradiation Handbook, Kowalski, 2009

Distance [mm]	UVC		Irradiated area mm
	Typ. [mW/cm ²]	Max. [mW/cm ²]	
100	40	93	200 x 350
200	25	44	250 x 400
400	10	13	350 x 450
800	3	4	750 x 500
5000	0,05	0,1	7000 x 10000

Measured using a UV irradiance Opsytec RM-12
All readings in mW/cm² and all dimensions in mm

WE HAVE THE CURE

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