

**Normal Recommended Treatment**  
**Kills COVID-19, Bacteria, and Viruses**  
**UVC Dosage: 120 Joules**

Room Size	Treatment Time
6' by 6'	1 minute
8' by 8'	2 minutes
10' by 10'	3 minutes
12' by 12'	4 minutes
14' by 14'	5 minutes
16' by 16''	6 minutes
18' by 18'	8 minutes
20' by 20'	10 minutes
22' by 22'	11 minutes
24' by 24'	15 minutes
26' by 26'	17 minutes
28' by 28'	20 minutes
30' by 30'	23 minutes
32' by 32'	26 minutes
34' by 34'	29 minutes
36' by 36'	33 minutes
38' by 38'	37 minutes
40' by 40'	40 minutes

## Higher Recommended Treatment

Kills More Resistant Bacteria and Viruses

UVC Dosage: 241 Joules

Room Size	Treatment Time
6' by 6'	2 minute
8' by 8'	3 minutes
10' by 10'	5 minutes
12' by 12'	7 minutes
14' by 14'	10 minutes
16' by 16''	13 minutes
18' by 18'	16 minutes
20' by 20'	20 minutes
22' by 22'	25 minutes
24' by 24'	29 minutes
26' by 26'	34 minutes
28' by 28'	40 minutes
30' by 30'	46 minutes
32' by 32'	52 minutes
34' by 34'	59 minutes
36' by 36'	66 minutes
38' by 38'	73 minutes
40' by 40'	81 minutes

## Specific Treatment Times for Bacteria and Viruses

Required UVC Dosage: See Below

Microbe	Dose (J/m <sup>2</sup> )	k
Coronavirus	7	0.351
Berner virus (Coronaviridae)	7	0.321
Murine Coronavirus (MHV)	15	0.134
Canine Coronavirus (CCV)	29	0.081
Murine Coronavirus (MHV)	29	0.081
SARS Coronavirus Cov-P9	40	0.058
Murine Coronavirus (MHV)	103	0.022
SARS Coronavirus (Hanoi)	134	0.017
SARS Coronavirus (Urbani)	241	0.009
Yeasts	Dose	k
Baker's yeast	39	0.06
Brewer's yeast	33	0.07
Common yeast cake	60	0.038
Saccharomyces cerevisiae	60	0.038
Saccharomyces ellipsoideus	60	0.038
Saccharomyces sp.	80	0.029
Mold Spores	Dose	k
Aspergillus flavus	600	0.003
Aspergillus glaucus	400	0.003
Aspergillus niger	1320	0.0014
Mucor racemosus A	170	0.013
Mucor racemosus B	170	0.013
Oospora lactis	50	0.046
Penicillium digitatum	440	0.004
Penicillium expansum	130	0.018
Penicillium roqueforti	130	0.018
Rhizopus nigricans	1110	0.002

## Specific Treatment Times for Bacteria and Viruses

Required UVC Dosage: See Below

Virus	Dose	k
Hepatitis A	73	0.032
Influenza Virus	36	0.064
MS-2 Coliphage	186	0.012
Polio virus	58	0.04
Rotavirus	8	0.028
Protozoa	Dose	k
Cryptosporidium parvum	25	0.092
Giardia lamblia	11	0.209
Algae	Dose	k
Bleu Green	3000	0.0008
Chlorella vulgaris	120	0.019

## Specific Treatment Times for Bacteria and Viruses

Required UVC Dosage: See Below

Bacteria	Dose	k
Bacillus anthracis	45.2	0.051
B. megatherium sp. (spores)	27.3	0.084
B. megatherium sp. (veg.)	13	0.178
B. paratyphosus	32	0.072
B. subtilis	71	0.032
B. subtilis spores	120	0.019
Campylobacter jejuni	11	0.209
Clostridium tetani	120	0.019
Corynebacterium diptheriae	33.7	0.069
Dysentery bacilli	22	0.105
Eberthella typhosa	21.4	0.108
Escherichia coli	30	0.077
Klebsiella terrifani	26	0.089
Legionella pneumophila	9	0.256
Micrococcus candidus	60.5	0.038
Micrococcus sphaeroides	100	0.023
Mycobacterium tuberculosis	60	0.038
Neisseria catarrhalis	44	0.053
Phytomonas tumefaciens	44	0.053
Psuedomonas aeruginosa	55	0.042
Psuedomonas fluorescens	35	0.065
Proteus vulgaris	26.4	0.086
Salmonella enteritidis	40	0.058
Salmonella aratyphi	32	0.072
Salmonella typhimurium	80	0.029
Sarcina lutea	197	0.012
Serratia marcescens	24.2	0.095
Shigella paradytenteriae	16.3	0.141
Shigella sonnei	30	0.077

## Specific Treatment Times for Bacteria and Viruses

Required UVC Dosage: See Below

Bacteria (continued)	Dose	k
Spirillum rubrum	44	0.053
Staphylococcus albus	18.4	0.126
Staphylococcus aureus	26	0.086
Streptococcus faecalis	44	0.052
Streptococcus hemolyticus	21.6	0.106
Streptococcus lactus	61.5	0.037
Streptococcus viridans	20	0.115
Shigella	40	0.057
Vibrio cholerae (V.comma)	35	0.066
Yersinia enterocolitica	11	0.209