

**BIOSPRAY SANITIZING & DISINFECTING SYSTEM RETURN ON INVESTMENT (ROI) / COST BENEFIT ANALYSIS
CALCULATIONS**

Chemical	Steri-Fab 1 L Bottles	Steri-Fab 1 L Bottles	Steri-Fab 1 L Bottles	Steri-Fab 1 L Bottles	Steri-Fab 1 L Bottles	Steri-Fab 1 L Bottles
Chemical Cost Per Oz	0.361	0.361	0.361	0.361	0.361	0.361
Square Feet	1000	1000	1000	1000	1000	1000
Application Rate ml/s.f.	9.13	3.791410256	3.791410256	4.739262821	4.739262821	4.739262821
ml to oz conversion	0.033814022701	0.033814022701	0.033814022701	0.033814022701	0.033814022701	0.033814022701
Daily Chemical Costs	\$ 111.52	\$ 46.31	\$ 46.31	\$ 57.89	\$ 57.89	\$ 57.89
Days Per year Treated	365	365	365	365	365	365
Annual Chemical Cost	\$ 40,705	\$ 16,903	\$ 16,903	\$ 21,129	\$ 21,129	\$ 21,129
Daily Chemical Usage (Liters)	9.13	3.79	3.79	4.74	4.74	4.74
Annual Chemical Usage (Liters)	3334	1384	1384	1731	1731	1731
Avg. Mo. Chemical Usage (Liters)	278	115	115	144	144	144
Avg. Mo. Chemical Usage (Cases 12x1)	23.15	9.61	9.61	12.02	12.02	12.02
Avg. Mo. Chemical Usage (Gallons)	73.4	30.5	30.5	38.1	38.1	38.1
Annual Chemical Usage (Gallons)	881	366	366	457	457	457

CO2/N	Zep FS RTU-D2 AX707	Commercial PSD-20RT	Commercial CN-80	Light Duty Healthcare LD-10H	Light Duty LD-10	Light Duty LD-5 Backpack
Application Speed (sec)	N/A	3.34	3.34	4.175	4.175	4.175
Square Feet	N/A	1000	1000	1000	1000	1000
Total Seconds per Day	N/A	3340	3340	4175	4175	4175
Minute Divider	N/A	60	60	60	60	60
Total Minutes Per Day	N/A	55.66666667	55.66666667	69.58333333	69.58333333	69.58333333
Lbs/cf per Minute	N/A	0.22	1.78	0.22	0.22	0.22
Cost per lb CO2 or cu ft N	N/A	0.42	\$0.06	1.00	1.00	1.50
Daily CO2 Costs	N/A	\$ 5.20	\$ 5.94	\$ 15.46	\$ 15.46	\$ 23.19
Days Per Year Treated	N/A	365	365	365	365	365
Yearly CO2 Cost	N/A	\$ 1,896.38	\$ 2,167.29	\$ 5,643.98	\$ 5,643.98	\$ 8,465.97

Time	Steri-Fab 1 L Bottles	Commercial PSD-20RT	Commercial CN-80	Light Duty Healthcare LD-10H	Light Duty LD-10	Light Duty LD-5 Backpack
Application Speed (sec)	7.49	3.34	3.34	4.175	4.175	4.175
Rub Required Speed (sec)	0.00	0.00	0.00	0.00	0.00	0.00
Food Grade Rinse Speed (sec)	0.00	0.00	0.00	0.00	0.00	0.00
Wipe Required Speed (sec)	0.00	0.00	0.00	0.00	0.00	0.00
Wipe By Protocol Speed (sec)*	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total Seconds	7.49	3.34	3.34	4.18	4.18	4.18
Square Feet	1000	1000	1000	1000	1000	1000
Total Seconds per Day	7490	3340	3340	4175	4175	4175
Minutes Divider	60	60	60	60	60	60
Minutes Per Day	124.83	55.67	55.67	69.58	69.58	69.58
Hours Divider	60	60	60	60	60	60
Daily FTE Hours	2.08	0.93	0.93	1.16	1.16	1.16
Number of FTE's Daily (7-Hr Day)	0.3	0.1	0.1	0.2	0.2	0.2
Days Per Year Treated	365	365	365	365	365	365
Annual FTE Hours	759	339	339	423	423	423
Base Wage (Hr)	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00
Payroll Burden	17.50%	17.50%	17.50%	17.50%	17.50%	17.50%
Total Hourly Wage	\$17.63	\$17.63	\$17.63	\$17.63	\$17.63	\$17.63
Total Hours Per Day	2.08	0.93	0.93	1.16	1.16	1.16
Total Hourly Wage	\$17.63	\$17.63	\$17.63	\$17.63	\$17.63	\$17.63
Daily Labor Cost	\$37	\$16	\$16	\$20	\$20	\$20
Total Hours Per Year	\$759	\$339	\$339	\$423	\$423	\$423
Total Hourly Wage	\$17.63	\$17.63	\$17.63	\$17.63	\$17.63	\$17.63
Annual Labor Cost	\$13,384	\$5,969	\$5,969	\$7,461	\$7,461	\$7,461
Daily Total	\$148	\$68	\$69	\$94	\$94	\$102
Annual Total	\$54,089	\$24,768	\$25,039	\$34,234	\$34,234	\$37,056
Square Feet	1000	1000	1000	1000	1000	1000
Days Per Year Treated	365	365	365	365	365	365
Cost Per Square Feet	\$0.148	\$0.068	\$0.069	\$0.094	\$0.094	\$0.102