Table 1-14—Atomization Parameters for CP High Volume Flat Fan Nozzle

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8010 Orifice, 0° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	471	M	1.0	490	M	0.9	494	M	1.3	482	M	1.9	456	M	3.0	415	M	4.4	359	M	6.1
30	428	M	3.6	454	M	3.1	466	M	3.0	462	M	3.3	443	M	3.9	409	M	4.8	360	M	6.1
40	380	M	6.6	414	M	5.7	432	M	5.2	436	M	5.0	425	M	5.1	399	M	5.6	357	M	6.5
50	327	VF	10.0	368	F	8.7	394	F	7.7	405	M	7.0	402	M	6.7	383	M	6.8	349	M	7.2
60	269	VF	13.8	317	VF	12.0	351	VF	10.5	370	F	9.5	373	F	8.7	362	F	8.4	335	F	8.4

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8010 Orifice, 10° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	484	C	1.9	501	C	1.8	503	C	2.0	489	C	2.6	461	M	3.6	418	M	5.0	359	M	6.6
30	452	M	4.2	476	C	3.7	485	C	3.5	479	C	3.6	458	M	4.2	423	M	5.1	372	M	6.3
40	414	M	6.9	446	C	5.9	463	C	5.3	464	C	5.0	451	C	5.1	422	M	5.6	379	M	6.4
50	372	F	10.0	411	F	8.6	435	M	7.5	444	C	6.8	438	C	6.4	417	M	6.4	381	M	6.8
60	324	VF	13.4	371	VF	11.6	402	F	10.1	419	F	8.9	420	M	8.1	407	M	7.7	378	M	7.6

CP HIGH VOLUME FLAT FAN NOZZLE 8010 Orifice, 20° Angle
ROTARY-WING

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	495	C	1.4	510	C	1.3	509	C	1.5	494	C	2.0	463	M	2.9	417	M	4.2	357	M	5.8
30	473	C	3.5	495	C	2.9	502	C	2.6	494	C	2.7	471	C	3.2	433	M	4.0	380	M	5.2
40	446	C	5.9	475	C	4.8	490	C	4.1	489	C	3.8	474	C	3.8	443	C	4.2	398	M	4.9
50	414	F	8.6	451	C	7.1	473	C	6.0	480	C	5.2	471	C	4.8	448	C	4.7	410	M	5.0
60	377	VF	11.8	421	F	9.8	450	M	8.2	465	C	7.0	464	C	6.2	448	C	5.7	418	M	5.5

CP HIGH VOLUME FLAT FAN NOZZLE 8015 Orifice, 0° Angle
ROTARY-WING

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	538	VC	1.2	557	VC	1.0	560	VC	1.1	548	VC	1.7	522	C	2.5	480	M	3.7	424	M	5.3
30	499	C	3.7	524	C	3.0	535	VC	2.7	531	C	2.8	512	C	3.2	478	M	4.0	429	M	5.2
40	454	M	6.5	487	C	5.4	506	C	4.7	509	C	4.3	497	C	4.3	471	M	4.6	429	M	5.3
50	404	F	9.7	445	F	8.2	471	C	7.0	482	C	6.2	477	C	5.7	458	M	5.6	424	M	5.9
60	349	VF	13.3	398	VF	11.3	431	F	9.7	449	F	8.5	452	M	7.6	441	M	7.0	414	M	6.8

CP HIGH VOLUME FLAT FAN NOZZLE 8015 Orifice, 10° Angle
ROTARY-WING

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	563	VC	2.1	579	VC	1.8	580	VC	1.9	567	VC	2.4	538	C	3.2	494	C	4.3	435	M	5.8
30	534	C	4.3	557	VC	3.6	566	VC	3.2	560	VC	3.2	539	VC	3.6	502	C	4.3	451	M	5.3
40	499	C	6.8	531	C	5.6	547	C	4.8	548	C	4.4	534	C	4.3	505	C	4.6	462	C	5.2
50	460	F	9.7	499	M	8.1	523	C	6.8	531	C	6.0	525	C	5.4	504	C	5.3	467	C	5.5
60	416	VF	13.0	462	F	10.9	493	F	9.2	509	C	7.9	510	C	6.9	496	C	6.3	468	C	6.1

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8015 Orifice, 20° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	584	VC	1.7	598	VC	1.4	598	VC	1.4	582	VC	1.7	551	C	2.5	505	M	3.6	444	M	5.0
30	566	VC	3.5	587	VC	2.8	594	VC	2.3	586	VC	2.3	562	VC	2.6	524	C	3.2	470	M	4.2
40	542	C	5.7	571	C	4.5	585	VC	3.7	584	VC	3.1	568	VC	3.0	537	VC	3.2	491	C	3.8
50	513	C	8.3	550	C	6.7	571	C	5.3	578	VC	4.4	569	VC	3.8	546	VC	3.6	507	C	3.7
60	479	F	11.3	524	M	9.2	553	C	7.4	566	C	6.0	565	C	5.0	549	VC	4.3	518	C	4.0

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8020 Orifice, 0° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	578	VC	1.6	596	VC	1.2	599	VC	1.2	587	VC	1.5	560	VC	2.2	518	C	3.3	461	M	4.7
30	542	C	3.9	567	VC	3.0	578	VC	2.6	573	VC	2.5	554	VC	2.7	519	C	3.3	470	C	4.3
40	501	C	6.5	534	C	5.3	552	C	4.4	555	C	3.8	543	VC	3.6	516	C	3.8	473	C	4.3
50	454	F	9.6	495	M	7.9	520	C	6.5	531	C	5.5	526	C	4.9	506	C	4.6	472	C	4.7
60	403	VF	13.0	451	F	10.8	484	F	9.0	502	C	7.6	504	C	6.5	492	C	5.8	465	C	5.4

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8020 Orifice, 10° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	614	VC	2.5	630	VC	2.1	631	VC	2.0	617	VC	2.2	587	VC	2.9	543	VC	3.8	484	M	5.2
30	588	C	4.5	611	VC	3.6	620	VC	3.1	613	VC	2.9	592	VC	3.1	555	VC	3.6	503	C	4.5
40	557	C	6.8	588	C	5.5	604	C	4.5	605	VC	3.9	591	VC	3.6	562	VC	3.7	517	C	4.2
50	521	F	9.5	560	C	7.8	583	C	6.3	591	C	5.3	585	C	4.6	563	VC	4.2	526	C	4.3
60	480	VF	12.6	526	F	10.4	557	C	8.5	573	C	7.0	574	C	5.9	559	C	5.1	530	C	4.7

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8020 Orifice, 20° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	647	VC	2.1	660	VC	1.6	659	VC	1.4	643	VC	1.6	612	VC	2.2	565	C	3.1	504	M	4.4
30	631	VC	3.7	653	VC	2.8	659	VC	2.2	650	VC	1.9	626	VC	2.1	588	VC	2.5	534	C	3.4
40	611	C	5.8	640	VC	4.4	654	VC	3.3	652	VC	2.6	636	VC	2.3	605	VC	2.4	558	VC	2.8
50	586	C	8.2	622	C	6.3	643	VC	4.8	649	VC	3.7	640	VC	3.0	617	VC	2.6	578	VC	2.5
60	555	F	10.9	599	C	8.7	628	C	6.7	641	VC	5.2	640	VC	4.0	623	VC	3.1	592	VC	2.6

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8025 Orifice, 0° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	591	VC	2.1	609	VC	1.6	611	VC	1.4	599	VC	1.5	572	VC	2.0	529	C	2.9	472	C	4.2
30	558	C	4.2	583	VC	3.2	593	VC	2.6	589	VC	2.3	569	VC	2.4	534	VC	2.8	484	C	3.6
40	520	C	6.7	553	C	5.3	571	C	4.2	573	VC	3.5	561	VC	3.1	533	VC	3.1	491	C	3.4
50	477	F	9.5	517	M	7.7	542	C	6.1	553	C	5.0	548	C	4.2	528	C	3.7	493	C	3.6
60	429	VF	12.8	477	F	10.4	509	M	8.5	527	C	6.9	529	C	5.6	517	C	4.7	489	C	4.2

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8025 Orifice, 10° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	638	VC	3.0	653	VC	2.4	654	VC	2.1	639	VC	2.2	610	VC	2.7	566	VC	3.5	506	C	4.7
30	615	C	4.8	638	VC	3.8	647	VC	3.0	640	VC	2.7	618	VC	2.7	581	VC	3.1	529	C	3.8
40	588	C	7.0	619	C	5.5	634	VC	4.3	635	VC	3.5	620	VC	3.1	590	VC	3.0	546	VC	3.3
50	556	M	9.5	594	C	7.6	616	C	6.0	624	VC	4.7	617	VC	3.9	595	VC	3.4	558	VC	3.2
60	518	F	12.4	563	F	10.0	594	C	8.0	609	C	6.3	610	VC	5.0	595	VC	4.1	565	VC	3.5

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8025 Orifice, 20° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	682	VC	2.6	695	VC	1.9	694	VC	1.6	677	VC	1.6	645	VC	2.0	599	VC	2.8	537	C	3.9
30	670	VC	4.1	691	VC	3.0	697	VC	2.2	688	VC	1.8	663	VC	1.7	624	VC	2.0	570	VC	2.7
40	653	C	5.9	681	VC	4.4	695	VC	3.2	693	VC	2.3	676	VC	1.8	645	VC	1.7	598	VC	1.9
50	631	C	8.2	667	C	6.1	688	VC	4.5	693	VC	3.2	684	VC	2.3	660	VC	1.7	621	VC	1.5
60	604	M	10.8	647	C	8.3	675	VC	6.2	689	VC	4.5	687	VC	3.1	670	VC	2.1	638	VC	1.4

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8030 Orifice, 0° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	577	VC	2.8	594	VC	2.0	596	VC	1.7	584	VC	1.7	556	VC	2.0	513	C	2.7	456	C	3.8
30	547	C	4.7	572	C	3.5	582	VC	2.7	577	VC	2.3	557	VC	2.2	521	C	2.4	471	C	3.1
40	513	M	7.0	545	C	5.4	562	C	4.1	565	VC	3.2	552	VC	2.7	524	C	2.5	481	C	2.7
50	473	F	9.7	513	M	7.6	538	C	5.9	547	C	4.6	542	C	3.6	522	C	3.0	486	C	2.7
60	428	VF	12.7	476	F	10.2	508	M	8.1	525	C	6.3	527	C	4.9	514	C	3.8	487	C	3.1

CP HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8030 Orifice, 10° Angle

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	635	VC	3.7	650	VC	2.9	650	VC	2.5	635	VC	2.4	605	VC	2.7	561	VC	3.3	501	C	4.3
30	616	C	5.3	638	VC	4.1	646	VC	3.2	639	VC	2.7	616	VC	2.5	579	VC	2.7	527	C	3.3
40	592	C	7.3	622	C	5.6	637	VC	4.3	637	VC	3.3	622	VC	2.7	592	VC	2.5	547	VC	2.6
50	563	F	9.6	600	C	7.5	623	C	5.8	630	VC	4.4	623	VC	3.3	601	VC	2.6	563	VC	2.3
60	528	F	12.4	573	M	9.8	603	C	7.6	619	C	5.8	619	VC	4.3	604	VC	3.1	574	VC	2.4

CP HIGH VOLUME FLAT FAN NOZZLE 8030 Orifice, 20° Angle
ROTARY-WING

PSI	Airspeed, mph																				
	30			40			50			60			70			80			90		
	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100	$D_{V0.5}$	DSC	%<100
20	690	VC	3.3	703	VC	2.4	701	VC	1.9	684	VC	1.8	652	VC	2.0	605	VC	2.6	543	C	3.5
30	681	VC	4.6	702	VC	3.3	707	VC	2.3	698	VC	1.7	673	VC	1.5	634	VC	1.7	579	VC	2.1
40	668	C	6.2	696	VC	4.5	709	VC	3.1	707	VC	2.1	690	VC	1.4	658	VC	1.1	611	VC	1.2
50	649	C	8.3	685	C	6.1	705	VC	4.3	710	VC	2.8	701	VC	1.7	676	VC	0.9	637	VC	0.5
60	625	M	10.7	668	C	8.1	696	VC	5.8	709	VC	3.9	707	VC	2.3	690	VC	1.1	658	VC	0.3