Table 1-13—Atomization Parameters for CP DR High Volume Flat Fan Nozzle

CP DR 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	787	VC	0.2	726	VC	0.5	663	VC	1.0	598	VC	1.6	530	C	2.4	460	C	3.4	387	M	4.5
30	790	VC	0.3	731	VC	0.5	669	VC	0.8	604	VC	1.3	537	VC	2.0	468	C	2.8	396	M	3.8
40	795	VC	0.5	737	VC	0.5	675	VC	0.8	612	VC	1.1	546	VC	1.7	478	C	2.4	407	M	3.2
50	802	VC	0.9	744	VC	0.8	684	VC	0.9	621	VC	1.1	556	VC	1.5	488	C	2.1	418	M	2.8
60	809	VC	1.4	752	VC	1.2	693	VC	1.1	631	VC	1.3	567	VC	1.6	501	C	2.0	431	M	2.6

CP DR 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	792	VC	0.4	731	VC	0.7	669	VC	1.1	603	VC	1.7	536	C	2.4	465	M	3.4	393	M	4.4
30	801	VC	0.5	741	VC	0.6	679	VC	0.9	615	VC	1.4	548	VC	2.0	479	C	2.8	407	M	3.7
40	811	VC	0.7	752	VC	0.7	691	VC	0.9	628	VC	1.2	562	VC	1.7	493	C	2.4	423	M	3.2
50	822	VC	1.1	765	VC	1.0	705	VC	1.0	642	VC	1.2	577	VC	1.6	510	C	2.1	440	M	2.8
60	835	VC	1.6	779	VC	1.4	719	VC	1.3	658	VC	1.4	594	VC	1.6	527	C	2.0	458	M	2.6

CP DR HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8010 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	805	EC	0.4	744	VC	0.6	682	VC	1.0	616	VC	1.5	549	VC	2.3	479	C	3.1	406	M	4.2
30	819	VC	0.5	759	VC	0.6	697	VC	0.8	633	VC	1.2	566	VC	1.8	497	C	2.6	426	M	3.5
40	834	VC	0.7	776	VC	0.7	715	VC	0.8	651	VC	1.1	585	VC	1.5	517	C	2.2	447	M	2.9
50	851	VC	1.1	793	VC	0.9	733	VC	0.9	671	VC	1.1	606	VC	1.4	539	C	1.9	469	M	2.6
60	869	VC	1.6	813	VC	1.4	753	VC	1.2	692	VC	1.3	628	VC	1.5	561	C	1.8	492	M	2.4

CP DR HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8015 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	851	EC	0.1	792	VC	0.3	731	VC	0.7	667	VC	1.3	601	VC	2.0	533	C	2.9	462	M	4.0
30	843	VC	0.2	786	VC	0.3	725	VC	0.6	663	VC	1.0	598	VC	1.6	530	C	2.4	460	M	3.3
40	838	VC	0.5	781	VC	0.5	721	VC	0.6	660	VC	1.0	595	VC	1.4	529	C	2.1	460	C	2.9
50	833	VC	1.0	777	VC	0.8	719	VC	0.9	658	VC	1.0	594	VC	1.4	529	C	1.9	461	C	2.6
60	830	VC	1.6	775	VC	1.3	717	VC	1.2	657	VC	1.3	595	VC	1.5	530	C	1.9	463	C	2.5

CP DR HIGH VOLUME FLAT FAN NOZZLE ROTARY-WING — 8015 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	859	EC	0.2	800	VC	0.4	739	VC	0.8	676	VC	1.3	610	VC	2.0	541	C	2.9	471	M	3.9
30	857	VC	0.4	799	VC	0.4	739	VC	0.7	676	VC	1.1	611	VC	1.6	544	VC	2.4	474	M	3.3
40	856	VC	0.7	799	VC	0.6	740	VC	0.7	678	VC	1.0	614	VC	1.4	548	VC	2.0	479	C	2.8
50	857	VC	1.1	801	VC	1.0	743	VC	1.0	682	VC	1.1	619	VC	1.4	553	VC	1.9	485	C	2.5
60	859	VC	1.8	804	VC	1.5	747	VC	1.3	687	VC	1.4	624	VC	1.5	560	VC	1.9	492	C	2.4

CP DR 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	875	EC	0.2	816	EC	0.3	755	VC	0.6	692	VC	1.1	626	VC	1.8	558	VC	2.6	487	M	3.5
30	878	EC	0.3	820	VC	0.3	760	VC	0.5	698	VC	0.9	633	VC	1.4	565	VC	2.1	496	C	3.0
40	883	VC	0.6	826	VC	0.5	767	VC	0.6	705	VC	0.8	641	VC	1.2	574	VC	1.8	506	C	2.5
50	889	VC	1.1	833	VC	0.9	774	VC	0.8	714	VC	0.9	651	VC	1.2	585	VC	1.6	517	C	2.2
60	896	VC	1.8	841	VC	1.4	784	VC	1.2	724	VC	1.2	661	VC	1.4	597	VC	1.7	530	C	2.1

CP DR 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	877	EC	0.1	820	EC	0.3	761	VC	0.6	699	VC	1.1	635	VC	1.8	569	VC	2.6	499	C	3.6
30	859	EC	0.3	803	VC	0.4	745	VC	0.6	684	VC	1.0	621	VC	1.5	555	VC	2.2	487	C	3.1
40	842	VC	0.7	787	VC	0.6	730	VC	0.7	670	VC	1.0	607	VC	1.4	543	VC	2.0	475	C	2.7
50	827	VC	1.3	773	VC	1.1	716	VC	1.0	657	VC	1.2	596	VC	1.5	532	VC	1.9	465	C	2.5
60	813	VC	2.0	760	VC	1.6	704	VC	1.5	646	VC	1.5	585	VC	1.7	522	C	2.0	457	C	2.5

CP DR 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	888	EC	0.2	832	EC	0.3	772	VC	0.6	711	VC	1.1	647	VC	1.7	580	VC	2.5	511	M	3.5
30	876	EC	0.4	820	VC	0.5	761	VC	0.6	700	VC	1.0	637	VC	1.5	572	VC	2.1	503	C	3.0
40	864	VC	0.8	809	VC	0.7	752	VC	0.8	692	VC	1.0	629	VC	1.4	565	VC	1.9	497	C	2.6
50	854	VC	1.4	800	VC	1.2	743	VC	1.1	684	VC	1.2	623	VC	1.4	559	VC	1.8	493	C	2.4
60	845	VC	2.1	792	VC	1.8	736	VC	1.6	678	VC	1.5	618	VC	1.6	555	VC	1.9	489	C	2.4

CP DR HIGH VOLUME FLAT FAN NOZZLE 8020 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	907	EC	0.1	851	EC	0.2	791	EC	0.5	730	VC	0.9	666	VC	1.5	599	VC	2.2	530	C	3.1
30	900	EC	0.3	844	EC	0.3	786	VC	0.5	725	VC	0.8	662	VC	1.2	596	VC	1.8	528	C	2.6
40	893	EC	0.8	838	EC	0.6	781	VC	0.6	721	VC	0.8	659	VC	1.1	594	VC	1.6	527	C	2.3
50	889	VC	1.3	834	VC	1.1	778	VC	0.9	719	VC	1.0	658	VC	1.2	594	VC	1.6	528	C	2.1
60	885	VC	2.1	832	VC	1.7	776	VC	1.4	718	VC	1.3	658	VC	1.4	595	VC	1.7	529	C	2.1