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Grain Flow Drying Capacities

The chart below gives approximate corn drying capacity of the Grain Flow with various combinations of bin diameter, heat rise, and fan and heater sizes. The chart is based on 50° F ambient temperature and 60% relative humidity with starting grain temperature of 50° F. Moisture removal is from 24% to 16 1/2%. Cooling will remove an additional 1% to 2% moisture content. When grain is dried in depths over 8', a Grain-Stir-Ator installed in conjunction with a Grain Flow (as shown) will increase drying efficiency.

Bin Size	Fan H.P.	Drying Rate Multipliers For More Fans		CFM	Static Pressure	Drying Capacity (BU/24 hrs.) Heat Rise Above Ambient Temperature					
		2 Fans	3 Fans			25	50	75	100	125	150
18'	5.0	1.2	NA	8700	2.7	590	1200	1840	2490	3160	3860
	7.5	1.2	NA	9800	3.2	670	1360	2070	2800	3560	4350
21'	5.0	1.4	NA	10000	2.1	680	1380	2110	2860	3640	4440
	7.5	1.4	NA	10800	2.3	740	1500	2280	3090	3930	4790
	10.0	1.3	NA	12000	2.7	820	1660	2530	3430	4360	5330
	12.5	1.4	NA	12900	3.0	880	1790	2720	3690	4690	5730
24'	7.5	1.6	NA	11400	1.7	780	1580	2410	3260	4150	5060
	10.0	1.5	NA	13000	2.0	890	1800	2740	3720	4730	5770
	12.5	1.5	NA	14000	2.3	950	1940	2950	4010	5090	6220
	10C	1.7	NA	12500	1.9	850	1730	2640	3580	4550	5550
	15C	1.6	NA	14900	2.5	1010	2060	3140	4260	5420	6610
	20C	1.6	NA	17700	3.3	1210	2450	3740	5060	6440	7860
27'	7.5	1.7	NA	11900	1.2	810	1650	2510	3400	4330	5280
	10.0	1.6	NA	13300	1.5	910	1840	2810	3810	4840	5900
	12.5	1.6	NA	14800	1.7	1010	2050	3120	4230	5380	6570
	10C	1.8	NA	12900	1.4	880	1790	2720	3690	4690	5730
	15C	1.7	NA	15600	1.9	1060	2160	3290	4460	5670	6930
	20C	1.7	NA	18500	2.4	1260	2560	3900	5290	6730	8210
	30C	1.6	NA	21400	3.1	1460	2960	4520	6120	7780	9500
30'	7.5	1.8	NA	12200	1.0	830	1690	2570	3490	4440	5420
	10.0	1.8	NA	13700	1.1	930	1900	2890	3920	4980	6080
	12.5	1.7	NA	15300	1.3	1040	2120	3230	4380	5560	6790
	10C	1.8	NA	13200	1.1	900	1830	2790	3780	4800	5860
	15C	1.7	NA	16100	1.4	1100	2230	3400	4610	5860	7150
	20C	1.7	NA	19100	1.9	1300	2640	4030	5460	6950	8480

	30C	1.7	NA	22100	2.3	1510	3060	4660	6320	8040	9810
33'	10.0	1.8	NA	13800	.9	940	1910	2910	3950	5020	6130
	12.5	1.8	NA	15600	1.0	1060	2160	3290	4460	5670	6930
	10C	1.8	NA	13400	.8	910	1860	2830	3830	4870	5950
	15C	1.8	NA	16400	1.1	1120	2270	3460	4690	5960	7280
	20C	1.8	NA	19500	1.4	1330	2700	4120	5580	7090	8660
	30C	1.8	NA	22600	1.8	1540	3130	4770	6470	8220	10030
36'	10.0	1.9	NA	13900	.7	950	1920	2930	3980	5060	6170
	12.5	1.8	NA	15900	.8	1080	2200	3360	4550	5780	7060
	10C	1.9	NA	13600	.7	930	1880	2870	3890	4950	6040
	15C	1.8	NA	16600	.9	1130	2300	3500	4750	6040	7370
	20C	1.8	NA	19800	1.1	1350	2740	4180	5660	7200	8790
	30C	1.8	NA	23000	1.4	1570	3180	4850	6580	8360	10210
42'	10.0	2.0	2.8	14000	.4	950	1940	2950	4010	5090	6220
	12.5	1.9	2.6	16200	.6	1100	2240	3420	4630	5890	7190
	15.0	1.9	2.7	16900	.6	1150	2340	3570	4840	6150	7500
	20C	1.9	2.6	20100	.8	1370	2780	4240	5750	7310	8920
	30C	1.9	2.6	23500	.9	1600	3250	4960	6720	8550	10430
	40C	2.2	2.7	27000	1.1	1840	3740	5700	7720	9820	11990
48'	10.0	2.0	2.9	14100	.3	960	1950	2980	4030	5130	6260
	12.5	1.9	2.7	16400	.5	1120	2270	3460	4690	5960	7280
	15C	1.9	2.8	17100	.4	1160	2370	3610	4890	6220	7590
	20C	1.9	2.8	20300	.5	1380	2810	4280	5810	7380	9010
	30C	1.9	2.7	23700	.6	1610	3280	5000	6780	8620	10520
	40C	2.0	2.8	27100	.8	1850	3750	5720	7750	9860	12030
	50C	1.9	2.7	32500	1.0	2210	4500	6860	9300	11820	14430

Capacities given are for shelled corn. Information on drying other grains is available from your DMC distributor. All multiple fans are in parallel. Multiply Drying Rate x .77 for 10 pt. removal. Multiply Drying Rate x 1.35 for 5 pt. removal. All multiple fan static pressures (where multipliers are shown) fall within acceptable performance guidelines.