

SPECIFICATIONS & CAPACITIES

MODELS	E300/E300h	E400/E400h	E500/E500h	E600/E600h
Dryer Holding Capacity (bu)	200	270	335	405
Additional Holding Capacity (bu)	90	120	150	180
Total Holding Capacity (bu)	290	390	485	585
Grain Column Thickness	14"	14"	14"	14"
Overall Height	15'-3"	15'-3"	15'-3"	15'-3"
Overall Width	7'-4"	7'-4"	7'-4"	7'-4"
Grain Column Length	12'-0"	16'-0"	20'-0"	24'-0"
Overall Length	21'-6"	25'-6"	31'-7"	35'-7"
Number of Fans	1 Centrifugal Fan	1 Centrifugal Fan	1 Centrifugal Fan	1 Centrifugal Fan
Fan Motor Size (3-ph power)	15 HP	20 HP	25 HP	30 HP
Fan Motor Size (1-ph power)	1 x 15 HP	2 x 10 HP	2 x 15 HP	2 x 15 HP
Level Auger Motor Size	3 HP	3 HP	3 HP	3 HP
Unload Auger Motor Size	1.5 HP	1.5 HP	1.5 HP	1.5 HP
Avg Operating Burner Capacity (MMBTU/hr) ³ - All Heat Mode	2.92	3.89	4.86	5.83
Max Operating Burner Capacity (MMBTU/hr) ⁴ - All Heat Mode	3.89	5.18	6.48	7.78
Drying Capacity - All Heat Mode (shelled corn, 20%-15%) ^{1,2,5}	up to 550 bu/hr	up to 730 bu/hr	up to 910 bu/hr	up to 1,100 bu/hr
Drying Capacity - All Heat Mode (shelled corn, 25%-15%) ^{1,2,5}	up to 270 bu/hr	up to 360 bu/hr	up to 445 bu/hr	up to 535 bu/hr
Avg Operating Burner Capacity (MMBTU/hr) ³ - Heat + Cool Mode	1.99	2.65	3.24	3.89
Max Operating Burner Capacity (MMBTU/hr) ⁴ - Heat + Cool Mode	2.65	3.53	4.32	5.18
Drying Capacity - Heat + Cool Mode (shelled corn, 20%-15%) ^{1,5}	up to 310 bu/hr	up to 410 bu/hr	up to 510 bu/hr	up to 610 bu/hr
Drying Capacity - Heat + Cool Mode (shelled corn, 25%-15%) ^{1,5}	up to 175 bu/hr	up to 230 bu/hr	up to 290 bu/hr	up to 345 bu/hr

¹Based on 220 deg F heat plenum(s) temperature.

²Discharging at 17% moisture.

³ Average operating burner capacities are based on a 150 deg F temperature rise. ⁴ Max operating burner capacities are based on a 200 deg F temperature rise.

⁵ The information contained herein is intended to assist our customers select the grain drying system that they believe best meets their unique preferences and needs. The performance figures and capacities presented in this document are only estimates, based on calculated simulations, and do not constitute express or implied warranties. Many factors influence the grain drying process, including ambient temperature, relative humidity, grain variety, grain quality, grain temperature, dryer operating temperatures, dryer additions and accessories, and dryer condition, maintenance and operation.

⁶ Add 24" for a 24" dryer stand set or 36" for a 36" dryer stand set.

⁷ Add 1'-0" if remote cabinet is mounted to the dryer.

At Mathews Company, we continuously strive to improve our products. Accordingly, changes may occur that are not reflected in the specifications and capacities contained in this brochure.



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**GRAIN DRYER
 SPECIALISTS**