

SPECIFICATIONS & CAPACITIES

MODELS ¹	E300 / E300h / E300hc	E400 / E400h / E400hc	E500 / E500h / E500hc	E600 / E600h / E600hc
Dryer Holding + Additional Holding = Total Holding Capacity, bu (m ³)	205 + 95 = 300 (7.2 + 3.3 = 10.5)	275 + 125 = 400 (9.7 + 4.4 = 14.1)	345 + 155 = 500 (12.2 + 5.5 = 17.7)	415 + 185 = 600 (14.6 + 6.5 = 21.1)
Grain Column Thickness, (cm)	14" (35.6)	14" (35.6)	14" (35.6)	14" (35.6)
Overall Height ² / Width, (m)	15'-3" (4.6) / 7'-4" (2.2)	15'-3" (4.6) / 7'-4" (2.2)	15'-3" (4.6) / 7'-4" (2.2)	15'-3" (4.6) / 7'-4" (2.2)
Grain Column / Overall Length ³ , (m)	12'-0" (3.7) / 21'-6" (6.6)	16'-0" (4.9) / 25'-6" (7.8)	20'-0" (6.1) / 31'-7" (9.6)	24'-0" (7.3) / 35'-7" (10.8)
Level Auger Motor Size, HP (kW)	3 (2.2)	3 (2.2)	3 (2.2)	3 (2.2)
Unload Auger Motor Size, HP (kW)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)
Number of Fans	1 Centrifugal Fan	1 Centrifugal Fan	1 Centrifugal Fan	1 Centrifugal Fan
3-ph Fan Motor Size, HP (kW)	15 (11.2)	20 (14.9)	25 (18.6)	30 (22.4)
3-ph Electrical Full Load Amps, 208V / 230V / 460V / 575V (380V)	80 / 74 / 36 / 37 (42)	97 / 89 / 43 / 43 (52)	112 / 102 / 50 / 48 (59)	127 / 116 / 57 / 54 (68)
1-ph Fan Motor Size, HP (kW)	1 x 15 (11.2)	2 x 10 (7.5)	2 x 15 (14.9)	2 x 15 (14.9)
1-ph Electrical Full Load Amps, 230V	118	131	180	180
ALL-HEAT MODE	E300 / E300h	E400 / E400h	E500 / E500h	E600 / E600h
Avg / Max Operating Burner Capacity, MMBTU/hr (kW thermal) ⁴	2.92 / 3.89 (856 / 1,140)	3.89 / 5.18 (1,140 / 1,518)	4.86 / 6.48 (1,424 / 1,899)	5.83 / 7.78 (1,709 / 2,280)
Capacity, Shelled Corn, 20%-15% ^{5,6,7,8} wet bushels/hr (wet metric tonnes/hr) dry bushels/hr (dry metric tonnes/hr)	up to 575 (14.2) 550 (13.1)	up to 760 (18.8) 730 (17.4)	up to 945 (23.4) 910 (21.7)	up to 1,145 (28.3) 1,100 (26.3)
Capacity, Shelled Corn, 25%-15% ^{5,6,7,8} wet bushels/hr (wet metric tonnes/hr) dry bushels/hr (dry metric tonnes/hr)	up to 300 (7.9) 270 (6.4)	up to 400 (10.6) 360 (8.6)	up to 495 (13.1) 445 (10.6)	up to 595 (15.7) 535 (12.8)
HEAT + COOL MODE	E300 / E300hc	E400 / E400hc	E500 / E500hc	E600 / E600hc
Avg / Max Operating Burner Capacity, MMBTU/hr (kW thermal) ⁴	1.99 / 2.65 (583 / 777)	2.65 / 3.53 (777 / 1,035)	3.24 / 4.32 (950 / 1,266)	3.89 / 5.18 (1,140 / 1,518)
Capacity, Shelled Corn, 20%-15% ^{5,7,8} wet bushels/hr (wet metric tonnes/hr) dry bushels/hr (dry metric tonnes/hr)	up to 330 (8.2) 310 (7.2)	up to 435 (10.8) 410 (9.6)	up to 540 (13.4) 510 (11.9)	up to 650 (16.1) 610 (14.2)
Capacity, Shelled Corn, 25%-15% ^{5,7,8} wet bushels/hr (wet metric tonnes/hr) dry bushels/hr (dry metric tonnes/hr)	up to 200 (5.3) 175 (4.1)	up to 260 (6.9) 230 (5.4)	up to 330 (8.7) 290 (6.8)	up to 390 (10.3) 345 (8.0)

¹ Dryer models can be configured as heat + cool or all-heat (E300, E400, E500, E600), all-heat only (E300h, E400h, E500h, E600h), or heat+cool only (E300hc, E400hc, E500hc, E600hc).

² Add 24" (61m) for a 24" dryer stand set or 36" (92m) for a 36" dryer stand set.

³ Add 1'-0"(.30m) if remote cabinet is mounted to the dryer.

⁴ Operating burner capacities are based on a 150 deg F (83 deg C) temperature rise for average and 200 deg F (111 deg C) temperature rise for maximum.

⁵ Based on 220 deg F (104 deg C) heat plenum(s) temperature.

⁶ Discharging at 17% moisture.

⁷ Capacities in metric tonnes/hr are based on a grain bulk density of: 749 kg/m³ (wet @ 25% moisture), 703 kg/m³ (wet @ 20% moisture), 677 kg/m³ (dry @ 17% moisture), 661 kg/m³ (dry @ 15% moisture).

⁸ The information contained herein is intended to assist our customers in selecting 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 add-ons and accessories, and dryer condition, maintenance and operation.



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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