

MODULAR TOWER SERIES

SPECIFICATIONS & CAPACITIES

MODELS	10530	10740	10950	101160	101375	12-20-100	12-24-125	12-28-150
Heat Section Holding Capacity, bu (m ³)	331 (11.7)	442 (15.5)	596 (20.9)	740 (25.9)	853 (29.9)	1,024 (36.0)	1,293 (45.4)	1,535 (53.9)
Cool Section Holding Capacity, bu (m ³)	111 (3.9)	176 (6.2)	199 (7.0)	232 (8.1)	296 (10.4)	391 (13.7)	444 (15.6)	525 (18.4)
Wet Hopper Holding Capacity, bu (m ³)	140 (4.9)	140 (4.9)	140 (4.9)	140 (4.9)	140 (4.9)	335 (11.8)	335 (11.8)	335 (11.8)
Total Holding Capacity, bu (m ³)	582 (20.5)	758 (26.5)	935 (32.7)	1,112 (38.9)	1,289 (45.1)	1,750 (61.5)	2,072 (72.8)	2,395 (84.1)
Total Height, (m) ¹	34'-4" (10.5)	42'-5" (12.9)	50'-6" (15.4)	58'-6" (17.8)	66'-7" (20.3)	74'-11" (22.8)	87'-0" (26.5)	99'-2" (30.2)
Fill Height, (m) ¹	32'-4" (9.9)	40'-5" (12.3)	48'-5" (14.8)	56'-6" (17.2)	64'-7" (19.7)	71'-11" (21.9)	84'-0" (25.6)	96'-2" (29.3)
Diameter, (m)	9'-9" (3.0)	9'-9" (3.0)	9'-9" (3.0)	9'-9" (3.0)	9'-9" (3.0)	11'-8" (3.6)	11'-8" (3.6)	11'-8" (3.6)
Grain Column Thickness, (cm)	12" (30.5)	12" (30.5)	12" (30.5)	12" (30.5)	12" (30.5)	12" (30.5)	12" (30.5)	12" (30.5)
Number of External Walkways	1	1	2	3	3	3	4	5
Grain Exchanger	N/A	N/A	Optional	Optional	Optional	Optional	Optional	Optional
Average Operating Burner Capacity, MMBTU/hr (kW thermal) ²	3.37 (988)	4.41 (1,289)	5.96 (1,742)	7.26 (2,122)	8.04 (2,350)	11.70 (3,429)	14.20 (4,162)	16.50 (4,836)
Max Operating Burner Capacity, MMBTU/hr (kW thermal) ³	4.49 (1,316)	5.88 (1,718)	7.95 (2,323)	9.68 (2,829)	10.89 (3,183)	15.70 (4,601)	18.90 (5,539)	22.10 (6,477)
Max Nameplate Burner Capacity, MMBTU/hr (kW thermal)	6.00 (1,758)	9.50 (2,776)	10.50 (3,069)	12.50 (3,653)	12.50 (3,653)	25.00 (7,327)	27.00 (7,913)	27.00 (7,913)
Electrical Load, Amps 230V / 460V (380V)	118 / 59 (71)	153 / 77 (92)	180 / 90 (109)	204 / 102 (124)	243 / 121 (149)	301 / 155 (182)	414 / 211 (251)	449 / 228 (272)
Fan Airflow, CFM (m ³ /hr)	26,700 (45,363)	35,100 (59,636)	47,200 (80,194)	59,500 (101,092)	64,700 (109,927)	90,000 (152,912)	109,000 (185,193)	128,000 (217,474)
Number of Fans	1	1	1	1	1	1	1	1
Fan Motor Size, HP (kW)	30 (22.4)	40 (29.8)	50 (37.3)	60 (44.7)	75 (55.9)	100 (74.6)	125 (93.2)	150 (112)
Capacity, Shelled Corn, 20%-15% ⁴ wet bushels/hr (wet metric tonnes/hr) ⁵ dry bushels/hr (dry metric tonnes/hr) ⁵	up to 745 (18.4) 700 (16.3)	up to 990 (24.5) 930 (21.7)	up to 1,320 (32.7) 1,240 (28.9)	up to 1,595 (39.5) 1,500 (35.0)	up to 1,810 (44.8) 1,700 (39.6)	up to 2,125 (52.6) 2,000 (46.6)	up to 2,550 (63.1) 2,400 (55.9)	up to 2,980 (73.8) 2,800 (65.3)
Capacity, Shelled Corn, 25%-15% ⁴ wet bushels/hr (wet metric tonnes/hr) ⁵ dry bushels/hr (dry metric tonnes/hr) ⁵	up to 455 (12.0) 400 (9.3)	up to 615 (16.2) 540 (12.6)	up to 820 (21.6) 720 (16.8)	up to 990 (26.1) 870 (20.3)	up to 1,135 (29.9) 1,000 (23.3)	up to 1,315 (34.7) 1,160 (27.0)	up to 1,575 (41.6) 1,390 (32.4)	up to 1,840 (48.5) 1,620 (37.8)

¹Grain exchanger option adds 3'-0" (.91m) to models 10950 - 101375 and 4'-0" (1.22m) to models 12-20-100 - 12-28-150.

²Average burner Capacities based on 150 deg F (83 deg C) temperature rise and 20% reclamation efficiency.

³Max burner Capacities based on 200 deg F (111 deg C) temperature rise and 20% reclamation efficiency.

⁴The information contained in this brochure 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 brochure 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.

⁵Capacities in metric tonnes/hr are based on a grain bulk density of: 749 kg/m³ (wet @ 25% moisture), 703 kg/m³ (wet @ 20% moisture), 661 kg/m³ (dry @ 15% moisture).



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.

Your Authorized M-C Dealer is:



Mathews Company
www.mathewscompany.com

Crystal Lake, IL
phone: 1-815-459-2210
fax: 1-815-459-5889

email: mcsales@mathewscompany.com