

M-C Tower Dryers Feature Fast, Easy Modular On-Site Construction...



Specifications & Capacities

MODEL	10520	10630	10730	10840	101050	101275
Total Height	32'7"	36'-8"	40'-8"	44'-8"	52'-10"	60'-11"
Diameter	9'-9"	9'-9"	9'9"	9'-9"	9'-9"	9'-9"
Weight (lbs)	8,150	9,100	10,000	11,000	13,300	15,100
Grain Column Thickness	12"	12"	12"	12"	12"	12"
Holding Capacity (bu)	606	695	790	873	1,049	1,225
Diameters with Walkways	15'-9"	15'-9"	15'-9"	15'-9"	15'-9"	15'-9"
Number of Outside Walkways	-	-	-	2	3	3
Max Burner Capacity (MMBTU/hr)	5.3	6.6	7.5	9.2	11.2	13.6
Average Burner Capacity (MMBTU/hr)	2.9	3.6	4.1	5.1	6.2	7.5
Number of Fans	1	1	1	1	1	1
Fan Motor Size (HP)	20	30	30	40	50	75
Electrical Load (208V/3ph/60Hz)	104 Amps	131 Amps	131 Amps	167 Amps	196 Amps	266 Amps
Electrical Load (230V/3ph/60Hz)	95 Amps	118 Amps	118 Amps	152 Amps	176 Amps	241 Amps
Electrical Load (460V/3ph/60Hz)	48 Amps	59 Amps	59 Amps	76 Amps	89 Amps	121 Amps
Capacity (bu/hr)						
(shelled corn, 20%-15% w.b.)	560	690	790	945	1,155	1,385
(shelled corn, 22%-15% w.b.)	440	540	620	740	900	1,085
(shelled corn, 25%-15% w.b.)	320	395	455	545	670	805

The 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.

At Mathews Company, we are continuously striving 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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10' Diameter Vacuum Cool Tower Dryers

6 Energy Saving Models
 with Capacities from
 560 BPH to 1385 BPH



With a Foundation in Place, All M-C 10' Diameter Tower Dryers Go Up In One Day

Grain Dryer Specialists For Nearly 60 Years

Innovation • Expertise • Quality



Mathews Company

The Energy Efficient Solution

M-C Tower Dryers...Designed and Built to Lower Input Costs & Add Profit to Your Harvest



1 Inside and outside ladders, cages and walkways (optional on some models) provide easy, safe access to all areas of the dryer.



2

4 Maxon® NP burners with engineered profiling provide even, efficient heat at low pressures throughout plenum chamber. Sectional construction and stainless steel air diffusers provide years of dependable service.

3 Aluminum screens and heavy duty construction deliver long life and years of dependable service.



5 Standard sloped floors help promote dryer cleanliness.



6 Quiet 1750 RPM blowers deliver certified, proven airflows for maximum efficient grain drying.



7 Gas manifold with microprocessor controlled electronic gas proportional valve allows complete control of plenum temperature for all grains to be dried. No matter how the outside temperature changes, a constant plenum temperature is automatically maintained. Digital readout on microprocessor displays plenum temperature and set point during dryer operation.



8 AC Inverter driven sweep arms control the unload rate of the dryer. No restricted flow of grain, no plugging. With every sweep arm pass, stainless steel grain discharge deck is cleaned.



Energy saving M-C Tower Dryers are engineered to deliver the benefits that are most important to producers and commercial dryer operators. With fewer moving parts and vacuum cooling, M-C Tower Dryers raise the bar to set a new standard in simplicity, environmental acceptability, reliability and efficiency.

Vacuum cooling is key to the popularity and success of M-C Tower Dryers. Reclaiming heated air from cooling the grain results in less fuel usage and significant dollar savings. After blending with ambient air drawn from outside, the pre-heated air is returned to the blowers, lowering energy consumption and producing maximum efficiency.

M-C Tower Dryers give maximum capacity while taking up less valuable square footage in your grain set up. Easy to operate, clean and quiet, reliable and efficient... M-C Tower Dryers provide the best means to lower input costs and add profit to your harvest.



9 Four averaging RTD sensors, with signal enhanced transmission, ensure accurate grain sensing and automatic discharge control.



10 Standard on all models are the grain sample tube, moisture sensor and grain flow viewing window, mounted on center grain discharge.

ADDITIONAL FEATURES:

Optional grain exchangers equalize moisture and temperature in the grain column. (Adds 2' to height of dryer.)

Printed numbers on each electrical wire make for easy reference and tracing of all dryer functions.

PINNACLE LITE TruDry Technology



Easy to Use!

- 5.7 inch full color touch screen, programmed with a simple, intuitive interface.
- Dryer discharge rate can be operated in manual or automatic mode. Switch modes with a single touch.
- Clear, easy to understand operation and alarm setpoints.
- Maintains a history of warnings and alarms.



Accurate and Advanced!

- Four state-of-the-art RTD sensors with signal-enhanced transmission ensure accurate grain sensing.
- Ethernet switch provides remote monitoring capabilities.
- USB port available for data transfer.
- NEMA IV rated control cabinet can be located remotely up to 300 feet from the dryer.

Reliable Built-In Failsafe!

In the event of a PLC system failure, the dryer can be operated in manual override mode.

Even if the unthinkable happens, you will always be able to dry grain!