

Infinity Series

9 Low Profile Models with capacities from 185 BPH to 900 BPH



Innovation • Expertise • Quality

Infinity Series Specifications & Capacities

Specifications	CF 320	CF 420	CF 520	CF 620	CF 620C	CF 720	CF 730	CF 820	CF 820C
Holding Capacity	200 bu	281 bu	375 bu	375 bu	375 bu	375 bu	470 bu	562 bu	562 bu
Grain Column Thickness	12"	12"	12"	12"	12"	12"	12"	12"	12"
Grain Column Length	8'-0"	12'-0"	16'-0"	16'-0"	16'-0"	16'-0"	20'-0"	24'-0"	24'-0"
Burner Capacity (heat+cool)	2.00 MMBTU/hr	2.23 MMBTU/hr	2.58 MMBTU/hr	N/A	N/A	3.32 MMBTU/hr	3.81 MMBTU/hr	4.41 MMBTU/hr	N/A
Burner Capacity (all heat)	2.99 MMBTU/hr	3.42 MMBTU/hr	3.97 MMBTU/hr	4.41 MMBTU/hr	3.88 MMBTU/hr	5.67 MMBTU/hr	7.13 MMBTU/hr	7.73 MMBTU/hr	4.77 MMBTU/hr
Fan(s) Configuration	(1) Axial	(1) Axial	(1) Axial	(1) Axial	(1) Centrifugal	(2) Axial	(2) Axial	(2) Axial	(1) Centrifugal
Fan Motor Size	10 HP	15 HP	20 HP	20 HP	20 HP	10 HP / 7.5 HP	15 HP / 10 HP	20 HP / 10 HP	30 HP
Level Auger Motor Size	N/A	3 HP	3 HP	3 HP	3 HP	3 HP	3 HP	3 HP	3 HP
Unload Auger Motor Size	1.5 HP	1.5 HP	1.5 HP	1.5 HP	1.5 HP	1.5 HP	1.5 HP	1.5 HP	1.5 HP
Operating Height (on skids)	15'-2"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"	14'-6"
Overall Length	14'-6"	18'-6"	22'-6"	22'-6"	22'-6"	22'-6"	26'-6"	30'-6"	30'-6"
Overall Width	7'-5"	7'-5"	7'-5"	7'-5"	7'-5"	7'-5"	7'-5"	7'-5"	7'-5"
Electrical Load (230V/1ph/60HZ)	92 Amps	136 Amps	152 Amps	152 Amps	152 Amps	92 Amps	176 Amps	192 Amps	N/A
Electrical Load (230V/3ph/60HZ)	68 Amps	93Amps	108 Amps	108 Amps	108 Amps	96 Amps	118 Amps	133 Amps	136 Amps
Maximum Capacities (Bushels Per Hour, Wet Basis)									
Shelled Corn, heat+cool, 25%-15%	120	165	215	N/A	N/A	215	295	375	N/A
Shelled Corn, heat+cool, 20%-15%	185	255	325	N/A	N/A	325	415	510	N/A
Shelled Corn, all heat, 25%-15% ¹	200	300	400	N/A	N/A	400	485	575	575
Shelled Corn, all heat, 22%-15% ¹	290	400	510	510	510	510	655	805	805
Shelled Corn, all heat, 20%-15% ¹	325	445	565	565	565	565	730	900	900
Wheat, heat+cool, 17%-12%	195	260	325	N/A	N/A	325	410	500	N/A
Sorghum, heat+cool, 20%-15%	175	235	300	N/A	N/A	300	375	450	N/A

The information contained in this brochure 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 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.

¹ It is generally recognized that grain discharged hot at 17.5% moisture will result in approximately 15% moisture after steeping and cooling.



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Grain Dryer Specialists For Nearly 60 Years





Infinity Series Features

M-C Dryers For Every Application

Mathews Company

PINNACLE LITE | TruDry Technology

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!

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

- 1 Level auger drive with motorized binicator grain level control for positive, reliable grain flow to the dryer.
- 2 8" level auger with Super-Edge Flighting mounted on oil impregnated wood block bearings for long life and dependability. Fines distribution pan under grain inlet distributes fines evenly throughout the dryer for more even drying. Front fill loading is an available option.
- 3 Totally enclosed galvanized wet grain hopper assembly keeps the drying columns full requiring fewer fill cycles. There is no heat loss because of exposed screens waiting for grain. Also, the environment is kept clean.
- 4 Varying upper slope column width begins at 16" and narrows gradually to 12" before entering vertical grain columns. Wider grain column in sloped area just below the wet hopper, where grain is the wettest and less compacted, assures even air flow through the complete drying process.
- 5 Axial fan models include 36" diameter, 1750 RPM, aluminum cast fans for many years of quiet, dependable service. (Fan guard removed for illustration.)
- 6 Low pressure, high efficiency Maxon® burners are standard on all vane axial fan models.
- 7 Centrifugal fan Models 620C and 820C feature 1750 RPM double wheel, double inlet centrifugal fans with twin, adjustable venturi burners, and flex coupler between fan shaft and motor shaft for easy serviceability.
- 8 NEMA IV high voltage cabinet with main disconnect protects motor starters, thermal overloads and electrical components from weather and dirt.



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.
- Discharge moisture printer is standard.



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 150 feet from the dryer.

- 9 NEMA IV rated control cabinet with Pinnacle Lite TruDry Technology can be located remotely up to 150 feet from the dryer.
- 10 Galvanized screens are standard. Optional aluminum or stainless steel screens are available.
- 11 Plenum chamber access doors provide burner viewing ports.
- 12 Quick dump drain ports permit easy, fast unloading if necessary and may qualify for reduced insurance rate.
- 13 Metering roll access ports inside of dryer.
- 14 Discharge auger safety shut off and grain sampler collector.
- 15 Aluminum extruded metering rolls unload grain evenly the full length of the grain columns. Variable Frequency Drive (VFD) controls metering roll speed.
- 16 Heavy duty 10" U-trough design unload auger comes with 1/2" Super-Edge Flighting and quick release hinged unload auger pans. Auger is supported every 8' by oil impregnated wood block bearings for easy cleanout.
- 17 Heavy welded steel base provides strength and support.
- 18 Steel dryer support stands in 24" or 36" are an available option for all Infinity Dryers.
- 19 Printed numbers on each electrical wire make for easy reference and tracing of all dryer functions. Numbers repeat every 4 to 6 inches.

