

# Grain Dryers

Single Fan & Heater ■ Dual Fan Heater ■ Stacked Module





- Balanced Moisture
- Accurate Moisture Sensing
- Easy Operation
- Higher Quality Grain
- Heavier Test Weights

#### Speed & Quality

The patented Quad Metering Roll System, standard on every Sukup Grain Dryer, has taken grain drying to the next level. You no longer have to sacrifice grain quality for speed. The Sukup Grain Dryer with Quad Metering Rolls gives you both.

In traditional dryers (with only one metering roll per side) the inner layers are over-dried and the outer layers are underdried. This means a great deal of blending occurs. It also means that the kernels on the inside are much

hotter. This intense heat can result in stress cracks and lower quality grain.

> All grain moves down the column at the same speed, resulting in over-dried grain next to the inner wall.

> > Metering roll speed varies depending upon an averaging of kernel temperatures.

> > > One metering roll per side.

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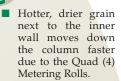
Only one dryer on the market can reduce this moisture variation and maintain grain quality without blocking airflow or creating spots for debris to accumulate. That dryer is the Sukup Dryer with Quad Metering Rolls.

#### How Does It Work?

By using two metering rolls in each dryer column, Sukup is able to pull the grain down the columns at different speeds. With Sukup's Quad Metering Rolls, the inner, hotter layer of grain is pulled down the column faster than the outer, cooler layer. The process produces more

even moisture content of the dried grain, minimizes damage, and maintains higher test weights and overall quality. "Basically, you just follow the step-by-step instructions, and do what that read-out tells you to do and it's almost goof-proof...The operation of the dryer is very simple."

- Dave Starkey Brownsburg, IN



- The Quad Metering Rolls won an AE50 Award from the American Society of Agricultural Engineers for outstanding engineering innovations in agriculture.
- Metering roll speed varies depending upon the actual moisture content of the discharged grain.
- Two metering rolls per side.

#### **Quad Metering Rolls**



"Our corn quality this year was probably the best we've ever had. It was all consistent moisture, test weight was good, quality was just superb."



# Advanced

#### **Easy Operation is Key**

- Step-by-step instructions lead you through all keypad functions.
- A large, 4-line LCD read-out means you can read the instructions and monitor the plenum temperature without a magnifying glass.
- The keypad is contoured and large enough to use while wearing gloves.
- Advanced self-diagnostics tell you when there is a problem and suggest corrections.
- The standard printer records important operation data.
- As an option, the control box can be remotely located.
- Optional monitoring and some operational control of your Sukup Dryer from a personal computer or laptop is also available.

#### **Unmatched Performance**

The Sukup Dryers' computerized controls were designed to eliminate around-the-clock monitoring and increase productivity and efficiency.

The Liquid Crystal Display (LCD) on the controller supplies constant output information and the printer provides a permanent record of important

performance data. Integrated self-diagnostics make trouble-shooting a breeze.



#### **Continuous Flow or Batch Mode**

While most operators use continuous flow, there are a few who prefer to run in batch mode. For those people, Sukup has incorporated an AutoBatch program into the computerized controls.

The AutoBatch program allows you to perform heat/cool operations with a single fan unit. This can be beneficial in situations where the dried grain is being transferred to a bin without a full floor.

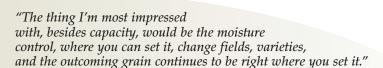
### Automatic Moisture Control is Standard

Sukup was the first company to make true moisture sensing standard on its dryers. Sampling the grain moisture, rather than grain temperature, gives a more

accurate measure of drying progress, and results in more consistent final moisture content. (For economical, temperature-based drying, ask about our Streamline Dryer.)

Moisture content information is collected from the sensor located in the discharge tube and critical adjustments are made to the metering roll speeds in order to maintain your desired discharge moisture content.









**Con.tin.u.ous Flow with Dry.er.a.tion** 1. the process of drying grain to a set point above the desired final moisture content, then removing the grain from the dryer and placing it in a cooling bin to "steep", allowing the remaining one to two points of moisture to migrate to the outer portion of the kernel, where it is easily removed by Sukup aeration fans. 2. a much more gentle way to dry grain and prevent kernel damage.

#### **Proven Performance**

Proven 1750 RPM Sukup Fans and Heaters supply the air and heat needed to make our dryers effective. The 1750 RPM fans operate quietly as compared to 3500 RPM fans. Sukup fans and heaters are well-known within the agricultural industry

for their high airflow, efficient operation and excellent quality. In fact, not only has Sukup been well-known for their fans, but they have also been a leader in grain drying and aeration fans for many years because of their top performance and reliability.



#### Efficient, Even Heat

Extensive testing has produced a starfire-type burner that provides critical gas and air mixture for higher efficiency and even heat distribution. Sukup's exclusive two-way adjustable vaporizer allows operation over a wider range of outside temperatures.

### Easy Adjustments and Flexibility

Electronic modulating valve heater control provides computer-controlled gas flow to the burner to maintain the



plenum temperature you select. Plenum temperature can

be easily adjusted from the control box. It also allows greater flexibility for drying a wider range of incoming grain moisture levels.

# Drying

"We started off the season drying 28-30% corn. It worked excellent. We probably wouldn't have attempted to dry that with our old system."





"We're not getting any damage at all with (the Sukup Dryer). In fact, this year we're going to put white corn through it."

- Johnny Vickers Livermore, KY

#### **Power Distribution Box**

- The power distribution box is galvanized and sealed.
- All electrical components are protected against transient voltage, spikes and surges.
- A main circuit breaker disconnect is standard for safe installation and service of the unit.
- A large safety stop button on the outside of the control box allows for immediate shut-down in emergency situations.



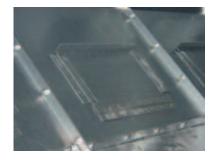
#### Easy Access

Large 4' interior doors (right) allow quick and easy access to the unload auger and metering rolls.

Large door (below) allows easy clean-out of the plenum area.







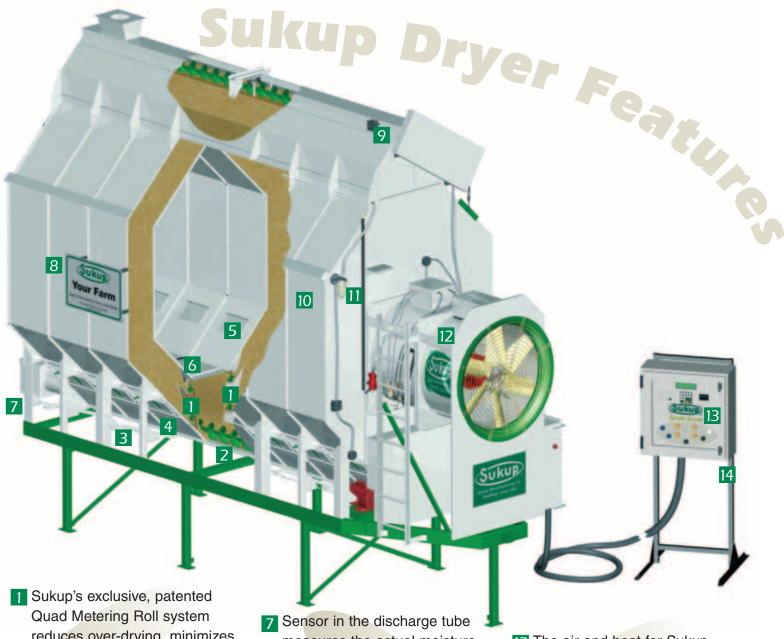
A slide-out door on each column allows easy, convenient access to the upper metering rolls.

#### **Centrifugal Dryers**

If quiet operation is a requirement for your grain drying system, take a look at the Sukup Centrifugal Dryer. The Sukup Centrifugal Dryer features the same exclusive Quad Metering Roll System and advanced computerized controls as the axial fan models, but with the added benefit of quieter operation.

- Airflow for these models is supplied by Sukup Dual Inlet Centrifugal Fans
  30 hp on 16'; 40 hp on 20' and 50 hp on 24'.
- Heat is provided by efficient Sukup dual centrifugal burners.
- Sukup Centrifugal Dryers are designed for full heat.





- Quad Metering Roll system reduces over-drying, minimizes grain damage and maintains grain quality.
- Unload auger is suspended by hanger bearings to eliminate pinch points and grain damage.
- 3 Unload auger clean-out doors feature cam-lock handles.
- 4 Easy-to-handle, single-latch clean-out doors on outside of dryer allow fast column unloading and access to metering rolls.
- 5 Interior clean-out doors allow access to the top metering rolls.
- 6 44" x 12" plenum access doors provide easy access to the unload auger.

- 7 Sensor in the discharge tube measures the actual moisture content of outgoing grain, for much more accurate results.
- 8 Your Sukup Dryer is personalized with the name of your farm.
- 9 Sensor in the wet holding bin monitors grain level to control fill operations.
- 10 14" grain columns feature perforated, galvanized screens standard. Stainless Steel screens are optional.
- Work light improves visibility and safety in poorly lit areas. It also serves as a "system on" indicator.

- The air and heat for Sukup
  Dryers are supplied by Sukup
  Axial Fans and Heaters the best on the market.
- Easy-to-use computerized controls guide you through dryer operation. Control box case is weather-tight and lockable.
- 14 Optional control box stand allows remote location of the dryer controls. A 25' umbilical cord is standard. Additional lengths available at time of purchase.
- ★ CSA models are available.

"We feel like the dryer will keep up with two combines in an average or even above average yield environment. It's got a lot of capacity."

-Marlin Fuhrman Cummings, KS

# Single Fan



Your Sukup Dryer is personalized with your farm name.



#### Single Fan/Heater Models

Specifications	<b>T</b> 8	T12	T16	T16	<b>T20</b>	<b>T24</b>
Total grain holding capacity (approx.)	220 Bu.	330 Bu.	440 Bu.	440 Bu.	550 Bu.	660 Bu.
Grain column thickness & length	14" x 8'	14" x 12'	14" x 16'	14" x 16'	14" x 20'	14" x 24'
Grain column holding capacity	190 Bu.	285 Bu.	380 Bu.	380 Bu.	475 Bu.	570 Bu.
BTU/Hr (dry and cool) normal operating	up to 3,000,000	up to 5,000,000	up to 6,000,000	up to 6,000,000	up to 10,000,000	up to 10,000,000
Fan motor	15 hp	15 hp	15 hp	20 hp	30 hp	40 hp
Fan diameter	28"	38"	44"	44"	44"	44"
Load auger HP	3 hp	3 hp	3 hp	3 hp	5 hp	5 hp
Unload auger HP	3 hp	3 hp	3 hp	3 hp	5 hp	5 hp
Plenum	Single	Single	Single	Single	Single	Single
Weight w/ wheels and wet holding bin	7000#	8200#	9700#	9700#	11,200#	12,300#
Transport height w/out wet holding bin	13'4"	13'4"	13'4"	13'4"	13'4"	13'4"
Transport height w/ wet holding bin	16'	16'	16'	16'	16'	16'
Overall length w/out tongue	17'	21'	25'	25'	29'	33'
Overall length w/ tongue	18'6"	22'6"	26'6"	26'6"	30'6"	34'6"
Overall width w/out wheels	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"
Overall width w/ wheels	8'9"	8'9"	8'9"	8'9"	8'9"	8'9"
Fuel type	LP or Natural Gas					
Electrical voltage	230 or 460 V	230 or 460 V	230 V	230 or 460 V	230 or 460 V	230 or 460 V
Phase	1 or 3 ph	1 or 3 ph	1 ph	3 ph	3 ph	3 ph
<b>Estimated Drying Capacities*</b>	<b>T</b> 8	T12	T16	T16	T20	T24
Full Heat - 25% - 15%	up to 210 Bu/Hr.	up to 350 Bu/Hr.	up to 405 Bu/Hr.	up to 450 Bu/Hr.	up to 575 Bu/Hr.	up to 660 Bu/Hr.
Full Heat - 20% - 15%	up to 340 Bu/Hr.	up to 570 Bu/Hr.	up to 650 Bu/Hr.	up to 725 Bu/Hr.	up to 925 Bu/Hr.	up to 1050 Bu/Hr.

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\*BU/Hr (bushels per hour) listed are wet bushels, No. 2 shelled yellow corn at listed moisture content with grain discharged hot at 17%, resulting in about 15% moisture after steeping and cooling, and are estimates based on drying principals, field results and computer simulation.

### **Dual Fan and Heater Dryers Offer Flexibility**

Sukup Dual Fan and Heater Grain Dryers allow you the choice of full-heat drying or heat/cool drying. Both methods are performed efficiently and economically by Sukup Grain Dryers.

- Upper and lower fans/heaters are controlled individually for greater operator flexibility.
- The plenum temperature read-out allows you to monitor both upper and lower plenum temperatures.
- The 50/50 split plenum dryers are best suited to full
  - heat or heat/ cool where discharged grain must be near ambient temperature.
- 50/50 dryers are available in 20' and 24' sizes.

**Specifications** 





#### **Dual Fan/Heater Models - 50/50**

Specifications	T202	T242
Total grain holding capacity (approx.)	550 Bu.	660 Bu.
Grain column thickness & length	14" x 20'	14" x 24'
Grain column holding capacity	475 Bu	570 Bu
BTU/Hr (dry and cool) normal operating	up to 10,000,000	up to 10,000,000
Fan motor	(2) 15 hp	(2) 20 hp
Fan diameter	(2) 38"	(2) 38"
Load auger HP	5 hp	5 hp
Unload auger HP	5 hp	5 hp
Plenum split	50/50 Split	50/50 Split
Weight w/ wheels and wet holding bin	11,200#	12,700#
Transport height w/out wet holding bin	13'4"	13'4"
Transport height w/ wet holding bin	16'	16'
Overall length w/out tongue	29'	33'
Overall length w/ tongue	30'6"	34'6"
Overall width w/out wheels	8'4"	8'4"
Overall width w/ wheels	8'9"	8'9"
Fuel type	LP or Natural Gas	LP or Natural Gas
Electrical voltage	230 or 460 V	230 or 460 V
Phase	1 or 3 ph	3 ph
Estimated Drying Capacities*	T202	T242
Full Heat - 25% - 15%	up to 620 Bu/Hr.	up to 740 Bu/Hr
Heat/Cool - 25% - 15%	up to 300 Bu/Hr.	up to 350 Bu/Hr
Full Heat - 20% - 15%	up to 1000 Bu/Hr	up to 1180 Bu/Hr
Heat/Cool - 20% - 15%	up to 470 Bu/Hr	up to 570 Bu/Hr

T202

T2/2

"After using this dryer and air system for a season, I simply wouldn't be interested in anything else."

- Scott Herum Dolliver, IA "We set the dryer for 16½% moisture, and that's what it comes out at."

- Dean Ackland West Brooklyn, IL

- Sukup 2/3 1/3 Dryers can operate in full heat mode, where the grain is dumped hot into a cooling bin or heat/cool mode, where the bottom 1/3 of the dryer is used as a cooling chamber and discharged grain is approximately 20-30° above ambient.
- 2/3 1/3 dryers are available in 16', 20', 24' or 28' units.





#### Dual Fan/Heater Models - 2/3 - 1/3

Specifications	T163	T203	T243	T283
Total grain holding capacity (approx.)	440 Bu.	550 Bu.	660 Bu.	770 Bu.
Grain column thickness & length	14" x 16'	14" x 20'	14" x 24'	14" x 28'
Grain column holding capacity	380 Bu.	475 Bu.	570 Bu.	665 Bu.
BTU/Hr (dry and cool) normal operating	up to 6,000,000	up to 9,000,000	up to 10,000,000	up to 11,000,000
Fan motor				
Top plenum	15 hp	15 hp	30 hp	30 hp
Bottom plenum	15 hp	15 hp	15 hp	20 hp
Fan diameter				
Top plenum	38"	44"	44"	44"
Bottom plenum	28"	28"	28"	28"
Load auger HP	3 hp	5 hp	5 hp	7.5 hp
Unload auger HP	3 hp	5 hp	5 hp	7.5 hp
Plenum	2/3 - 1/3 Split			
Weight w/ wheels and wet holding bin	9700#	11,200#	12,700#	14,200#
Transport height w/out wet holding bin	13'4"	13'4"	13'4"	13'4"
Transport height w/ wet holding bin	16'	16'	16'	16'
Overall length w/out tongue	25'	29'	33'	37'3"
Overall length w/ tongue	26'6"	30'6"	34'6"	38'6"
Overall width w/out wheels	8'4"	8'4"	8'4"	8'4"
Overall width w/ wheels	8'9"	8'9"	8'9"	8'9"
Fuel type	LP or Natural Gas			
Electrical voltage	230 or 460 V			
Phase	1 or 3 ph	1 or 3 ph	3 ph	3 ph
Estimated Drying Capacities*	<b>T</b> 163	<b>T203</b>	<b>T243</b>	T283
Full Heat - 25% - 15%	450 Bu/Hr.	600 Bu/Hr.	710 Bu/Hr.	775 Bu/Hr.
Heat/Cool - 25% - 15%	280 Bu/Hr.	355 Bu/Hr.	435 Bu/Hr.	475 Bu/Hr.
Full Heat - 20% - 15%	740 Bu/Hr.	970 Bu/Hr.	1025 Bu/Hr.	1200 Bu/Hr.
Heat/Cool - 20% - 15%	440 Bu/Hr.	580 Bu/Hr.	690 Bu/Hr.	775 Bu/Hr.

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"Sukup stack dryers as compared to our other dryer -- it's just a night and day difference between the quality of the grain coming out. The test weight's higher, the corn's cooler, it moves better. It stores better."

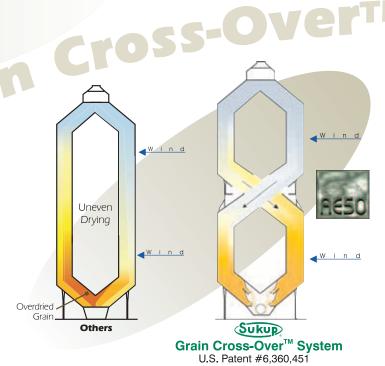
-Kim Sandeen Hooppole, IL

#### A Sukup Stack Dryer Exclusive

Sukup has developed the patented Grain Cross-Over™

System to help eliminate over-drying and balance the moisture content of dried grain in a stacked dryer configuration. This exclusive, innovative system switches the grain from one side of the dryer to the other as it passes from module to module.





## Switching sides balances moisture two ways:

A cold fall wind can greatly cool one side of the dryer, resulting in wetter grain and uneven drying. By switching the grain from one side of the dryer to the other, you balance the exposure that each portion of grain has to these conditions.

With the Grain Cross-Over™ System, the inner, hotter layer of

grain in the top module becomes the outer, cooler layer in the bottom module. which prevents the grain from over-drying and gives more consistent moisture content. The Grain Cross-Over™ System reduces variation in moisture content between the inner and outer portions of the columns, as well as between the two sides of the dryer.



#### **Two Module Stacked Models**

<b>Specifications</b>	T165	T165	T205	T206	T245	T246
Total holding capacity	850 Bu	850 Bu	1050 Bu	1050 Bu	1250 Bu	1250 Bu
Grain column thickness & length	14" x 16'	14" x 16'	14" x 20'	14" x 20'	14" x 24'	14" x 24'
Grain column holding capacity	760 Bu.	760 Bu.	950 Bu	950 Bu	1140 Bu	1140 Bu
BTU/Hr. (full heat) -						
normal operating	up to 13,000,000	up to 13,000,000	up to 16,500,000	up to 16,500,000	up to 20,000,000	up to 20,000,000
Fan motors & sizes	(1) 15 hp, 44"	(1) 20 hp, 44"	(1) 30 hp, 44"	) (2) 15 hp, 38" 🕃	(1) 40 hp 44" 🌘	(2) 20 hp, 38" 📵
	(2) 10 hp, 38" 🕏	(2) 10 hp, 38"	(2) 15 hp, 38" 🕃	🛚 (2) 15 hp, 38" 🕃	(2) 20 hp, 38"🕃	(2) 20 hp, 38" 🕏
Load auger HP (top)	3 hp	3 hp	5 hp	5 hp	5 hp	5 hp
Unload auger HP (bottom)	3 hp	3 hp	5 hp	5 hp	5 hp	5 hp
Transport ht. (all units*)	13'4"	13'4"	13'4"	13'4"	13'4"	13'4"
Overall height from concrete w/						
holding bin up	29'3"	29'3"	29'3"	29'3"	29'3"	29'3"
Overall length w/out tongue	25'	25'	29'	29'	33'	33'
Overall length w/ tongue	26'6"	26'6"	30'6"	30'6"	34'6"	34'6"
Overall width w/out wheels	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"
Overall width w/ wheels	8'9"	8'9"	8'9"	8'9"	8'9"	8'9"
Weight w/ wheels & wet holding bin	24,000#	24,000#	27,000#	27,000#	30,000#	30,000#
Phase	1 ph	3 ph	3 ph	3 ph	3 ph	3 ph

#### **Estimated Drying Capacities \*\***

Full Heat-25% - 15%	up to 900 Bu/Hr up to 1000 Bu/Hr up to	to 1250 Bu/Hr up to 1250 Bu/Hr	up to 1525 Bu/Hr up to 1525 Bu/Hr
Full Heat-20% - 15%	up to 1440 Bu/Hr up to 1600 Bu/Hr up to	to 2020 Bu/Hr up to 2020 Bu/Hr	up to 2450 Bu/Hr up to 2450 Bu/Hr
Heat/Cool-25% - 15%	up to 610 Bu/Hr up to 680 Bu/Hr up	to 860 Bu/Hr up to 860 Bu/Hr	up to 1030 Bu/Hr up to 1030 Bu/Hr
Heat/Cool 20% - 15%	up to 970 Bu/Hr up to 1080 Bu/Hr up to	to 1380 Bu/Hr up to 1380 Bu/Hr	up to 1670 Bu/Hr up to 1670 Bu/Hr

#### Three Module Stacked Models

Specifications	T168	T208	T209	<b>T248</b>	<b>T249</b>
Total holding capacity	1200 Bu.	1525 Bu.	1525 Bu.	1810 Bu.	1810 Bu
Grain column thickness & length	14" x 16'	14" x 20'	14" x 20'	14" x 24'	14" x 24'
Grain column holding capacity	1140 Bu	1450 Bu	1450 Bu	1720 Bu	1720 Bu
BTU/Hr. (full heat) -	up to	up to	up to	up to	up to
normal operating	20,000,000	25,000,000	25,000,000 🔹	30,000,000	30,000,000
Fan motors & sizes	(1) 20 hp, 44" 🥥	(1) 30 hp 44" 🌘	(2) 15 hp, 38" 📵	(1) 40 hp, 44" 🌘	(2) 20 hp, 38" 📵
	(1) 20 hp, 44" 📵	(1) 30 hp 44" 📵	(2) 15 hp, 38" 🕄	(1) 40 hp, 44" 🕄	(2) 20 hp, 38" 🕄
	(2) 10 hp, 38"	(2) 15 hp, 38"	(2) 15 hp, 38"	(2) 20 hp, 38"	(2) 20 hp, 38"
Load auger HP (top)	5 hp	7.5 hp	7.5 hp	7.5 hp	7.5 hp
Unload auger HP (bottom)	5 hp	7.5 hp	7.5 hp	7.5 hp	7.5 hp
Transport ht. (all units*)	13'4"	13'4"	13'4"	13'4"	13'4"
Overall height from concrete w/					
holding bin up & std. 3' legs	40'8"	40'8"	40'8"	40'8"	40'8"
Overall length w/out tongue	25'	29'	29'	33'	33'
Overall length w/ tongue	26'6"	30'6"	30'6"	34'6"	34'6"
Overall width w/out wheels	8'4"	8'4"	8'4"	8'4"	8'4"
Overall width w/ wheels	8'9"	8'9"	8'9"	8'9"	8'9"
Weight w/ wheels & wet holding bin	33,000#	37,500#	37,500#	42,000#	42,000#

#### **Estimated Drying Capacities \*\***

Full Heat-25% - 15%	up to 1475 Bu/Hr	up to 1830 Bu/Hr	up to 1830 Bu/Hr	up to 2250 Bu/Hr	up to 2250 Bu/Hr
Full Heat-20% - 15%	up to 2380 Bu/Hr	up to 2950 Bu/Hr	up to 2950 Bu/Hr	up to 3600 Bu/Hr	up to 3600 Bu/Hr
Heat/Cool-25% - 15%	up to 915 Bu/Hr	up to 1125 Bu/Hr	up to 1125 Bu/Hr	up to 1380 Bu/Hr	up to 1380 Bu/Hr
Heat/Cool 20% - 15%	up to 1460 Bu/Hr	up to 1810 Bu/Hr	up to 1810 Bu/Hr	up to 2225 Bu/Hr	up to 2225 Bu/Hr

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"The moisture's been perfect. We haven't been docked anything. In fact, it's varied from 14.6 to 15.1 over 100,000 bushels of corn. The quality of grain is as good as you can get it."



#### No Matter How Big Your Operation, Sukup Has the Equipment You Need.

Along with the full line of on-farm drying and storage equipment, Sukup also manufactures a commercial line of bins and tower dryers. Sukup Tower Dryers are capable of drying 600 to 7000 bu/hr., depending upon dryer size, so they're able to keep up with

even the largest producers and commercial operations.

Sukup Commercial Bins are available in sizes up to 105', with holding capacities up to 710,000 bushels.



The Sukup Cyclone Pneumatic System is an excellent match for your Sukup Dryer. The Cyclone moves grain from the dryer to multiple bins easily and efficiently, and is made up of industrial-grade, top-quality components to withstand years of use. Standard controls include: ammeter, start/stop, fault indicators, pressure gauge, and filter restriction gauge.



The design of Sukup Hopper Bottom Bins is one of the strongest in the industry, with wide corrugations, full-length stiffeners, and heavy-gauge hopper panels. The base for your Sukup Hopper Bottom Bin is tailored to the size of the bin and the load capacity required.



#### Sukup Manufacturing Company www.sukup.com

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