



Grain Dryers



- Accurate Moisture Sensing
- Easy Operation
- *QuadraTouch*™ Controls
- Exclusive Quad Metering Rolls
- Exclusive Grain Cross-Over System on Stacked Dryers



Leading Through Innovation

Sukup Manufacturing Co. doesn't just talk about having innovative ideas to help you dry grain more efficiently, they actually produce. Sukup holds more than 80 US and foreign patents and has received seven AE50 Awards - more than any other grain dryer manufacturer. Sukup grain dryers alone have earned three AE50 Awards - for the Quad Metering Roll System, Grain Cross-Over™ System and QuadraTouch™ Controls. All three innovations have led to more efficient grain drying and more consistent moisture content.

AE50 Awards are presented by the American Society of Agricultural and Biological Engineers for outstanding engineering innovations in agriculture. In order to be chosen for an AE50 Award, products must be truly new innovations that are expected to save producers time, costs and labor. Since their products are designed to make grain drying more efficient and provide the best value for the money, Sukup is very honored every time they receive an AE50 Award. It's proof that they're succeeding at their mission.



Quad Metering Rolls



Speed & Quality

The patented Quad Metering Roll System, standard on all Sukup Portable Grain Dryers, 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.

Traditional Dryers Stress Grain

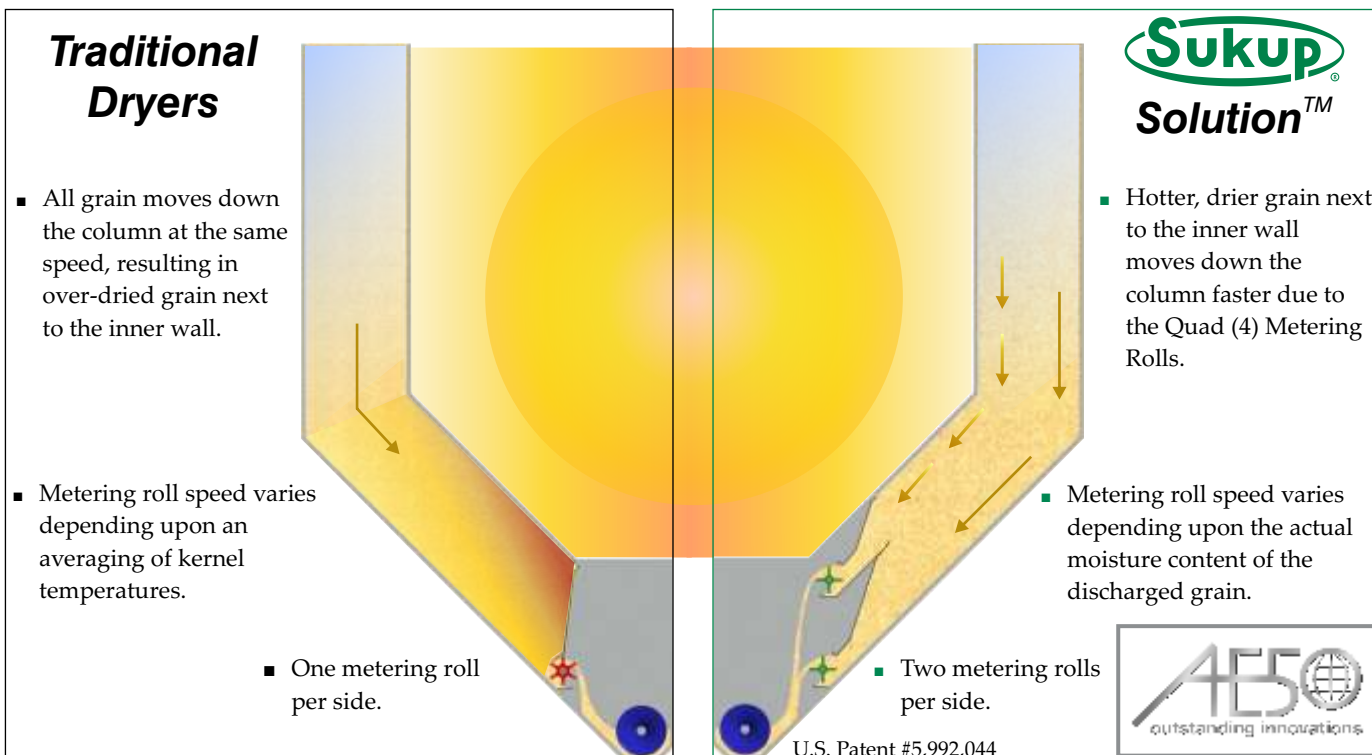
In traditional dryers (with only one metering roll per side) the inner layers are over-dried and the outer layers are under-dried. This means a great deal of blending must occur. It also means that the kernels on the inside are much hotter. This intense heat can result in stress cracks and lower quality grain.

There's only one dryer that can reduce 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.

Sukup Quad Metering Rolls Minimize Kernel Damage

By using two metering rolls in each dryer column, Sukup is able to pull the grain down the columns at different speeds. Sukup's Quad Metering Rolls pull the inner, hotter layer of grain 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.



Easy, Efficient, Accurate Control

Simple, Menu-Driven System

The Sukup *QuadraTouch*[™] touch screen control system on all Sukup Dryers was designed to be easy to use. The simple menus guide you through dryer functions for easy start-up and operation. Operator inputs are easy with a pop-up keypad for entering numbers or arrows for adjusting by a point or two.



Unmatched Performance

Sukup Dryers' *QuadraTouch*[™] controls were designed to eliminate around-the-clock monitoring and increase productivity and efficiency.



QuadraTouch[™] controls use advanced algorithms and calculus to increase dryer efficiency and reduce large swings in temperature and discharge moisture. This system virtually eliminates under- and over-shooting of your set target moisture

content. It also helps the dryer to run more efficiently, since large temperature swings are eliminated.

The *QuadraTouch*[™] is a PLC-based system. The PLC is a rugged controller built to withstand harsh environments. It offers superior electrical noise protection, eliminating nuisance trips and providing you with a dependable system.



The AC drive on dryers with *QuadraTouch*[™] controls is very reliable and lets metering rolls run slower, allowing you to dry wetter grain.

Optional Remote Monitoring

Sukup offers two options for remote monitoring of your Sukup Dryer. A Phone Alarm Kit may be added to any Sukup Dryer. This system requires a land line at the dryer. In the event of a fault, the phone at the dryer will call a pre-programmed number and notify you of the fault.

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 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.)

The GSM Phone Modem works with *QuadraTouch*[™] controls and operates through GSM cell phone service. If the dryer shuts down, the GSM service sends a text message to a predetermined cell phone number, noting what the fault was. You can also text message the dryer and it will reply with current status, moisture, unload speed and plenum temperature.



The GSM Phone Modem allows you to get status updates via text messages sent to your cell phone.



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

As an option, you can add a Moisture Sensor Jump Auger Kit, which allows you to mount the moisture sensor vertically.



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

Convenience, Safety, Performance

Back-Up Control System

- Allows manual control of all dryer functions with simple toggle switches.
- Back-up control system is completely independent of the Quadra-Touch™ controls and PLC.
- Sukup was the first to offer a truly independent back-up system.

Easy Access

- Large 4' interior doors (right) allow quick and easy access to the unload auger.
- Slide-out doors on each column (below) allow easy, convenient access to the upper metering rolls.



- Large door at back of dryer allows easy clean-out of the plenum.



Power Distribution Box

- The power distribution box is galvanized and sealed.
- All electrical components are protected against transient voltage, spikes and surges.
- A main 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.

Safety ⚠

Sukup Grain Dryers are equipped with many safety features. Redundancies in the system ensure that no faults are left unchecked.

- Advanced self-diagnostic check
- Interlock switches prevent the dryer from operating if doors are open.
- Grain column and plenum high temp warnings
- Air switch shuts the dryer down if no grain is present.
- Housing high limit prevents the heater from running if the fan shuts down.
- Motor overloads
- Flame sensing shuts down the flow of gas to the burner if no flame is present.



Sukup Fans - Proven Performance

Whether you choose a Sukup Axial Dryer or a Sukup Centrifugal Dryer, you can be confident in the quality and performance of the fan and heater at the heart of the dryer.

Proven 1750 RPM* Sukup Fans and Heaters supply the air and heat needed to make Sukup dryers effective. Sukup fans and heaters are well-known within the agricultural industry for their high airflow, efficient operation and excellent quality.

*T283 uses a 3450 RPM fan on the lower plenum

Sukup Heaters - Efficient, Even Heat

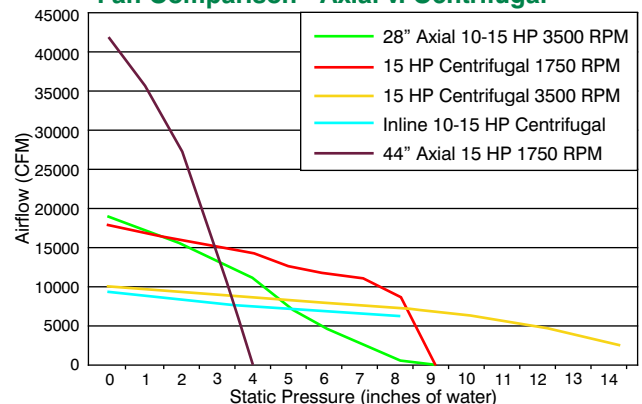
- Exclusive two-way adjustable vaporizers on Sukup heaters allow operation over a wider range of outside temperatures.
- Electronic modulating valve heater controls provide computer-controlled gas flow to maintain the plenum temperature you select, which is more fuel efficient than on-off or hi-low controls.
- Plenum temperature can be easily adjusted from the control box.

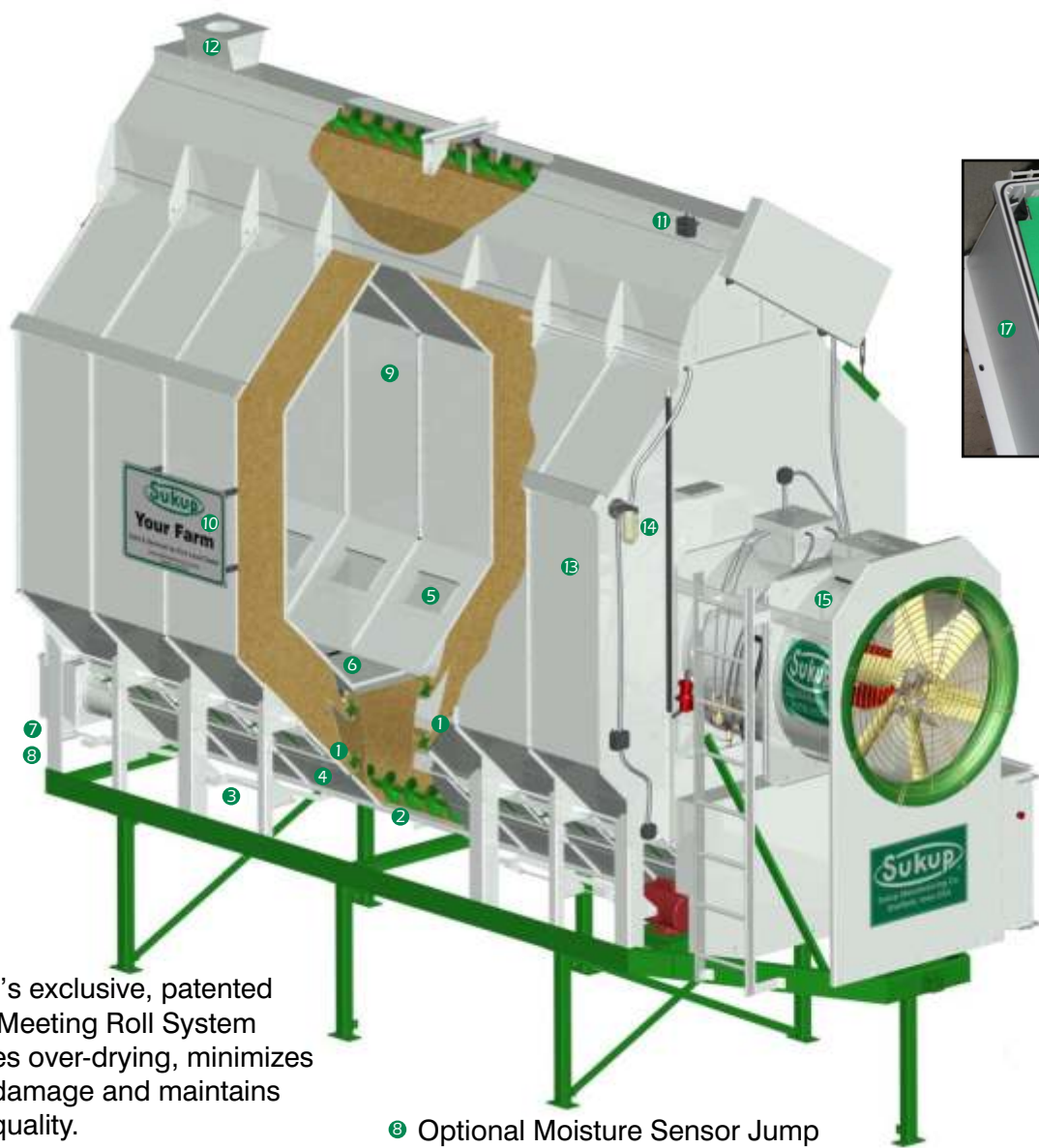
How do you know which Sukup Dryer is for you - Axial or Centrifugal?

The chart at right shows the difference in airflow at different levels of static pressure among different fan types. Vacuum cooling increases static pressure, so centrifugal fans are the practical solution for that application. Centrifugal fans are also quieter than Axials, so if you have neighbors close by, a Centrifugal Dryer may be the way to go.



Fan Comparison - Axial v. Centrifugal





① Sukup's exclusive, patented Quad Meeting Roll System reduces over-drying, minimizes grain damage and maintains grain quality.

② 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 Optional Moisture Sensor Jump Auger positions the sensor in a vertical position, so fines can't interfere with sensing.

⑨ RTD measures the air temperature inside the plenum and maintains actual plenum temperature as close as possible to your set point.

⑩ Your Sukup Dryer is personalized with the name of your farm.

⑪ Sensor in the wet holding bin monitors grain level to control fill operations.

⑫ Fill dryer from front or back.

⑬ 14" grain columns feature perforated, galvanized screens standard. Stainless steel screens are optional.

⑭ Work light improves visibility and safety in poorly lit areas. It also serves as a "system on" indicator.

⑮ The air and heat for Sukup Dryers are supplied by Sukup Fans and Heaters - the best on the market.

⑯ Easy-to-use QuadraTouch™ controls guide you through dryer operation. Control box case is weather-tight and lockable.

⑰ QuadraTouch™ control box can be remotely located up to 200' from the dryer. All that's needed is an Ethernet cord and 110v plug-in.

CSA models are available.

Single Fan & Heater - Axial

Single Fan/Heater Models

Specifications	T8	T12	T16	T16	T20	T24
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.	575 Bu.
BTU/Hr normal operating	up to 3 M	up to 5 M	up to 6 M	up to 6 M	up to 10 M	up to 10 M
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	LP or natural gas	LP or natural gas	LP or natural gas	LP or natural gas	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
Estimated Drying Capacities	T8	T12	T16	T16	T20	T24
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
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.

Sukup Manufacturing Co provides the information contained within this brochure to assist you in choosing the optimal equipment for your situation. Many factors, such as grain variety, maturity levels, grain cleanliness, weather conditions and operation/management, can affect the performance of your dryer and results may vary. This information is calculated and is not a guarantee of product specifications or performance. Based on these factors, Sukup specifications should only be used as estimates, and not as a warranty, express or implied, of how a particular Sukup unit will perform under your operating conditions. Because we are continually improving Sukup products, changes may occur that may not be reflected in the specifications.

*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 principles, field results and computer simulation.



Dual Fan and Heater Dryers - Axial

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 drying or heat/cool where discharged grain must be near ambient temperature.
- 50/50 dryers are available in 20' and 24' sizes.
- 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.



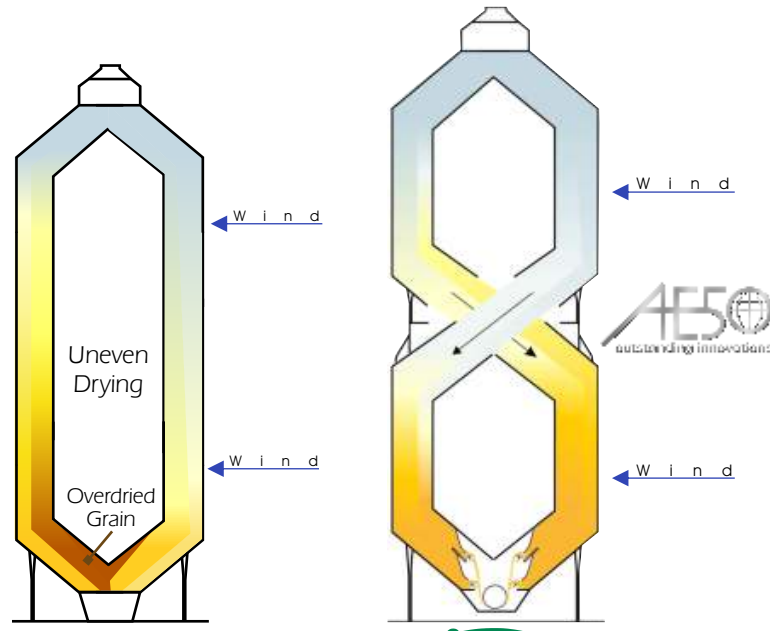
Dual Axial Fan/Heater Models

Specifications	50/50 Plenum Split		2/3 - 1/3 Plenum Split			
	T202	T242	T163	T203	T243	T283
Total grain holding capacity (approx.)	550 Bu.	660 Bu.	440 Bu.	550 Bu.	660 Bu.	770 Bu.
Grain column thickness & length	14" x 20'	14" x 24'	14" x 16'	14" x 20'	14" x 24'	14" x 28'
Grain column holding capacity	475 Bu.	570 Bu.	380 Bu.	475 Bu.	570 Bu.	665 Bu.
BTU/Hr normal operating	up to 10,000,000	up to 10,000,000	up to 6,000,000	up to 10,000,000	up to 10,000,000	up to 11,000,000
Fan motor						
Top Plenum	15 hp	20 hp	15 hp	15 hp	30 hp	30 hp
Bottom Plenum	15 hp	20 hp	15 hp	15 hp	15 hp	20 hp
Fan diameter						
Top Plenum	38"	38"	38"	44"	44"	44"
Bottom Plenum	38"	38"	28"	28"	28"	28"
Load auger HP	5 hp	5 hp	3 hp	5 hp	5 hp	7.5 hp
Unload auger HP	5 hp	5 hp	3 hp	5 hp	5 hp	7.5 hp
Plenum split	50/50 split	50/50 split	2/3-1/3 split	2/3-1/3 split	2/3-1/3 split	2/3-1/3 split
Weight w/ wheels and wet holding bin	11,200#	12,700#	9700#	11,200#	12,700#	14,200#
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	29'	33'	25'	29'	33'	37'3"
Overall length w/ tongue	30'6"	34'6"	26'6"	30'6"	34'6"	38'6"
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	LP or Natural Gas	LP or Natural Gas	LP or Natural Gas	LP or Natural Gas	LP or Natural Gas
Electrical voltage	230 or 460 v	230 or 460 v	230 or 460 v	230 or 460 v	230 or 460 v	230 or 460 v
Phase	1 or 3 ph	3 ph	1 or 3 ph	1 or 3 ph	3 ph	3 ph
Estimated Drying Capacities	T202	T242	T163	T203	T243	T283
Full Heat - 20% - 15%*	up to 1000 Bu/Hr	up to 1180 Bu/Hr	up to 740 Bu/Hr	up to 970 Bu/Hr	up to 1025 Bu/Hr	up to 1200 Bu/Hr
Full Heat - 25% - 15%	up to 620 Bu/Hr	up to 740 Bu/Hr	up to 450 Bu/Hr	up to 600 Bu/Hr	up to 710 Bu/Hr	up to 775 Bu/Hr
Heat/Cool - 20% - 15%*	up to 470 Bu/Hr	up to 570 Bu/Hr	up to 440 Bu/Hr	up to 580 Bu/Hr	up to 690 Bu/Hr	up to 775 Bu/Hr
Heat/Cool - 25% - 15%	up to 300 Bu/Hr	up to 350 Bu/Hr	up to 280 Bu/Hr	up to 355 Bu/Hr	up to 435 Bu/Hr	up to 475 Bu/Hr

Patented Grain Cross-Over™

A Sukup Stack Dryer Exclusive

Sukup has developed the patented Grain Cross-Over™ System to help eliminate overdrying 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.



Sukup
Grain Cross-Over™ System
U.S. Patent #6,360,451

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 overdrying 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 on the dryer.


















Balanced, Efficient Drying

Two Module Stacked Axial Models

Specifications	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 M	up to 13 M	up to 16.5 M	up to 16.5 M	up to 20 M	up to 20 M
Fan motors & sizes	(1) 15 hp, 44"  (2) 10 hp, 38" 	(1) 20 hp, 44"  (2) 10 hp, 38" 	(1) 30 hp, 44"  (2) 15 hp, 38" 	(2) 15 hp, 38"  (2) 15 hp, 38" 	(1) 40 hp, 44"  (2) 20 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 and wet holding bin	24,000#	24,000#	27,000#	27,000#	30,000#	30,000#
Phase	1 phase	3 phase	3 phase	3 phase	3 phase	3 phase
Estimated Drying Capacities						
Full Heat - 20%-15%*	up to 1440 Bu/Hr.	up to 1600 Bu/Hr.	up to 2020 Bu/Hr.	up to 2020 Bu/Hr.	up to 2450 Bu/Hr.	up to 2450 Bu/Hr.
Full Heat - 25%-15%*	up to 900 Bu/Hr.	up to 1000 Bu/Hr.	up to 1250 Bu/Hr.	up to 1250 Bu/Hr.	up to 1525 Bu/Hr.	up to 1525 Bu/Hr.
Heat/Cool 20%-15%	up to 970 Bu/Hr.	up to 1080 Bu/Hr.	up to 1380 Bu/Hr.	up to 1380 Bu/Hr.	up to 1670 Bu/Hr.	up to 1670 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.

Three Module Stacked Axial Models

Specifications	T168	T208	T209	T248	T249
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) - normal operating	up to 20 M	up to 25 M	up to 25 M	up to 30 M	up to 30 M
Fan motors & sizes	(1) 20 hp, 44"  (1) 20 hp, 44"  (2) 10 HP, 38" 	(1) 30 hp, 44"  (1) 30 hp, 44"  (2) 15 HP, 38" 	(2) 15 hp, 38"  (2) 15 hp, 38"  (2) 15 HP, 38" 	(1) 40 hp, 44"  (1) 40 hp, 44"  (2) 20 HP, 38" 	(2) 20 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)	5HP	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 sheels	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#
Drying Capacities					
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
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
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
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

*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 principles, field results and computer simulations.

** Transport height is with wet holding bin lowered on upper unit.

Optional Equipment

- Field installed auxiliary motor control kits
 - 1 required for each fill or take away auger
- Two Module Stacked CSA models available
- Stainless steel outer screens
- Fan inlet covers
- Wet holding bin service catwalk
- Side clean-off catwalk (stack dryers only)



Quiet, Efficient 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 QuadraTouch™ controls as the axial fan models, but with the added benefit of quieter operation.

- Airflow for these models is supplied by Sukup belt-driven Dual Inlet Centrifugal Fans
- Heat is provided by efficient Sukup dual centrifugal burners.
- Single plenum Sukup Centrifugal Dryers are designed for full heat.

2/3 - 1/3 Split Plenum Centrifugal Dryers

- Can be equipped to operate in pressure heat/vacuum cool mode.
- More efficient than traditional pressure heat/pressure cool dryers.
- Heat given off by the cooling grain is cycled back into the drying process.
- Less fuel is required to raise the drying air temperature.

Centrifugal Dryer Options

- Stainless steel outer screens
- Wye Delta or Soft Start fan motor starter in lieu of standard Line Start.
- Wet holding bin service catwalk
- Side clean-off catwalk (stack dryers only).



Single Fan/Heater Models

Specifications	Single Plenum			Split Plenum		
	TC16	TC20	TC24	TC163	TC203	TC243
Total grain holding cap. (approx.)	440 Bu.	550 Bu.	660 Bu.	440 Bu.	550 Bu.	660 Bu.
Grain column thickness & length	14" x 16'	14" x 20'	14" x 24'	14" x 16'	14" x 20'	14" x 24'
Grain column holding capacity	380 Bu.	475 Bu.	575 Bu.	380 Bu.	475 Bu.	570 Bu.
BTU/Hr. max. capacity	up to 6M	up to 10M	up to 10M	up to 6M	up to 10M	up to 10M
Dual inlet fan motor	30 hp	40 hp	50 hp	30 hp	40 hp	50 hp
Load auger HP	3 hp	5 hp	5 hp	3 hp	5 hp	5 hp
Unload auger HP	3 hp	5 hp	5 hp	3 hp	5 hp	5 hp
Plenum	Single	Single	Single	2/3-1/3 Split	2/3-1/3 Split	2/3-1/3 Split
Wt. w/ wheels & wet holding bin	9900	11,500	12,800	10,000	11,600	12,900
Trans. ht. w/ wet holding bin lowered	13'4"	13'4"	13'4"	13'4"	13'4"	13'4"
Installed ht. - frame to fill hopper	14'7"	14'7"	14'7"	14'7"	14'7"	14'7"
Overall length w/out tongue	27'	31'	35'	27'	31'	35'
Overall length w/ tongue	28'6"	32'6"	36'6"	28'6"	32'6"	36'6"
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 NG	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG
Electrical voltage	230 or 460 v	230 or 460 v	230 or 460 v	230 or 460 v	230 or 460 v	230 or 460 v
Phase	3 ph	3 ph	3 ph	3 ph	3 ph	3 ph
Estimated Drying Capacities						
Full Heat - 20% - 15%*	740 Bu./Hr.	970 Bu./Hr.	1025 Bu./Hr.	740 Bu./Hr.	970 Bu./Hr.	1025 Bu./Hr.
Full Heat - 25% - 15%*	450 Bu./Hr.	600 Bu./Hr.	710 Bu./Hr.	450 Bu./Hr.	600 Bu./Hr.	710 Bu./Hr.
Pressure Heat/Vacuum Cool 25% - 15%				280 Bu./Hr.	355 Bu./Hr.	435 Bu./Hr.
Pressure Heat/Vacuum Cool 20% - 15%				440 Bu./Hr.	580 Bu./Hr.	690 Bu./Hr.

Full-Heat or Vacuum Cool Drying

Sukup Centrifugal Dryers are available in a Double-Stacked configuration that features the patented Sukup Grain Cross-Over™ System.

- Top module operates in full heat mode.
- Bottom module can operate either in full-heat mode or in pressure heat/vacuum cool mode.
- Panels within the plenum area are easily removed or replaced to switch between modes.
- Adjustable air louvers are used to control airflow for different drying modes
 - Louvers open completely for full-heat drying.
 - Louver openings are variable to adjust output grain temperature during pressure heat/vacuum cool drying.



Two Module Stacked Centrifugal Models

Specifications	TC165	TC205	TC245
Total grain holding cap. (approx.)	850 Bu.	1050 Bu.	1250 Bu.
Grain column thickness & length	14" x 16'	14" x 20'	14" x 24'
Grain column holding capacity	760 Bu.	950 Bu.	1140 Bu.
BTU/Hr. max. capacity	up to 13M	up to 16.5M	up to 20M
Dual inlet fan motor	30 hp/30 hp	40 hp/40 hp	50 hp/50 hp
Load auger HP	3 hp	5 hp	5 hp
Unload auger HP	3 hp	5 hp	5 hp
Plenum	3 Plenums	3 Plenums	3 Plenums
Wt. w/ wheels & wet holding bin	24,000	27,000	30,000
Trans. ht. w/ wet holding bin lowered	13'4"	13'4"	13'4"
Installed ht. - frame to fill hopper	29'3"	29'3"	29'3"
Overall length w/out tongue	27'	31'	35'
Overall length w/ tongue	28'6"	32'6"	36'6"
Overall width w/out wheels	8'4"	8'4"	8'4"
Overall width w/ wheels	8'9"	8'9"	8'9"
Fuel type	LP or NG	LP or NG	LP or NG
Electrical voltage	230 or 460 v	230 or 460 v	230 or 460 v
Phase	3 ph	3 ph	3 ph
Estimated Drying Capacities			
Full Heat - 20% - 15%*	1600 Bu/Hr.	2020 Bu/Hr.	2450 Bu/Hr.
Full Heat - 25% - 15%*	1000 Bu/Hr.	1250 Bu/Hr.	1525 Bu/Hr.
Pressure Heat/Vacuum Cool 20% - 15%	1080 Bu/Hr.	1380 Bu/Hr.	1670 Bu/Hr.
Pressure Heat/Vacuum Cool 25% - 15%	680 Bu/Hr.	860 Bu/Hr.	1030 Bu/Hr.

*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 principles, field results and computer simulation.

Complete Drying Solutions



Large-Scale Drying

For large operations, Sukup also manufactures a line of tower dryers.

- 12', 18', 24' diameters
- 56' - 120' heights
- Dry up to 7000 bu/hr.
- Stainless Steel, flat bottom, unloading system removes grain from the dryer with manual or automatic control based on grain temperature or moisture.



The design of Sukup Hopper Bottom Bins is one of the strongest in the industry.

Sukup offers two hopper types

- Heavy-Duty Hoppers (pictured above) may be used as working bins.
- Medium-Duty Hoppers (pictured below) may be used as wet holding tanks to feed your Sukup Dryer and may also be used to store cool, dry grain for an extended period of time.

Sukup Medium-Duty Hoppers feature legs formed in the extra-strong Sukup stiffener profile. The legs extend to the bottom two bin rings, providing additional support for the sidewalls. The sheets for the hopper portion of Sukup Medium-Duty Hopper Bins attach directly to the sidewall sheets, so there is no ledge or lip to trap grain.



The Sukup Cyclone

Pneumatic System is an excellent match to your Sukup Dryer. The Cyclone moves grain from the dryer to multiple bins easily and efficiently.

Sukup Cyclone components are top-quality and industrial-grade to withstand years of use.

- Positive displacement pumps and electric motors with shielded belt drive provide the air pressure.
- The Sukup rotary airlock is heavier and more well-built than any other available.
- Large, all-steel deadheads are standard.
- Sukup's 30" diameter cyclone (optional) is lined with long-wearing UHMW.
- Optional 7-way distributor valve routes grain to up to seven bins quickly and easily. Can be mounted horizontally or vertically.



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