GRAIN DRYERS

CROSS FLOW

Prefer a digital version?

Scan the QR code with the camera on your smartphone to view this brochure

WHY A SUKUP GRAIN DRYER?

Sukup Manufacturing Co. doesn't just talk about innovative ideas to help you dry grain more efficiently, **we actually deliver.**

Sukup holds more than 80 patents and over 18 AE50 Awards* – more than any other grain dryer manufacturer. Sukup Grain Dryers alone have earned eight AE50 Awards; Quad Metering Roll System, Grain Cross-Over™ System, QuadraTouchTM Controls, QuadraTouch Pro™, Sukup Single Phase Dryers, Sukup Modular Tower Dryers, Smart Loop™, and the Sukup Mixed-Flow Dryer. All eight innovations have lead to more efficient grain drying.

AE50 outstanding innovations

** 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.*

Sukup®

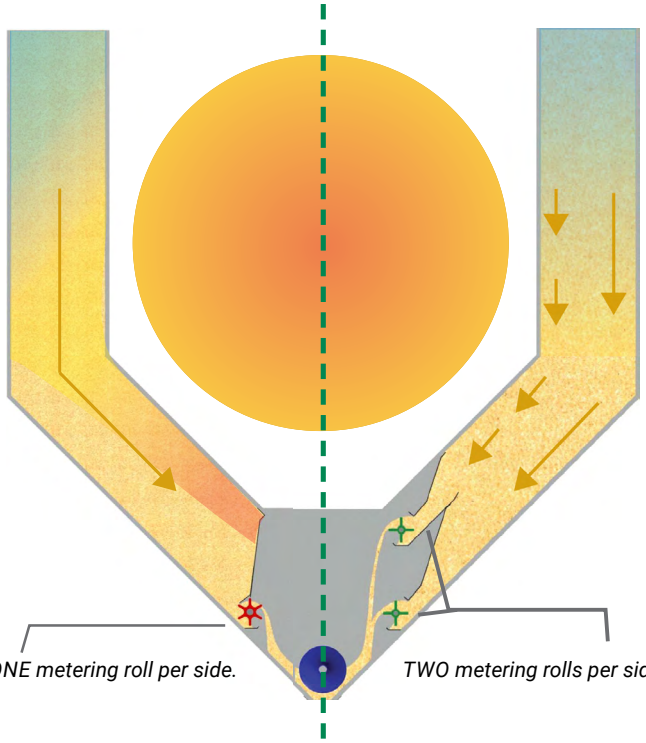
QUAD METERING ROLLS

QUALITY. EFFICIENCY. SPEED.

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

- All grain moves down the column at the same speed, the inner layers of grain are over-dried and the outer layers are under-dried.
- Metering roll speed varies depending upon an averaging of kernel temperatures.
- With the kernels on the inside much hotter than the outside, stress cracking of the grain occurs resulting in lower quality grain and fuel efficiency.



ONE metering roll per side. *TWO metering rolls per side.*

Exclusive Sukup Dryers (with Quad Metering Rolls)

- The Quad (4) Metering Rolls pull the inner, hotter layer of grain down the column faster than the outer, cooler layer
- Metering roll speed varies depending upon the actual moisture content of the discharged grain.
- This process produces more even moisture content of the dried grain, maintaining higher test weights and overall quality while improving fuel efficiency.

LEFT Closer view of the Sukup Quad Metering Rolls

Patent Number 5,992,044

AE50 outstanding innovations

Sukup Exclusive

SUKUP QUADRATOUCH PRO™

EASY START-UP & OPERATION

SIMPLE, MENU-DRIVEN SYSTEM

The Sukup QuadraTouch Pro™ control system, standard on all Sukup Dryers, was designed to be easy to use with simple menus guiding you through dryer functions. Operator inputs are simple with a pop-up keypad for entering numbers. The QuadraTouch Pro™ can be placed up to 200' away from the dryer using just an Ethernet cable.

THE QUADRATOUCH PRO™ is a PLC-based system.

The PLC (Programmable Logic Controller) is a rugged controller built to withstand harsh environments and offer superior electrical noise protection, eliminating nuisance shut downs and providing you with a reliable system.

Comprehensive information with the touch of a button

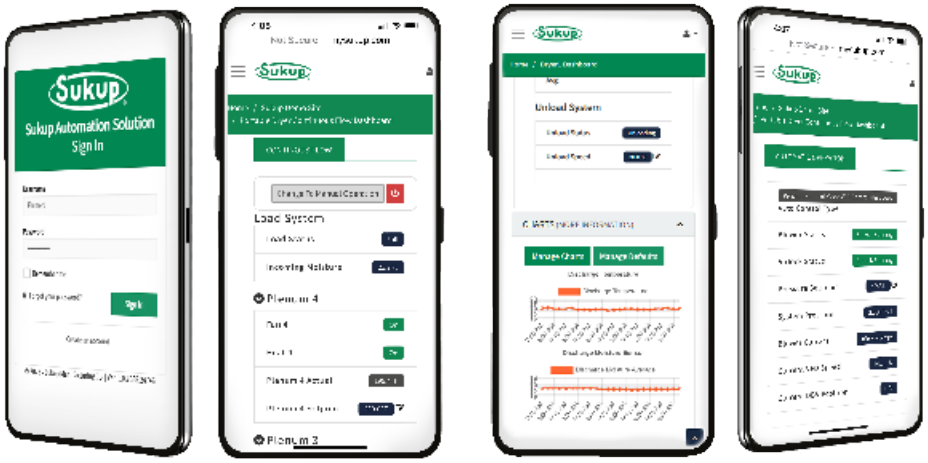
The easy to use Sukup QuadraTouch Pro™ control system gives you access to information critical for your operation.

MYSUKUP REMOTE WEB ACCESS

MySukup allows you to monitor and control your Sukup Dryer from a smart phone, tablet or PC.

FEATURES:

- Dryer shutdown alerts
- View dryer performance charts
- Ability to switch between manual and auto unload control
- Adjust moisture and/or temperature settings
- Shut dryer off remotely
- Set up mulitple users with permission to view only, or view and make changes



Must have wired Ethernet internet access at QuadraTouch Pro™ control system to use. Requires yearly license fee. Please note that the dryer cannot be started remotely.

WHICH DRYER IS RIGHT FOR YOU?

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.

AXIAL VS CENTRIFUGAL

Sukup Axial Dryer

Pressure Performance

Axial Fans perform best at low pressures and Centrifugal Fans perform best at higher pressures. Vacuum cooling requires higher pressures so Centrifugal Fans are the practical solution for that application.

Running Noise/Sound

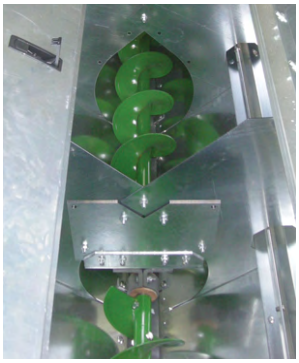
Even though we use 1750 RPM fans in our Axial Dryers (compared to the 3500 RPM fans used on Sukup Grain Bins), the Centrifugal Dryer is quieter, so if you have neighbors close by, a Sukup Centrifugal Dryer may be the way to go.

Sukup Centrifugal Dryer

FEATURES

Easy Access

- Large 4' interior doors allow quick and easy access to the unload auger.
- Slide-out doors on each column allow easy, convenient access to the upper metering rolls.
- Large door at back of dryer allows easy clean-out of the plenum.



Safety

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

- 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.

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.

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 high-low controls.
- Plenum temperature can be easily adjusted from the QuadraTouch Pro™.

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 AutoBatchTM program into the controls. The AutoBatchTM 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.

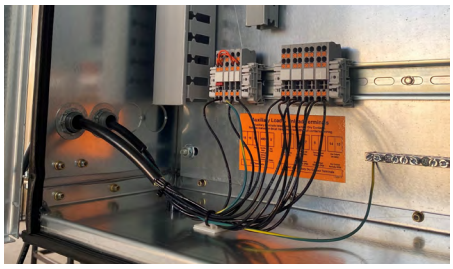
Sukup was the first company to make true moisture sensing standard on its dryers. Sampling the grain moisture, rather than temperature, gives a more accurate measure of drying progress and results in more consistent final moisture content. (For economical, temperature-based drying, ask about our Streamline Dryer.)

- 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.
- OPTIONAL You can add a Moisture Sensor Jump Auger Kit, which allows you to mount the moisture sensor vertically.

AUTOMATIC MOISTURE CONTROL IS STANDARD

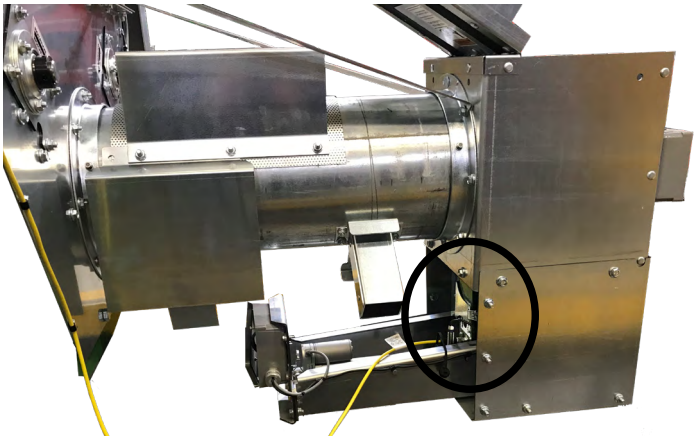
Auxiliary Control Box

- Sukup dryers come standard with an Auxiliary Control Box
- Box features din rails to mount starters and overloads for fill and takeaway equipment such as augers.
- Has a terminal strip with signals to turn those auxiliary controls on and off as the dryer needs grain.



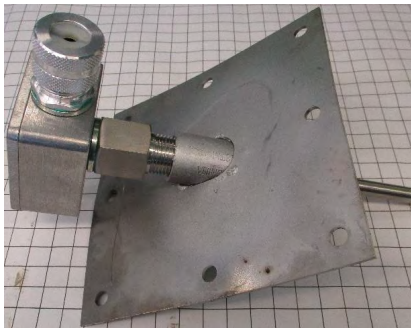
Auger Static Sampler *OPTIONAL*

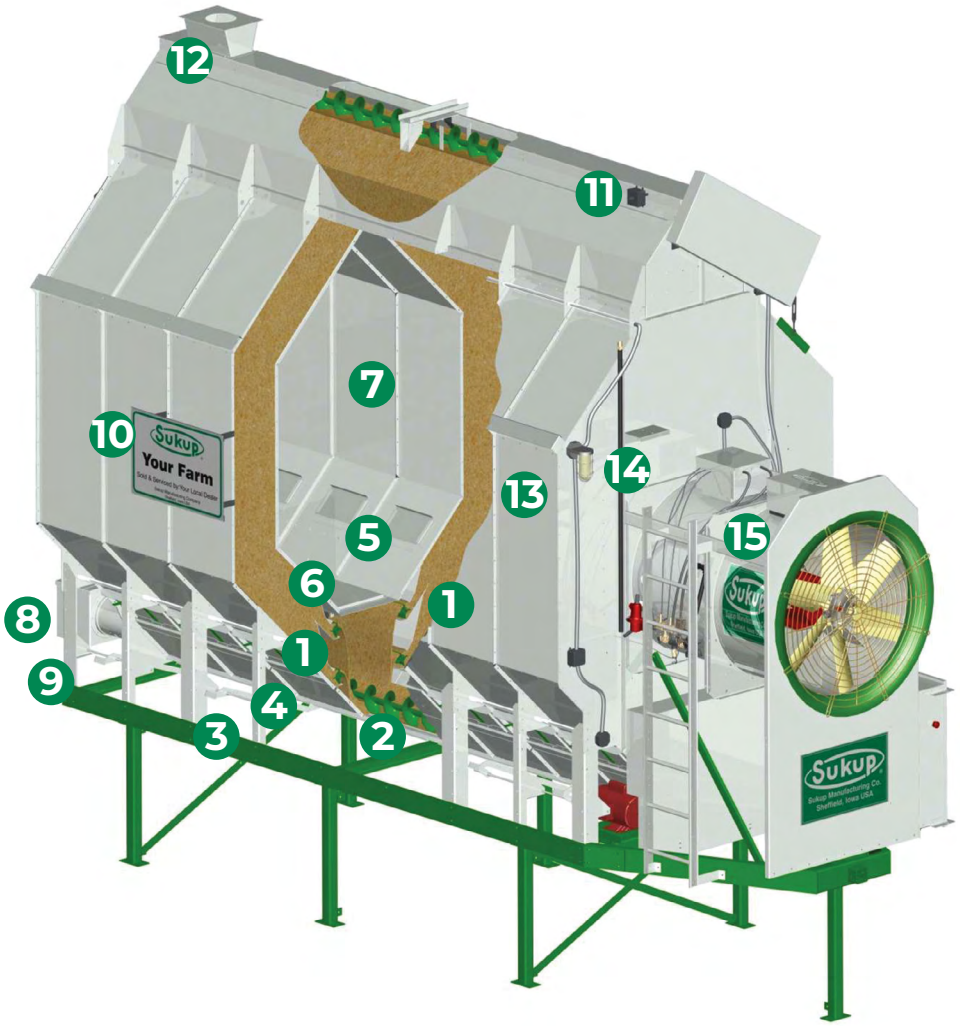
- The Static Moisture Sampler tests the grain as it leaves the dryer.
- It catches a sample of grain, measures the moisture and temperature then drops it.
- The moisture sensor is mounted vertically to minimize any fines buildup.



Multipoint Grain Temperature Sensors

- Dryers use multipoint grain column sensors.
- Readings from the sensors are fed into control software, helping improve dryer performance.
- Standard on stacked dryers, optional on single-module dryers





DC shield removed to show detail

1. Sukup's exclusive, patented Quad Metering 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 16" plenum access doors provide easy access to the unload auger.

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

8. Improved Moisture Sensor in the discharge tube measures the actual moisture content of outgoing grain for much more accurate results.

9. *OPTIONAL* Moisture Sensor Jump Auger places the sensor in a vertical position, so fines can't interfere with sensing.

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 Pro™ controls guide you through dryer operation. Control box case is weather-tight and lockable.

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

18. The Single Phase to 3 Phase Power Converter may be added to any Sukup Dryer to allow you to run larger dryers on single phase.

CSA Models are available.

AXIAL DRYERS

SINGLE FAN/HEATER DRYER SPECIFICATIONS

SINGLE AXIAL FAN/HEATER MODELS

Specifications	T8	T12	T16		T20	T24
Total grain holding cap. (Approx.)	220 Bu.	330 Bu.	440 Bu.		550 Bu.	660 Bu.
Grain column thickness & length	14” x 8’	14” x 12'	14” x 16’		14” x 20’	14” x 24’
Grain column holding capacity	190 Bu.	285 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 10 M	up to 10 M
Fan hp & dia.	15 hp, 28"	15 hp, 38"	15 hp, 44"	20 hp, 44"	30 hp, 44"	40 hp, 44"
Load auger HP	3 hp	3 hp	3 hp		5 hp	7.5 hp
Unload auger HP	3 hp	3 hp	3 hp		5 hp	5 hp
Plenum	Single	Single	Single		Single	Single
Transport height**	13’4”	13’4”	13’4”		13’4”	13’4”
Installed height***	14’7”	14’7”	14’7”		14’7”	14’7”
Installed length	17’	21’	25’		29’	33'
Installed width	7'11"	7'11"	7'11"		7'11"	7'11"
Weight w/wheels & wet holding bin	7000#	8200#	9700#		11,200#	12,300#
Fuel Type	LP or NG	LP or NG	LP or NG		LP or NG	LP or NG
230v, 1ph Min./Max. Amps+	122/250	122/250	122/250		*195/400*	*260/600*
230v, 3ph Min./Max. Amps+	60/250	75/250		86/250	134/250	180/250
460v, 3ph Min./Max. Amps+	30/100	37/100		43/100	68/100	90/250
575v, 3ph Min./Max. Amps+	28/100	33/100		38/100	45/100	55/100
Est. Drying Capacities	***Bushels/Hour****					
	T8	**T12**	**T16**		**T20**	**T24**
Full Heat - 20% - 15% Full Heat - 25% - 15%	up to 340 up to 210	up to 570 up to 350	up to 650 up to 405	up to 725 up to 450	up to 925 up to 575	up to 1050 up to 660

*Drying capacities listed (in wet bushels/hour) are for No. 2 shelled yellow corn at the listed moisture contents. Full-heat capacity estimates are for grain discharged hot at 17% moisture, resulting in approximately 15% moisture after steeping and cooling. Capacities listed are estimates based on drying principles, testing results, and computer simulations.

These are not to be used as a guarantee of dryer performance.

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

***Installed height is frame to fill hopper, less legs.

+Min. Amps= FLA of all motors. Max. Amps = main switch size. 208v, 3ph min. amp = 230v, 3ph min. amps x 1.15.

Single phase dryers with fans 20hp + use Sukup Single Phase to Three Phase Power Converter. Amps noted in italics.

TWO FAN/ HEATER DRYERS

Sukup Two Fan and Heater Grain Dryers allow you the choice of full-heat drying or heat/cool drying.

- Upper and lower fans/heaters are controlled individually for greater flexibility.
- **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 20-30o above ambient.
- 2/3 - 1/3 dryers are available in 16', 20', 24' or 28'.

TWO FAN AXIAL/HEATER MODELS

Specifications	T202	T242	T163	T203	T243	T283
Total grain holding cap. (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 M	up to 10 M	up to 6 M	up to 10 M	up to 10 M	up to 11 M
Fan hp & dia.						
Top plenum	15 hp, 38"	20 hp, 38"	15 hp, 38"	15 hp, 44"	30 hp, 44"	30 hp, 44"
Bottom plenum	15 hp, 38"	20 hp, 38"	15 hp, 28"	15 hp, 28"	15 hp, 28"	20 hp, 28"
Load auger HP	5 hp	7.5 hp	3 hp	5 hp	7.5 hp	7.5 hp
Unload auger HP	5 hp	5 hp	3 hp	5 hp	5 hp	7.5 hp
Plenum	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
Transport height**	13'4"	13'4"	13'4"	13'4"	13'4"	13'4"
Installed height***	14'7"	14'7"	14'7"	14'7"	14'7"	14'7"
Installed length	29'	33'	25'	29'	33'	37'3"
Installed width	7'11"	7'11"	7'11"	7'11"	7'11"	7'11"
Weight w/wheels & wet holding bin	11,200#	12,700#	9700#	11,200#	12,700#	14,200#
Fuel Type	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG
230v, 1ph Min./Max. Amps+	200/400	*242/600*	170/400	190/400	*245/600*	*275/600*
230v, 3ph Min./Max. Amps+	134/250	168/250	114/250	125/250	174/250	188/400
460v, 3ph Min./Max. Amps+	63/100	78/250	57/100	63/100	87/250	94/250
575v, 3ph Min./Max. Amps+	48/100	60/250	42/100	46/100	62/100	69/100
Est. Drying Capacities	***Bushels/Hour****					
	T202	T242	T163	T203	T243	T283
Full Heat - 20% - 15% Full Heat - 25% - 15%	up to 1000 up to 620	up to 1180 up to 740	up to 740 up to 450	up to 970 up to 600	up to 1025 up to 710	up to 1200 up to 775
Heat/Cool - 20% - 15% Heat/Cool - 25% - 15%	up to 470 up to 300	up to 570 up to 350	up to 440 up to 280	up to 580 up to 355	up to 690 up to 435	up to 775 up to 475

**Drying capacities listed (in wet bushels/hour) are for No. 2 shelled yellow corn at the listed moisture contents. Full-heat capacity estimates are for grain discharged hot at 17% moisture, resulting in approximately 15% moisture after steeping and cooling. Capacities listed are estimates based on drying principles, testing results, and computer simulations. These are not to be used as a guarantee of dryer performance.*

***Transport height is with wet holding bin lowered.*

****Installed height is frame to fill hopper, less legs.*

+Min. Amps= FLA of all motors. Max. Amps = main switch size. 208v, 3ph min. amp = 230v, 3ph min. amps x 1.15. Single phase dryers with fans 20hp + use Sukup Single Phase to Three Phase Power Converter. Amps noted in italics.

TWO & THREE MODULE AXIAL FAN/HEATER SPECIFICATIONS

Specifications	T165	T165	T205	T206	T245	T246
Total grain holding cap. (Approx.)	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. 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 hp & diameter - top module	(1) 15hp, 44"	(1) 20hp, 44"	(1) 30hp, 44"	(2) 15hp, 38"	(1) 40hp, 44"	(2) 20hp, 38"
- bottom module	(2) 10hp, 38"	(2) 10hp, 38"	(2) 15hp, 38"	(2) 15hp, 38"	(2) 20hp, 38"	(2) 20hp, 38"
Load auger HP	3 hp	3 hp	5 hp	5 hp	7.5 hp	7.5 hp
Unload auger HP	3 hp	3 hp	5 hp	5 hp	5 hp	5 hp
Plenum - top module	Single	Single	Single	50/50	Single	50/50
- bottom module	50/50	50/50	50/50	50/50	50/50	50/50
Transport height**	13'4"	13'4"	13'4"	13'4"	13'4"	13'4"
Installed height***	26'3"	26'3"	26'3"	26'3"	26'3"	26'3"
Installed length	25'	25'	29'	29'	33'	33'
Installed width (less catwalks)	8'6"	8'6"	8'6"	8'6"	8'6"	8'6"
Weight w/wheels & wet holding bin	24,000#	24,000#	27,000#	27,000#	30,000#	30,000#
Fuel type	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG
230v, 1ph Min./Max. Amps+	238/400		*293/600*	436/600	*317/600*	*436/600*
230v, 3ph Min./Max. Amps+		173/250	222/400	268/400	246/400	268/400
460v, 3ph Min./Max. Amps+		87/250	112/250	134/250	123/250	134/250
575v, 3ph Min./Max. Amps+		48/100	82/250	89/250	98/250	109/250
Est. Drying Capacities	***Bushels/Hour****					
Full Heat - 20% - 15% Full Heat - 25% - 15%	up to 1440 up to 900	up to 1600 up to 1000	up to 2020 up to 1250	up to 2020 up to 1250	up to 2450 up to 1525	up to 2450 up to 1525
Heat/Cool - 20% - 15% Heat/Cool - 25% - 15%	up to 970 up to 610	up to 1080 up to 680	up to 1380 up to 860	up to 1380 up to 860	up to 1670 up to 1030	up to 1670 up to 1030

TWO MODULE AXIAL FAN/HEATER MODELS

Specifications	T168	T208	T209	T248	T249
Total grain holding cap. (Approx.)	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. normal operating	up to 20 M	up to 25 M	up to 25 M	up to 30 M	up to 30 M
Fan hp & diameter - top module	(1) 20 hp, 44"	(1) 30 hp, 44"	(2) 15 hp, 38"	(1) 40 hp, 44"	(2) 20 hp, 38"
- middle module	(1) 20 hp, 44"	(1) 30 hp, 44"	(2) 15 hp, 38"	(1) 40 hp, 44"	(2) 20 hp, 38"
- bottom module	(2) 10hp, 38"	(2) 10 hp, 38"	(2) 15 hp, 38"	(2) 20 hp, 38"	(2) 20 hp, 38"
Load auger HP	5 hp	7.5 hp	7.5 hp	7.5 hp	7.5 hp
Unload auger HP	5 hp	7.5 hp	7.5 hp	7.5 hp	7.5 hp
Plenum - top module	Single	Single	50/50	Single	50/50
- middle module	Single	Single	50/50	Single	50/50
- bottom module	50/50	50/50	50/50	50/50	50/50
Transport height**	13'4"	13'4"	13'4"	13'4"	13'4"
Installed height***	37'8"	37'8"	37'8"	37'8"	37'8"
Installed length	25'	29'	29'	33'	33'
Installed width (less catwalks)	8'6"	8'6"	8'6"	8'6"	8'6"
Weight w/wheels & wet holding bin	33,000#	37,500#	37,500#	42,000#	42,000#
Fuel type	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG
230v, 3ph Min./Max. Amps+	202/400	304/400	366/600	390/600	380/600
460v, 3ph Min./Max. Amps+	101/250	152/250	183/250	195/250	190/250
Est. Drying Capacities	***Bushels/Hour****				
Full Heat - 20% - 15% Full Heat - 25% - 15%	up to 2380 up to 1475	up to 2950 up to 1830	up to 2950 up to 1830	up to 3600 up to 2250	up to 3600 up to 2250
Heat/Cool - 20% - 15% Heat/Cool - 25% - 15%	up to 1460 up to 915	up to 1810 up to 1125	up to 1810 up to 1125	up to 2225 up to 1380	up to 2225 up to 1380

THREE MODULE AXIAL FAN/HEATER MODELS

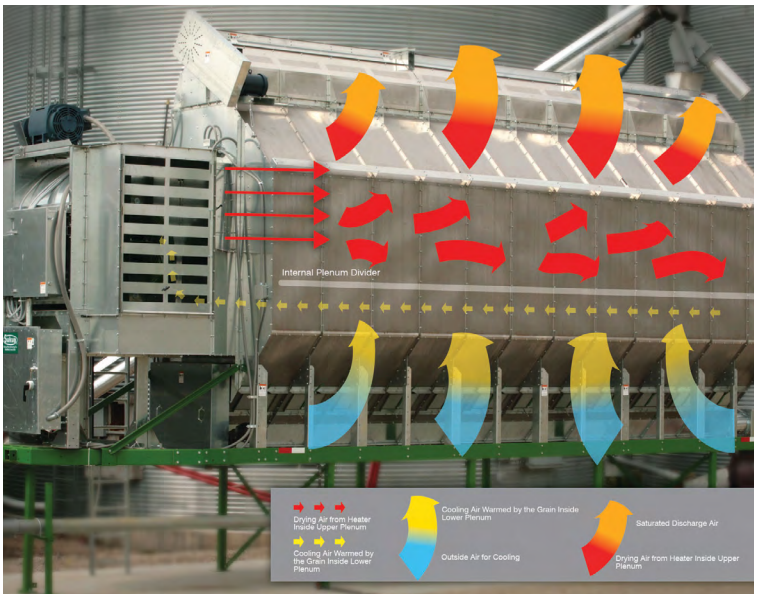
**Drying capacities listed (in wet bushels/hour) are for No. 2 shelled yellow corn at the listed moisture contents. Full-heat capacity estimates are for grain discharged hot at 17% moisture, resulting in approximately 15% moisture after steeping and cooling. Capacities listed are estimates based on drying principles, testing results, and computer simulations. These are not to be used as a guarantee of dryer performance. **Transport height is with wet holding bin lowered on upper unit. ***Installed height is frame to fill hopper, less legs. +Min. Amps= FLA of all motors. Max. Amps = main switch size. 208v, 3ph min. amp = 230v, 3ph min. amps x 1.15. Single phase dryers with fans 20hp + use Sukup Single Phase to Three Phase Power Converter. Amps noted in italics.*

CENTRIFUGAL DRYERS

SINGLE FAN/HEATER DRYERS

Features

- Quad Metering Roll System
- QuadraTouch ProTM controls
- Sukup belt-driven Dual Inlet Centrifugal Fans.
- Fuel-efficient Sukup “H” line burner.



2/3-1/3 Split Plenum 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.

Single Plenum Dryers

- Operate in full heat mode.
- Same features as our single plenum axial dryers, but with the added benefit of quieter operation.

SINGLE MODULE FAN/HEATER SPECIFICATIONS

SINGLE CENTRIFUGAL FAN/HEATER MODELS

Specifications	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.	570 Bu.	380 Bu.	475 Bu.	570 Bu.
BTU/Hr. normal operating	up to 6 M	up to 10 M	up to 10 M	up to 6 M	up to 10 M	up to 10 M
Fan hp (dual inlet)	30 hp	40 hp	50 hp	30 hp	40 hp	50 hp
Load auger HP	3 hp	5 hp	7.5 hp	3 hp	5 hp	7.5 hp
Unload auger HP	3 hp	5 hp	5 hp	3 hp	5 hp	5 hp
Plenum	Single	Single	Single	2/3 - 1/3	2/3 - 1/3	2/3 - 1/3
Transport height**	13’4”	13’4”	13’4”	13’4”	13’4”	13’4”
Installed height***	14’7”	14’7”	14’7”	14’7”	14’7”	14’7”
Installed length	27’	31’	35’	27’	31’	35’
Installed width	7'11"	7'11"	7'11"	7'11"	7'11"	7'11"
Weight w/wheels & wet holding bin	9900#	11,500#	12,800#	10,000#	11,600#	12,900#
Fuel type	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG
230v, 1ph Min./Max. Amps+	*175/400*	*230/400*	*275/600*	*175/400*	*230/400*	*275/600*
230v, 3ph Min./Max. Amps+	100/250	140/250	160/250	100/250	140/250	160/400
460v, 3ph Min./Max. Amps+	50/100	70/100	80/250	50/100	70/100	80/250
575v, 3ph Min./Max. Amps+	40/100	56/100	65/100	43/100	56/100	65/100
Est. Drying Capacities	***Bushels/Hour****					
Full Heat - 20% - 15% Full Heat - 25% - 15%	up to 740 up to 450	up to 970 up to 600	up to 1025 up to 710	up to 740 up to 450	up to 970 up to 600	up to 1025 up to 710
Pressure Heat/Vacuum Cool - 20% - 15% Pressure Heat/Vacuum Cool - 25% - 15%				up to 395 up to 250	up to 520 up to 320	up to 620 up to 390

**Drying capacities listed (in wet bushels/hour) are for No. 2 shelled yellow corn at the listed moisture contents. Full-heat capacity estimates are for grain discharged hot at 17% moisture, resulting in approximately 15% moisture after steeping and cooling. Capacities listed are estimates based on drying principles, testing results, and computer simulations. These are not to be used as a guarantee of dryer performance.*

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

****Installed height is frame to fill hopper, less legs.*

+Min. Amps= FLA of all motors. Max. Amps = main switch size. 208v, 3ph min. amp = 230v, 3ph min. amps x 1.15.

Single phase dryers with fans 20hp + use Sukup Single Phase to Three Phase Power Converter. Amps noted in italics.

CENTRIFUGAL AND HYBRID DRYERS

TWO MODULE & HYBRID FAN/HEATER DRYERS

Centrifugal Stacked Dryers

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

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

Hybrid Stacked Dryers

- An economical way to reap the benefits of a full heat/vacuum cool configuration.
- Axial on top module, centrifugal on bottom.
- The axial module always runs in full heat, so you use less horsepower to get the same airflow.
- Centrifugal module allows you to vacuum cool for maximum efficiency.

TWO MODULE & HYBRID FAN/HEATER SPECIFICATIONS

**Drying capacities listed (in wet bushels/ hour) are for No. 2 shelled yellow corn at the listed moisture contents. Full-heat capacity estimates are for grain discharged hot at 17% moisture, resulting in approximately 15% moisture after steeping and cooling. Capacities listed are estimates based on drying principles, testing results, and computer simulations. These are not to be used as a guarantee of dryer performance.*

***Transport height is with wet holding bin lowered on upper unit*
****Installed height is frame to fill hopper, less legs.*
+Min. Amps= FLA of all motors. Max. Amps = main switch size.
208v, 3ph min. amp = 230v, 3ph min. amps x 1.15.
Single phase dryers with fans 20hp + use Sukup Single Phase to Three Phase Power Converter. Amps noted in italics.
A = Axial, C = Centrifugal

Specifications	TC165	TC205	TC245	TH165	TH205	TH245
Total grain holding cap. (Approx.)	850 Bu.	1050 Bu.	1250 Bu.	850 Bu.	1050 Bu.	1250 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	760 Bu.	950 Bu.	1140 Bu.	760 Bu.	950 Bu.	1140 Bu.
BTU/Hr. normal operating	up to 13 M	up to 16.5 M	up to 20 M	up to 13 M	up to 16.5 M	up to 20 M
Fan hp and diameter - top module	30 hp	40 hp	50 hp	20 hp, 44" A	30 hp, 44" A	40 hp, 44" A
- bottom module	30 hp	40 hp	50 hp	30 hp C	40 hp C	50 hp C
Load auger HP	3 hp	5 hp	7.5 hp	3 hp	5 hp	7.5 hp
Unload auger HP	3 hp	5 hp	5 hp	3 hp	5 hp	5 hp
Plenum - top module	Single	Single	Single	Single	Single	Single
- bottom module	50/50	50/50	50/50	50/50	50/50	50/50
Transport height**	13'4"	13'4"	13'4"	13'4"	13'4"	13'4"
Installed height***	26'3"	26'3"	26'3"	26'3"	26'3"	26'3"
Installed length	27'	31'	35'	27'	31'	35'
Installed width (less catwalks)	8'6"	8'6"	8'6"	8'6"	8'6"	8'6"
Weight w/wheels & wet holding bin	24,000#	27,000#	30,000#	24,000#	27,000#	30,000#
Fuel type	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG	LP or NG
230v, 1ph Min./Max. Amps+		*390/600*	*470/800*		*280/600*	*340/600*
230v, 3ph Min./Max. Amps+	160/400	220/400	270/400	160/250	220/400	270/400
460v, 3ph Min./Max. Amps+	80/250	114/250	133/250	80/250	110/250	135/250
575v, 3ph Min./Max. Amps+	72/100	91/250	106/250	65/100	88/250	108/250
Est. Drying Capacities	***Bushels/Hour****					
Full Heat - 20% - 15% Full Heat - 25% - 15%	up to 1600 up to 1000	up to 2020 up to 1250	up to 2450 up to 1525	up to 1600 up to 1000	up to 2020 up to 1250	up to 2450 up to 1525
Press. Heat/Vac Cool - 20% - 15% Press. Heat/Vac Cool - 25% - 15%	up to 970 up to 610	up to 1240 up to 775	up to 1500 up to 925	up to 970 up to 610	up to 1240 up to 775	up to 1500 up to 925

TWO MODULE CENTRIFUGAL & HYBRID FAN/HEATER MODELS

Sukup Manufacturing Co. is the world's largest family-owned and operated manufacturer of grain storage, drying, and handling equipment. The company is headquartered in America's heartland – Sheffield, Iowa – and covers over one million square feet of office, manufacturing, and warehouse space.

Sukup® constantly strives to push the boundaries of innovation and quality and currently holds the record for the world's largest grain bin that holds 2.2 million bushels of corn. The company prides itself on their philanthropic efforts in giving back to local, statewide, and international charities including the design and construction of Safe T Home®, a patented structure suitable for recovery efforts.

Take a look at the Mixed-Flow and Aspirator

SUKUP SOLUTIONS™ SINCE 1963

Aspirator

- Removes bees' wings and lightweight debris from the grain stream, improving grain cleanliness
- Versatile installation at any point where grain is falling, such as dryer unloads and bucket elevator transitions
- Reduces buildup with a specially designed fan blade, minimizing maintenance needs

Sukup Manufacturing Co. | www.sukup.com
Box 677 1555 255th St. | Sheffield, IA 50475-0677 | ph 641.892.4222
fx 641.892.4629 | info@sukup.com

Distribution Centers

Arcola, IL 61910
980 E. State Rte. 133
ph 217.268.3026
illinois@sukup.com

York, NE 68467
2311 N Division Ave
ph 402.534.1108
nebraska@sukup.com

Cameron, MO 64429
7426 NE 352nd St.
ph 816.649.2226
missouri@sukup.com

Defiance, OH 43512
7724 Rte. 66 N.
ph 419.784.9871
ohio@sukup.com

Jonesboro, AR 72403
204 Best Industrial Dr.
ph 870.932.7547
arkansas@sukup.com

L1130-122025Su