

# GRAIN DRYERS

## CROSS FLOW



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# 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, QuadraTouch™ 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 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.*

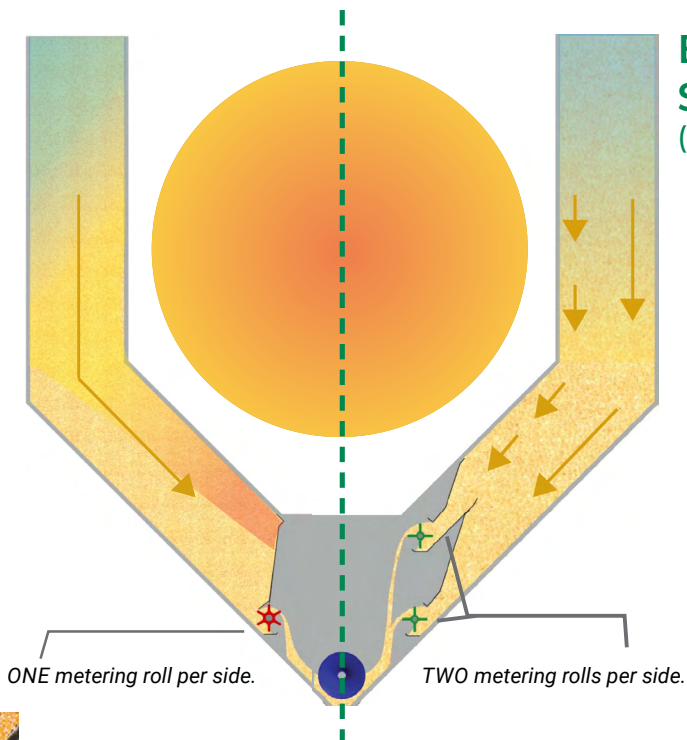


**QUAD METERING ROLLS**  
QUALITY. EFFICIENCY. SPEED.

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.



## 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



# 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

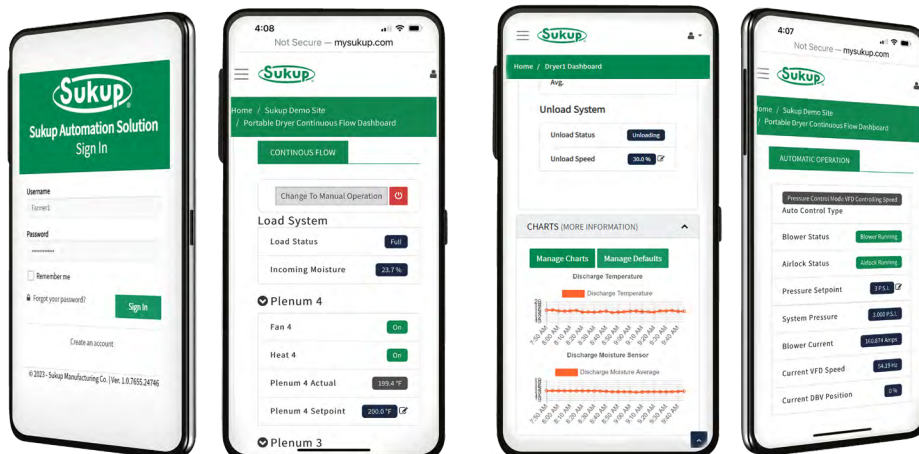
The easy to use Sukup QuadraTouch Pro™ control system gives you access to information critical for your operation.

# 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 multiple 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.

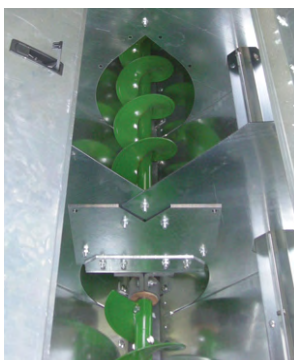


*Sukup Centrifugal Dryer*

## 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.



### 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.

- 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 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 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.



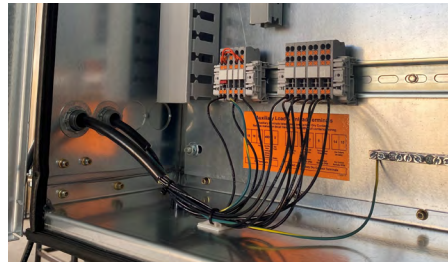
Sukup was the first company to make true moisture sensing standard on its dryers. Sampling the grain moisture, rather than temperature, gives a more accurate measure of drying progress and results in more consistent final moisture content. (For economical, temperature-based drying, ask about our Streamline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

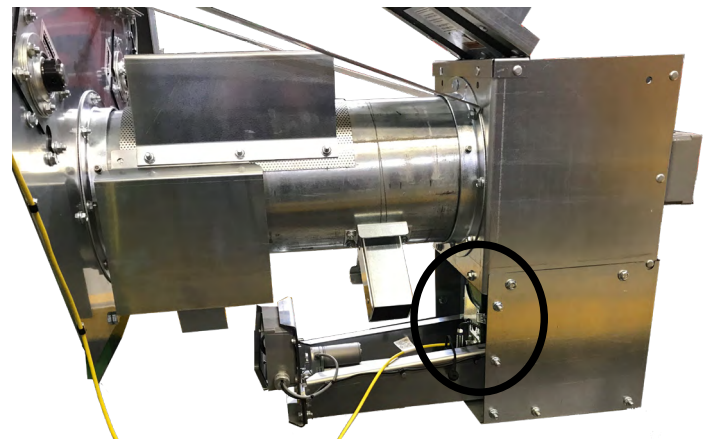
### Auxiliary Control Box

- 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.



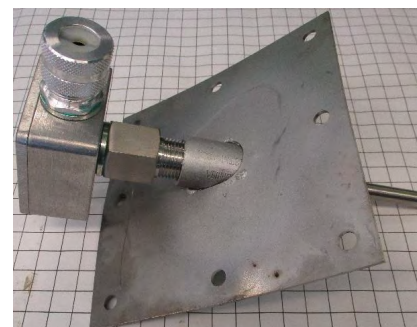
### Auger Static Sampler *OPTIONAL*

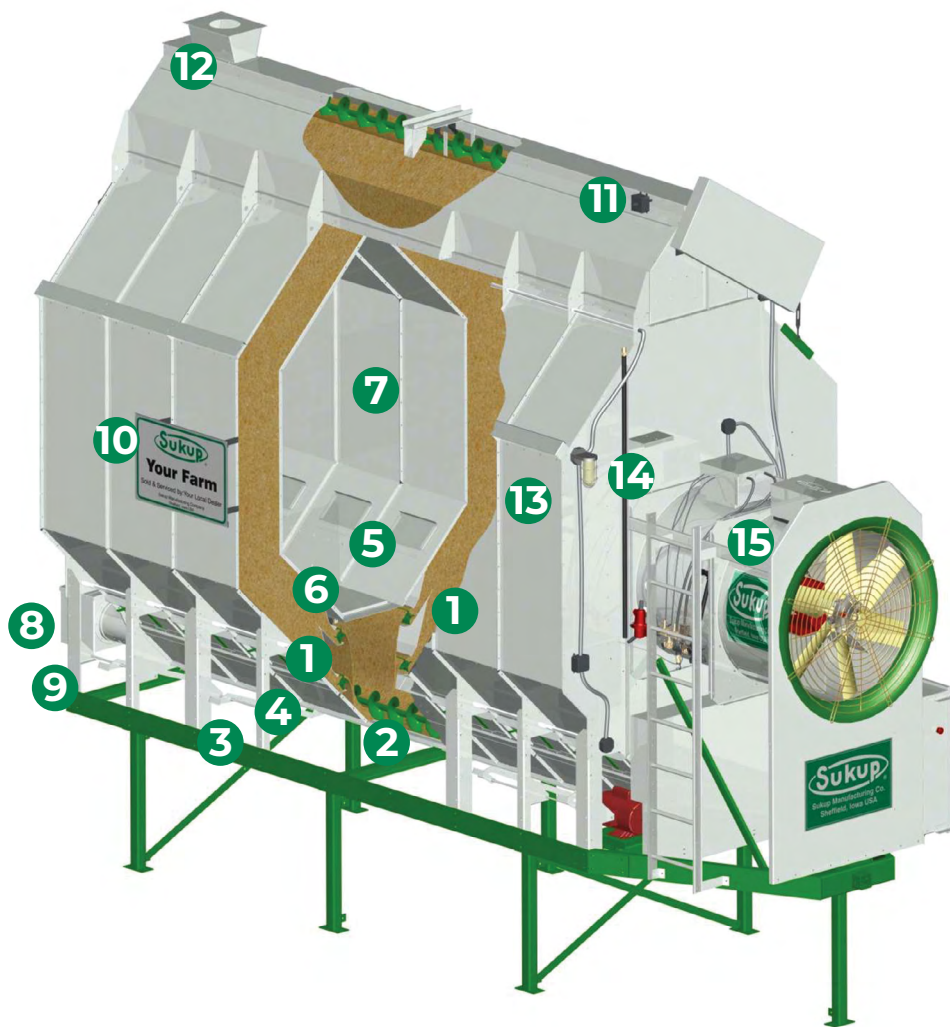
- The Static Moisture Sampler tests the grain as it leaves the dryer.
- It catches a sample of grain, measures the moisture and temperature then drops it.
- The moisture sensor is mounted vertically to minimize any fines buildup.



### 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 Three 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                  |
|                                | <b>Est. Drying Capacities</b>                  | <b>Bushels/Hour*</b>   |                        |                        |                        |                        |                         |
|                                |                                                | T8                     | T12                    | T16                    |                        | T20                    | T24                     |
|                                | Full Heat - 20% - 15%<br>Full Heat - 25% - 15% | up to 340<br>up to 210 | up to 570<br>up to 350 | up to 650<br>up to 405 | up to 725<br>up to 450 | up to 925<br>up to 575 | up to 1050<br>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

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

- **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'.



## 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 <sup>+</sup> | 200/400              | 242/600     | 170/400       | 190/400       | 245/600       | 275/600       |
| 230v, 3ph Min./Max. Amps <sup>+</sup> | 134/250              | 168/250     | 114/250       | 125/250       | 174/250       | 188/400       |
| 460v, 3ph Min./Max. Amps <sup>+</sup> | 63/100               | 78/250      | 57/100        | 63/100        | 87/250        | 94/250        |
| 575v, 3ph Min./Max. Amps <sup>+</sup> | 48/100               | 60/250      | 42/100        | 46/100        | 62/100        | 69/100        |
| <b>Est. Drying Capacities</b>         | <b>Bushels/Hour*</b> |             |               |               |               |               |
|                                       | <b>T202</b>          | <b>T242</b> | <b>T163</b>   | <b>T203</b>   | <b>T243</b>   | <b>T283</b>   |
| Full Heat - 20% - 15%                 | up to 1000           | up to 1180  | up to 740     | up to 970     | up to 1025    | up to 1200    |
| Full Heat - 25% - 15%                 | up to 620            | up to 740   | up to 450     | up to 600     | up to 710     | up to 775     |
| Heat/Cool - 20% - 15%                 | up to 470            | up to 570   | up to 440     | up to 580     | up to 690     | up to 775     |
| Heat/Cool - 25% - 15%                 | up to 300            | up to 350   | up to 280     | up to 355     | up to 435     | 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       |
| <b>Est. Drying Capacities</b>      | <b>Bushels/Hour*</b> |               |               |               |               |               |
| Full Heat - 20% - 15%              | up to 1440           | up to 1600    | up to 2020    | up to 2020    | up to 2450    | up to 2450    |
| Full Heat - 25% - 15%              | up to 900            | up to 1000    | up to 1250    | up to 1250    | up to 1525    | up to 1525    |
| Heat/Cool - 20% - 15%              | up to 970            | up to 1080    | up to 1380    | up to 1380    | up to 1670    | up to 1670    |
| Heat/Cool - 25% - 15%              | up to 610            | up to 680     | up to 860     | up to 860     | up to 1030    | 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        |
| <b>Est. Drying Capacities</b>      | <b>Bushels/Hour*</b> |                |                |                |                |
| Full Heat - 20% - 15%              | up to 2380           | up to 2950     | up to 2950     | up to 3600     | up to 3600     |
| Full Heat - 25% - 15%              | up to 1475           | up to 1830     | up to 1830     | up to 2250     | up to 2250     |
| Heat/Cool - 20% - 15%              | up to 1460           | up to 1810     | up to 1810     | up to 2225     | up to 2225     |
| Heat/Cool - 25% - 15%              | up to 915            | up to 1125     | up to 1125     | up to 1380     | 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

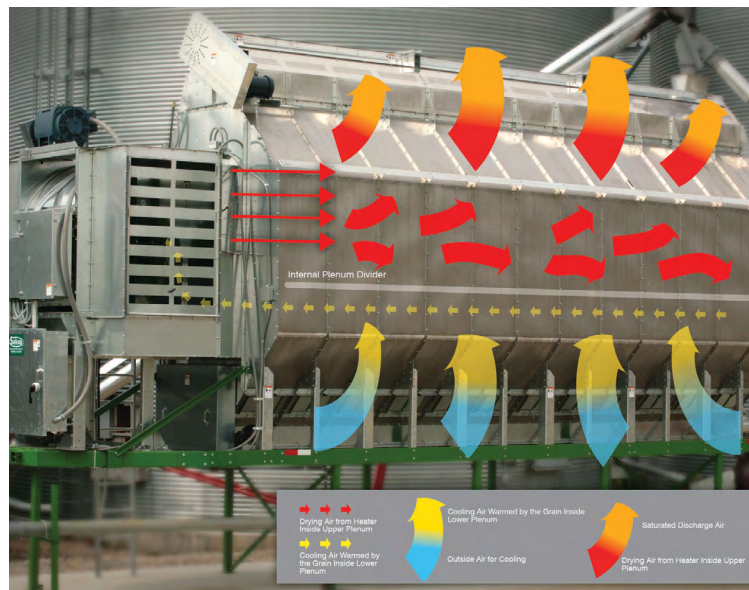
## SINGLE FAN/HEATER DRYERS

### 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%                 |                                    | up to 740     | up to 970  | up to 1025 | up to 740 | up to 970  | up to 1025 |
| Full Heat - 25% - 15%                 |                                    | up to 450     | up to 600  | up to 710  | up to 450 | up to 600  | up to 710  |
| Pressure Heat/Vacuum Cool - 20% - 15% |                                    |               |            |            | up to 395 | up to 520  | up to 620  |
| Pressure Heat/Vacuum Cool - 25% - 15% |                                    |               |            |            | up to 250 | up to 320  | 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-Over™ 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      |
| <b>Est. Drying Capacities</b>      | <b>Bushels/Hour*</b> |              |            |              |              |              |
| Full Heat - 20% - 15%              | up to 1600           | up to 2020   | up to 2450 | up to 1600   | up to 2020   | up to 2450   |
| Full Heat - 25% - 15%              | up to 1000           | up to 1250   | up to 1525 | up to 1000   | up to 1250   | up to 1525   |
| Press. Heat/Vac Cool - 20% - 15%   | up to 970            | up to 1240   | up to 1500 | up to 970    | up to 1240   | up to 1500   |
| Press. Heat/Vac Cool - 25% - 15%   | up to 610            | up to 775    | up to 925  | up to 610    | up to 775    | 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



### 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](http://www.sukup.com)**

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