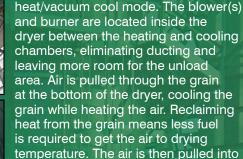




Tower Dryers



ADVANTAGE The Sukup Tower Dryer operates in a heat/vacuum cool mode. The blower(s



into the drying chamber.

the blowers, through the burner and

VACUUM COOLING EFFICIENCY



BALANCED MOISTURE CONTENT

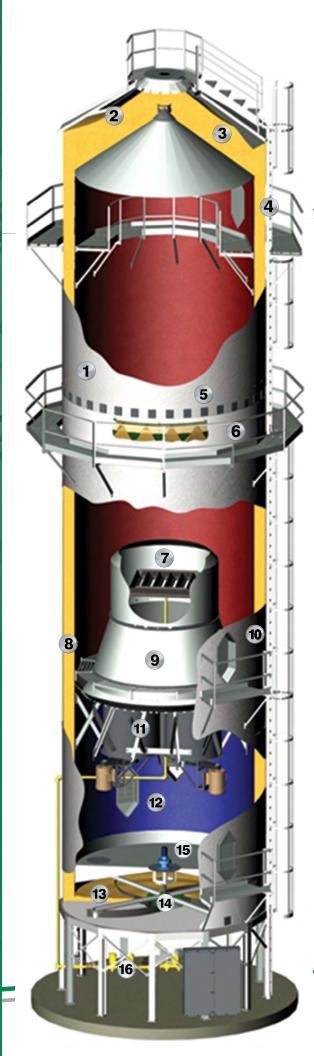
Grain enters the top of the dryer through a load system that is controlled by rotary switches that allow choke fill (dryer is kept full of grain all the time) or demand fill (the load system is turned on and off as needed). The grain then flows down the dryer in a 12¾" thick column. Drying occurs in the top 2/3 of the dryer with the grain being inverted halfway down the drying section by Grain Exchangers. Inverting the grain takes the faster-drying grain from the inside of the column and moves it to the outside, resulting in more balanced moisture content.



The grain then flows into the cooling chamber and spills out onto the flat, stainless steel grain table of the unload chamber. A large rotor with curved paddles (the only moving part of the dryer) sweeps grain to the center of the dryer and out the discharge hopper.

EFFORTLESS OPERATION

The temperature of the air in the drying chamber and the speed of the unload rotor are adjustable. The operator selects a desired drying temperature and the speed of the unload rotor is varied to obtain desired moisture output. Unload rotor speed is adjusted automatically based on the grain temperature in the bottom of the heat chamber or on the incoming and outgoing moisture content. If necessary, the unload rotor speed can be adjusted manually.



An Efficient Dryer that's easy to use... Now that's a Solution TM

FEATURES

- STAINLESS STEEL outer screens, nuts, and bolts resist rust and keep your dryer looking good for years to come.
- PERFORATED SHEETS allow air to move easily through the grain, yet retain the bulk of the particulate matter.
- ROTARY SENSORS for choke fill or demand fill are standard.
- EXTRA-LARGE WET HOLDING BIN features solid sheeting to keep grain dust and particulate matter confined within the dryer.
- 12¾" WIDE GRAIN COLUMNS for longer air retention and maximum efficiency. 4
- TWO CLEAN-OUT DOORS per panel in grain exchange section allow for easy removal of debris.
- GRAIN EXCHANGERS
 move grain from inside of
 the column to the outside
 for more even moisture
 content and consistent
 grain temperature.
- SOLID OUTER SHEETING
 in GRAIN EXCHANGER
 SECTION to maintain
 balanced heat/air
 distribution in the plenum
 and avoid blowing large
 amounts of particulate matter into the atmosphere.
- LOW PRESSURE BURNER is aluminum so holes do not rust shut, giving wide operating temperature range, high fuel efficiency, and low emissions.
- RTD COLUMN SENSOR monitors grain temperature at its hottest point in the heat chamber.
- REDUCER CONE channels the air from blower(s) evenly past the burner unit.
- ENTRY AREAS in outer screens and reducer cone allow access to the burner area for easy interior cleaning.

- INDUSTRIAL GRADE INLINE CENTRIFUGAL BLOWERS quietly provide high airflow even with vacuum cooling. 11
- LOUVERED AIR VENTS allow control over the amount of ambient air being pulled through the grain for cooling.
- LEVELING WHEELS (patented) on paddles ensure consistent grain flow, maximum removal, and keep unload paddles from scraping against the floor.
- PADDLES and GRAIN TABLE on UNLOAD SYSTEM are stainless steel for long life. 14
- POSITIVE UNLOADING SYSTEM uses paddles to evenly sweep grain to the center discharge hopper.
- GEARBOX requires minimal maintenance, since it maintains positive lubrication even with variable speed operation.
- PIPETRAIN has TWO STANDARD SAFETY SHUT-OFF VALVES that are electronically operated from the touchscreen. The push of a button activates the heater.
- SIGNALS FOR AUXILIARY CONTROLS on incoming/outgoing side are standard and adjustable.
- UNLOAD RATE is controlled automatically based on grain temperature or moisture. Unload rate can also be manually controlled.
- SPOUT on DISCHARGE provides a safe and easy way to sample grain for calibrating moisture sensor.
- INCOMING and OUTGOING MOISTURE SENSORS are standard.
- ELECTRONIC MOD-VALVE heater control maintains a fuel efficient, steady plenum temperature.
- GALVANIZED LEGS are hot-dipped for resistance to rusting.
- ANGLE RING INLET and DISCHARGE allow for easy hook-up to fill and take-away equipment.



The Sukup *QuadraTouch*™ control system creates:

EASY START-UP & OPERATION

SIMPLE, MENU-DRIVEN SYSTEM

The Sukup *QuadraTouch*™ 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*™ can be placed up to 200' away from the dryer using just an ethernet cable.

THE QuadraTouch™ is a PLC-BASED SYSTEM.

The PLC 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.

THE QuadraTouch™ SYSTEM USES ADVANCED CONTROL ALGORITHMS TO INCREASE DRYER EFFICIENCY AND REDUCE LARGE SWINGS IN TEMPERATURE AND

MOISTURE. This system minimizes 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.

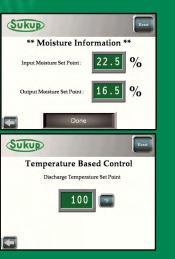


COMPREHENSIVE INFORMATION WITH THE TOUCH OF A BUTTON

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







TWO OPTIONS FOR REMOTE MONITORING

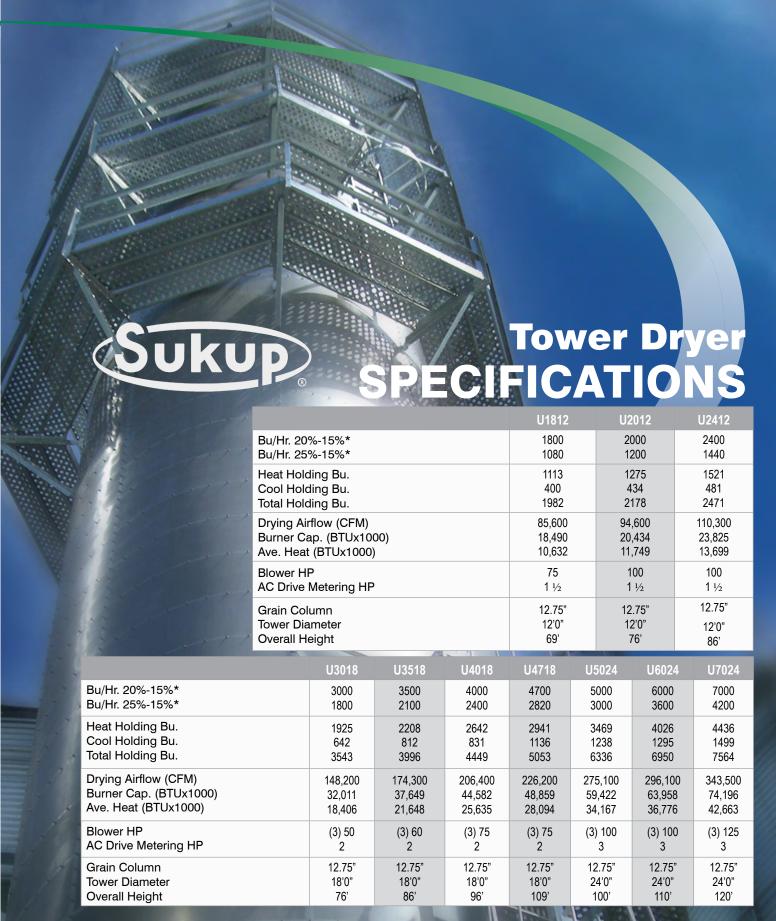
THE GSM PHONE MODEM WORKS WITH QuadraTouch™ CONTROLS and OPERATES THROUGH GSM CELL

PHONE SERVICE. If the dryer shuts down, the GSM service sends a text message to a predetermined cell phone number, noting the fault. You can also text message the dryer to receive current dryer status, or adjust moisture, unload speed, and plenum temperature settings.

REMOTE MONITORING SOFTWARE ALLOWS YOU TO VIEW THE QuadraTouch™ SCREEN ON YOUR

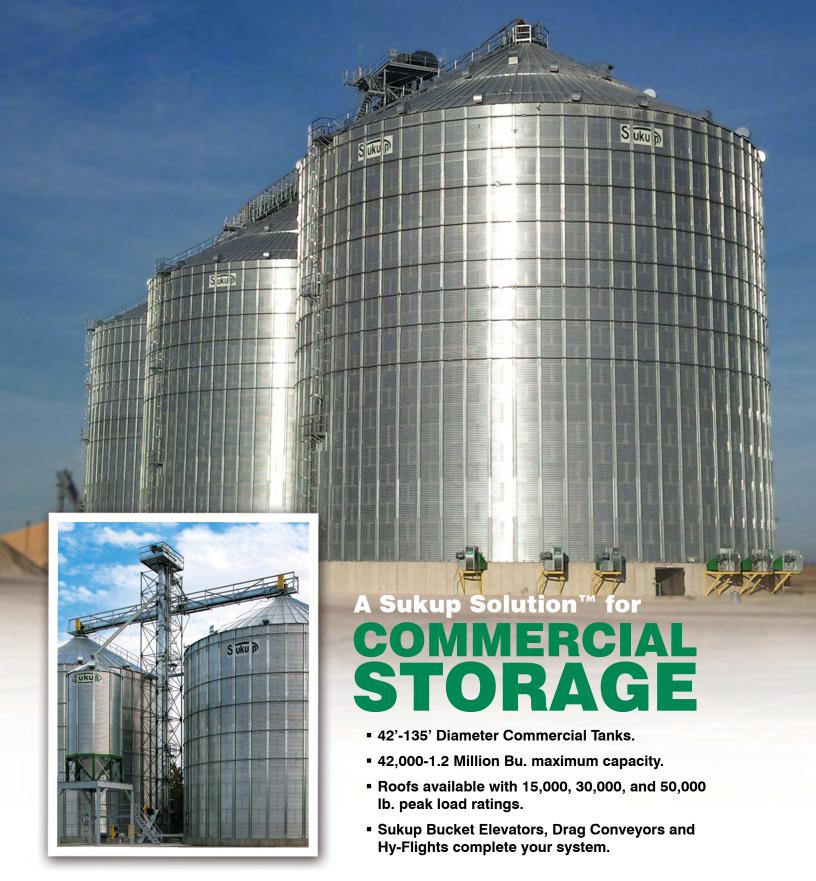
COMPUTER. You can set up a network on location with dryer or through the internet to view it anywhere and adjust settings including temperature and moisture.





Sukup Manufacturing Co. provides this information to assist you in choosing the optimal equipment for your situation. Many factors, such as grain variety, maturit levels, grain cleanliness, weather conditions and operation/management, can affect the performance of your tower 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 and are estimates based on drying principles, field results and/or computer simulation at 50° ambient temperature and 60% humidity at 220° F average plenum temperature.





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 **Aurora, NE 68818** 1705 Hwy. 34 E. ph 402.694.5922 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 5917 E. Johnson Ave. ph 870.932.7547 arkansas@sukup.com Watertown, SD 57201 2701 Piper Ave. ph 605.882.6697 southdakota@sukup.com