



— BROCK SOLID® —

SUPERB ENERGY MISER®  
**SQ SERIES**  
CROSS FLOW DRYER



**SUPERB**

**ENERGY MISER**

SQ

Brock Grain Systems

SQ20

**SUPERB**  
ENERGY MISER  
SQ Series Dryer

Safeguarding Your Grain® Since 1957

# Choice of Drying Modes

**SUPERB**

**ENERGY MISER**

SQ

## Full Heat Continuous Flow Dryers



**SQ D Series**  
Full Heat - Single Zone

## Full Heat Continuous Flow Dryers Using Two Temperature Zones



**SQ M Series**  
Modified Full Heat - Single Zone or Two-Zone  
Pressure Heat / Pressure Cool

## Continuous Flow Dryers with Louvers



**SQ E Series**  
Modified Full Heat - Single Zone or Two-Zone  
Pressure Heat / Pressure Cool  
Pressure Heat / Vacuum Cool

## Continuous Flow Dryers with Louvers and Hot Air Return Ducts

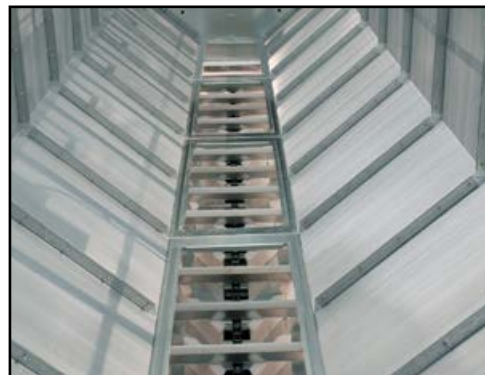


**SQ A Series**  
Modified Full Heat - Single Zone or Two-Zone  
Pressure Heat / Pressure Cool  
Pressure Heat / Vacuum Cool  
Hot Air Return Ducts

# EVENFLO® Unloading System

## Unique EVENFLO® Unloading System Is Part of Brock's Difference by Design

- Gentle handling of the grain using the EVENFLO® System's efficient, slow-moving drag-style conveyor.
- Patented conveyor unloading system replaces auger and metering rolls.
- Even unloading of grain columns with proven ability to pass most debris.
- More durable and safer to operate than auger systems.



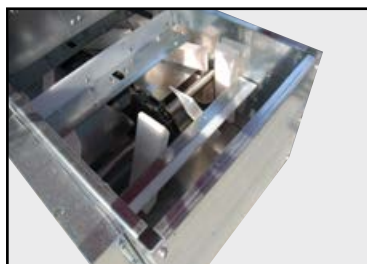
Take-up adjustments are located at both ends of the conveyor. This feature helps you to easily adjust the chain if needed.



## How Does the Brock EVENFLO® Dryer Unloading System Work?



- The top portion of the chain conveyor passes by the column of dried grain, continuously removing grain from the column.
- Grain is then carried to square holes allowing the grain to fall through to the bottom trough.
- Paddles on the conveyor move the dried grain to the dryer discharge.



Clean up between crops or at the end of the drying season is easy:

- The top cover of the conveyor assembly can be removed for safer, easier cleaning.
- No meter rolls to clean.

The EVENFLO® System's uniform unloading of grain dryer columns provides consistent drying results. Slow, straight-line movement of grain is also ideal for sensor accuracy in monitoring exit moisture content.



Low horsepower, variable-speed AC motor is used to economically power the EVENFLO System.



**SUPERB****ENERGY MISER®**

# SQ

## Features For Meeting Your

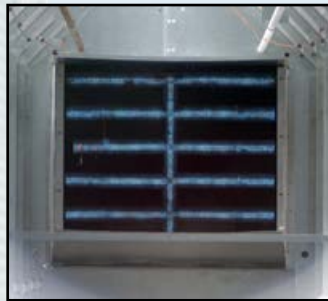


### **Stainless Steel Outer Skins**

Stainless steel outer 18-gauge perforated skins are standard on all SUPERB ENERGY MISER® SQ Series Dryers for a lifetime of satisfaction. With proper care and maintenance, stainless steel perforated skins offer long life and high asset retention value. Screen perforations available for multiple commodities.

### **Efficient Full Flame-Wall Burner**

Brock's full flame-wall burner with stainless steel baffles provides a generous square footage of flame surface and distributes heat evenly to all the grain columns. Using a shorter flame, this fuel-efficient Brock burner burns cleanly and provides uniform plenum temperatures to help maintain top grain quality. Optional stainless-steel burner is available.



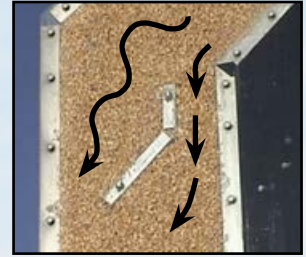
### **Unobstructed Heat Movement**

The SQ Series Dryer's unique built-in vaporizer is located out of the burner's airflow to ensure uniform heat distribution.

### **Moisture Equalizers**

Patented Brock  
MOISTURE  
EQUALIZER®

System maintains grain quality by moving the hottest and driest grain through the dryer faster for greater drying uniformity and less over-drying.



### **Vertical Access Plenum Door**

A 42- x 22-inch (1067- x 559-mm) vertical access door is provided for easy access to the dryer's plenum areas. A door safety switch is standard on all SUPERB ENERGY MISER Cross Flow Dryers. If the door is opened during operation, the dryer will shut down.

### **Perforated Wet Garner Bin**

The drying process starts in the perforated wet garner bin. Heated air is routed from the dryer through this temporary grain holding area to pre-heat and begin drying the wet grain.



# On-Farm Grain Drying Needs



## Variable Width Grain Column

A narrower upper grain column allows moisture-saturated drying air to escape. This variable width design dries more effectively than a larger holding capacity with a wider grain column.



## Super Quiet Drying

The SQ Series Dryers use a super quiet double-width, double-inlet centrifugal blower as standard equipment. This blower provides maximum airflow and efficiency while minimizing sound levels.



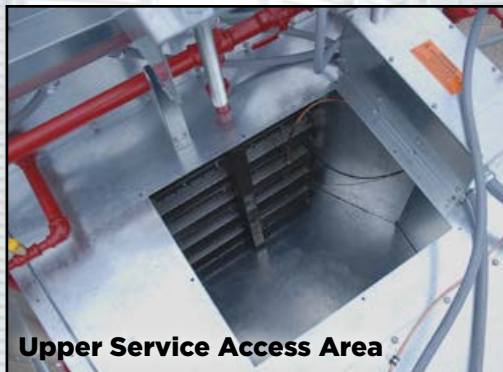
## Cool Air Control

Adjustable cooling louvers help control grain temperature by regulating the amount of cool air used for vacuum-cooling mode.



## Easy Access for Service

Access entrances at both the top and bottom of the dryer make it easy to service industrial-grade plumbing, burner, fan, motor, bearings, belts, linear limits, and the front of the unloading system. Optional Brock catwalk packages (full or half) provide a secure platform to help protect workers from slips and falls when they are completing dryer service inspections or other maintenance procedures.



Upper Service Access Area



Lower Service Access Area





## Dryer Specifications

| MODEL                               | SQ8               | SQ12              | SQ16              | SQ20               | SQ24               | SQ28               | SQ32               | SQ36               | SQ40               |
|-------------------------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Total Fan HP                        | 10                | 10                | 15                | 20                 | 25                 | 30                 | 40                 | 50                 | 50                 |
| Auger Load HP                       | 2                 | 3                 | 3                 | 5                  | 5                  | 7.5                | 7.5                | 10                 | 10                 |
| Chain Unload HP                     | 2                 | 2                 | 2                 | 2                  | 2                  | 2                  | 2                  | 3                  | 3                  |
| Column Length                       | 8' 2"<br>2.5 m    | 12' 3"<br>3.7 m   | 16' 4"<br>5.0 m   | 20' 5"<br>6.2 m    | 24' 6"<br>7.5 m    | 28' 7"<br>8.7 m    | 32' 8"<br>10.0 m   | 36' 9"<br>11.2 m   | 40' 10"<br>12.5 m  |
| Overall Length                      | 19'<br>5.8 m      | 23' 1"<br>7.0 m   | 27' 2"<br>8.3 m   | 31' 3"<br>9.5 m    | 36' 4"<br>11.1 m   | 40' 5"<br>12.3 m   | 44' 6"<br>13.6 m   | 48' 7"<br>14.8 m   | 52' 8"<br>16.1 m   |
| Overall Height                      | 14' 2"<br>4.3 m   | 14' 2"<br>4.3 m   | 14' 2"<br>4.3 m   | 14' 2"<br>4.3 m    | 14' 2"<br>4.3 m    | 14' 2"<br>4.3 m    | 14' 2"<br>4.3 m    | 14' 2"<br>4.3 m    | 14' 2"<br>4.3 m    |
| Bushels Held<br>mt*                 | 163 bu<br>4.14 mt | 245 bu<br>6.22 mt | 326 bu<br>8.28 mt | 408 bu<br>10.36 mt | 490 bu<br>12.45 mt | 572 bu<br>14.53 mt | 654 bu<br>16.61 mt | 734 bu<br>18.64 mt | 815 bu<br>20.70 mt |
| <b>SQ-A/E Dryers</b>                |                   |                   |                   |                    |                    |                    |                    |                    |                    |
| Overall Width<br>(SQ-A Dryers)      | NA                | NA                | 10' 2"<br>3.1 m   | 10' 2"<br>3.1 m    | 10' 2"<br>3.1 m    | 10' 2"<br>3.1 m    | 10' 2"<br>3.1 m    | 10' 2"<br>3.1 m    | 10' 2"<br>3.1 m    |
| Overall Width<br>(SQ-E Dryers)      | NA                | NA                | 7' 9"<br>2.4 m    | 7' 9"<br>2.4 m     | 7' 9"<br>2.4 m     | 7' 9"<br>2.4 m     | 7' 9"<br>2.4 m     | 7' 9"<br>2.4 m     | 7' 9"<br>2.4 m     |
| Burner Rating**<br>(SQ-A, E Dryers) | NA                | NA                | 4.3               | 6.6                | 7.5                | 7.9                | 9.5                | 12.6               | 13.4               |
| <b>SQ-D/M Dryers</b>                |                   |                   |                   |                    |                    |                    |                    |                    |                    |
| Overall Width<br>(SQ-D, M Dryers)   | 7' 4"<br>2.2 m    | 7' 4"<br>2.2 m    | 7' 4"<br>2.2 m    | 7' 4"<br>2.2 m     | 7' 4"<br>2.2 m     | 7' 4"<br>2.2 m     | 7' 4"<br>2.2 m     | 7' 4"<br>2.2 m     | 7' 4"<br>2.2 m     |
| Burner Rating**<br>(SQ-D, M Dryers) | 4.4               | 4.8               | 6.3               | 8.5                | 10.9               | 11.9               | 14.4               | 15.9               | 16.5               |

SUPERB ENERGY MISER® SQ Series Dryers use the following model descriptions:

**A** - Continuous flow dryer with louvers and hot air return duct and capable of full heat, pressure heat/pressure cool drying or pressure heat/vacuum cool drying.

**E** - Continuous flow dryer with louvers and capable of full heat drying, pressure heat/pressure cool drying or pressure heat/vacuum cool drying.

**D** - Continuous flow dryer capable of full heat drying.

**M** - Continuous flow dryer using two temperature zones and capable of either full heat or pressure heat/pressure cool drying.

\*Metric ton = bushel corn x .0254

\*\*Maximum burner capacity in million BTUs/hour



# SQ Series Dryer Capacities



## Drying Capacity\* - Wet Bushels Per Hour

| DRYER MODELS                                                                        |             | Per Hour | SQ8  | SQ12 | SQ16 | SQ20 | SQ24 | SQ28 | SQ32 | SQ36 | SQ40 |
|-------------------------------------------------------------------------------------|-------------|----------|------|------|------|------|------|------|------|------|------|
| <b>Full Heat - Single Zone (Model D)</b>                                            |             |          |      |      |      |      |      |      |      |      |      |
| Corn 25.5% to 15.5%**                                                               | Bushels     |          | 248  | 351  | 466  | 591  | 740  | 830  | 969  | 1066 | 1153 |
|                                                                                     | Metric Tons |          | 6.3  | 8.9  | 11.8 | 15.0 | 18.8 | 21.1 | 24.6 | 27.1 | 29.3 |
| <b>Full Heat - Single Zone (Model D)</b>                                            |             |          |      |      |      |      |      |      |      |      |      |
| Corn 20.5% to 15.5%**                                                               | Bushels     |          | 405  | 579  | 770  | 976  | 1211 | 1371 | 1601 | 1761 | 1905 |
|                                                                                     | Metric Tons |          | 10.3 | 14.7 | 19.6 | 24.8 | 30.8 | 34.8 | 40.7 | 44.7 | 48.4 |
| <b>Modified Full Heat - Single Zone (Models M,E,A) (doors in divider floor)</b>     |             |          |      |      |      |      |      |      |      |      |      |
| Corn 25.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 447  | 567  | 710  | 796  | 930  | 1023 | 1107 |
|                                                                                     | Metric Tons |          | —    | —    | 11.4 | 14.4 | 18.0 | 20.2 | 23.6 | 26.0 | 28.1 |
| <b>Modified Full Heat - Single Zone (Models M,E,A) (doors in divider floor)</b>     |             |          |      |      |      |      |      |      |      |      |      |
| Corn 20.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 740  | 937  | 1163 | 1316 | 1537 | 1691 | 1830 |
|                                                                                     | Metric Tons |          | —    | —    | 18.8 | 23.8 | 29.5 | 33.4 | 39.0 | 43.0 | 46.5 |
| <b>Pressure Heat - Two-Zone (Model M)</b>                                           |             |          |      |      |      |      |      |      |      |      |      |
| Corn 25.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 422  | 535  | 670  | 751  | 877  | 965  | 1044 |
|                                                                                     | Metric Tons |          | —    | —    | 10.7 | 13.6 | 17.0 | 19.1 | 22.3 | 24.5 | 26.5 |
| <b>Pressure Heat - Two-Zone (Model M)</b>                                           |             |          |      |      |      |      |      |      |      |      |      |
| Corn 20.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 687  | 871  | 1091 | 1223 | 1428 | 1571 | 1700 |
|                                                                                     | Metric Tons |          | —    | —    | 17.4 | 22.1 | 27.7 | 31.1 | 36.3 | 39.9 | 43.2 |
| <b>Pressure Heat &amp; Cool - Two-Zone (Models M,E,A)</b>                           |             |          |      |      |      |      |      |      |      |      |      |
| Corn 25.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 261  | 332  | 416  | 467  | 542  | 600  | 647  |
|                                                                                     | Metric Tons |          | —    | —    | 6.6  | 8.4  | 10.6 | 11.9 | 13.8 | 15.2 | 16.4 |
| <b>Pressure Heat &amp; Cool - Two-Zone (Models M,E,A)</b>                           |             |          |      |      |      |      |      |      |      |      |      |
| Corn 20.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 401  | 508  | 637  | 714  | 833  | 916  | 991  |
|                                                                                     | Metric Tons |          | —    | —    | 10.2 | 12.9 | 16.2 | 18.1 | 21.2 | 23.3 | 25.2 |
| <b>Pressure Heat &amp; Vacuum Cool - Two-Zone (Models E,A)</b>                      |             |          |      |      |      |      |      |      |      |      |      |
| Corn 25.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 294  | 366  | 454  | 519  | 595  | 673  | 740  |
|                                                                                     | Metric Tons |          | —    | —    | 7.5  | 9.3  | 11.5 | 13.2 | 15.1 | 17.1 | 18.8 |
| <b>Pressure Heat &amp; Vacuum Cool - Two-Zone (Models E,A)</b>                      |             |          |      |      |      |      |      |      |      |      |      |
| Corn 20.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 435  | 541  | 654  | 758  | 879  | 983  | 1077 |
|                                                                                     | Metric Tons |          | —    | —    | 11.0 | 13.7 | 16.6 | 19.3 | 22.3 | 25.0 | 27.4 |
| <b>Pressure Heat &amp; Vacuum Cool - Two-Zone w/ Hot Air Return Ducts (Model A)</b> |             |          |      |      |      |      |      |      |      |      |      |
| Corn 25.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 288  | 358  | 419  | 499  | 580  | 657  | 724  |
|                                                                                     | Metric Tons |          | —    | —    | 7.3  | 9.1  | 10.6 | 12.7 | 14.7 | 16.7 | 18.4 |
| <b>Pressure Heat &amp; Vacuum Cool - Two-Zone w/ Hot Air Return Ducts (Model A)</b> |             |          |      |      |      |      |      |      |      |      |      |
| Corn 20.5% to 15.5%                                                                 | Bushels     |          | N/A  | N/A  | 435  | 541  | 654  | 758  | 879  | 983  | 1077 |
|                                                                                     | Metric Tons |          | —    | —    | 11.0 | 13.7 | 16.6 | 19.3 | 22.3 | 25.0 | 27.4 |

\*Drying capacities are the result of a combination of field tests and averages of customer-reported capacities. These capacities should be attainable in one pass with mature, unfrozen, clean (maximum of 2% fines) grain when operating the dryer at the recommended drying temperature. Drying capacities will vary depending upon weather conditions, hybrid variety, grain maturity, and cleanliness of the grain.

\*\*Final moisture in bin after steeping and cooling. Final moisture in bin can be affected by ambient conditions, steeping times and cooling rates.

# Advanced Electronic Grain Drying Control

## INTUI-DRY® Dryer Control Option

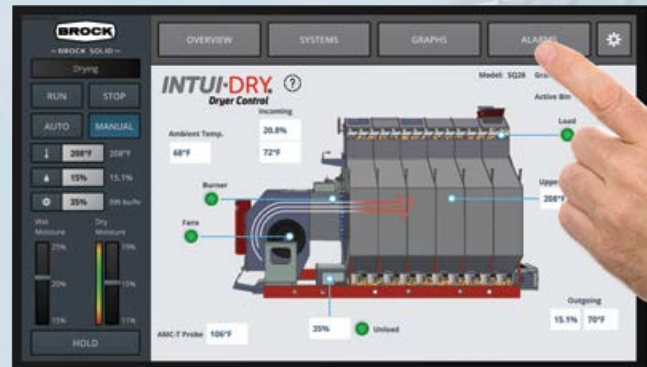
It's innovative. It's intuitive. It's mission control made simple. The INTUI-DRY® Controller's proven drying algorithms and straight-forward controls take grain drying to the next level.

### Built From The Ground Up

From the solid-state components to the all-new software system, Brock took a clean-slate approach to build one of the most reliable and intuitive dryer management systems. INTUI-DRY Control also has quick connectors and fewer components for easy maintenance.

### Easy Connections

It connects to your dryer with standard Ethernet cable. If your grain drying system already has PLC controls, the INTUI-DRY Control can signal the PLC via three digital outputs that key conditions are occurring and can take a key action when signaled by the PLC through a digital input.



### Remote Control

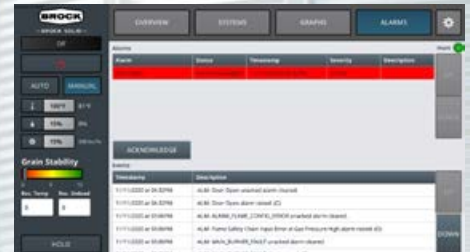
Web-based monitoring of the INTUI-DRY Controller gives you enhanced remote access through your smartphone, tablet or laptop computer.



The **SYSTEMS** screen provides detailed access and control of main dryer systems.



The **GRAPHS** screen clearly outlines both wet and dry moisture percentages, so you can track trends throughout the day or further back in time.

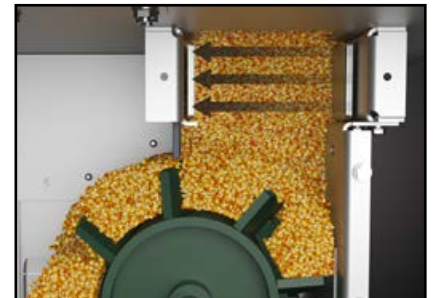


The **ALARMS** screen lets you quickly see alarm events with codes and accurate timestamps.

## TrueGrain® Moisture Sensor System Option with Parallel Sensing Technology®

Set your grain dryer moisture level more precisely. With Brock's exclusive patent pending TrueGrain® System, grain passes through a parallel sensing field in a fixed vertical chamber that isolates outside factors. This advancement allows your Brock dryer to output more accurate grain moisture levels and more consistent profitability.

See this one-of-a-kind technology at  
[brockgrain.com/TrueGrain](http://brockgrain.com/TrueGrain)



— **BROCK SOLID®** —

Safeguarding Your Grain® Since 1957

## BROCK GRAIN SYSTEMS

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