PORTABLE GRAIN DRYING
GRAIN DRYERS

With over 37 years of experience in the agricultural equipment manufacturing business, Grain Systems (GSI) has all the resources and expertise necessary to meet your specific needs.

GSI offers the most technologically advanced and reliable dryers on the market today. We also offer the widest selection of dryer models, suitable for a wide variety of applications.

All GSI dryers feature easy-to-use and state-of-the-art controls, heavy-duty galvanized steel construction, and industrial grade electrical components. GSI dryers can help solve even the most complex grain conditioning problems.

HIGH EFFICIENCY

GSI’s high efficiency one-piece fan and heater unit provides optimal heated air flow for all dryer applications and utilizes only 1725 rpm low-speed and low-noise fans which are more energy efficient than centrifugal fans in this application. All units feature fiberglass reinforced polypropylene fan blades with a very low starting load, high air flow across a wide static pressure range, precise balance and quiet operation.

Ten different fan configurations are available. An electronic ignition system monitors the burner and a view window provides easy observation. The Optimizer Blue Burn System is standard on all LP models and assures energy efficient operation.

Other value-added features include an easy to adjust vaporizer, a large service access door, and oil filled gas gauges.

WHY BUY A DRYER?

Grain dryers would be unnecessary if harvesting could be done when the grain was at the optimal moisture level for long term storage. But because so many factors influence harvest times, grain dryers give growers the flexibility to harvest when necessary and to dry grain to the ideal levels for storage. This significantly minimizes risk of loss and adds tremendous value to an operation.

- Start harvest earlier to minimize potentially significant field losses from grain shatter and lodged crops.
- Condition grain early, before adverse weather conditions appear and avoid catastrophic crop losses that could occur by waiting for the grain to dry in the field.
- Prevent elevator shrinkage charges applied to grain delivered above requested moisture limits. By avoiding these charges, customers can add more dollars to their bottom line.
- Deliver grain closer to the moisture level desired by the elevator and avoid dockage charges.
- Gain greater marketing flexibility by storing properly conditioned grain for long periods of time without deterioration.
- Eliminate harvest bottlenecks by conditioning grain at a pace that compliments today’s high-capacity combines.

This brochure will help explain what sets GSI grain dryers apart from the competition and will point out the features, advantages and benefits that make GSI dryers an outstanding value.
Carrying on GSI’s proud history of innovation in grain drying, the new X-Stream dryer features fans and heaters mounted in a staggered fashion on opposite ends of the dryer. Traditional dryers feature fans and heaters mounted on the same end of the dryer. As a result, the drying temperature of the grain varies based on which column it is in during the drying process.

Recent Independent University testing documented significant savings from the X-Stream design. By mounting the fans and heaters on opposite ends of the dryer and staggering each fan, the X-Stream delivers more uniform heat throughout the entire dryer, regardless of column location. As grain passes through the X-Stream, it is exposed to more consistent levels of heat. The result is a higher quality grain that is more evenly dried at a lower cost.

The X-Stream dryer is available in stack dryers in lengths from 20 through 26 feet, plus longer two fan single module dryers. GSI strongly recommends adding optional grain inverters to the (stack) X-Stream dryer for greater performance improvement.
14” wide columns hold the maximum amount of grain while minimizing the difference from the inside to the outside of the column.

Each plenum chamber also has an air mixing chamber to thoroughly mix the air and heat, and to shield the grain columns from direct contact with the burner infra red waves.

Multiple heat zones in two-fan and larger model dryers put the hottest air on the highest moisture grain.

**LARGEST GRAIN HOLDING CAPACITY** allows for higher bushels per hour to consistently achieve maximum drying. Long retention times result in better grain quality.

**HIGH/LOW FIRE CYCLING** Helps to maintain a uniform plenum temperature.

**OPTIMIZED AIRFLOW TO 80 CFM PER BUSHEL** sized to match the basket to achieve consistent airflow on all models.

**AIR MIXERS** mixing vanes eliminate “hot spots” and create a uniform plenum temperature.

**ADJUSTABLE FLOW GATES** allow customized control of grain volume in each column for improved quality and more even drying when grain quality is poor and there are a lot of fines present.

**OPTIONAL ON/OFF FIRE** offers a wider range of plenum temperature control.

**“STAR-FIRE BURNERS”** provide optimal heat delivery efficiency and a lower cost of operation. LP units feature patented “Blue Burn” optimizer.
1. Level auger with DuraEdge® flighting mounted on oil-impregnated wood hanger bearings adds to long life and dependability.

2. Perforated low profile wet bin improves preheating by allowing heated airflow through the wettest grain.

3. Perforated cover allows for easy viewing of the auger drive pulley and verification of operation.

4. Turnbuckle belt tightener allows for easy belt tensioning and maintenance.

5. Work light doubles as a shutdown indicator.

6. Ladders with toe clearance ensure easy and safe climbing.

7. 14” grain columns allow maximum capacity and also help promote even and efficient drying.

8. Air mixing chambers thoroughly mix heat and air before it enters the drying chamber.

9. Industrial grade IEC rated contactors, breakers and overloads insure durability and quality while the provided Load and Unload Auxiliary contactors help reduce installation costs.

10. Air pressure switch checks for air pressure in plenum to verify airflow for safety.

11. Highly effective air straighteners create maximum airflow and even temperatures.

12. Exclusive High/Low or On/Off burner operation allows low plenum temperatures for sensitive grain even when summer temperatures near 100°.

13. Low speed, high performance composite 1725 rpm fan blades move air with less noise than high speed blades, use less energy than centrifugals, and their low start up load promotes longer motor life.

14. Galvanized fan housing minimizes rust and corrosion to extend life.

15. Non-service rated safety disconnect circuit breaker integrated into door handle for safe, economical installation and maintenance while reducing installation costs.


17. Large 15” doors give easy access to unload auger without the use of tools.

18. Column access doors provide fast unloading and easy access to meter rolls.

19. The handle brought to the outside of the dryer frame makes opening the auger clean-out doors much quicker and easier.

20. Adjustable flow gates regulate grain flow, eliminate column plugging, and allow manual column emptying into bottom auger.

21. Full-length, aluminum meter rolls with over-the-top operation ensure gentle, accurate grain flow and low horsepower.

22. Heavy 8” auger with 1/4” DuraEdge® flighting for fast unloading and longer life.
THREE-PIECE SIDEWALL SCREENS
GSI’s three-piece sidewall panels allow the top angle section alone, the top angle and side sections, or all of the exterior screens including the bottom angle section to optionally be stainless steel. This allows for economical protection against rust and corrosion where needed based on the size of the dryer and the type of usage it will experience. All fastening hardware are also stainless steel to eliminate future corrosion.

REAR DISCHARGE AUTO-SHUTDOWN
A 2’ discharge extension with manual grain sampler is standard equipment. An automatic discharge shutdown operates off of a hinged lid switch at the rear discharge. It is activated when grain overfills the discharge auger and forces the lid to open.

CLEAN-OUT MADE EASY
Large plenum clean-out doors make for easy access to the unload auger and metering rolls.
Inside metering and unload auger access panels lift out of the way without tools to better accommodate service and maintenance needs.
Sealing strips reduce air pressure and heat loss into the unload chamber.

ACCESS LADDERS
GSI ladders feature heavy-duty construction and slip-resistant patterns to give extra grip in wet conditions. Our attention to detail and quality design gives GSI a solid foothold in the grain drying business.

8” DURA-EDGE® AUGER FLIGHTING
All augers feature the new DURA-EDGE® 8” diameter flighting with 1/4” ribbon. The DURA-EDGE® flighting has an outside edge that is 30% thicker than regular flighting. This contributes to the product’s long life and dependability.

LOW PROFILE, FOLD-UP WET BIN
The 14’6” low profile overall height permits easy set-up into existing installations and allows the GSI dryer to fit in places others can’t.
The wet bin is perforated to enable pre-heating of the grain to increase capacity and reduce operating costs.
HEAT RECLAIMER
On multi-fan dryers, reduces the amount of heat lost when operating in Dry & Cool mode to the atmosphere and recycles it, thereby reducing fuel consumption and lowering operating costs by up to 30%. Open ductwork is optimally sized for 0% capacity loss as it prevents accumulation of fine material. Sized to reduce air velocity very little chaff or air debris is pulled into the dryer.

Can be integrated with Heat Reclaimer.

NOISE SUPPRESSOR
Optional noise abatement kit features perforated, galvanized construction. Noise-absorbing insulation reduces noise levels to levels equal to or lower than that of centrifugal fans, allowing quiet operation in sound-sensitive areas.

Can be integrated with Noise Suppresser.

KERNEL TEMPERATURE
- Under 100° = Seed
- 100° to 120° = Human Food Grade - Full Nutrition and Taste
- 120° to 140° = Animal Food Grade - Full Nutrition
- 140° to 160° = Range where moderate damage and test weight loss starts
- 160° & above = Severe damage including physical breakage and severe test weight loss

PATENTED GRAIN INVERTERS
Promote more even drying, higher test weights, and also help reduce operating costs by up to 25%

Be sure to maximize the efficiency of every GSI stack dryer by including the optional Grain Inverters.

While the older grain exchangers move grain from the inside of the grain column to the outside of the column in 6" columns, the new and patented GSI Grain Inverters put a new twist on this process.

GSI’s Grain Inverters move all grain, except the outer two inches, within the column to eliminate over-dried grain and to maximize drying efficiency and grain quality. These patented Grain Inverters redirect the warmest grain from the inside of the column to be next to the wettest grain left at the outside of the column where it is dried by the captured heat which would have otherwise escaped the dryer. (See diagram to right for visual illustration.)

This process maintains optimal grain temperature, thus maximizing grain quality while using less fuel and significantly reducing operating costs.

A convenient clean-out door also provides easy access for quick maintenance.

OPTIONAL FEATURES
Can be integrated with Noise Suppressor.

Can be integrated with Heat Reclaimer.
The GSI Vision dryer control system features a wide array of settings that offers unparalleled options and control. Boasting a large color screen with easy-to-use touch screen controls, the Vision can be remote-mounted, via a simple seven wire harness, up to 1000 feet away from the dryer. Because safety and dependability are paramount for all GSI products, the Vision system features a low voltage safety circuit and a safety disconnect on every dryer. Each safety is monitored individually and its status displayed on-screen. With no moving parts – timers, time delays, thermostats, etc. – the Vision system is less prone to wear-and-tear that leads to costly repairs and downtime.

Plenum and grain temperatures can be modified on-screen using temperature and moisture based controls. Switch from High/Low to On/Off fire modes with a simple switch in the software. The Vision also puts help at your fingertips when you need it most. Owner’s Manuals are available on-demand and on-screen at the control box.

GSI Vision allows users to track the dryer’s history. All shut downs are logged with time and date information. This data can be saved to a flash memory card (via USB) for viewing on a home computer.

**MOISTURE CONTROL**

Every GSI Vision dryer is equipped with three different modes of moisture control. Users select the mode that best fits their needs in a particular situation.

1. **Temperature Based 2 Speed with optional 5 Speed Mode:** This temperature based control uses grain temperature to determine the final moisture content. As grain moisture increases or decreases from the desired moisture set point, the metering rolls speed up or slow down an amount pre-determined by the user in order for the dryer to bring the moisture level back to the desired setting. The optional 5 Speed Mode includes automatic speed averaging. When moisture changes significantly, all 5 speeds will change accordingly to bring the operation back into sync with the output moisture.

2. **Moisture Based Infinite Speed:** This is a moisture-based system that extracts data from three different points in the dryer: the moisture of the incoming grain, the temperature of the grain in the middle of the dryer, and the grain moisture upon exiting the dryer. All three measurements are factored to determine final moisture. Simply enter the desired moisture set point for finished grain and the Vision’s moisture control will speed up or slow down the metering rolls to maintain moisture at the desired setting. This setting makes very slow and calculated adjustments to the grain and is most effective when the moisture of the incoming grain does not vary much and is within a narrow range, i.e. one or two points.

3. **Moisture Based 5 Speed:** This moisture control method makes very quick meter roll changes and uses only the rear (exiting grain) sensor for adjustments. This setting works best when the moisture of the incoming grain varies quite a bit and has a wider degree of variance, i.e. three or more points.

**CONTROL BOX ACCESSIBILITY**

For added convenience, the dryer control box height can be adjusted on site by moving the two control boxes as a unit on two rails bolted to the side of the dryer. No reaching up, bending over, or building steps or a platform to monitor and adjust your dryer controls. All wiring has adequate flexibility to adjust the controls height with no additional wiring or electrical changes. Refer to your dryer manual for proper adjustment procedures.

**ELECTRICAL CONTROL FEATURES:**

- Exclusive MET (nationally recognized testing lab) approved controls.
- Built to UL 508a specifications: Nationally recognized (US & Canada) CSA electrical compliant.
- IEC Branch Breakers: IEC controls are higher quality, rated for more cycles, and meet domestic and international electric codes. All dryers have branch breakers for each motor.
- IEC Motor Overloads: IEC overloads allow a wide range of adjustment to accommodate variances in incoming voltage.
- Auxiliary Auger IEC Contactors/Overloads*: Load and unload auxiliary motor branch circuits are standard. If load and unload HP are specified at time of order, GSI will install properly sized breaker, contactor, and overload for customer’s application.
- Entrelec Terminals: Color-coded Entrelec terminals are used for all computer control circuits connections, making for easy installation, diagnosis and service.
- Safety Disconnect*: For safely disconnecting power from main panel for servicing dryer controls. Also provides an easy connection point for incoming electric supply.
- Work Light and Shutdown Indicator: The light on the outside of the dryer doubles as a shutdown indicator.

**Patent Pending Sidekick Moisture Sensor Auger**
"DEFINING THE FUTURE OF NETWORK DRYER CONTROLS"

Welcome to a new era in network dryer controls. The GSI Vision dryer control system provides users with unmatched options and control for the very best results. The first and only dryer on the market that software updates are downloadable from the web and transferred to the dryer from a USB Flash Drive.

VISION CONTROL FEATURES
- 10.4" TFT Diagonal color screen (Touch Screen Control)
- No moving parts (timers, time delays, thermostats)
- 32 Bit Microprocessor Control
- Each Safety monitored individually and its status displayed on screen
- All shut-downs logged with time and date
- Remote mounted control box requires just a simple seven wire harness
- Load and Unload Auxiliary Contactors and Overloads on every dryer
- Safety Disconnect on every dryer
- Low voltage safety circuit
- USB Flash Drive to transfer data to personal computer

MOISTURE CONTROL FEATURES
- Every GSI Vision dryer is equipped with three different modes of moisture control, allowing greater flexibility for a variety of needs and settings.
- Integrated into main control of dryer
- Graphing and time stamping
- Software updates are always available by download from the GSI web site and all that is needed to do the update is a simple Flash Memory Card or any USB based removable drive

OPTIONAL WATCHDOG SOFTWARE
GSI’s optional Watchdog™ System allows remote monitoring of dryer functions such as moisture, temperature and dryer status from a web accessible computer. Settings and Adjustments safe to change remotely may also be made. Web based for greater accessibility, the Watchdog keeps you advised from the comfort and convenience of a home or office through your computer, Smart Phone or PDA. Contact the GSI dealer nearest you for more information.

Free software updates are available for download from the GSI web site. All that is needed to do the update is a simple flash memory card or any USB based removable drive.
### SPECIFICATIONS 1100 SERIES DRYER

#### DRYING CAPACITY, SHELLED CORN

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<th>1112</th>
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<td>Dry and Cool 25% to 15% Staged Batch</td>
<td>170 BPH</td>
<td>210 BPH</td>
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<td>280 BPH</td>
<td>320 BPH</td>
<td>360 BPH</td>
<td>390 BPH</td>
<td>460 BPH</td>
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<tr>
<td>Dry and Cool 20% to 15% Staged Batch</td>
<td>220 BPH</td>
<td>270 BPH</td>
<td>320 BPH</td>
<td>370 BPH</td>
<td>430 BPH</td>
<td>480 BPH</td>
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<td>610 BPH</td>
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<tr>
<td>Full Heat 30% to 15%</td>
<td>190 BPH</td>
<td>250 BPH</td>
<td>300 BPH</td>
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<td>380 BPH</td>
<td>410 BPH</td>
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<td>540 BPH</td>
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<tr>
<td>Full Heat 25% to 15%</td>
<td>260 BPH</td>
<td>340 BPH</td>
<td>390 BPH</td>
<td>440 BPH</td>
<td>510 BPH</td>
<td>560 BPH</td>
<td>610 BPH</td>
<td>720 BPH</td>
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<tr>
<td>Full Heat 20% to 15%</td>
<td>420 BPH</td>
<td>530 BPH</td>
<td>610 BPH</td>
<td>710 BPH</td>
<td>820 BPH</td>
<td>910 BPH</td>
<td>990 BPH</td>
<td>1,160 BPH</td>
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</tbody>
</table>

- Capacities listed are wet bushels, shelled corn at listed moisture content and are estimates based on drying principles, field results and computer simulation. Variance may occur due to grain’s physiological factors (kernal size, chemical composition, variety, maturity), excessive fines, adverse weather conditions, etc.
- Grain discharged hot from the dryer will result in a final moisture content of 15% after cooling in the bin.
- Shortest possible height in ( ).
- Minimum: Fan(s) & Dryer Load & Unload motor name plate amperages + 5 for control & SCR load.
- Maximum: Fan(s) & Dryer Load & Unload & largest auxiliary motor name plate amperages + 5 for control & SCR load.
### Drying Capacity, Shelled Corn

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<td>250 BPH</td>
<td>290 BPH</td>
<td>320 BPH</td>
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<tr>
<td><strong>Dry and Cool 20% to 15%</strong></td>
<td>400 BPH</td>
<td>470 BPH</td>
<td>510 BPH</td>
<td>560 BPH</td>
<td>640 BPH</td>
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<td><strong>Full Heat 30% to 15%</strong></td>
<td>330 BPH</td>
<td>380 BPH</td>
<td>410 BPH</td>
<td>430 BPH</td>
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<td>540 BPH</td>
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<td>420 BPH</td>
<td>480 BPH</td>
<td>520 BPH</td>
<td>590 BPH</td>
<td>650 BPH</td>
<td>730 BPH</td>
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<tr>
<td><strong>Full Heat 20% to 15%</strong></td>
<td>680 BPH</td>
<td>770 BPH</td>
<td>840 BPH</td>
<td>950 BPH</td>
<td>1,060 BPH</td>
<td>1,180 BPH</td>
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**Basic Construction**

<table>
<thead>
<tr>
<th></th>
<th>1 Module</th>
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<tr>
<td><strong>Basic Construction</strong></td>
<td>2 Stages</td>
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**Grain Columns**

<table>
<thead>
<tr>
<th></th>
<th>14” x 14’ Long</th>
<th>14” x 16’ Long</th>
<th>14” x 18’ Long</th>
<th>14” x 20’ Long</th>
<th>14” x 22’ Long</th>
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<tbody>
<tr>
<td><strong>Total Holding Capacity</strong></td>
<td>381 BU</td>
<td>436 BU</td>
<td>490 BU</td>
<td>544 BU</td>
<td>599 BU</td>
<td>708 BU</td>
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<tr>
<td><strong>Grain Column Holding Capacity</strong></td>
<td>329 BU</td>
<td>376 BU</td>
<td>423 BU</td>
<td>470 BU</td>
<td>517 BU</td>
<td>611 BU</td>
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<tr>
<td><strong>Top Auger (Loading)</strong></td>
<td>8”, 5 HP</td>
<td>8”, 5 HP</td>
<td>8”, 5 HP</td>
<td>8”, 7.5 HP</td>
<td>8”, 7.5 HP</td>
<td>8”, 10 HP</td>
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<tr>
<td><strong>Capacity</strong></td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
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<tr>
<td><strong>Bottom Auger (Unloading)</strong></td>
<td>8” Flight/10 Tube</td>
<td>8” Flight/10 Tube</td>
<td>8” Flight/10 Tube</td>
<td>8” Flight/10 Tube</td>
<td>8” Flight/10 Tube</td>
<td>8” Flight/10 Tube</td>
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<tr>
<td><strong>Installed Height</strong></td>
<td>23'-2&quot;</td>
<td>25'-2&quot;</td>
<td>27'-2&quot;</td>
<td>29'-2&quot;</td>
<td>31'-2&quot;</td>
<td>35'-2&quot;</td>
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<tr>
<td><strong>Installed Width</strong></td>
<td>8’</td>
<td>8’</td>
<td>8’</td>
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<tr>
<td><strong>Installed Height</strong></td>
<td>14'-6&quot;</td>
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**Minimum:** Fan(s) & Dryer Load & Unload motor name plate amperages + 5 for control & SCR load.

**Maximum:** Fan(s) & Dryer Load & Unload & largest auxiliary motor name plate amperages + 5 for control & SCR load.

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1 Capacities listed are wet bushels, shelled corn at listed moisture content and are estimates based on drying principles, field results and computer simulation. Variance may occur due to grain’s physiological factors (kernel size, chemical composition, variety, maturity), excessive fines, adverse weather conditions, etc.

2 Grain discharged hot from the dryer will result in a final moisture content of 15% after cooling in the bin.

3 Shortest possible height in ( ).

4 Minimum: Fan(s) & Dryer Load & Unload motor name plate amperages + 5 for control & SCR load.

Maximum: Fan(s) & Dryer Load & Unload & largest auxiliary motor name plate amperages + 5 for control & SCR load.
**SPECIFICATIONS 1200S AND H-SERIES DRYERS**

**DRYING CAPACITY, SHELLED CORN**

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<tr>
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<th>1214S</th>
<th>1218S</th>
<th>1220S/1220H</th>
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<td>385 BPH</td>
<td>445 BPH</td>
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<td>600 BPH</td>
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<td>Full Heat 30% to 15%</td>
<td>300 BPH</td>
<td>390 BPH</td>
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<td>620 BPH</td>
<td>670 BPH</td>
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<td>Full Heat 20% to 15%</td>
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<td>Grain Column Holding Capacity</td>
<td>329 BU</td>
<td>423 BU</td>
<td>470 BU</td>
<td>517 BU</td>
<td>611 BU</td>
</tr>
<tr>
<td>Top Auger (Loading)</td>
<td>5 HP</td>
<td>5 HP</td>
<td>7.5 HP</td>
<td>7.5 HP</td>
<td>10 HP</td>
</tr>
<tr>
<td>Capacity</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
</tr>
<tr>
<td>Bottom Auger (Unloading)</td>
<td>8&quot; Flight/10&quot; Tube</td>
<td>8&quot; Flight/10&quot; Tube</td>
<td>8&quot; Flight/10&quot; Tube</td>
<td>8&quot; Flight/10&quot; Tube</td>
<td>8&quot; Flight/10&quot; Tube</td>
</tr>
<tr>
<td>Maximum Capacity</td>
<td>1,960 BPH</td>
<td>2,520 BPH</td>
<td>2,800 BPH</td>
<td>3,080 BPH</td>
<td>3,640 BPH</td>
</tr>
</tbody>
</table>

**Transport Length**

<table>
<thead>
<tr>
<th></th>
<th>23'-2&quot;</th>
<th>27'-2&quot;</th>
<th>29'-2&quot;</th>
<th>31'-2&quot;</th>
<th>35'-2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Width</td>
<td>6'</td>
<td>6'</td>
<td>6'</td>
<td>6'</td>
<td>6'</td>
</tr>
<tr>
<td>Transport Height</td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td>13'-5&quot; (11'-9&quot;)</td>
</tr>
<tr>
<td>Transport Weight (approx.) (Less Transport Kit)</td>
<td>9,500 lbs.</td>
<td>11,500 lbs.</td>
<td>14,500 lbs.</td>
<td>15,500 lbs.</td>
<td>18,500 lbs.</td>
</tr>
<tr>
<td>Installed Length</td>
<td>21'-2&quot;</td>
<td>25'-2&quot;</td>
<td>27'-2&quot;</td>
<td>30'-2&quot;</td>
<td>33'-2&quot;</td>
</tr>
<tr>
<td>Installed Width</td>
<td>8'-8&quot;</td>
<td>8'-8&quot;</td>
<td>8'-8'/8'†</td>
<td>8'-8'/8'†</td>
<td>8'-8'/8'†</td>
</tr>
<tr>
<td>Installed Height (Excluding Foundation Supports)</td>
<td>14'-6&quot;</td>
<td>14'-6&quot;</td>
<td>14'-6&quot;</td>
<td>14'-6&quot;</td>
<td>14'-6&quot;</td>
</tr>
</tbody>
</table>

| Fans 1 PH | 2@10-12 HP, 28" | 2@10-12 HP, 36" | 2@15 HP, 36" | 2@15 HP, 36" | N/A |
| Fans 3 PH | 2@10-12 HP, 28" | 2@10-12 HP, 36" | 2@15 HP, 36" | 2@15 HP, 36" | 2@25 HP, 40" |

**Heaters (Max BTU)**

<table>
<thead>
<tr>
<th></th>
<th>2@3.0 Mil.btu/hr</th>
<th>2@3.5 Mil.btu/hr</th>
<th>2@4.5 Mil.btu/hr</th>
<th>2@4.5 Mil.btu/hr</th>
<th>2@6.75 Mil.btu/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Phase, 230 V.</td>
<td>157/212</td>
<td>157/212</td>
<td>211/266</td>
<td>211/266</td>
<td>N/A</td>
</tr>
<tr>
<td>Three Phase, 208 V.</td>
<td>106/156</td>
<td>106/144</td>
<td>131/208</td>
<td>131/208</td>
<td>196/273</td>
</tr>
<tr>
<td>Three Phase, 230 V.</td>
<td>99/148</td>
<td>99/134</td>
<td>121/192</td>
<td>121/192</td>
<td>183/254</td>
</tr>
<tr>
<td>Three Phase, 460 V.</td>
<td>52/74</td>
<td>52/68</td>
<td>63/96</td>
<td>63/96</td>
<td>94/127</td>
</tr>
<tr>
<td>Three Phase, 575 V.</td>
<td>48/66</td>
<td>48/66</td>
<td>54/81</td>
<td>54/81</td>
<td>77/104</td>
</tr>
</tbody>
</table>

**ELECTRIC LOAD (MIN/MAX AMPS) (FAN, LOAD AUGER, UNLOAD, AUGER).**

<table>
<thead>
<tr>
<th></th>
<th>Single Phase, 230 V.</th>
<th>Three Phase, 208 V.</th>
<th>Three Phase, 230 V.</th>
<th>Three Phase, 460 V.</th>
<th>Three Phase, 575 V.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum: Fan(s) &amp; Dryer Load &amp; Unload motor name plate amperages + 5 for control &amp; SCR load. Maximum: Fan(s) &amp; Dryer Load &amp; Unload &amp; largest auxiliary motor name plate amperages + 5 for control &amp; SCR load.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity listed are wet bushels/tonnes, shelled corn at listed moisture content and are estimates based on drying principles, field results and computer simulation. Variance may occur due to grain’s physiological factors (kernel size, chemical composition, variety, maturity), excessive fines, adverse weather conditions, etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shortest possible height in ( ).</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum: Fan(s) &amp; Dryer Load &amp; Unload motor name plate amperages + 5 for control &amp; SCR load. Maximum: Fan(s) &amp; Dryer Load &amp; Unload &amp; largest auxiliary motor name plate amperages + 5 for control &amp; SCR load.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>† = S-Series dryers are upgradeable with additional modules, while the H-Series is not.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Dryers Models: 2320, 2322, 2326, 2420, 2426

**Dryers Models:** 2320, 2322, 2326, 2420, 2426

Also check out our

- Exclusive mixing chambers blend heated drying air for even drying
- Eliminates front-to-back moisture variation and heat loss, resulting in better grain quality and higher efficiency drying
- Field-tested and proven
- GSI patented Grain Inverters available (highly recommended but optional equipment)

### Drying Capacity, Shelled Corn

<table>
<thead>
<tr>
<th></th>
<th>2314</th>
<th>2318</th>
<th>2320</th>
<th>2322</th>
<th>2326</th>
<th>2420</th>
<th>2426</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dry and Cool 25% to 15%</strong></td>
<td>620 BPH</td>
<td>770 BPH</td>
<td>850 BPH</td>
<td>930 BPH</td>
<td>1,130 BPH</td>
<td>850 BPH</td>
<td>1,130 BPH</td>
</tr>
<tr>
<td><strong>Dry and Cool 20% to 15%</strong></td>
<td>1,000 BPH</td>
<td>1,240 BPH</td>
<td>1,380 BPH</td>
<td>1,500 BPH</td>
<td>1,840 BPH</td>
<td>1,380 BPH</td>
<td>1,840 BPH</td>
</tr>
<tr>
<td><strong>Full Heat 30% to 15%</strong></td>
<td>670 BPH</td>
<td>830 BPH</td>
<td>920 BPH</td>
<td>1,010 BPH</td>
<td>1,200 BPH</td>
<td>920 BPH</td>
<td>1,200 BPH</td>
</tr>
<tr>
<td><strong>Full Heat 25% to 15%</strong></td>
<td>900 BPH</td>
<td>1,120 BPH</td>
<td>1,250 BPH</td>
<td>1,360 BPH</td>
<td>1,670 BPH</td>
<td>1,250 BPH</td>
<td>1,670 BPH</td>
</tr>
<tr>
<td><strong>Full Heat 20% to 15%</strong></td>
<td>1,460 BPH</td>
<td>1,810 BPH</td>
<td>2,010 BPH</td>
<td>2,200 BPH</td>
<td>2,700 BPH</td>
<td>2,010 BPH</td>
<td>2,700 BPH</td>
</tr>
</tbody>
</table>

### Basic Construction

- 2 Modules
- 4 Stages
- 4 Stages
- 4 Stages
- 4 Stages
- 4 Stages
- 4 Stages

### Grain Columns

<table>
<thead>
<tr>
<th></th>
<th>2314</th>
<th>2318</th>
<th>2320</th>
<th>2322</th>
<th>2326</th>
<th>2420</th>
<th>2426</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14” x 14’ Long</strong></td>
<td>14” x 18’ Long</td>
<td>14” x 20’ Long</td>
<td>14” x 22’ Long</td>
<td>14” x 26’ Long</td>
<td>14” x 20’ Long</td>
<td>14” x 26’ Long</td>
<td></td>
</tr>
<tr>
<td><strong>Total Holding Capacity</strong></td>
<td>731 BU</td>
<td>940 BU</td>
<td>1,044 BU</td>
<td>1,149 BU</td>
<td>1,304 BU</td>
<td>1,044 BU</td>
<td>1,304 BU</td>
</tr>
<tr>
<td><strong>Top Auger (Loading)</strong></td>
<td>5 HP</td>
<td>5 HP</td>
<td>7.5 HP</td>
<td>7.5 HP</td>
<td>10 HP</td>
<td>7.5 HP</td>
<td>10 HP</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
<td>3,800 BPH</td>
</tr>
<tr>
<td><strong>Bottom Auger (Unloading)</strong></td>
<td>8’ Flight/10’ Tube</td>
<td>8’ Flight/10’ Tube</td>
<td>8’ Flight/10’ Tube</td>
<td>8’ Flight/10’ Tube</td>
<td>8’ Flight/10’ Tube</td>
<td>8’ Flight/10’ Tube</td>
<td>8’ Flight/10’ Tube</td>
</tr>
<tr>
<td><strong>Maximum Capacity</strong></td>
<td>1,960 BPH</td>
<td>2,520 BPH</td>
<td>2,800 BPH</td>
<td>3,080 BPH</td>
<td>3,640 BPH</td>
<td>2,800 BPH</td>
<td>3,640 BPH</td>
</tr>
</tbody>
</table>

### Transport Length

<table>
<thead>
<tr>
<th></th>
<th>2314</th>
<th>2318</th>
<th>2320</th>
<th>2322</th>
<th>2326</th>
<th>2420</th>
<th>2426</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transport Length</strong></td>
<td>23'-2&quot;</td>
<td>27'-2&quot;</td>
<td>29'-2&quot;</td>
<td>31'-2&quot;</td>
<td>35'-2&quot;</td>
<td>29'-2&quot;</td>
<td>35'-2&quot;</td>
</tr>
<tr>
<td><strong>Transport Width</strong></td>
<td>8’</td>
<td>8’</td>
<td>8’</td>
<td>8’</td>
<td>8’</td>
<td>8’</td>
<td>8’</td>
</tr>
<tr>
<td><strong>Transport Height</strong></td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td>13'-5&quot; (11'-9&quot;)</td>
<td></td>
</tr>
<tr>
<td><strong>Transport Weight</strong></td>
<td>16,000 lbs.</td>
<td>19,000 lbs.</td>
<td>21,000 lbs.</td>
<td>22,500 lbs.</td>
<td>28,000 lbs.</td>
<td>22,500 lbs.</td>
<td>28,000 lbs.</td>
</tr>
</tbody>
</table>

### Fans

<table>
<thead>
<tr>
<th></th>
<th>1 PH</th>
<th>3 PH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fans 1 PH</strong></td>
<td>1@15 HP, 40”</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Fans 2@10-12 HP</strong></td>
<td>2@10-12 HP, 28”</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Fans 3 PH</strong></td>
<td>1@15 HP, 40”</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Fans 2@10-12 HP</strong></td>
<td>2@10-12 HP, 28”</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Heaters (Max BTU)

<table>
<thead>
<tr>
<th></th>
<th>1@5.5 Mil. btu/hr</th>
<th>1@6.75 Mil. btu/hr</th>
<th>1@7.5 Mil. btu/hr</th>
<th>1@8.75 Mil. btu/hr</th>
<th>1@10.75 Mil. btu/hr</th>
<th>4@4.5 Mil. btu/hr</th>
<th>4@6.75 Mil. btu/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Single Phase, 220 V.</strong></td>
<td>230/285</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>359/421</td>
</tr>
<tr>
<td><strong>Three Phase, 208 V.</strong></td>
<td>147/197</td>
<td>158/208</td>
<td>199/275</td>
<td>199/275</td>
<td>302/379</td>
<td>213/295</td>
<td>382/464</td>
</tr>
<tr>
<td><strong>Three Phase, 230 V.</strong></td>
<td>137/186</td>
<td>135/184</td>
<td>183/254</td>
<td>183/254</td>
<td>281/352</td>
<td>197/273</td>
<td>313/389</td>
</tr>
<tr>
<td><strong>Three Phase, 460 V.</strong></td>
<td>71/93</td>
<td>70/92</td>
<td>94/127</td>
<td>94/127</td>
<td>143/176</td>
<td>101/139</td>
<td>159/197</td>
</tr>
<tr>
<td><strong>Three Phase, 575 V.</strong></td>
<td>65/82</td>
<td>68/86</td>
<td>78/105</td>
<td>78/105</td>
<td>82/109</td>
<td>85/117</td>
<td>128/160</td>
</tr>
</tbody>
</table>

### Electric Load (MIN/MAX AMPS)

**Electrical Load (MIN/MAX AMPS) (fan, load auger, unload auger)**

<table>
<thead>
<tr>
<th></th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Single Phase, 220 V.</strong></td>
<td>230/285</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Three Phase, 208 V.</strong></td>
<td>147/197</td>
<td>158/208</td>
<td>199/275</td>
<td>199/275</td>
<td>302/379</td>
<td>213/295</td>
</tr>
<tr>
<td><strong>Three Phase, 230 V.</strong></td>
<td>137/186</td>
<td>135/184</td>
<td>183/254</td>
<td>183/254</td>
<td>281/352</td>
<td>197/273</td>
</tr>
<tr>
<td><strong>Three Phase, 460 V.</strong></td>
<td>71/93</td>
<td>70/92</td>
<td>94/127</td>
<td>94/127</td>
<td>143/176</td>
<td>101/139</td>
</tr>
<tr>
<td><strong>Three Phase, 575 V.</strong></td>
<td>65/82</td>
<td>68/86</td>
<td>78/105</td>
<td>78/105</td>
<td>82/109</td>
<td>85/117</td>
</tr>
</tbody>
</table>

---

1 Capacities listed are wet bushels/tonnes, shelled corn at listed moisture content and are estimates based on drying principles, field results and computer simulation. Variance may occur due to grain’s physiological factors (kernel size, chemical composition, variety, maturity), excessive fines, adverse weather conditions, etc.
2 Grain discharged hot from the dryer will result in a final moisture content of 15% after cooling in the bin.
3 Shortest possible height in ( )
4 Minimum: Fan(s) & Dryer Load & Unload motor name plate amperages + 5 for control & SCR load.

**Maximum:** Fan(s) & Dryer Load & Unload & largest auxiliary motor name plate amperages + 5 for control & SCR load.
### Drying Capacity, Shelled Corn

<table>
<thead>
<tr>
<th>Model</th>
<th>Dry and Cool 25% to 15%</th>
<th>Dry and Cool 20% to 15%</th>
<th>Full Heat 30% to 15%</th>
<th>Full Heat 25% to 15%</th>
<th>Full Heat 20% to 15%</th>
</tr>
</thead>
<tbody>
<tr>
<td>3414</td>
<td>840 BPH</td>
<td>1,340 BPH</td>
<td>1,000 BPH</td>
<td>1,360 BPH</td>
<td>2,190 BPH</td>
</tr>
<tr>
<td>3418</td>
<td>1,040 BPH</td>
<td>1,670 BPH</td>
<td>1,250 BPH</td>
<td>1,680 BPH</td>
<td>2,720 BPH</td>
</tr>
<tr>
<td>3420</td>
<td>1,120 BPH</td>
<td>1,800 BPH</td>
<td>1,400 BPH</td>
<td>1,830 BPH</td>
<td>2,950 BPH</td>
</tr>
<tr>
<td>3422</td>
<td>1,250 BPH</td>
<td>2,020 BPH</td>
<td>1,510 BPH</td>
<td>2,040 BPH</td>
<td>3,300 BPH</td>
</tr>
<tr>
<td>3426</td>
<td>1,520 BPH</td>
<td>2,450 BPH</td>
<td>1,820 BPH</td>
<td>2,480 BPH</td>
<td>4,000 BPH</td>
</tr>
<tr>
<td>3620</td>
<td>1,120 BPH</td>
<td>1,800 BPH</td>
<td>1,400 BPH</td>
<td>1,830 BPH</td>
<td>2,950 BPH</td>
</tr>
<tr>
<td>3626</td>
<td>1,520 BPH</td>
<td>2,450 BPH</td>
<td>1,820 BPH</td>
<td>2,480 BPH</td>
<td>4,000 BPH</td>
</tr>
</tbody>
</table>

### Basic Construction
- 3 Modules
- 3 Stages
- 3 Grain Columns
- 6 Stages
- 6 Storage Bins
- 6 Stages
- 6 Stages

### Grain Columns
- 14” x 14’ Long
- 14” x 18’ Long
- 14” x 20’ Long
- 14” x 22’ Long
- 14” x 26’ Long
- 14” x 20’ Long

### Total Holding Capacity
- 1,074 BU
- 1,381 BU
- 1,534 BU
- 1,688 BU
- 1,995 BU
- 1,534 BU

### Grain Column Holding Capacity
- 1,022 BU
- 1,314 BU
- 1,460 BU
- 1,606 BU
- 1,898 BU
- 1,460 BU

### Top Auger (Loading)
- 5 HP
- 5 HP
- 7.5 HP
- 7.5 HP
- 10 HP
- 7.5 HP

### Bottom Auger (Unloading)
- 8” Flight/10” Tube
- 8” Flight/10” Tube
- 8” Flight/10” Tube
- 8” Flight/10” Tube
- 8” Flight/10” Tube
- 8” Flight/10” Tube

### Maximum Capacity
- 1,960 BPH
- 2,520 BPH
- 2,800 BPH
- 3,080 BPH
- 3,640 BPH
- 3,640 BPH

### Transport Length (Hitch to Discharge Auger)
- 23'-2"
- 27'-2"
- 29'-2"
- 31'-2"
- 35'-2"
- 35'-2"

### Transport Width
- 8’
- 8’
- 8’
- 8’
- 8’
- 8’

### Transport Height
- 13’-5” (11’-9”)
- 13’-5” (11’-9”)
- 13’-5” (11’-9”)
- 13’-5” (11’-9”)
- 13’-5” (11’-9”)
- 13’-5” (11’-9”)

### Transport Weight (approx.) (Less Transport Kit)
- 23,000 lbs.
- 26,500 lbs.
- 29,500 lbs.
- 30,500 lbs.
- 35,000 lbs.
- 30,170 lbs.

### Installed Length
- 23’-10”
- 27’-10”
- 29’-10”
- 31’-10”
- 35’-10”
- 29’-10”

### Installed Height (Excluding Foundation Supports)
- 37’-3”
- 37’-3”
- 37’-3”
- 37’-3”
- 37’-3”
- 37’-3”

### Fans
- Single Phase, 230 V.
  - 2@15 HP, 40" N/A
  - 2@20 HP, 42" 6@25 HP, 42" 6@20 HP, 42"
  - 2@30 HP, 42" 6@25 HP, 42" 6@20 HP, 42"
  - 2@40 HP, 42" 6@25 HP, 42" 6@20 HP, 42"
  - 6@4.5 Mil. btu/hr 6@4.5 Mil. btu/hr
  - 6@5.5 Mil. btu/hr 6@5.75 Mil. btu/hr

### Electric Load (Min/Max Amps)
- Single Phase, 230 V.
  - 303/358 N/A
  - 188/238 210/260
  - 175/224 183/232 245/316
  - 90/112 94/116 125/158
  - 81/98 88/106 103/130 111/138
  - 300/377 295/377 279/350 273/349
  - 192/225 139/177 154/181 117/149
  - 539/620 441/517

### Exclusive Features
- Independent mixing chambers blend heated drying air for even drying
- Eliminates front-to-back moisture variation and heat loss, resulting in better grain quality and higher efficiency drying
- Field-tested and proven
- GSI patented Grain Inverters available (highly recommended but optional equipment)

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**Note:** Capacities listed are wet bushels/totnes, shelled corn at listed moisture content and are estimates based on drying principles, field results and computer simulation. Variance may occur due to grain’s physiological factors (kernel size, chemical composition, variety, maturity), excessive fines, adverse weather conditions, etc.
**SPECIFICATIONS X-STREAM SERIES**

**X-STREAM PORTABLE DRYER**
- Exclusive mixing chambers blend heated drying air for the most even drying.
- Eliminates the natural tendency to over-dry the grain furthest from the fan and heater by reversing the direction of the heated air in the plenum.
- Eliminates front-to-back moisture variation and heat loss, resulting in higher efficiency drying.
- Field-tested and proven in GSI Pistachio Food Grade Dryers. In this stringent market, with an extraordinarily expensive product, even drying is the difference between profitable pistachios that can be sold for human consumption versus those that are simply thrown out or downgraded to animal feed.
- GSI patented Grain Inverters (highly recommended but optional equipment) and the new X-Stream stack dryer design combine to dry grain evenly from front to back and across the entire column without the loss of usable heat.
- Vision™ controls standard on X-Stream dryers.

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**AVAILABLE FOR**
1200H, 1200S, 2300, 2400, 3400, and 3600 Series Dryers

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### STACKABLE

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### ELECTRICAL

| Phase | 1 or 3 | 1 or 3 | 3 | 3 | 3 | 3 | 1 or 3 | 3 | 3 | 3 | 3 | 1 or 3 | 3 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Voltage | ALL | ALL | ALL | ALL | ALL | ALL | ALL | ALL | ALL | ALL | ALL | ALL |
| Fuel | LP or NG | LP or NG | LP or NG | LP or NG | LP or NG | LP or NG | LP or NG | LP or NG | LP or NG | LP or NG | LP or NG | LP or NG |

**Dryer Wt. (lbs.)**
- 1200SX 1200HX: 14,500
- 1220SX 1220HX: 15,500
- 1226SX 1226HX: 18,500

**WET BUSHELS FULL HEAT**

| 10 pt.* 25% to 15% (BPH) | 615 | 670 | 820 | 1,245 | 1,355 | 1,670 | 1,250 | 1,670 | 1,825 | 2,040 | 2,475 | 1,830 | 2,480 |
| 5 pt.* 20% to 15% (BPH) | 990 | 1,080 | 1,330 | 2,010 | 2,195 | 2,700 | 2,010 | 2,700 | 2,950 | 3,300 | 4,000 | 2,950 | 4,000 |

**WET BUSHELS DRY & COOL**

| 10 pt.* 25% to 15% (BPH) | 280 | 300 | 375 | 850 | 930 | 1,130 | 850 | 1,130 | 1,120 | 1,250 | 1,520 | 1,120 | 1,520 |
| 5 pt.* 20% to 15% (BPH) | 445 | 485 | 600 | 1,375 | 1,500 | 1,835 | 1,380 | 1,840 | 1,800 | 2,015 | 2,445 | 1,800 | 2,020 |

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† S-Series dryers are upgradable with additional modules, while the H-Series is not.
* Measured in wet bushels per hour (BPH)
1 Limited by Meter Roll maximum capacity.