

AGI

# MIXED FLOW DRYER



# AGI MIXED FLOW DRYER

The AGI grain dryer utilizes a mixed flow design which has enabled it to be one of the most efficient dryers on the market. The dryer's screenless operation and computerized moisture control deliver consistently higher quality grain and heavier test weights per bushel, translating into maximum return on investment.

Each dryer section is factory tested and thoroughly inspected before shipping. We also provide hands-on technical service dryer training to our dealers to ensure you get the most out of your AGI dryer.

## MIXED FLOW DRYING PROCESS FEATURES

- Allows for easy air and grain mixing throughout the drying process
- Long retention time allows the grain to dry slowly, resulting in higher test weights
- No screens to clean or get plugged, so airflow is maintained throughout drying season
- Consistent kernel to kernel moisture across the grain column
- Maintains the highest grain quality and is suitable for most crops from corn to canola
- Quiet centrifugal fans

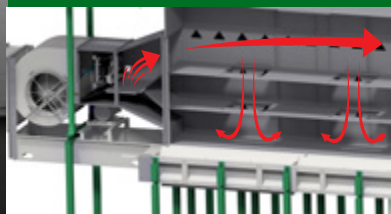
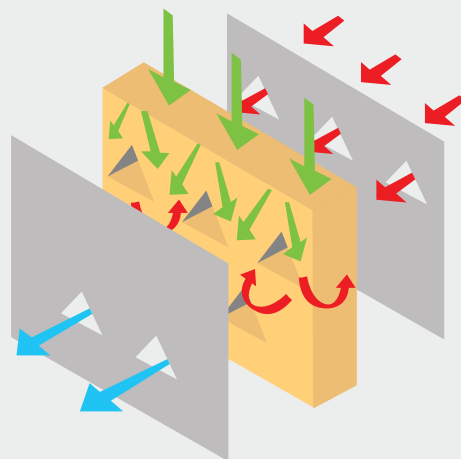
## FLEXIBLE OPERATION CAPABILITY

- Allows dryer to run in all heat or heat and cool modes on single burner dryers
- For multiple burner dryers:
  - Individual temperature settings for each burner adds unrivaled flexibility
  - Multiple options for drying include all heat, heat and cool, steeping or sweating

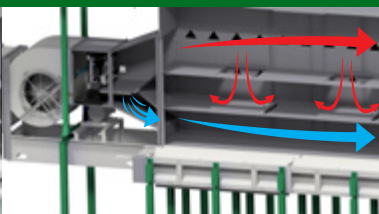
Moist exhaust air

Grain flow

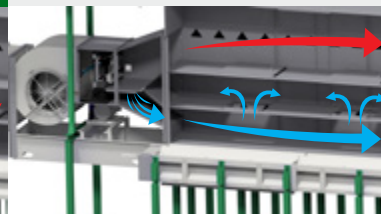
Hot drying air



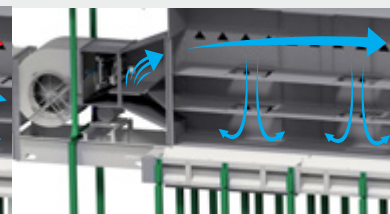
ALL HEAT



HEAT & COOL ONE TIER



HEAT & COOL TWO TIER



ALL COOL



# ADDITIONAL FEATURES

- Up to 30% more fuel efficient than conventional screen dryers
- Heavy gauge G-90 galvanized material for longevity
- Optional drag conveyors available

## BLOWER AND UNLOAD VFDs (VARIABLE FREQUENCY DRIVES)

- Blower VFDs provide additional control of airflow to suit the crop and drying conditions
  - Standard for single-phase applications
  - Optional for three-phase applications
- Unload VFDs can be used to fine-tune the unload speed to minimize grain damage
  - Standard with drag unloads
  - Optional with auger unloads

## PRE-CLEANER SYSTEM\*

- Remove beeswings, fines, and chaff before grain enters the dryer
- No need to increase overall dryer height or upgrade filling equipment
- Integrated touchscreen controls allow adjustment to blower speed while drying
- Retrofitted for existing dryers
- Flexible discharge options; can configure pipe as needed
- The patent pending system includes:
  - Aspirator gravity fill
  - 3 HP aspirator blower with VFD and controls
  - Cyclone separator and piping
  - Full roof catwalk
  - Additional blower access platform for 24' and 32' dryers

## EXHAUST SHROUD\*

- Diverts dryer exhaust minimizing airborne particulate emissions
- Prevents weather from affecting the drying process, such as wind driven rain or snow
- Includes internal maintenance walkways for cleaning and inspection
- Allows for the recycling of hot air from dryer exhaust to improve efficiency

\*Optional





# CONTROL SYSTEMS

## COMMANDER

- PLC based dryer control system developed by AGI
- Easy-to-use touch screen navigation with clear graphics
- Tracking and graphing capabilities to show drying progress
- Alarm and troubleshooting assistance
- Self-diagnostic capabilities for quick troubleshooting
- Quick visual reference of alarm history helps minimize repair time

## DRYER MASTER®

- Dryer Master® embedded in software for moisture control
- Dual moisture sensors available for most models

## REMOTE MONITORING & MANAGEMENT\*

- Monitor moisture and temperature within the dryer from any device
- Tablet, smart phone, laptop
- Ability to connect via cellular or internet data
- Receive alarms and callouts via text, or e-mail

\*Optional

## EXHAUST TEMPERATURE MONITORS\*

- Sensors are spaced out along the exhaust ducts to monitor exhaust temperatures
- Can indicate hot spots in the dryer
- If a sensor detects a hot spot, it will turn the dryer off
- Easily retrofitted to existing dryers
- Installed during assembly for new dryers

\*Optional





# K SERIES

The K Series grain dryer features a basic operating system making it user friendly and the compact size is a great solution for smaller farm operations.

## FEATURES

- Easy to use touch screen interface
- Dryer setup, alarm, and bushel counter
- Single wet / dry transport relays
- Wet / dry configurable timers
- Alarms are tracked in alarm log
- Single sensor moisture manager system
- High and low moisture limit settings
- Standard gravity fill roof
- Leveling auger available as an option
- Cooling floor available if required



| DRYER MODEL | NUMBER OF TIERS | HOLDING CAPACITY (BU) | CORN                     |                            |                           |                              |                            | WHEAT                  |                          | CANOLA                     | RICE                   | NUMBER OF BLOWERS AND HP | AMPS 230V 3 PHASE | MAX BURNER OUTPUT (MMBTU/HR) | MAX UNLOAD CAPACITY (BPH) | FILL HEIGHT GRAVITY FILL (FT) | TOTAL LENGTH (FT) |
|-------------|-----------------|-----------------------|--------------------------|----------------------------|---------------------------|------------------------------|----------------------------|------------------------|--------------------------|----------------------------|------------------------|--------------------------|-------------------|------------------------------|---------------------------|-------------------------------|-------------------|
|             |                 |                       | ALL HEAT 210°F (22%-17%) | ALL HEAT 210°F (25% - 17%) | ALL HEAT 210°F (27% -17%) | DRY & COOL 210°F (20% - 15%) | DRY & COOL 210°F (25%-15%) | ALL HEAT 170°F (5 PTS) | DRY & COOL 170°F (5 PTS) | ALL HEAT 160°F (15% - 10%) | ALL HEAT 120°F (4 PTS) |                          |                   |                              |                           |                               |                   |
| 16' DRYERS  |                 |                       |                          |                            |                           |                              |                            |                        |                          |                            |                        |                          |                   |                              |                           |                               |                   |
| K600        | 4               | 578                   | 515                      | 341                        | 274                       | 334                          | 226                        | 416                    | 349                      | 222                        | 399                    | 1 x 15 hp                | 90*               | 6                            | 982                       | 19.2                          | 27                |
| K700        | 5               | 674                   | 568                      | 375                        | 302                       | 417                          | 268                        | 448                    | 398                      | 267                        | 439                    | 1 x 15 hp                | 90*               | 6                            | 982                       | 21.2                          | 24                |
| K800        | 6               | 770                   | 740                      | 488                        | 393                       | 589                          | 361                        | 573                    | 524                      | 348                        | 569                    | 1 x 20 hp                | 70                | 6                            | 982                       | 23.2                          | 24                |
| K900        | 7               | 866                   | 860                      | 567                        | 457                       | 720                          | 372                        | 668                    | 623                      | 404                        | 662                    | 1 x 25 hp                | 85                | 6                            | 982                       | 25.2                          | 24                |

\*Only available for single phase power

## Imperial Measurement

| DRYER MODEL | NUMBER OF TIERS | HOLDING CAPACITY (BU) | CORN                     |                            |                           |                              |                            | WHEAT                   |                           | CANOLA                   | RICE                    | NUMBER OF BLOWERS AND HP | AMPS 230V 3 PHASE | MAX BURNER OUTPUT MMBTU/HR | MAX UNLOAD CAPACITY (BPH) | FILL HEIGHT GRAVITY FILL (FT) | TOTAL LENGTH (FT) |
|-------------|-----------------|-----------------------|--------------------------|----------------------------|---------------------------|------------------------------|----------------------------|-------------------------|---------------------------|--------------------------|-------------------------|--------------------------|-------------------|----------------------------|---------------------------|-------------------------------|-------------------|
|             |                 |                       | ALL HEAT 210°F (22%-17%) | ALL HEAT 210°F (25% - 17%) | ALL HEAT 210°F (27% -17%) | DRY & COOL 210°F (20% - 15%) | DRY & COOL 210°F (25%-15%) | ALL HEAT 170°F (18-13%) | DRY & COOL 170°F (18-13%) | ALL HEAT 160°F (15%-10%) | ALL HEAT 120°F (16-12%) |                          |                   |                            |                           |                               |                   |
| 16' DRYERS  |                 |                       |                          |                            |                           |                              |                            |                         |                           |                          |                         |                          |                   |                            |                           |                               |                   |
| D1660       | 4               | 578                   | 515                      | 341                        | 274                       | 334                          | 226                        | 416                     | 349                       | 222                      | 399                     | 1 x 15 hp                | 60                | 6                          | 982                       | 19.2                          | 27                |
| D1670       | 5               | 674                   | 631                      | 417                        | 336                       | 463                          | 298                        | 498                     | 442                       | 297                      | 488                     | 1 x 20 HP                | 70                | 6                          | 982                       | 21.2                          | 24                |
| D1680       | 6               | 770                   | 740                      | 488                        | 393                       | 589                          | 361                        | 573                     | 524                       | 348                      | 569                     | 1 x 20 HP                | 70                | 6                          | 982                       | 23.2                          | 24                |
| D1690       | 7               | 866                   | 860                      | 567                        | 457                       | 720                          | 372                        | 668                     | 623                       | 404                      | 662                     | 1 x 25 HP                | 85                | 6                          | 982                       | 25.2                          | 24                |
| D16106      | 8               | 962                   | 981                      | 648                        | 522                       | 851                          | 443                        | 804                     | 686                       | 461                      | 767                     | 2 x 15 HP                | 110               | 12                         | 1527                      | 27.2                          | 27                |
| D16120      | 10              | 1155                  | 1196                     | 804                        | 635                       | 1028                         | 567                        | 995                     | 891                       | 588                      | 966                     | 2 x 20 HP                | 130               | 12                         | 1527                      | 31.2                          | 27                |
| D16140      | 12              | 1347                  | 1395                     | 938                        | 740                       | 1199                         | 662                        | 1144                    | 1054                      | 689                      | 1128                    | 2 x 20 HP                | 130               | 12                         | 1527                      | 35.2                          | 27                |
| D16160      | 14              | 1539                  | 1594                     | 1071                       | 846                       | 1370                         | 756                        | 1396                    | 1311                      | 813                      | 1343                    | 1 x 15 HP<br>2 x 20 HP   | 175               | 18                         | 2250                      | 39.2                          | 27                |
| 24' DRYERS  |                 |                       |                          |                            |                           |                              |                            |                         |                           |                          |                         |                          |                   |                            |                           |                               |                   |
| D24108      | 6               | 1155                  | 1109                     | 731                        | 589                       | 883                          | 541                        | 870                     | 795                       | 521                      | 856                     | 2 x 15 HP                | 110               | 12                         | 1473                      | 25.9                          | 35                |
| D24150      | 8               | 1443                  | 1474                     | 973                        | 784                       | 1279                         | 665                        | 1145                    | 975                       | 693                      | 1133                    | 2 x 20 HP                | 130               | 12                         | 1473                      | 27.9                          | 35                |
| D24180      | 10              | 1732                  | 1687                     | 1108                       | 891                       | 1398                         | 797                        | 1338                    | 1195                      | 793                      | 1313                    | 2 x 25 HP                | 165               | 15                         | 2291                      | 33.9                          | 35                |
| D24210      | 12              | 2020                  | 2092                     | 1406                       | 1110                      | 1799                         | 992                        | 1717                    | 1580                      | 1034                     | 1692                    | 3 x 20 HP                | 190               | 18                         | 2291                      | 37.9                          | 35                |
| D24240      | 14              | 2309                  | 2391                     | 1595                       | 1269                      | 2061                         | 1142                       | 1911                    | 1795                      | 1141                     | 1880                    | 1 x 20 HP<br>2 x 25 HP   | 220               | 21                         | 3382                      | 41.9                          | 35                |
| D24260      | 16              | 2597                  | 2689                     | 1808                       | 1427                      | 2312                         | 1275                       | 2288                    | 2174                      | 1376                     | 2250                    | 4 x 20 HP                | 245               | 24                         | 3382                      | 45.9                          | 35                |
| D24330      | 20              | 3174                  | 3287                     | 2206                       | 1745                      | 2826                         | 1559                       | 2859                    | 2761                      | 1717                     | 2668                    | 5 x 20 HP                | 300               | 30                         | 4527                      | 53.9                          | 35                |
| D24380      | 24              | 3750                  | 3883                     | 2610                       | 2061                      | 3339                         | 1842                       | 3429                    | 3171                      | 2058                     | 3232                    | 6 x 20 HP                | 355               | 36                         | 4527                      | 61.9                          | 35                |
| 32' DRYERS  |                 |                       |                          |                            |                           |                              |                            |                         |                           |                          |                         |                          |                   |                            |                           |                               |                   |
| D32260      | 12              | 2693                  | 2647                     | 1874                       | 1399                      | 2398                         | 1275                       | 2041                    | 1876                      | 1359                     | 1957                    | 3 x 30 HP                | 270               | 25.5                       | 4364                      | 40.6                          | 43                |
| D32340      | 16              | 3463                  | 3521                     | 2410                       | 1862                      | 3083                         | 1565                       | 2721                    | 2582                      | 1807                     | 2657                    | 4 x 30 HP                | 350               | 34.5                       | 4364                      | 48.6                          | 43                |
| D32440      | 20              | 4232                  | 4394                     | 2945                       | 2324                      | 3768                         | 2061                       | 3400                    | 3281                      | 2258                     | 3360                    | 5 x 30 HP                | 430               | 43.5                       | 6000                      | 56.6                          | 43                |
| D32500      | 24              | 5001                  | 5178                     | 3481                       | 2749                      | 4453                         | 2456                       | 4080                    | 3765                      | 2704                     | 4014                    | 6 x 30 HP                | 510               | 52.5                       | 6000                      | 64.6                          | 43                |

### Product Disclaimer:

- Drying capacities represent AGI's best estimate of attainable wet bushel capacities based on a combination of actual field results and computer analysis
- Capacities will vary depending on outside temperature, humidity, initial grain temperature, crop maturity and variety, cleanliness of the grain, test weight, operating temperature, drying vs. cooling zones, etc
- Hot grain discharged from the dryer will dry an additional 1.5% - 2% when properly cooled
- Fill height listed is for a dryer with a 48" standard leg kit
- Average burner output MMBTU/hr is based on 155°F temperature rise. Ambient of 55°F and dryer operating temperature of 210°F
- Maximum discharge is based on maximum capacity of the metering rolls

## Metric Measurement

| DRYER MODEL | NUMBER OF TIERS | HOLDING CAPACITY (MT) | CORN                     |                          |                          |                            |                            | WHEAT                    |                            | CANOLA                   | RICE                     | NUMBER OF BLOWERS AND HP | AMPS 380V 3 PHASE | MAX BURNER OUTPUT MMBTU/HR | MAX UNLOAD CAPACITY (MT) | FILL HEIGHT GRAVITY FILL (M) | TOTAL LENGTH (M) |
|-------------|-----------------|-----------------------|--------------------------|--------------------------|--------------------------|----------------------------|----------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|-------------------|----------------------------|--------------------------|------------------------------|------------------|
|             |                 |                       | ALL HEAT 98.8°C (22-17%) | ALL HEAT 98.8°C (25-17%) | ALL HEAT 98.8°C (27-17%) | DRY & COOL 98.8°C (20-15%) | DRY & COOL 98.8°C (25-15%) | ALL HEAT 76.6°C (18-13%) | DRY & COOL 76.6°C (18-13%) | ALL HEAT 71.1°C (15-10%) | ALL HEAT 48.9°C (16-12%) |                          |                   |                            |                          |                              |                  |
| 16' DRYERS  |                 |                       |                          |                          |                          |                            |                            |                          |                            |                          |                          |                          |                   |                            |                          |                              |                  |
| D1660       | 4               | 15                    | 13.9                     | 9.6                      | 7.9                      | 9.0                        | 6.5                        | 12.0                     | 10.1                       | 5.9                      | 8.6                      | 1 x 15 HP                | 45                | 6                          | 25                       | 5.9                          | 8.2              |
| D1670       | 5               | 17.1                  | 17.1                     | 11.7                     | 9.7                      | 12.5                       | 8.6                        | 14.4                     | 12.8                       | 7.9                      | 10.5                     | 1 x 25 HP                | 55                | 6                          | 25.0                     | 6.4                          | 7.3              |
| D1680       | 6               | 19.6                  | 20.0                     | 13.7                     | 11.4                     | 15.9                       | 10.4                       | 16.6                     | 15.2                       | 9.2                      | 12.3                     | 1 x 25 HP                | 55                | 6                          | 25.0                     | 7.0                          | 7.3              |
| D1690       | 7               | 22.0                  | 23.3                     | 16.0                     | 13.2                     | 19.4                       | 10.7                       | 19.3                     | 18.0                       | 10.7                     | 14.3                     | 1 x 30 HP                | 65                | 6                          | 25.0                     | 7.6                          | 7.3              |
| D16106      | 8               | 24.4                  | 26.5                     | 18.2                     | 15.1                     | 23.0                       | 12.7                       | 23.2                     | 19.9                       | 12.2                     | 16.5                     | 2 x 20 HP                | 85                | 12                         | 38.8                     | 8.2                          | 8.2              |
| D16120      | 10              | 29.3                  | 32.3                     | 22.6                     | 18.4                     | 27.7                       | 16.3                       | 28.8                     | 25.8                       | 15.6                     | 20.8                     | 2 x 25 HP                | 105               | 12                         | 38.8                     | 9.5                          | 8.2              |
| D16140      | 12              | 34.2                  | 37.7                     | 26.4                     | 21.4                     | 32.4                       | 19.0                       | 33.1                     | 30.5                       | 18.3                     | 24.3                     | 2 x 25 HP                | 105               | 12                         | 38.8                     | 10.7                         | 8.2              |
| D16160      | 14              | 39.1                  | 43.1                     | 30.1                     | 24.5                     | 37.0                       | 21.7                       | 40.4                     | 38.0                       | 21.6                     | 29.0                     | 1 x 20 HP<br>2 x 25 HP   | 140               | 18                         | 57.5                     | 11.9                         | 8.2              |
| 24' DRYERS  |                 |                       |                          |                          |                          |                            |                            |                          |                            |                          |                          |                          |                   |                            |                          |                              |                  |
| D24108      | 6               | 29.3                  | 30.0                     | 20.6                     | 17.0                     | 23.8                       | 15.6                       | 25.2                     | 23.0                       | 13.8                     | 18.5                     | 2 x 20 HP                | 85                | 12                         | 37.4                     | 7.8                          | 10.6             |
| D24150      | 8               | 36.7                  | 39.9                     | 27.4                     | 22.7                     | 34.5                       | 19.1                       | 33.1                     | 28.2                       | 18.4                     | 24.4                     | 2 x 25 HP                | 105               | 12                         | 37.4                     | 8.5                          | 10.6             |
| D24180      | 10              | 44.0                  | 45.6                     | 31.2                     | 25.8                     | 37.7                       | 22.9                       | 38.7                     | 34.6                       | 21.1                     | 28.3                     | 2 x 30 HP                | 120               | 15                         | 58.2                     | 10.3                         | 10.6             |
| D24210      | 12              | 51.3                  | 56.6                     | 39.6                     | 32.1                     | 48.5                       | 28.5                       | 49.6                     | 45.8                       | 27.5                     | 36.5                     | 3 x 25 HP                | 150               | 18                         | 58.2                     | 11.5                         | 10.6             |
| D24240      | 14              | 58.7                  | 64.7                     | 44.9                     | 36.7                     | 55.6                       | 32.8                       | 55.3                     | 52.0                       | 30.3                     | 40.5                     | 1 x 25 HP<br>2 x 30 HP   | 165               | 21                         | 85.9                     | 12.7                         | 10.6             |
| D24260      | 16              | 66.0                  | 72.7                     | 50.8                     | 41.3                     | 62.4                       | 36.7                       | 66.2                     | 63.0                       | 36.6                     | 48.5                     | 4 x 25 HP                | 195               | 24                         | 85.9                     | 13.9                         | 10.6             |
| D24330      | 20              | 80.6                  | 88.9                     | 62.1                     | 50.4                     | 76.2                       | 44.8                       | 82.7                     | 80.0                       | 45.6                     | 57.5                     | 5 x 25 HP                | 240               | 30                         | 115.6                    | 16.4                         | 10.6             |
| D24380      | 24              | 95.3                  | 105.0                    | 73.4                     | 59.6                     | 90.1                       | 53.0                       | 99.2                     | 91.8                       | 54.7                     | 69.7                     | 6 x 25 HP                | 285               | 36                         | 115.6                    | 18.8                         | 10.6             |
| 32' DRYERS  |                 |                       |                          |                          |                          |                            |                            |                          |                            |                          |                          |                          |                   |                            |                          |                              |                  |
| D32260      | 12              | 68.4                  | 71.6                     | 52.7                     | 40.4                     | 64.7                       | 36.7                       | 59.0                     | 54.3                       | 36.1                     | 42.2                     | 3 x 30 HP                | 175               | 25.5                       | 114.6                    | 12.3                         | 13.1             |
| D32340      | 16              | 88.0                  | 95.2                     | 67.8                     | 53.8                     | 83.2                       | 45.0                       | 78.7                     | 74.8                       | 48.0                     | 57.3                     | 4 x 30 HP                | 225               | 34.5                       | 114.6                    | 14.8                         | 13.1             |
| D32440      | 20              | 107.5                 | 118.8                    | 82.9                     | 67.2                     | 101.7                      | 59.3                       | 98.3                     | 95.0                       | 60.0                     | 72.4                     | 5 x 30 HP                | 275               | 43.5                       | 170.0                    | 17.2                         | 13.1             |
| D32500      | 24              | 127.1                 | 140.1                    | 97.9                     | 79.5                     | 120.1                      | 70.6                       | 118.0                    | 109.0                      | 71.8                     | 86.5                     | 6 x 30 HP                | 325               | 52.5                       | 170.0                    | 18.6                         | 13.1             |

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- Maximum discharge is based on maximum capacity of the metering rolls



AGI is a global leader in supplying farm and commercial customers with the manufacturing, planning, and engineering of full equipment solutions for grain, seed, fertilizer, feed, and food. AGI's expertise enables the storage, blending, mixing, conveying, conditioning, processing, and protection of agricultural products and inputs worldwide.

**Your safety is our highest priority.**

Please read and understand the operator's manual and safety decals before using. Use and maintain products properly, and do not modify. Keep guards in place when operating and follow all product manuals and safety decals. For all AGI products, if guards, safety decals, or manuals are damaged or missing, contact your AGI sales or dealer representative for replacements. Images and information contained in this brochure are presented for general information.

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