AGI GRAINGUARD

Fan
Guide

CENTRIFUGAL FANS

IN-LINE

- Available in 3-10 HP sizes
- 18", 24", and 28" diameter openings
- Precision balanced steel fan wheel ensures maximum airflow and efficiency
- Aerodynamically designed inlet cone
- Weatherproof electrical controls
- Air-over cooled motor

		INCHES IN STATIC PRESSURE					
MODEL	HP	2	4	6	8	10	12
GGI-80311	3	3690	3020	2130	0	0	0
GGI-80511	5	5430	4790	4050	1600	0	0
GGI-80711	7	6550	5950	5220	4340	1560	0
GGI-81011	10	7750	7220	6550	5850	4960	3640

Fan Performance: Airflow (CFM) at Static Pressure (In. Water Gauge)

HIGH SPEED

- Available in 3-10 HP sizes
- Adapts to most aeration systems
- Precision balanced steel fan wheel ensures maximum airflow and efficiency
- Fan cooled electric motor
- Weatherproof electrical controls

		INCHES IN STATIC PRESSURE					
MODEL	HP	2	4	6	8	10	12
GGF-80311	3	3430	3120	2740	2260	0	0
GGF-80511	5	4800	4100	3530	3140	1980	0
GGF-80711	7.5	5500	5140	4560	4140	3480	2410
GGF-81011	10	6947	6258	5843	5500	5150	4750

Fan Performance: Airflow (CFM) at Static Pressure (In. Water Gauge)

LOW SPEED

- Available in 10-30 HP sizes
- Adapts to most full floor aeration systems
- Precision balanced, seam welded steel wheel ensures maximum airflow and efficiency
- Adjustable feet are standard to allow unit to be leveled on a concrete pad or blower support stand
- Enclosed, fan cooled, electric motor
- Weatherproof electrical controls

		INCHES IN STATIC PRESSURE							
MODEL	HP	0	1	2	3	4	5	6	7
GGL-81011	10	16050	15100	14200	13300	12300	11300	10100	7800
GGL-81532	15	18100	17000	16200	15200	14300	12700	11700	11100
GGL-82032	20	23700	22800	21800	20600	19600	18600	17200	15800
GGL-82532	25	24100	23700	22700	21700	20900	20000	19000	17700
GGL-83032	30	28000	26700	25500	24500	23500	22300	21000	20000

Fan Performance: Airflow (CFM) at Static Pressure (In. Water Gauge)

LOW TEMPERATURE SUPPLEMENTAL HEATERS

LOW TEMPERATURE SUPPLEMENTAL HEATERS ALLOW 24 HOUR GRAIN DRYING WHEN HIGH HUMIDITY CONDITIONS PREVAIL. THE HEATER IS EASILY INSTALLED BETWEEN THE FAN AND BIN.

- Lowers humidity up to 50%
- 60,000 and 100,000 btu models raise air temperature approximately 10-12°C
- 200,000 btu models raise air temperature approximately 25-30°C
- Propane or natural gas (operate on lbs. pressure only)
- Available for in-line and high speed centrifugal fans

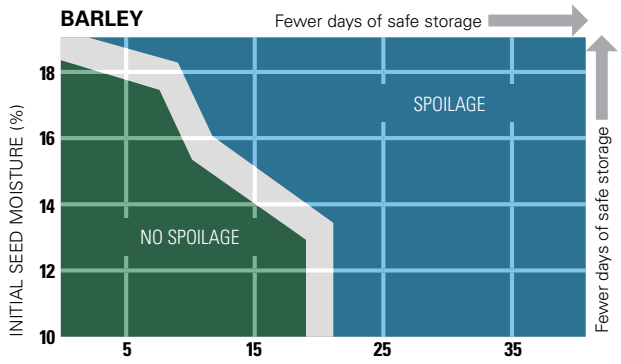
- Electronic Ignition
- High heat limit safety switches
- Airflow and pressure sensing safety devices included
- 60,000 btu available in 9"x14" or 18" round (3 HP fan)
- 100,000 btu available in 9"x14" or 24" round (5 HP & 7 HP fans)
- 200,000 btu available in 12"x17" or 28" round (10 HP fans)

EQUILIBRIUM MOISTURE CONTENT (EMC)

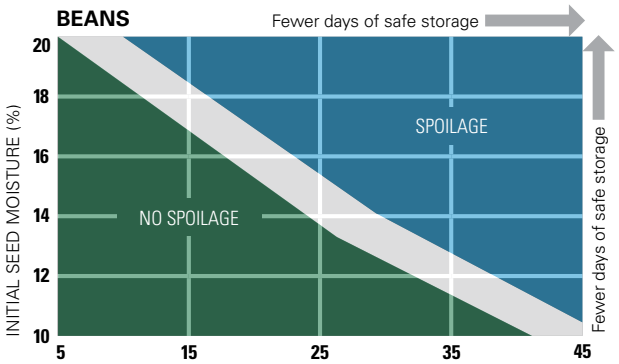
EMC reflects moisture levels in grain when exposed to the certain humidity levels and temperatures for a period of time.

CORN			WHEAT			CANOLA		
RELATIVE AIR HUMIDITY	10 °C (50 °F)	25 °C (77 °F)	RELATIVE AIR HUMIDITY	10 °C (50 °F)	25 °C (77 °F)	RELATIVE AIR HUMIDITY	10 °C (50 °F)	25 °C (77 °F)
50%	12.50%	11.00%	58%	13%	12%	58%	8.60%	7.50%
60%	13.80%	12.40%	64%	14%	13%	64%	9.40%	8.20%
70%	15.40%	14.00%	70%	15%	14%	70%	10.30%	9.00%
80%	17.30%	16.00%	75%	16%	15%	75%	11.10%	9.80%
90%	20.20%	19.00%	79%	17%	16%	79%	12.00%	10.80%
–	–	–	83%	18%	17%	83%	13.20%	12.00%
–	–	–	86%	19%	18%	86%	14.50%	13.40%

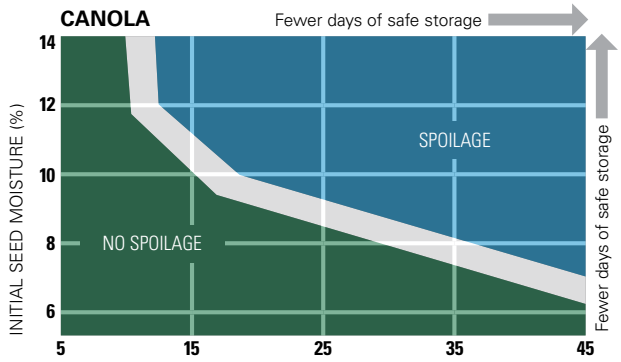
SAFE STORAGE CHARTS



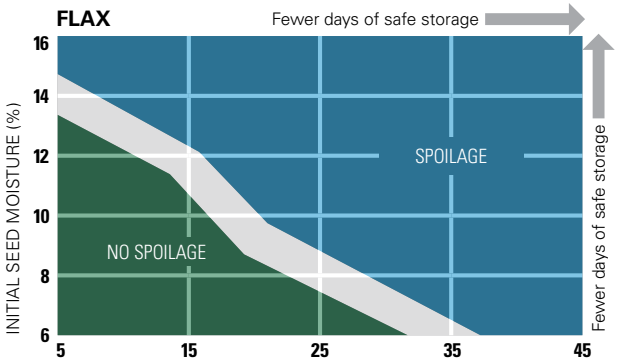
Barley: spoilage occurs when initial temperature ranges from 5°C to 20°C with respective moisture from 18% to 10% moisture content.



Beans: spoilage occurs when initial temperature ranges from 5°C to 42°C with respective moisture from 20% to 10% moisture content.

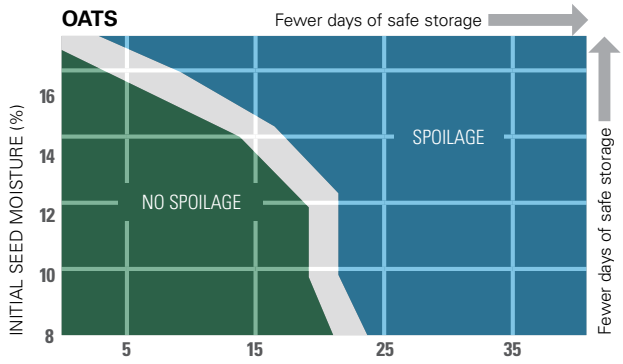


Canola: spoilage occurs when initial temperature ranges from 10°C to 50°C with respective moisture from 12% to 7% moisture content.

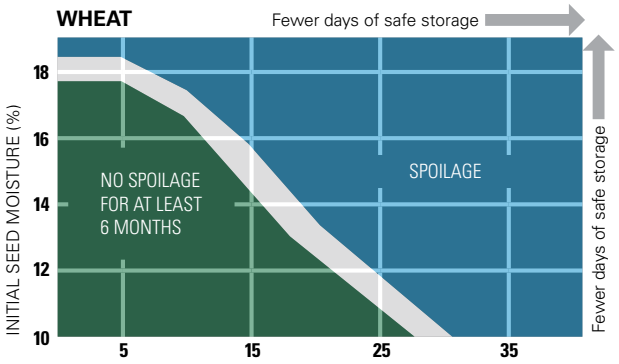


Flax: spoilage occurs when initial temperature ranges from 5°C to 32°C with respective moisture from 13% to 6% moisture content

SAFE STORAGE CHARTS



Oats: spoilage occurs when initial temperature ranges from 0°C to 21°C with respective moisture from 17% to 8% moisture content.



Wheat: spoilage occurs when initial temperature ranges from 0°C to 28°C with respective moisture from 18% to 10% moisture content.

Charts provided by http://www.grainscanada.gc.ca/storage-entrepose/ssg-de-eng.htm#barley

Grain Guard is an AGI Brand.

AGI is a leading provider of equipment solutions for agriculture bulk commodities including seed, fertilizer, grain, and feed systems with a growing platform in providing equipment and solutions for food processing facilities. AGI has manufacturing facilities in Canada, the United States, the United Kingdom, Brazil, South Africa and Italy and distributes its products globally.

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