

GRAIN GUARD

Create the Perfect
Climate for Your Bins.



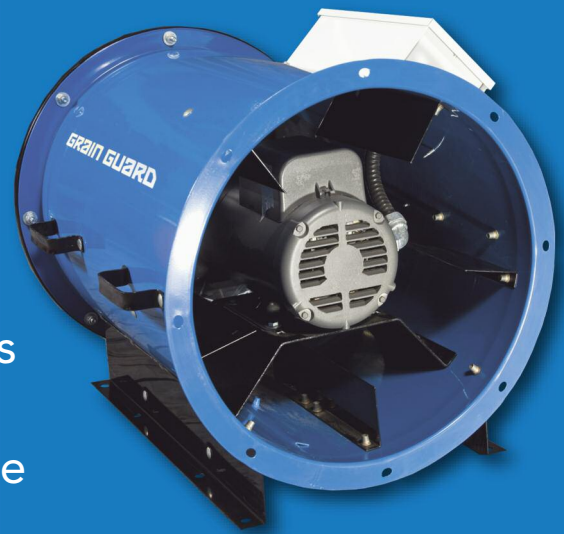
Centrifugals

In Line
High Speed
Low Speed

Axials

Fan Guide

In-Line Centrifugal Fans



- Available in 3-10 HP sizes
- 18", 24", and 28" diameter openings
- Steel constructed air-foil rotor
- Aerodynamically designed inlet cone
- Weatherproof electrical controls
- Heavy duty air-over cooled motor

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

Model	HP	2	4	6	8	10	12
GGI-8311	3	3690	3020	2130	0	0	0
GGI-8511	5	5230	4780	4160	1850	0	0
GGI-8711	7	6510	6060	5250	4460	1570	0
GGI-8011	10	7750	7220	6550	5850	4960	3640

Equilibrium Moisture Content (EMC)

Corn

Relative Air Humidity	0°C (32°F)	5°C (41°F)	10°C (50°F)	15°C (59°F)	20°C (68°F)	25°C (77°F)
50%	13.7%	13.1%	12.5%	11.9%	11.5%	11.0%
60%	15.1%	14.4%	13.8%	13.3%	12.8%	12.4%
70%	16.6%	15.9%	15.4%	14.9%	14.4%	14.0%
80%	18.4%	17.8%	17.3%	16.8%	16.4%	16.0%
90%	21.3%	20.7%	20.2%	19.8%	19.4%	19.0%

High Speed Centrifugal Fans

- Available in 3-10 HP sizes
- Adapts to most aeration systems
- Airfoil precision balanced steel blades ensure maximum airflow and efficiency
- Enclosed, fan cooled, electric motor



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

Model	HP	2	4	6	8	10	12
GGF-8311	3	3430	3120	2740	2260	0	0
GGF-8511	5	4800	4100	3530	3140	1980	0
GGF-8711	7.5	5500	5140	4560	4140	3480	2410
GGF-8011	10	6930	6280	5790	5550	5140	4720

Wheat

Canola

Relative Air Humidity	10°C (50°F)	25°C (77°F)	Relative Air Humidity	10°C (50°F)	25°C (77°F)
58%	13%	12%	58%	8.6%	7.5%
64%	14%	13%	64%	9.4%	8.2%
70%	15%	14%	70%	10.3%	9.0%
75%	16%	15%	75%	11.1%	9.8%
79%	17%	16%	79%	12.0%	10.8%
83%	18%	17%	83%	13.2%	12.0%
86%	19%	18%	86%	14.5%	13.4%

Low Speed Centrifugal Fans

1750 RPM available with or without controls

Grain Guard uses a 12 gauge, galvanized steel housing on all low speed centrifugal fans to provide a long fan work life.

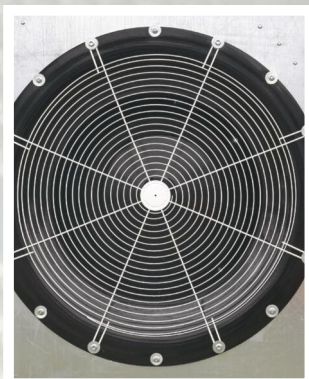


Fan Performance: Airflow (CFM) at Static Pressure (In. Water Gauge)

Model	HP	0	1	2	3	4	5	6	7
GGL-80511	5	9500	8900	7650	6700	6000	5200	-	-
GGL-80711	7.5	12100	11500	10600	9700	9000	7900	6700	-
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



Grain Guard uses totally-enclosed, fan cooled Baldor Motors on all low speed centrifugal fans.



The Grain Guard air inlet is designed to allow for better air flow.



Balanced, powder coated, seam welded steel centrifugal wheel features airfoil blades to maximize air flow.



Adjustable feet are standard on all Grain Guard low speed centrifugal fans to allow the unit to be leveled while on the fan support platform.

GRAIN GUARD

Axial Fans

3450 RPM available with or without controls

Grain Guard Axial Fans are built tough and stable so they can be moved and set-up quickly and easily.



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

Model	HP	0	1	2	3	4	5	6	7
GGX-80311	3	6500	5825	4975	3100	1880	-	-	-
GGX-80511	5	12400	11140	9550	7500	5300	3350	2100	600
GGX-80711	7	13600	12700	11200	9300	7200	5150	3400	400
GGX-81011	10	15400	14000	12800	10650	8050	5600	3500	400



A **galvanized control box** is standard on all Grain Guard axial fans. The galvanized control box ensures a long life and is weather proofed for controls protection.



Balanced **cast aluminum** blade with air foil design to ensure efficient air handling.



Totally enclosed, air over **Baldor Motors** are standard on Grain Guard Axial fans. A solid motor mount provides a strong base for the fan and increases stability during fan operation.

Low-Temperature Grain Drying Heaters

When Mother Nature won't co-operate, Low-Temperature Grain Dryers take over

- Lower humidity up to 50%
- Allows moisture removal from grain in high humidity conditions
- 60,000 BTU or 100,000 BTU available in 9"x14", 18" or 24"
- Propane or natural gas.
- Provides 10°–12°C temperature rise
- Available for in-line and high speed centrifugal

Low temperature grain dryers allow 24 hour grain drying when high humidity conditions prevail. The heater is easily installed between the fan and bin.

Specifications

- Low Temperature Propane/Natural Gas Heaters
- 60,000 BTU – 3 HP Fan
- 100,000 BTU – 5 HP & 7 HP Fans
- Natural gas heaters operate on lbs. pressure only (min. 2 lbs. pressure required)
- Raise air temperature approximately 10°–12°C
- Electronic ignition
- Static pressure switch
- High heat limit safety switch
- CGA approved



GRAIN GUARD

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