

# GRAINGUARD



## Centrifugals

In-Line  
High Speed  
Low Speed

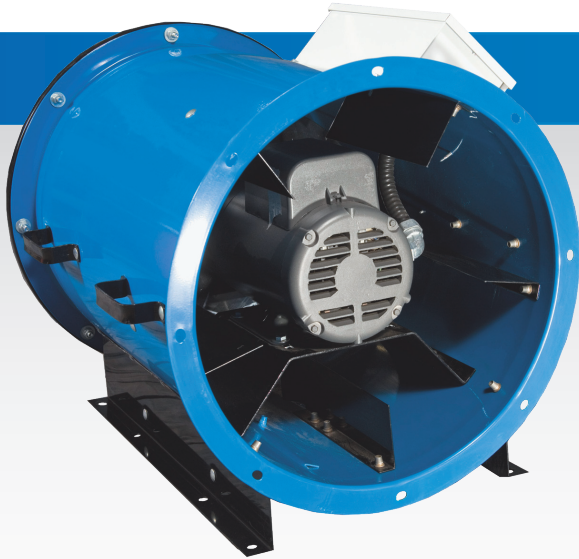
## Axials

Create the Perfect Climate for Your Bins.



Fan Guide

# In-Line Centrifugal Fans



- 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

Model	HP	2	4	6	8	10	12
<b>GGI-80311</b>	3	3690	3020	2130	0	0	0
<b>GGI-80511</b>	5	5430	4790	4050	1600	0	0
<b>GGI-80711</b>	7	6550	5950	5220	4340	1560	0
<b>GGI-81011</b>	10	7750	7220	6550	5850	4960	3640

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

# High Speed Centrifugal Fans



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

Model	HP	2	4	6	8	10	12
<b>GGF-80311</b>	3	3430	3120	2740	2260	0	0
<b>GGF-80511</b>	5	4800	4100	3530	3140	1980	0
<b>GGF-80711</b>	7.5	5500	5140	4560	4140	3480	2410
<b>GGF-81011</b>	10	6947	6258	5843	5500	5150	4750

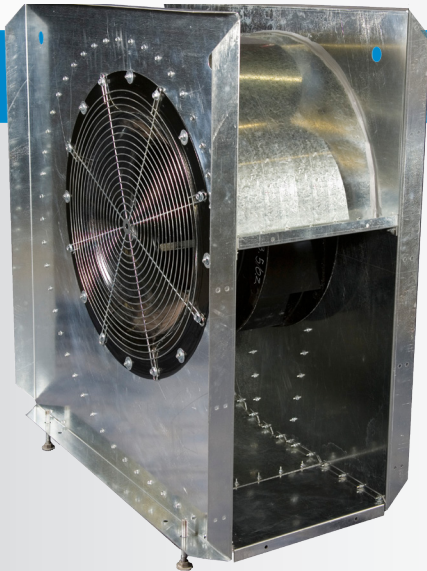
Fan Performance: Airflow (CFM) at Static Pressure (In. Water Gauge)

## 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)
<b>50%</b>	13.70%	13.10%	12.50%	11.90%	11.50%	11.00%
<b>60%</b>	15.10%	14.40%	13.80%	13.30%	12.80%	12.40%
<b>70%</b>	16.60%	15.90%	15.40%	14.90%	14.40%	14.00%
<b>80%</b>	18.40%	17.80%	17.30%	16.80%	16.40%	16.00%
<b>90%</b>	21.30%	20.70%	20.20%	19.80%	19.40%	19.00%

# Low Speed Centrifugal Fans

*With more than 100,000 fans in operation Grain Guard remains the leader in aeration design*

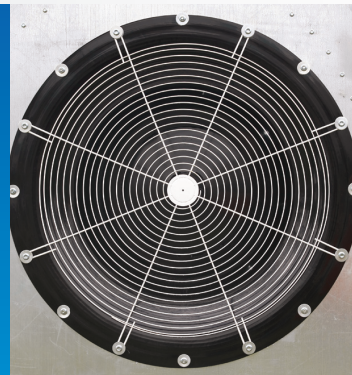


Grain Guard uses a 12-gauge, galvanized steel housing on all low speed centrifugal fans to provide a long fan work life.

Model	HP	0	1	2	3	4	5	6	7
<b>GGL-80511</b>	5	9500	8900	7650	6700	6000	5200	-	-
<b>GGL-80711</b>	7.5	12100	11500	10600	9700	9000	7900	6700	-
<b>GGL-81011</b>	10	16050	15100	14200	13300	12300	11300	10100	7800
<b>GGL-81532</b>	15	18100	17000	16200	15200	14300	12700	11700	11100
<b>GGL-82032</b>	20	23700	22800	21800	20600	19600	18600	17200	15800
<b>GGL-82532</b>	25	24100	23700	22700	21700	20900	20000	19000	17700
<b>GGL-83032</b>	30	28000	26700	25500	24500	23500	22300	21000	20000



Grain Guard uses totally-enclosed, fan cooled 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 allows maximum 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.

Wheat			Canola		
Relative Air Humidity	10°C (50°F)	25°C (77°F)	Relative Air Humidity	10°C (50°F)	25°C (77°F)
<b>58%</b>	13%	12%	<b>58%</b>	8.60%	7.50%
<b>64%</b>	14%	13%	<b>64%</b>	9.40%	8.20%
<b>70%</b>	15%	14%	<b>70%</b>	10.30%	9.00%
<b>75%</b>	16%	15%	<b>75%</b>	11.10%	9.80%
<b>79%</b>	17%	16%	<b>79%</b>	12.00%	10.80%
<b>83%</b>	18%	17%	<b>83%</b>	13.20%	12.00%
<b>86%</b>	19%	18%	<b>86%</b>	14.50%	13.40%

# Axial Fans



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

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

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



A galvanized control box is standard on all Grain Guard axial fans. The galvanized control box ensures a long life by providing weatherproof protection.



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



Air-over 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 available in 9"x14" or 18" round
- 100,000 btu available in 9"x14" or 24" round
- 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

