

GRAIN GUARD

The only thing that should be getting spoiled is you.

Rocket
Commercial Rocket
Horizontal Duct
15" Full Round Duct
Quonset
Wall Vents
Roof Vents

Aeration Systems

Rocket System

Designed for hopper bin storage



The 20" Inside Diameter and Perforated Core forces air up into the center of bin to allow uniform drying and reduced unloading bin pressure.

The 30" Outside Diameter with 20" inside diameter (GGR-8502) provides over 69 sq. ft. of louvered screen for maximum air flow

All Crop Non-Plugging Louvered Screen.

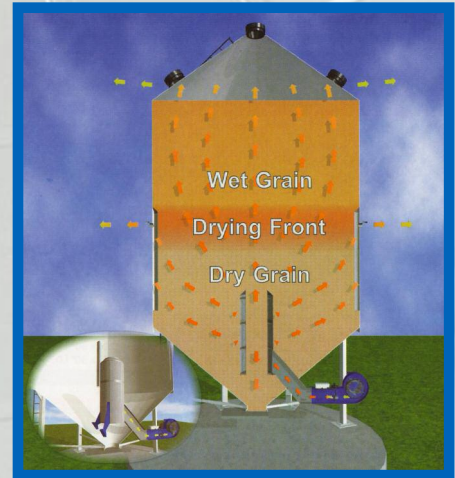
Self Levelling - Self Cleaning Legs adapt to virtually any hopper bin.

Air Intake



Model	CAPACITY	DIAMETER	AIR INLET SIZE	LEGS
GGR - 8500 - 6'	Up to 2,500 bu.	15" O.D.	9" X 14"	2
GGR - 8501 - 4'	1,500 - 3,300 bu.	30" O.D. X 20" I.D.	9" X 14"	2
GGR - 8502 - 6'	Up to 4,500 bu.	30" O.D. X 20" I.D.	9" X 14"	2
GGR - 8503 - 8'	Up to 6,000 bu.	30" O.D. X 20" I.D.	9" X 14"	2
GGR - 8521 - 4'	Up to 7,000 bu.	45" O.D. x 30" I.D.	14" x 17"	4
GGR - 8504 - 6'	Up to 8,000 bu.	45" O.D. x 30" I.D.	14" x 17"	4
GGR - 8505 - 8'	Up to 10,000 bu.	45" O.D. x 30" I.D.	14" x 17"	4

Grain Guard Aeration Systems



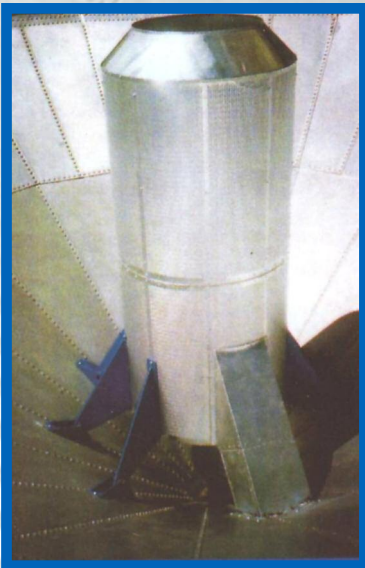
Conventional aeration systems only dry from the bottom up. Although effective in drying the bottom half, they often fall short of drying grain in the center and top half of the bin. As grain is augured into the bin, fines collect in the center resulting in a dense, packed core that is difficult for air to penetrate.

GRAIN GUARD SYSTEMS overcome this by:

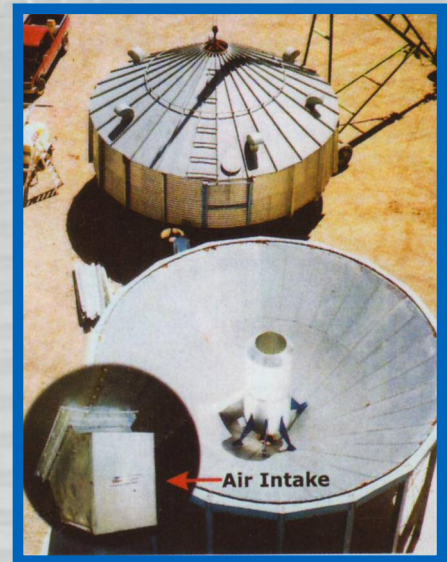
- Forcing air into the center of the bin providing a drying front that conforms to pile of grain
- Reducing static pressure
- Increasing fan efficiency and reducing drying time

Commercial Rocket System

To be used in hopper bins exceeding a 30' wall height



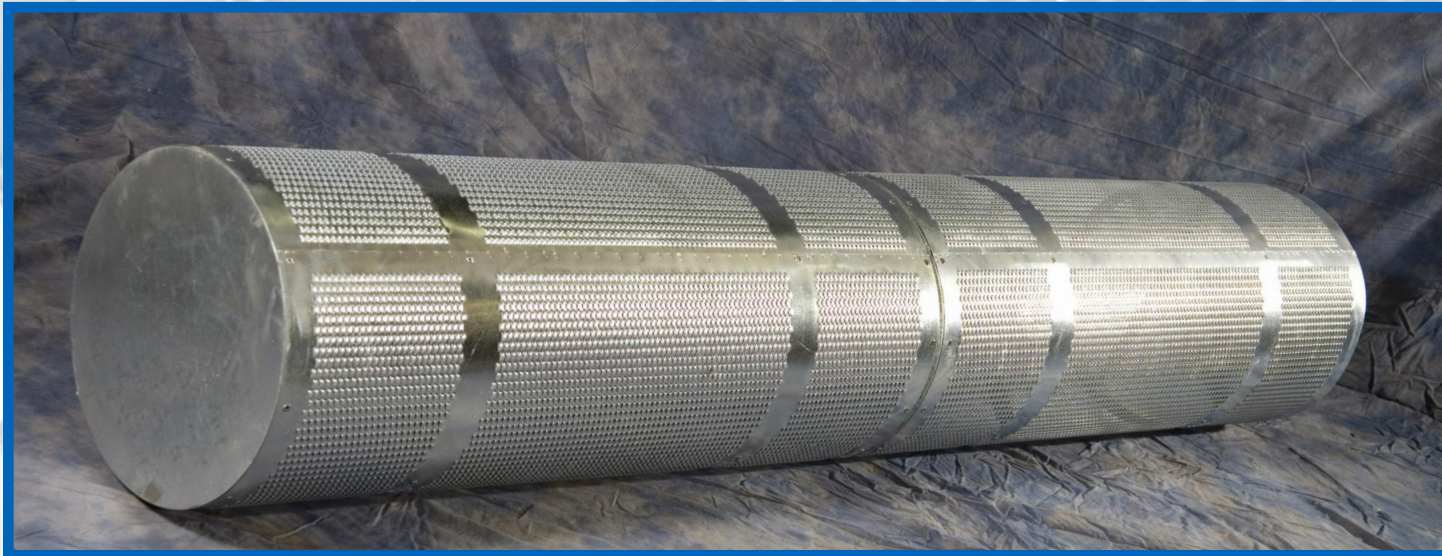
Commercial Rockets are specially reinforced inside and come with 6 legs and reinforced air inlets to handle the increased pressure.



Model	CAPACITY	DIAMETER	AIR INLET SIZE	LEGS
GGR - 8522 - 4'	up to 15,000 bu.	45" O.D. x 30" I.D.	14" x 17"	6
GGR - 8519 - 6'	up to 20,000 bu.	45" O.D. x 30" I.D.	14" x 17"	6
GGR - 8520 - 8'	up to 25,000 bu.	45" O.D. x 30" I.D.	14" x 17"	6

Horizontal Duct System

Horizontal Duct Tubes for hopper cones (cradle & air inlet not available)



Horizontal Tubes

Available in 18" and 24" diameter in 6' and 8' lengths with 2' and 4' extensions that easily connect to the 6' and 8' lengths. Made with non plugging louvered aeration screen and solid, reinforced end cap. Ideal for conditioning and cooling grain with a limited ability to dry in larger bushel bins. Recommended for aerating grain in bins up to 26' grain depth (side wall)

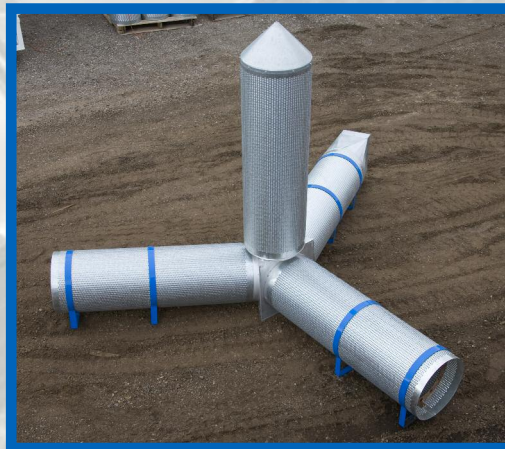
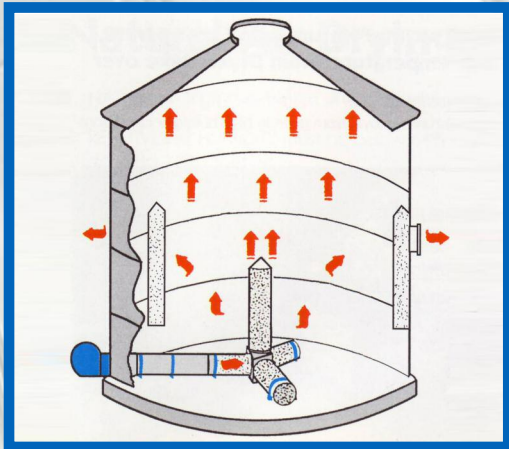
17.5" O.D. Louvered Duct c/w Solid End Cap	
Model	Description
GGR-8572	Louvered Duct - 6'
GGR-8573	Louvered Duct - 8'
17.5" O.D. Louvered Duct Extension with Connecting Collar	
Model	Description
GGR-8570	Louvered Duct - 2'
GGR-8571	Louvered Duct - 4'
23.5" O.D. Louvered Duct c/w Solid End Cap	
Model	Description
GGR-8582	Louvered Duct - 6'
GGR-8583	Louvered Duct - 8'
23.5" O.D. Louvered Duct Extension with Connecting Collar	
Model	Description
GGR-8580	Louvered Duct - 2'
GGR-8581	Louvered Duct - 4'



(support and air inlet not included)

15" Full Round Duct System

With Grain Guard, fan efficiency increases up to 20% and drying time is reduced by as much as 50%.



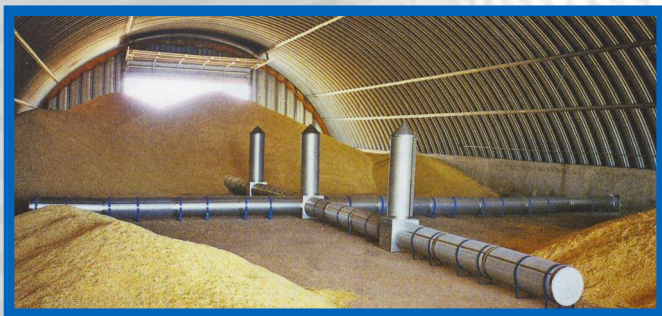
- The Rocket penetrates the center of the bin to release air into the core
- Fan efficiency is increased by as much as 20%
- Static pressure is lowered
- Drying time is reduced by as much as 50%
- Floor ducts push air down towards the floor and out towards the bin walls

Bin Diameter	Model	Tubing Diameter	Bin Diameter	Model	Tubing Diameter
14'	GGA - 8400	15"	21'	GGA - 8412	15"
16'	GGA - 8403	15"	24'	GGA - 8418	15"
18'	GGA - 8409	15"	27'	GGA - 8421	15"
19'	GGA - 8406	15"	30'	GGA - 8424	15"

All of the above systems come standard with 48" Rocket duct. Use 24" or 48" extension for tall bins.

Quonset Systems

Designed for flat storage

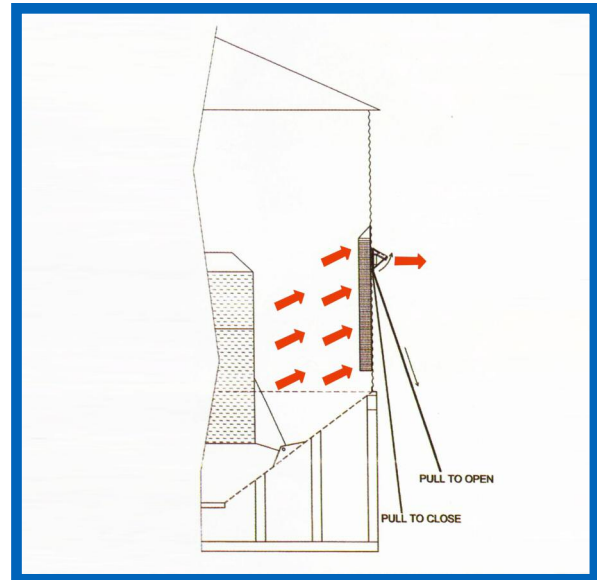


- Aeration & conditioning systems
- Cools hot grain to avoid spoilage
- Preserves wet grain until it can be dried
- Custom designed to fit almost any size quonset

Wall & Roof Vents

Wall Vents

- Reduce static pressure
- Maximize air flow
- Reduce drying time by removing moisture from the lower half of the bin
- Easily opened and closed from the ground level with a unique rope system
- Can be used to enhance other aeration systems



Roof Vents

- Removable base allows ease of installation on existing bins
- 15" inside dimension by 18" outside dimension area for maximum air movement
- Lap over design prevents moisture leakage

Roof Vents Required Per Bin

Fan	Quantity
3 HP	2
5 HP	3
7 HP	4
10 HP	5

** General rule: 1 sq. foot opening for every 1000 CFM



GRAIN GUARD

Sold and Serviced by:

Box 1600, Lethbridge, Alberta, T1J 4K3

Ph: 1-800-565-2840

Web: www.grainguard.com

Email: sales@edwardsgroup.ca

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