

# Aeration Systems



# THE NEXT GENERATION ROCKET

Uniform airflow is key to successfully conditioning grain. The Next Generation Rocket provides uniform airflow throughout your complete bin allowing you to cool or dry grain with confidence.

## FEATURES

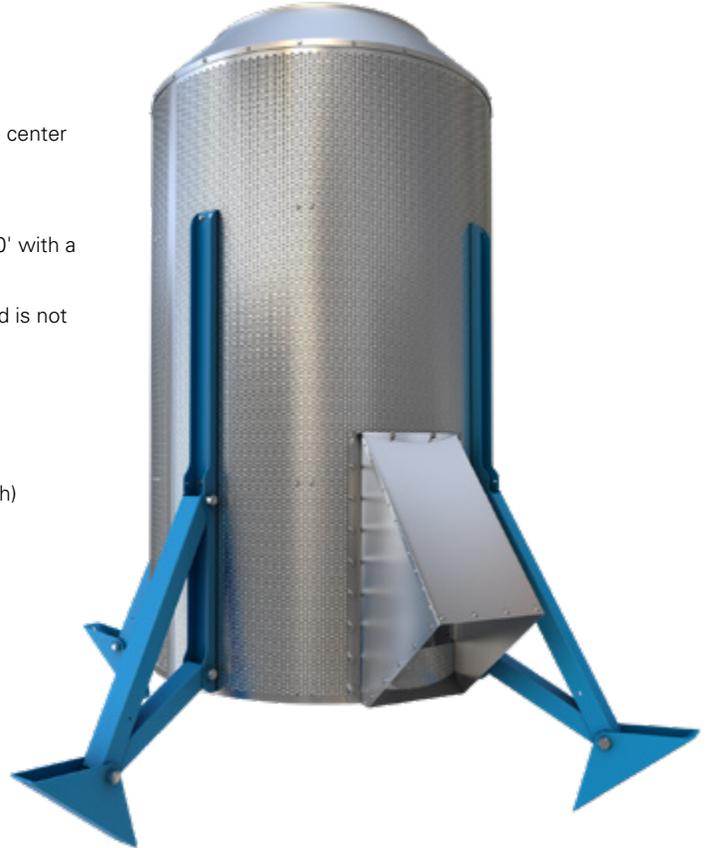
- Smooth louvered surface allows for clean unloading
- Improved performance through design provides air delivery to the center of the hopper, where air is most difficult to move
- Legs and internal support rings provide exceptional strength
- Design results in vertical loading up to 30' in grain height, up to 40' with a commercial rocket
- Three leg design allows the ducting to be used for airflow only and is not necessary as structural support
- The Next Generation Rocket is a result of 5 years of field testing

## NEXT GENERATION ROCKET LEG DESIGN

- Extended legs reach up to top reinforcing rings ( $\frac{3}{4}$  up rocket length) to provide a superior structure
- Three leg design allows for increased stability during irregular grain flows while unloading the bin
- Shipped with new fold-up legs attached, eliminating difficult field assembly

## LASER CUT INTERNAL RING

- Designed for increased structural strength
- More robust design withstands increased side loads due to irregular grain flow during unloading of the bin



GRAIN GUARD NEXT GENERATION ROCKET AERATION SPECIFICATIONS

PART #	DESCRIPTION	TOTAL SQ. FT	TOTAL LOUVERED AREA (SQ. FT)	RECOMMENDED STRUCTURAL CAPACITY (BU)	BIN WALL HEIGHT (FT)	WEIGHT LBS.
GGR-8736	6000 6' Next Generation Rocket	23.50	19.80	2,500	15	226
GGR-8737	7000 4' Next Generation Rocket	52.30	49.30	3,500	30	298
GGR-8738	7000 6' Next Generation Rocket	78.50	73.60	5,000	30	356
GGR-8739	7000 8' Next Generation Rocket	104.60	97.90	6,000	30	428
GGR-8740	8000 4' Next Generation Rocket	78.50	72.78	7,000	30	426
GGR-8741	8000 6' Next Generation Rocket	117.70	110.28	8,000	30	565
GGR-8742	8000 8' Next Generation Rocket	156.90	145.21	10,000	30	699
GGR-8743	8000 4' Commercial Rocket	78.50	72.78	15,000	40	521
GGR-8744	8000 6' Commercial Rocket	117.70	110.28	20,000	40	671
GGR-8745	8000 8' Commercial Rocket	156.90	145.21	25,000	40	815

# THE RETRO ROCKET

The revolutionary Retro Rocket is the only do-it-yourself rocket system that allows you to retrofit existing hopper bottom and smoothwall bins with farm proven Grain Guard aeration.

## FEATURES

- Easy, two person “do-it-yourself” installation
- Retro fits your existing smoothwall or bolt together hopper bottom bin with the market’s top performing aeration system
- Delivers air to the center core of the bin where desired the most
- Lightweight computer modeled, farm tested design
- Unique folding design allows unit to be placed inside bin with minimal effort
- Unit features simple detachable hinges, allowing it to come apart and fit through smaller bin openings one section at a time, as well as quick reassembly and installation once inside the bin
- The same performance and advantages of the double walled Next Generation Rocket
- A robust three leg design for increased resistance to side loads resulting from uneven grain flow when unloading the bin

HOPPER BOTTOM BINS WITHOUT AERATION?  
IT’S NOT TOO LATE TO DRY YOUR GRAIN!



GRAIN GUARD RETRO ROCKET AERATION SPECIFICATIONS

PART #	DESCRIPTION	TOTAL SQ. FT	TOTAL LOUVERED AREA (SQ. FT)	RECOMMENDED STRUCTURAL CAPACITY (BU)	BIN WALL HEIGHT (FT)	WEIGHT LBS.
GRS-7004	7000 4' Retro Rocket	54.00	46.10	5,000	30	406
GRS-7006	7000 6' Retro Rocket	81.00	70.10	7,000	30	530



# DUCT SYSTEMS

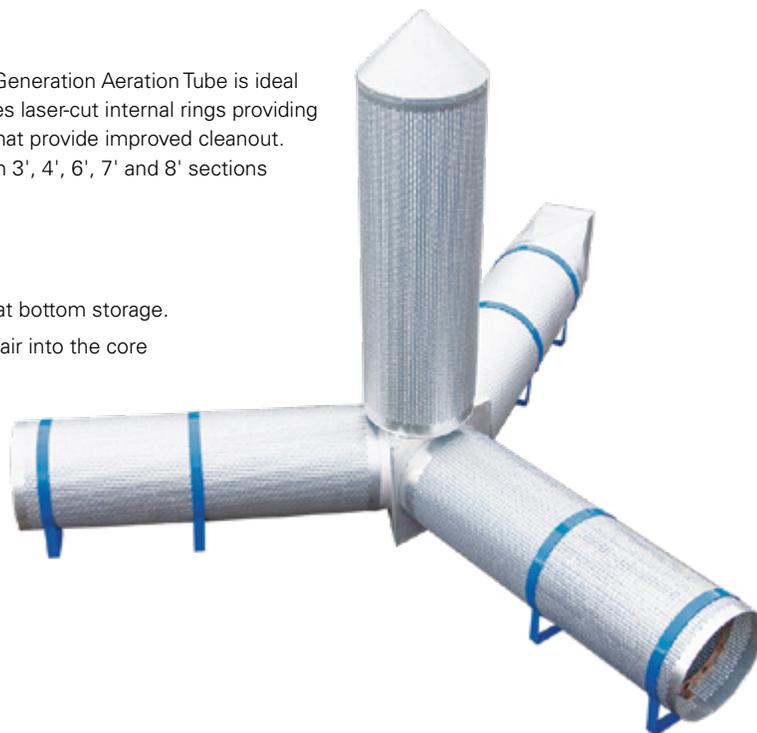
## HORIZONTAL DUCT SYSTEM

Available in 18" and 24" diameters, the Grain Guard Next Generation Aeration Tube is ideal for conditioning and cooling grain. The new design includes laser-cut internal rings providing increased strength, as well as downward facing louvers that provide improved cleanout. The Next Generation Aeration Tube is also now available in 3', 4', 6', 7' and 8' sections that will adapt to more hopper bin diameters.

## 15" FULL ROUND DUCT SYSTEM

The full round duct system is an aeration alternative for flat bottom storage.

- 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



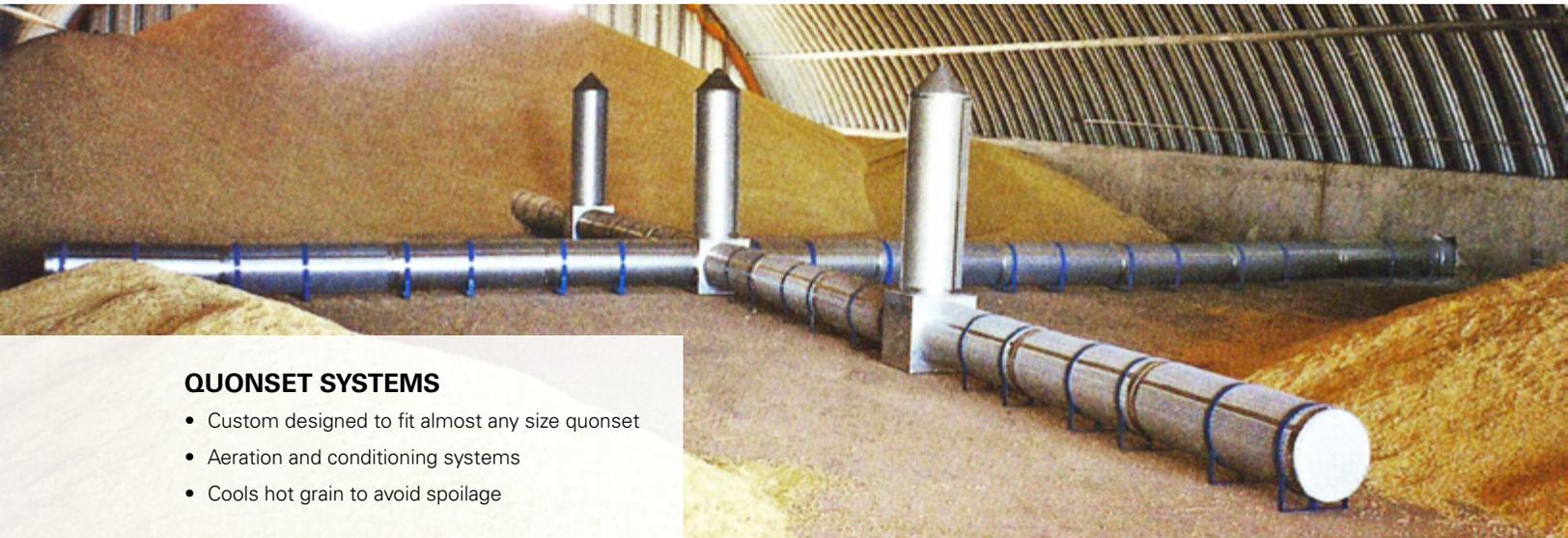
**HORIZONTAL AERATION TUBE SPECIFICATIONS**

SYSTEM	PART #	DESCRIPTION	TOTAL SQ. FT	TOTAL LOUVERED AREA (SQ. FT)
GG-9000 3'	GGR-8137	17.5" x 3' Louvered Duct	13.75	11.75
GG-9000 4'	GGR-8138	17.5" x 4' Louvered Duct	18.80	15.90
GG-9000 6'	GGR-8139	17.5" x 6' Louvered Duct	27.50	23.50
GG-9000 7'	GGR-8140	17.5" x 7' Louvered Duct	32.55	27.50
GG-9000 8'	GGR-8141	17.5" x 8' Louvered Duct	37.60	31.80
GG-10000 3'	GGR-8129	23.5" x 3' Louvered Duct	18.40	15.60
GG-10000 4'	GGR-8130	23.5" x 4' Louvered Duct	25.00	21.20
GG-10000 6'	GGR-8131	23.5" x 6' Louvered Duct	37.00	31.50
GG-10000 7'	GGR-8132	23.5" x 7' Louvered Duct	43.40	36.80
GG-10000 8'	GGR-8133	23.5" x 8' Louvered Duct	50.00	42.50

**FLAT FLOOR ROCKET 15" ROUND TUBE DUCT SPECIFICATIONS**

PART #	DESCRIPTION	BIN SIZE (DIAMETER)	TOTAL LOUVERED AREA (SQ. FT)	BIN WALL HEIGHT (FT)	WEIGHT LBS.
GGA-8400	Rocket Duct System	14	33	26	175
GGA-8403	Rocket Duct System	16	51	26	199
GGA-8409	Rocket Duct System	18	67	26	232
GGA-8406	Rocket Duct System	19	91	26	236
GGA-8412	Rocket Duct System	21	91	26	290
GGA-8418	Rocket Duct System	24	115	26	337
GGA-8421	Rocket Duct System	27	139	26	403
GGA-8424	Rocket Duct System	30	139	26	421

# OPTIONS



## QUONSET SYSTEMS

- Custom designed to fit almost any size quonset
- Aeration and conditioning systems
- Cools hot grain to avoid spoilage



ROOF VENTS REQUIRED PER BIN

FAN	QUANTITY
3 HP	2
5 HP	3
7 HP	4
10 HP	5

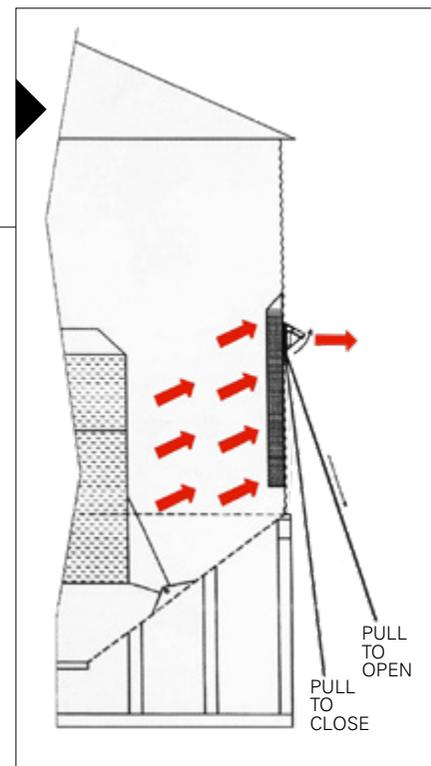
## WALL VENTS

- Designed to enhance the aeration system by reducing static pressure in the bin
- Reduces drying time by removing moisture from the lower half of the bin
- Can be easily operated from the ground level with a unique rope system



## TRANSITIONS AND ADAPTORS

Grain Guard offers a wide range of transitions and adaptors to adapt aeration fans and heaters to multiple aeration systems.



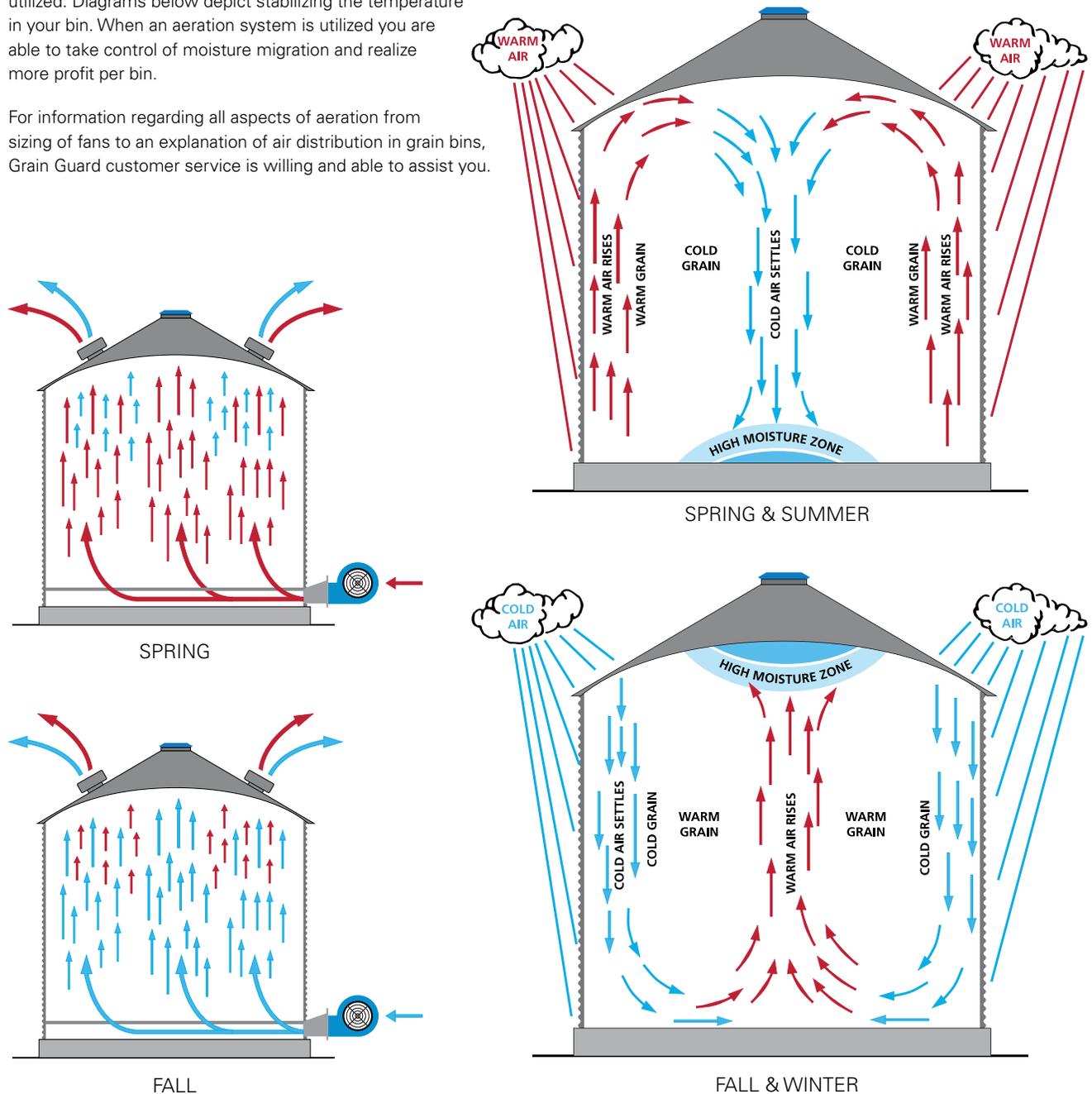
# AERATION EXPERTISE

With over 25 years of aeration service and knowledge AGI Grain Guard is your trusted resource for aeration expertise.

Safely storing your grain requires you to manage your aeration system. Once you have dried and cooled your grain you must also monitor the grain while it is stored throughout the seasons to maintain the grain's quality. With the aid of an aeration system you can easily maintain temperature and moisture levels in your bin. By turning your fans on at the appropriate time during fall and again in spring you will stabilize temperature levels in your bin and reduce the effects of moisture migration.

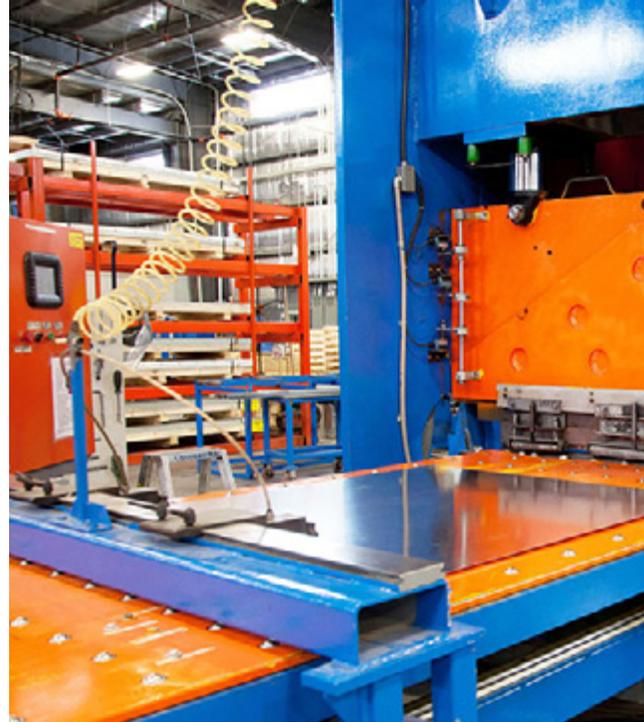
The diagrams to the right depict moisture migration in a bin both late fall and into spring if an aeration system is not utilized. Diagrams below depict stabilizing the temperature in your bin. When an aeration system is utilized you are able to take control of moisture migration and realize more profit per bin.

For information regarding all aspects of aeration from sizing of fans to an explanation of air distribution in grain bins, Grain Guard customer service is willing and able to assist you.



# PARTNERS ON YOUR FARM

Farmers have trusted the dependable aeration expertise of AGI Grain Guard for over 25 years. In that time, we have manufactured a premium range of fans and aeration products, with the goal of continual product improvement. Our latest aeration innovations include the revolutionary Retro Rocket, the enhanced Next Generation Rocket and the Next Generation Horizontal Aeration Tube. These innovations allow farmers to effectively condition or naturally air dry grain in their new or existing hopper bottom bins. Designed with end-user satisfaction in mind, our aeration and conditioning equipment provides complete grain storage management solutions to farmers worldwide.





**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.

**AGI  GRAIN GUARD**

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