GRAINGUARD

THE NEXT
GENERATION ROCKET

Over the past number of years, our research and development team has been working to improve our Classic Rocket design. The result – an innovative, stronger, and even more reliable Rocket. Presenting The Next Generation Rocket.

FEATURES

- Smooth louvered surface allows for clean unloading
- Up to 8% more louvered surface area (depending on model) than the Classic Rocket
- Improved performance through re-design to provide more air delivery to the center of the hopper, where air is most difficult to move
- Re-designed legs and internal support rings provide greater structural strength
- Improved design results in increased vertical loading up to 30' in grain height, up to 40' on the commercial rocket
- Three leg design allows the ducting to be used for airflow only and is no longer 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 (¾ up rocket length) to provide a much stronger structure
- Additional leg along with new design allows for increased stability during irregular grain flows while unloading the bin
- Shipped with new fold-up legs attached, thus eliminating difficult field assembly

LASER CUT INTERNAL RING

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

THE
RETRO ROCKET

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

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 Classic double walled Rocket
- A more robust three leg design for increased resistance to side loads resulting from uneven grain flow when unloading the bin

GRAIN GUARD RETRO ROCKET AERATION SPECIFICATIONS

PART #	DESCRIPTION	TOTAL SQ. FT	TOTAL LOUVERED AREA (SQ. FT)	AIRFLOW CAPACITY @1200CFM/SQ FT	RECOMMENDED STRUCTURAL CAPACITY (BU)	BIN WALL HEIGHT (FT)	WEIGHT LBS.
GRS-7004	7000 4' Retro Rocket	54.00	46.10	5000	5000	30	406
GRS-7006	7000 6' Retro Rocket	81.00	70.10	7000	7000	30	530

GRAIN GUARD NEXT GENERATION ROCKET AERATION SPECIFICATIONS

PART #	DESCRIPTION	TOTAL SQ. FT	TOTAL LOUVERED AREA (SQ. FT)	AIRFLOW CAPACITY @1200CFM/SQ FT	RECOMMENDED STRUCTURAL CAPACITY (BU)	BIN WALL HEIGHT (FT)	WEIGHT LBS.
GGR-8736	6000 6' Next Gereration Rocket	23.50	19.80	3,000	2,500	15	226
GGR-8737	7000 4' Next Generation Rocket	52.30	49.30	6,000	3,500	30	298
GGR-8738	7000 6' Next Generation Rocket	78.50	73.60	7,000	5,000	30	356
GGR-8739	7000 8' Next Generation Rocket	104.60	97.90	9,000	6,000	30	428
GGR-8740	8000 4' Next Generation Rocket	78.50	72.78	9,000	7,000	30	426
GGR-8741	8000 6' Next Generation Rocket	117.70	110.28	11,000	8,000	30	565
GGR-8742	8000 8' Next Generation Rocket	156.90	145.21	13,500	10,000	30	699
GGR-8743	8000 4' Commercial Rocket	78.50	72.78	9,000	15,000	40	521
GGR-8744	8000 6' Commercial Rocket	117.70	110.28	11,000	20,000	40	671
GGR-8745	8000 8' Commercial Rocket	156.90	145.21	13,500	25,000	40	815

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.

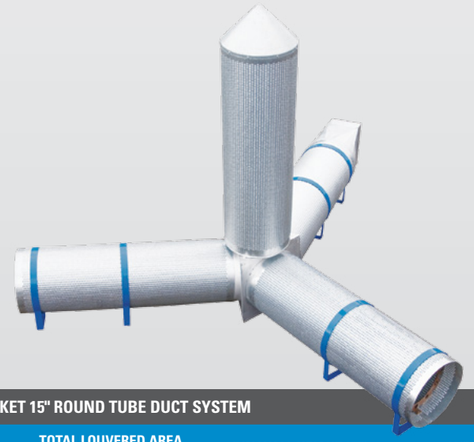
GRAIN GUARD HORIZONTAL AERATION TUBE SPECIFICATIONS					
SYSTEM	PART #	DESCRIPTION	TOTAL SQ. FT	TOTAL LOUVERED AREA (SQ. FT)	AIRFLOW CAPACITY @1200CFM/SQ FT
GG-9000 3'	**GGR-8137**	17.5" x 3' Louvered Duct	13.75	11.75	916
GG-9000 4'	**GGR-8138**	17.5" x 4' Louvered Duct	18.80	15.90	1240
GG-9000 6'	**GGR-8139**	17.5" x 6' Louvered Duct	27.50	23.50	1833
GG-9000 7'	**GGR-8140**	17.5" x 7' Louvered Duct	32.55	27.50	2152
GG-9000 8'	**GGR-8141**	17.5" x 8' Louvered Duct	37.60	31.80	2480
GG-10000 3'	**GGR-8129**	23.5" x 3' Louvered Duct	18.40	15.60	1216
GG-10000 4'	**GGR-8130**	23.5" x 4' Louvered Duct	25.00	21.20	1653
GG-10000 6'	**GGR-8131**	23.5" x 6' Louvered Duct	37.00	31.50	2457
GG-10000 7'	**GGR-8132**	23.5" x 7' Louvered Duct	43.40	36.80	2870
GG-10000 8'	**GGR-8133**	23.5" x 8' Louvered Duct	50.00	42.50	3315

*Grain Height dependant on support framework | *Cradle and inlet are not included with Aeration Tubes | *Maximum sidewall height of 22' | *Maximum bin diameter of 24'

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



GRAIN GUARD FLAT FLOOR ROCKET 15" ROUND TUBE DUCT SYSTEM					
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

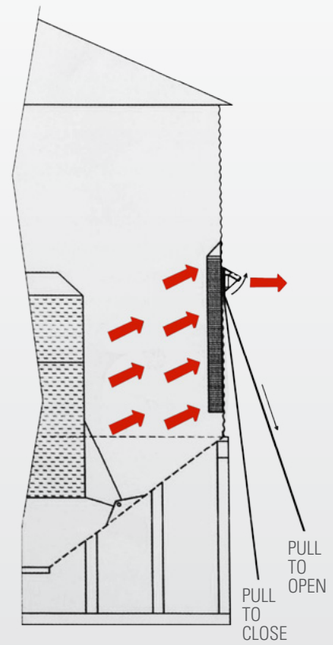
OPTIONS

QUONSET SYSTEMS

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

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



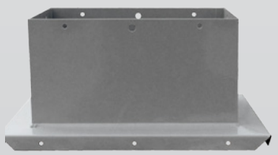
ROOF VENTS

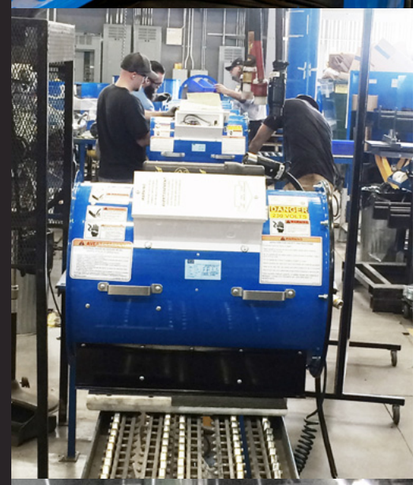
- Round and Gooseneck Roof Vents available
- General Rule is 1 roof vent for every 1000 CFM of airflow provided by the fan

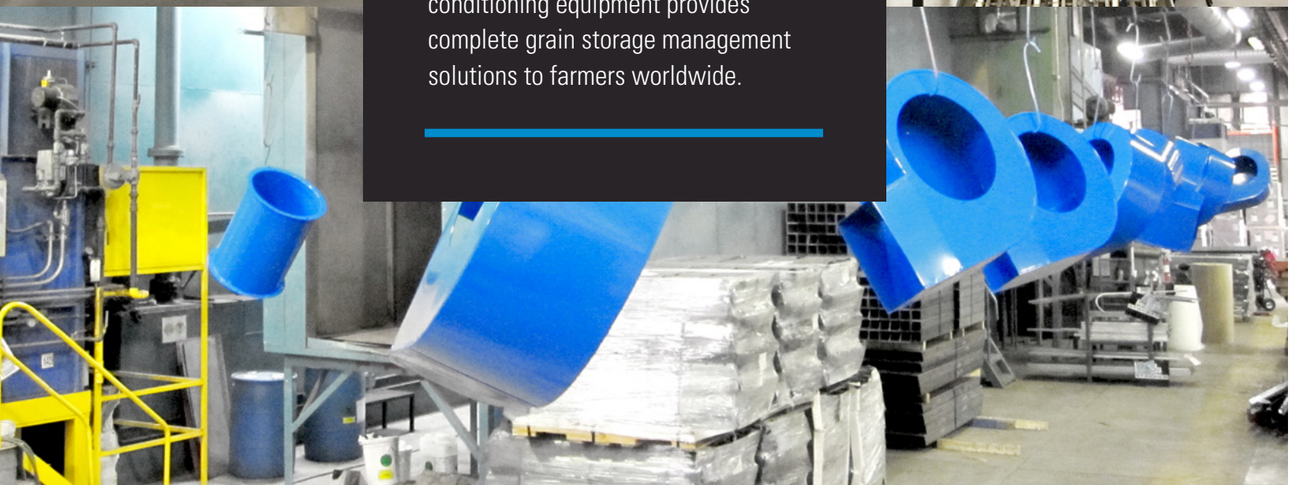
ROOF VENTS REQUIRED PER BIN	
FAN	QUANTITY
3 HP	2
5 HP	3
7 HP	4
10 HP	5

TRANSITIONS AND ADAPTORS

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







PARTNERS ON YOUR FARM

Farmers have trusted the dependable aeration expertise of 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.

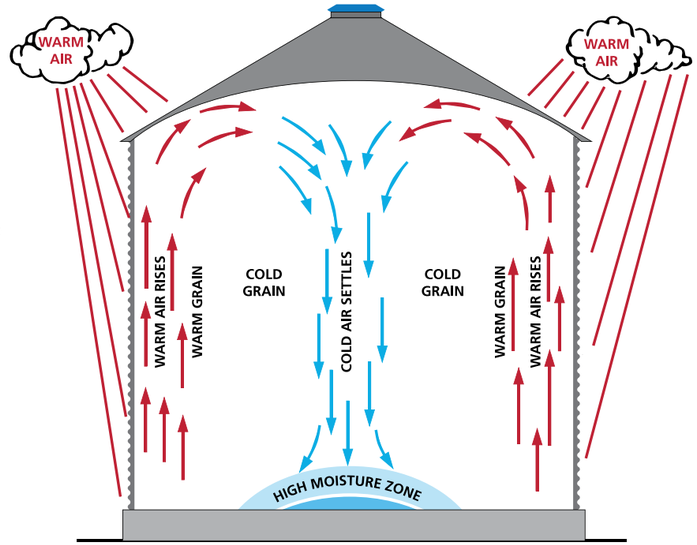
AERATION
EXPERTISE

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

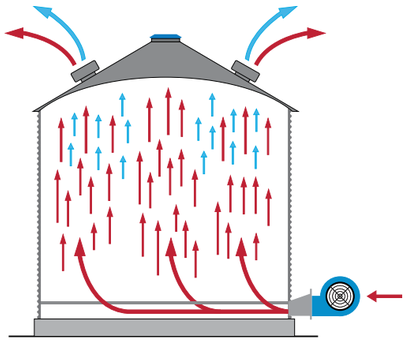
Safely storing your grain requires you to manage your aeration system. Once you have dried and cooled your grain you must also monitor the grain while it is stored throughout the seasons to maintain the grain's quality. With the aid of an aeration system you can easily maintain temperature and moisture 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.

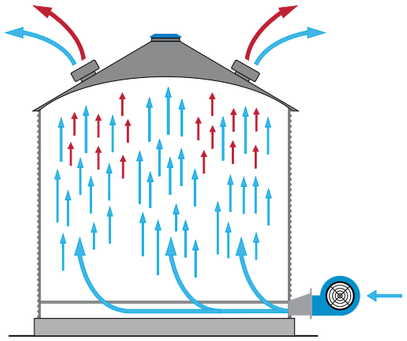
For information regarding all aspects of aeration from sizing of fans to an explanation of air distribution in grain bins, Grain Guard customer service is willing and able to assist you.



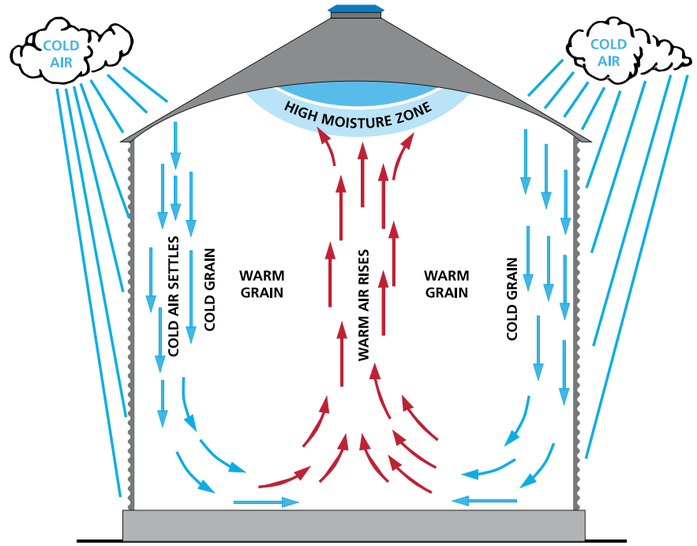
SPRING & SUMMER



SPRING



FALL



FALL & WINTER