





BROCK SOLID CONDITIONING

BROCK GUARDIAN® SERIES FANS

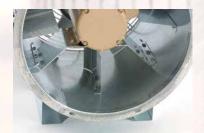


The GUARDIAN® Series Vane Axial Fan's venturi opening uses innovative curvature design for efficient air performance. A 10-mil PVC coating on screen guard provides superior corrosion resistance and attractive appearance.

AXIAL FANS

The BROCK® Aeration System product line offers:

- Economical GUARDIAN® Series Vane Axial Aeration Fans with high airflows at low static pressures.
- Factory-balanced fans tested for vibration and energy usage to provide reliably smooth operation.
- Recommended and optional BROCK® Axial Wrap-Around and Bolted Fan Transitions to optimize airflow into the grain.



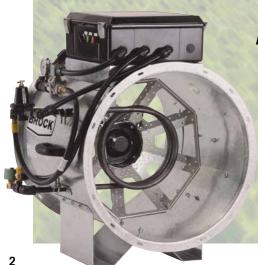
Air vanes are a standard feature on all 18-inch (457-mm) diameter and larger fans. The vanes aid efficient airflow at higher static pressures by reducing air turbulence.

Dynamically balanced cast aluminum blade has advanced air foil design for efficient air handling.





Totally-enclosed, air over (TEAO) motors are standard for all GUARDIAN® Series Axial Fans. Twopiece bolt-together motor mount/fan support provides a solid connection for mounting the fan and aids fan stability during operation.



ASK ABOUT BROCK'S AXIAL HEATERS

Brock's GUARDIAN® Series Axial Heaters are available in 24-, 26-, and 28-inch (610-, 660-, and 711-mm) diameters to match your grain drying and conditioning needs. Low temperature heaters are also available.

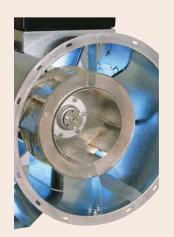




CENTRIFUGAL IN-LINE FANS

The BROCK® Aeration System product line offers:

- GUARDIAN® Series Centrifugal In-Line Aeration Fans with low airflows at high static pressures — excellent for use with smaller grain bins holding small grains (wheat, rapeseed, barley, etc.)
- Factory-balanced fans tested for vibration and energy usage to provide reliably smooth operation.
- Recommended BROCK® Axial Wrap-Around Fan Transitions to optimize airflow into the grain.



Dynamically balanced aluminum **centrifugal wheel** features advanced air foil blade design to efficiently handle low airflows at medium to high static pressures.



All Brock GUARDIAN® Series Centrifugal In-Line Fans feature a reinforced, 12-gauge, galvanized **steel housing** for durability and long fan life.

Totally-enclosed, air over (TEAO) motors are standard for all Brock GUARDIAN® Series Centrifugal In-Line Fans. Two-piece bolt-together motor mount/fan support provides a solid connection for mounting the fan and aids fan stability during operation. Air straightening vanes aid efficient air flow by reducing air turbulence.





Fan's **air inlet orifice** uses an innovative design to promote better airflow into the centrifugal wheel to enhance fan performance. The unique **baffle** design helps to direct air into the centrifugal wheel to encourage smooth, efficient fan operation. A 10-mil PVC coating on **screen guard** provides an attractive appearance and superior corrosion resistance.

Fan Selection Made Easy

A key component of the BROCK® Aeration System is the AIR SOLVER® Fan Selection Software. Your Brock dealer simply enters your storage system's aeration requirements and the software helps choose the

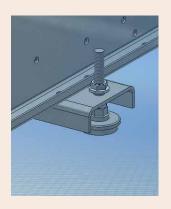
aeration fan type and size appropriate for meeting your aeration needs.



GUARDIAN® SERIES FANS



All Brock GUARDIAN® Series centrifugal fans have a reinforced, 12-gauge, galvanized **steel housing** for durability and long fan life. Totally-enclosed, fan-cooled (TEFC) **motors** are standard.



When GUARDIAN®
Series Centrifugal Fans
require a foot-mount,
Brock's high-strength,
adjustable foot structure
with dampening pad
assists with leveling the
unit and provides the
fan support needed for
smooth operation.

LOW-SPEED CENTRIFUGAL FANS

The BROCK® Aeration System product line offers:

- GUARDIAN® Series Low-Speed Centrifugal Aeration Fans with high airflows at medium static pressures for larger storage bins.
- Factory-balanced fans tested for vibration and energy usage to provide reliably smooth operation.
- Recommended and optional BROCK® Centrifugal Wrap-Around and 44- and 67-inch (1118- and 1702-mm) Wide Bolted Fan Transitions to optimize airflow into the grain.

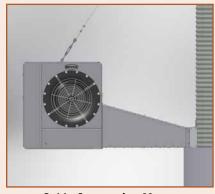


As a part of Brock's high standard of quality and reliability, all GUARDIAN® Series Centrifugal Fans are factory-tested for fan balance to minimize performance-robbing vibration.

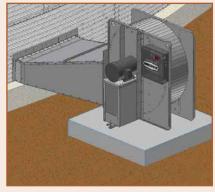
A VARIETY OF WAYS TO SUPPORT GUARDIAN® SERIES CENTRIFUGAL FANS

The BROCK® Aeration System offers a variety of approved mounting options for installing GUARDIAN® Series Centrifugal Fans and transitions to BROCK®

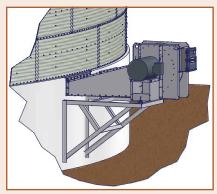
Grain Storage Bins. Each has been designed and tested to ensure proper fit and smooth performance. See your authorized Brock dealer for the details.



Cable Suspension Mount



Concrete Foundation Mount



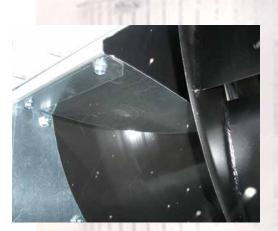
Knee-Brace Mount



HIGH-SPEED CENTRIFUGAL FANS

The BROCK® Aeration System product line offers:

- GUARDIAN® Series High-Speed Centrifugal Aeration Fans with low airflows at high static pressures.
- Factory-balanced fans tested for vibration and energy usage to provide reliably smooth operation.
- Recommended BROCK® 44-inch (1118-mm) Wide Bolted Fan Transitions to optimize airflow into the grain.



Diverter and **baffle** help to redirect air spilling from the centrifugal wheel to encourage smooth, efficient fan operation.



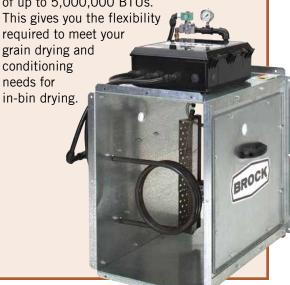
Dynamically balanced, seamwelded steel **centrifugal wheel** features advanced air foil blade design to help maximize air performance.



The GUARDIAN® Series High-Speed Centrifugal Fan's air inlet orifice uses an innovative design to promote better airflow into the centrifugal wheel to enhance fan performance. A 10-mil PVC coating on the screen guard provides superior corrosion resistance and attractive appearance.

Ask About Brock's Centrifugal Heaters

Brock's GUARDIAN® Series Centrifugal Downstream Heaters are available to match centrifugal fan models and offer capacities of up to 5,000,000 BTUs.



LOW-SPEED CENTRIFUGAL PTO FANS



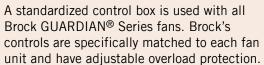
The Brock GUARDIAN® Series Low-Speed Centrifugal PTO Fan is designed for direct engine-drive use at 1750 RPM. Use a flexible coupling to link this fan to the power take-off of irrigation or other utility engines. Fan features:

- Models from 10- to 50-horsepower.
- Heavy-duty two-inch (51-mm) diameter high-tensile steel drive shaft.
- Industrial grade double pillow-block bearings.

SPECIFIC CONTROLS, STANDARD BOX











Made of durable polycarbonate with a hinged translucent cover, the **control housing** is designed to be weather-, dust-, and rodent-proof.





Standard components are used for safe and reliable motor control.

AIRFLOW RATINGS

AXIAL FANS (3450 RPM) Airflow Ratings (Cubic Feet Per Minute - CFM)

		INCHES OF STATIC PRESSURE														
Model	HP	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
AX12-075	.75	2,320	2,010	1,480	980	630	430									
AX12-1	1	2,320	2,010	1,480	980	630	430									
AX14-1	1.5	3,350	3,050	2,530	1,950	1,410	1,000	740								
AX16-1	1.5	3,650	3,310	2,840	2,320	1,810	1,340	930	580							
AX18-2	2	4,750	4,390	3,920	3,350	2,700	2,040	1,430	990							
AX18-3	3	5,990	5,720	5,430	5,030	4,500	3,840	3,100	2,360	1,730	1,370					
AX22-4	4.5	9,160	8,670	8,250	7,790	7,220	6,510	5,650	4,710	3,770	2,970	2,480				
AX24-5	5	12,300	11,770	11,130	10,380	9,510	8,540	7,490	6,390	5,290	4,250	3,320	2,580	2,130		
AX24-7	7.5	13,500	13,140	12,630	11,960	11,170	10,270	9,290	8,250	7,190	6,140	5,130	4,210	3,440		
AX24-10	10	15,490	15,160	14,580	13,790	12,840	11,750	10,570	9,320	8,060	6,810	5,610	4,490	3,500		
AX26-12	12	14,690	14,090	13,570	13,070	12,550	11,990	11,350	10,620	9,780	8,820	7,740	6,540	5,240		
AX28-15	15	16,330	15,880	15,460	15,020	14,570	14,090	13,560	12,980	12,340	11,640	10,880	10,060	9,190	8,260	7,300



AIRFLOW RATINGS



LOW-SPEED CENTRIFUGAL FANS (1750 RPM) Airflow Ratings (Cubic Feet Per Minute - CFM)

		INCHES OF STATIC PRESSURE										
Model	HP	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
LC22-3	3	5,564	5,203	4,742	4,183	3,526	2,769					
LC22-5	5	9,095	8,504	7,752	6,838	5,763	4,526					
LC24-7	7.5	11,745	11,112	10,377	9,542	8,606	7,569	6,431				
LC24-10	10	14,445	13,666	12,763	11,736	10,584	9,309	7,909				
LC27-10	10	13,475	12,803	12,047	11,207	10,283	9,275	8,183	7,007			
LC27-15	15	19,250	18,290	17,210	16,010	14,690	13,250	11,690	10,010			
LC27-20	20	20,792	19,989	19,094	18,105	17,019	15,834	14,549	13,161			
LC30-25	25	24,857	24,171	23,352	22,400	21,314	20,095	18,743	17,257	15,638	13,886	
LC30-30	30	26,100	25,380	24,520	23,520	22,380	21,100	19,680	18,120	16,420	14,580	
LC33-40	40	34,080	32,801	31,508	30,198	28,872	27,528	26,165	24,781	23,376	21,948	20,496
LC33-50	50	37,000	35,887	34,746	33,572	32,361	31,108	29,808	28,458	27,053	25,589	24,060

HIGH-SPEED CENTRIFUGAL FANS (3450 RPM) Airflow Ratings (Cubic Feet Per Minute - CFM)

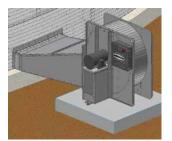
		INCHES OF STATIC PRESSURE										
Model	HP	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0
HC15-3	3	2,657	2,492	2,294	2,052	1,755	1,392					
HC15-5	5	4,505	4,225	3,890	3,480	2,976	2,360					
HC18-7	7.5	5,250	4,957	4,652	4,321	3,952	3,535	3,056	2,505			
HC18-10	10	6,920	6,535	6,132	5,695	5,210	4,660	4,029	3,302			
HC18-15	15	10,500	9,915	9,303	8,641	7,905	7,070	6,113	5,009			
HC22-20	20	9,460	9,088	8,699	8,294	7,871	7,427	6,962	6,474	5,962	5,423	4,858
HC22-25	25	11,610	11,153	10,677	10,179	9,660	9,115	8,544	7,946	7,317	6,656	5,962
HC22-30	30	13,975	13,425	12,851	12,253	11,627	10,972	10,285	9,564	8,807	8,012	7,176
HC22-40	40	18,490	17,762	17,004	16,212	15,384	14,517	13,608	12,654	11,652	10,600	9,494
HC22-50	50	21,500	20,653	19,772	18,851	17,888	16,880	15,823	14,714	13,549	12,326	11,040

CENTRIFUGAL IN-LINE FANS (3450 RPM) Airflow Ratings (Cubic Feet Per Minute - CFM)

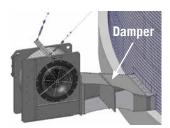
			INCHES OF STATIC PRESSURE											
Model	HP	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
IC18-2	2	2,400	2,270	2,080	1,900	1,710	1,360							
IC18-3	3	3,740	3,530	3,240	2,970	2,660	2,120							
IC24-3	3	4,020	3,900	3,710	3,530	3,340	3,140	2,850	2,370					
IC24-5	5	6,130	5,940	5,660	5,370	5,100	4,790	4,350	3,610					
IC24-7	7.5	6,960	6,600	6,260	5,950	5,640	5,320	4,970	4,570	4,070				
IC28-10	10	6,040	5,870	5,670	5,460	5,250	5,040	4,820	4,600	4,360	4,110	3,820	3,490	3,080
IC28-15	15	9,110	8,850	8,550	8,240	7,920	7,600	7,270	6,930	6,580	6,200	5,770	5,260	4,650



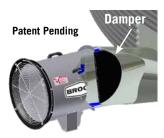
Wrap-around transitions for axial, low-speed centrifugal and in-line centrifugal fans



Bolted transitions for low- and high-speed centrifugal fans



Centrifugal fan back-draft damper cutaway view with damper closed



Axial fan butterfly back-draft damper cutaway view with damper open



BROCK® FAN TRANSITIONS HELP OPTIMIZE GRAIN AIRFLOWS

The BROCK® Aeration System's selection of components includes BROCK® Fan Transitions and related options for excellent aeration performance with reliably smooth operation. Brock's family of fan transitions offers:

- A selection of durable, galvanized steel wrap-around and bolted transitions designed to optimize airflow into the grain while minimizing pressure losses.
- Exclusive back-draft damper options (patents pending) that automatically prevent under-floor pressure from flowing air back through a fan that is not running. Dampers are recommended for multiple fan installations. **Sentrifugal 67-Inch**
- Extensions for supporting bin floors in full-floor bins are standard and help to minimize airflow obstructions into the aeration plenum.

BROCK® Transition GUARDIAN Series Far	®	Axial Wrap-Around	Axial Bolted
Fan Model	Fan Horsepower	Transition	Туре
VANE AXIA	L FANS		
AX12-075	.75	0	Χ
AX12-1	1.0	0	Χ
AX14-1	1.5	0	Χ
AX16-1	1.5	Х	0
AX18-2	2.0	Х	0
AX18-3	3.0	Х	0
AX22-4	4.5	Х	
AX24-5	5.0	Х	
AX24-7	7.5	X	
AX24-10	10.0	Х	
AX26-12	12.0	X	
AX28-15	15.0	Х	
IN-LINE CE	NTRIFUGAL F	ANS	
IC18-2	2.0	Х	
IC18-3	3.0	Х	
IC24-3	3.0	Х	
IC24-5	5.0	Х	
IC24-7	7.5	Х	
IC28-10	10.0	Х	
IC28-15	15.0	Х	

Fan Model	Fan										
ran wodei	Horsepower	Transition Type									
LOW-SPEE	LOW-SPEED CENTRIFUGAL FANS										
LC22-3	3.0	Х									
LC22-5	5.0	Х									
LC24-7	7.5	Χ									
LC24-10	10.0	Χ	0								
LC27-10	10.0	Х	0								
LC27-15	15.0		Х								
LC27-20	20.0		Х								
LC30-25	25.0		Х	0							
LC30-30	30.0		Х	0							
LC33-40	40.0			Х							
LC33-50	50.0			Х							
HIGH-SPEE	D CENTRIFUG	BAL FAN	IS								
HC15-3	3.0		Х								
HC15-5	5.0		Х								
HC18-7	7.5		X								
HC18-10	10.0		X								
HC18-15	15.0		X								
HC22-20	20.0		Х								
HC22-25	25.0		Х								
HC22-30	30.0		X								
HC22-40	40.0		Х								
HC22-50	50.0		X								

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X - Recommended Fan Transition: O - Optional Fan Transition



-BROCK SOLID®

Safeguarding Your Grain® Since 1957

BROCK GRAIN SYSTEMS

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