

Auto-MAX® AUTOMATIC FRESH AIR INLETS



Tired of adjusting inlets? Automatic Auto-MAX Needs No Adjusting

Auto-MAX inlets totally eliminate seasonal readjustment of weights or springs. Factory calibration keeps incoming air speed nearly constant in the desired 800-1000 FPM range. This ensures maximum ventilation efficiency and draft-free mixing of incoming air.



Auto-MAX Ceiling Inlet

Every Auto-MAX inlet becomes part of a balanced ventilation system. Auto-MAX inlets automatically stay balanced all year long. Every inlet admits the same volume of air for uniform air distribution — no frustrating trial-and-error balancing by “tweaking” counterweights or springs!

Reliable Capacity at All Static Pressures – Even on Windy Days

Auto-MAX inlets always deliver their rated CFM capacity year-around both on still and windy days. Wind pressure effects on Auto-MAX are almost immeasurable

because of the unique Auto-MAX design. University tests, using certified air testing methods*, show that other leading air inlets rarely approach their rated capacity, even in still-air conditions and with continuous manual adjustment.



Auto-MAX Wall Inlets

With wind pressure or low winter-time static pressure, only Auto-MAX continues to perform totally automatically, according to its rating.

Real Full-Range Performance Not Just A Rating

In university tests*, the Auto-MAX inlet substantially outperformed all other inlets that were claimed to move comparable air volumes. Test data proves that the Auto-MAX inlet is the only inlet that automatically provides air velocities of 800-1000 FPM at all static pressures down to wintertime lows of .05 in. wg. This means that Auto-MAX inlets always provide exactly the right air volume and velocity throughout the year. Other inlets require seasonal, and even daily manual adjustment, for minimum performance. Compare Auto-MAX performance to even our best competitors and Auto-MAX easily outperforms every time.

Auto-MAX® INLET STYLES



CEILING INLET

WALL INLET

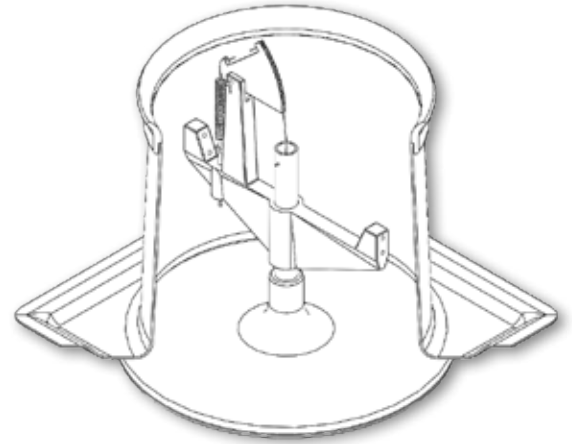
HALLWAY INLETS

Catalog No.	FV-CI1500	FV-WI1500	FV-HI1500	FV-HI2000
Dimensions (L x H)	22.25 in. x 15 in. 565 mm x 381 mm	26.75 x 22.5 x 12.75 in. 68 x 57 x 32 cm	8 x 15.5 x 22.5 in. 20 x 39 x 57 cm	8 x 12 x 46 in. 20 x 30 x 117 cm
Rough-In Dimensions (L x W)	20.25 in. x 20.25 in. 514 mm x 514 mm	22.50 x 12.75 in. 572 x 324 mm	22.5 in. x 15.5 in. 572 mm x 394 mm	46 in. x 12 in. 1168 mm x 305 mm
Maximum Airflow (at 0.125 in. w.g.)	1127 CFM	647 CFM	1257 CFM	1963 CFM

Auto-MAX® CEILING INLET



Ceiling inlets feature a unique cantilever baffle operator.



- Fully automatic baffle control operators
- 360-degree unobstructed radial airflow
- Precalibrated and ready for installation
- Corrosion-resistant components
- Strong but lightweight housings
- Frost-free structural foam for easy cleaning
- Ideal for tunnel ventilated buildings in the wintertime

The output of Auto-MAX ceiling inlets is higher in summer and controllable in winter — **automatically**.

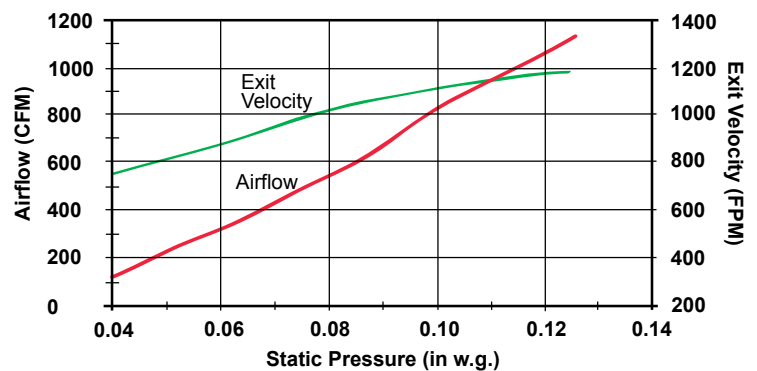
The volume graph at right shows that operating capacity of competitive inlets is too high in low static-pressure winter and too low (and over-rated) in high static-pressure summer, requiring continuous seasonal readjustment. The velocity graph shows that air velocity of Auto-MAX ceiling inlets is automatically in the range of 800 to 1000 FPM while other inlets are far below 800 FPM over most of their operating range. This means Auto-MAX ceiling inlets automatically distribute a controlled flow of fresh air without drafts in winter and make smooth, healthy transitions in spring and fall weather changes.

Optional baffle closure clips make the Auto-MAX ceiling inlet perfect for tunnel ventilated buildings, allowing the inlet to remain tightly closed while in the tunnel ventilating mode.

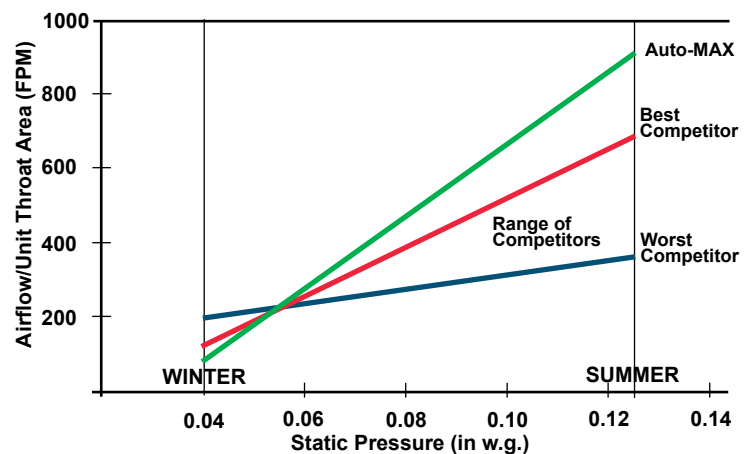
Auto-MAX CEILING INLET PERFORMANCE

Static Pressure (in w.g.)	Airflow (CFM)	Exit Velocity (FPM)	Baffle Opening (in)
0.000	0	0	0.000
0.040	121	760	0.375
0.060	331	889	0.875
0.080	544	1023	1.250
0.100	830	1115	1.750
0.120	1062	1175	2.125
0.125	1127	1177	2.250

Auto-MAX CI1500 Airflow

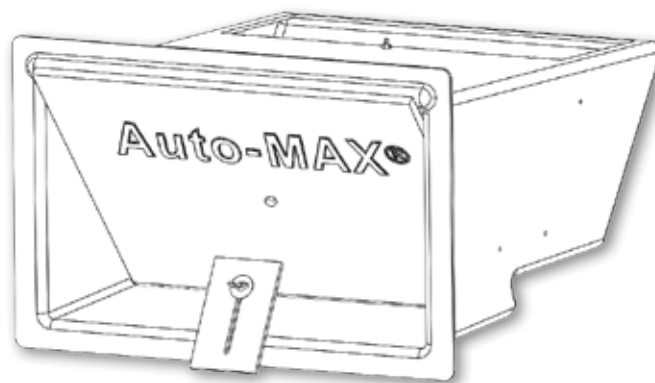


Auto-MAX CI1500 Airflow/Unit Throat Area



Auto-MAX[®] WALL INLET

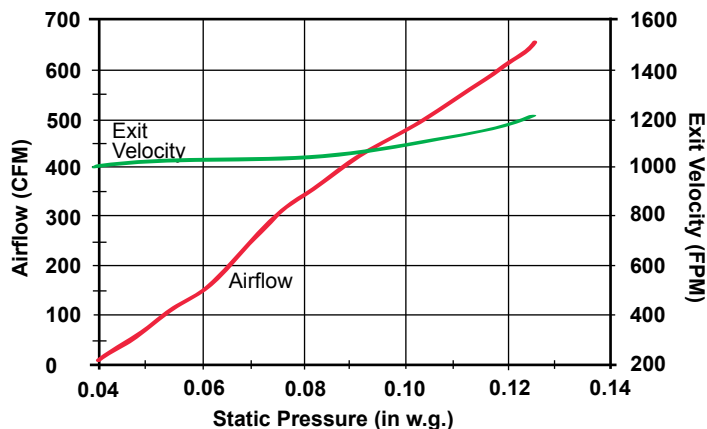
- Fully automatic air delivery system
- Precalibrated and ready for installation
- Unobstructed exit airflow openings
- Corrosion-resistant components
- Durable all-weather fiberglass-reinforced composite housings and lightweight structural foam baffle
- Slanted housing design offsets wind pressure and repels exterior moisture and condensation
- Baffle limiter included for wintertime minimum ventilation use



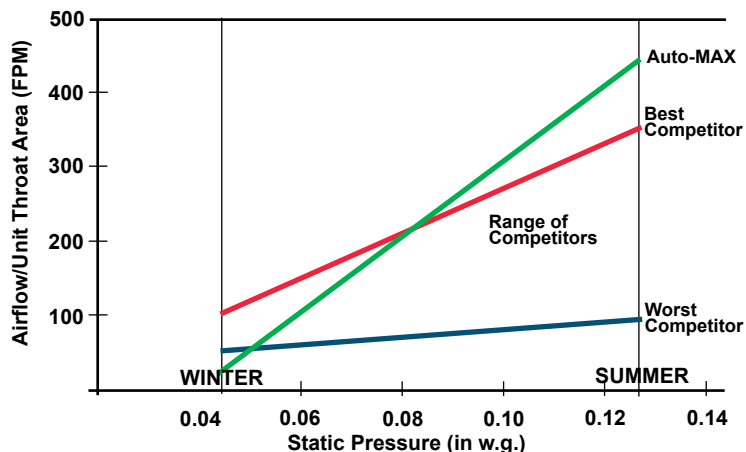
Auto-MAX WALL INLET PERFORMANCE

Static Pressure (in w.g.)	Airflow (CFM)	Exit Velocity (FPM)	Baffle Opening (in)
0.000	0	0	0.000
0.040	19	1017	0.125
0.060	156	1033	1.000
0.080	350	1040	2.188
0.100	480	1092	2.875
0.120	607	1174	3.375
0.125	647	1212	3.500

Auto-MAX WI1500 Airflow



Auto-MAX WI1500 Airflow/Unit Throat Area



Tests show that the Auto-MAX wall inlet delivers its rated CFM **automatically** while four “competitive” alternatives fail to exceed even 60% of their published ratings, even with best manual adjustment.

The volume graph at left shows the extra Auto-MAX capacity compared to others. Additionally, Auto-MAX is virtually the only inlet that maintains both air velocity and air volume at static pressures typical of real seasonal patterns as shown by the performance graph above. Only Auto-MAX provides good airflow and distribution without drafts in winter and smooth, healthy transitions in spring and fall weather changes.

Testing Procedure:

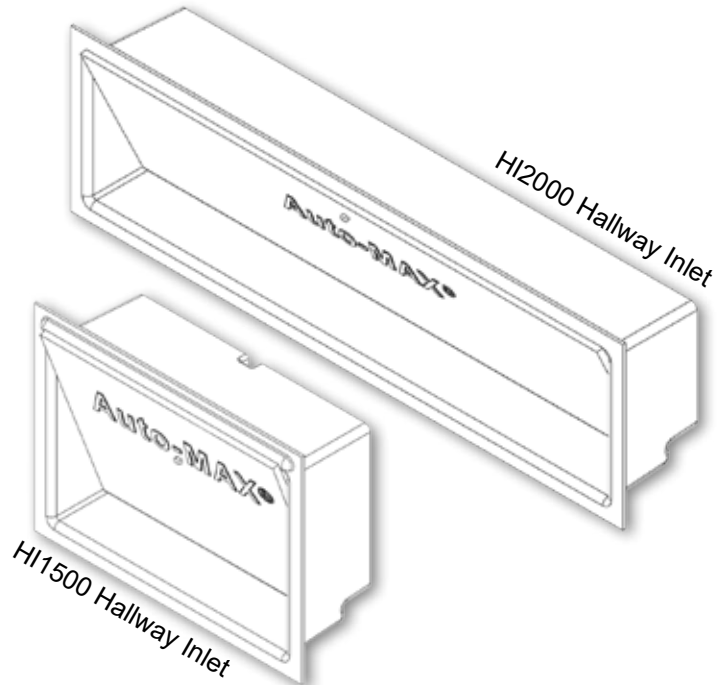
University tests used an air movement test chamber manufactured and calibrated to meet Standard 210-85 published by the Air Movement and Control Association, (AMCA, 1985) and were conducted at the Agricultural Engineering Air Movement Laboratory, Kansas State University, Manhattan, KS, by qualified University personnel.

*Technical References

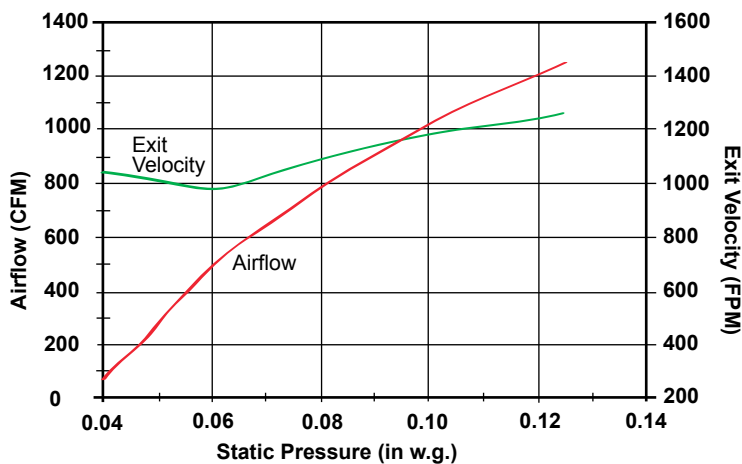
1. Kaiser, K.; Hosni, M; Heber, A. Performance of Passively Automatic Ventilation Inlets For Agricultural Buildings-ASHRAE Transactions-1995, Vol 101, Part I.
2. Kaiser, K., Heber, A., Hosni, M., Eakin, G. Performance of New Ceiling and Wall Ventilation Air Inlets-Applied Engineering in Agriculture-1996, Vol 12(2): 237-242.
3. Kaiser, K. Experimental, Analytical, and Numerical Evaluations of Commercial Ceiling and Wall Ventilation Inlets-Kansas State University-Dec. 20, 1993.

Auto-MAX® HALLWAY INLETS

- Fully automatic air delivery system for animal areas from tempering hallways
- Precalibrated and ready for installation
- Unobstructed exit airflow openings automatically open to required size based on static pressure
- Corrosion-resistant components
- Strong but lightweight housings
- Frost-free structural foam for easy cleaning



Auto-MAX HI1500 Airflow



Auto-MAX hallway inlets have the same features as the Auto-MAX wall inlet and differ only in dimension length for installation in preheated hallways. The volume graph at left shows the extra Auto-MAX hallway inlet capacity.

Auto-MAX is the only inlet that maintains both air velocity and air volume at static pressures typical of real seasonal patterns. This means good airflow and distribution without drafts in winter and smooth, healthy transitions in spring and fall weather changes.

Auto-MAX HALLWAY INLET PERFORMANCE (HI1500-SERIES)

Static Pressure (in w.g.)	Airflow (CFM)	Exit Velocity (FPM)	Baffle Opening (in)
0.000	0	0	0.000
0.040	69	1046	0.438
0.060	499	979	3.375
0.080	785	1094	4.750
0.100	1024	1193	5.688
0.120	1211	1248	6.281
0.125	1257	1268	6.563

Auto-MAX HALLWAY INLET PERFORMANCE (HI2000-SERIES)

Static Pressure (in w.g.)	Airflow (CFM)	Exit Velocity (FPM)	Baffle Opening (in)
0.000	0	0	0.00
0.040	298	834	1.06
0.060	941	920	3.13
0.080	1344	1014	4.13
0.100	1727	1129	4.75
0.120	1916	1170	5.13
0.125	1963	1180	5.25