



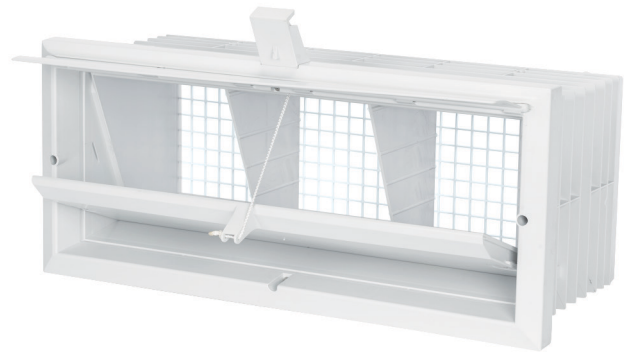
Munters IW 150 / 250 / 350

Air inlets

IW air inlets are designed to be used as wall mounted air inlets in livestock structures and they are made of durable white UV stabilized polystyrene. They are suitable for winter and summer months.

Advantages

- Easy installation
- Main flap moulded in two pieces preventing deformation
- Main flap has an insulated core, preventing condensation on inside
- Integrated aluminium profiles in main door preventing warping
- Adjustable flap allowing fine adjustment of air flow patterns
- Rainstop preventing rain from entering the structure
- Integrated mesh in corrosion resistant polystyrene preventing wild animal entry
- Withstands cleaning with a high pressure cleaner
- Integrated pulley for support of cabling



IW 150 / 250 / 350

A critical time for ventilation of livestock structures is during cold periods, when it is necessary to ventilate the structures to supply fresh air to the animals without causing cold drafts over them, a process commonly known as minimum ventilation. The only way of performing minimum ventilation effectively is by directing the cold fresh air along the ceiling of the structure so that it can mix thoroughly with the hot air inside the structure before it descends into the occupied zone of the animals and replaces the stale air. Failure to perform minimum ventilation effectively could cause a build-up of noxious gases, such as ammonia or carbon dioxide, inside the structure; or, a fatal reduction in oxygen levels.

Another problem commonly associated with ineffective minimum ventilation is cold air dropping onto the animals, causing wet litter and disturbing animal behaviour. The IW air inlets are designed to perform minimum ventilation perfectly; maintaining a healthy environment for the animals without disrupting normal animal behaviour.

During warmer periods the emphasis of ventilation shifts towards heat removal and cooling of the animals. In such conditions the air entering the structure can be directed downwards towards the animals, allowing heat removal from the animals' skins through a wind chill process. Once again the IW can be adjusted to ensure that the air reaches the animals.

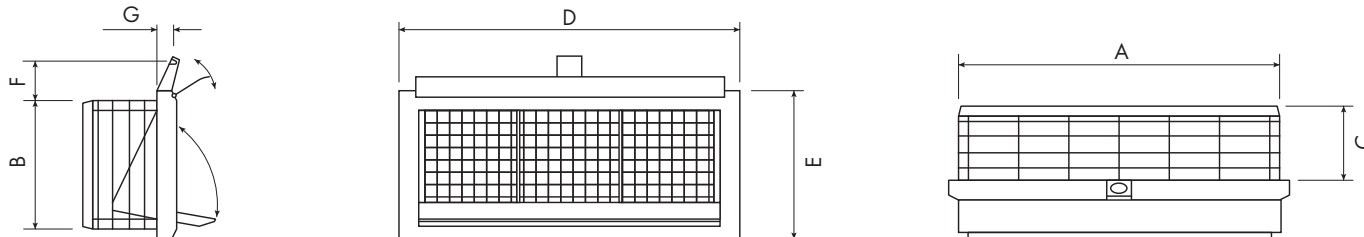


Several IW Air inlets mounted into a poultry house.

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Air inlets

Dimensions



	A	B	C	D	E	F	G
IW 150	650 mm	260 mm	150 mm	690 mm	300 mm	70 mm	45 mm
IW 250	650 mm	260 mm	250 mm	690 mm	300 mm	70 mm	45 mm

Technical specifications

		IW 150	IW 250	IW 350 ¹
Air flow 10 Pa	[m ³ /h]	1,320	1,440	1,415
Air flow 20 Pa	[m ³ /h]	1,870	2,015	2,000

Airflow data are measured at standard conditions (20°C, 1,013hPa)

¹ IW 250 mm with 100 mm extension piece.

Optimised technology

Adjustable and reversible air conduction sheet for fine tuning of airflow patterns

Winter lock for sealing inlets tightly during inactive periods

Main door moulded in two pieces preventing deformation during cold periods

Insulated core in main door; eliminating condensation on inside of door

Main door opens to 10° below horizontal

Drip point, eliminating condensation running down wall

Lateral support vanes eliminate turbulence optimising airflow

Corrosion resistant mesh preventing bird and animal entry

Integrated aluminium profiles preventing warping

Rain stop keeping water out

Added benefits

With the use of top grade polystyrene it is possible to maintain hygienic conditions around the animals since the polystyrene has anti soiling properties; is high pressure cleanable; is corrosion resistant; maintains its physical properties for many years; and will withstand temperature extremes and UV radiation.

To further prevent possible disease spreads the IW air inlets have an integrated mesh, preventing the entry of wild birds and animals into the structures.

The design of the IW air inlet allows for the precise adjustment of the air distribution pattern to ensure animal comfort at all times. With the

adjustable top flap the airflow patterns for minimum ventilation can be adjusted according to the design of the structure while the insulated main door can be automatically opened and closed to adjust the ventilation rate. The main door can open to 10° below the horizontal, effectively directing air downwards towards the animals during hot periods.

Safety is always an important consideration and therefore the main door opens under gravity, a feature that makes emergency ventilation easily possible in case of power failure.

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