

Star Diffuse

Star diffuse Ø600 and Ø800

Inlet with star diffuser is designed for use as a roof inlet in livestock buildings - the top section can be left out so it can be used to draw air from the loft space in the livestock area - or as inlet above roof with roof leading-in.

Star diffuser is used in low-pressure systems without fan and in equal-pressure systems with fan.

Rainwater protection is given by a solid top cover, further protection is made by allowing any in drawn rainwater to pass onto the roof via slots at the bottom of the cone.

The net is mounted vertically and ensures thus that bird droppings cannot enter the chimney. This will prevent salmonella to get to the houses.

The Multiflex roof flashing fits any slope between 12 - 30° and is impervious to water by the roof duct throughout the life of the inlet.

The extension tubes are supplied in plane units, wrapped around and extended without use of clamps and connected with a special busbar.

The star diffuser (patented), which is fitted at the bottom of the inlet within the house, is designed to withstand high pressure washing and cleaning. The star diffuser ensures correct distribution and direction of the incoming air into the house. It is also specifically designed to prevent any icing.

The construction of the components allows an effective compact packing delivery, transport and storage, making it suitable for projects all over the world.

Materials

The star diffuser is produced out of polypropylene, which is smooth and antisoiling and therefore easy to clean.

The star diffuser is made out of 2-layers of polypropylene and is therefore isolating against condensed water.

Polypropylene stands up to sunlight and coldness, it is environmentally compatible, can be recycled and the production causes no release of any harmful substances.

The star diffuser is available in black and grey.



Air inlet from loft



Air distributor

Functional Description

The star diffuser is used in connection with low pressure/star diffuse and equal pressure/star diffuse. In both cases air distributor is mounted.

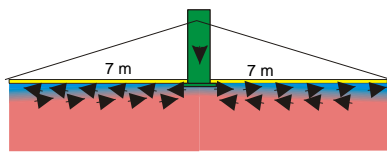
The inlet is installed close to the ceiling, presenting more advantages:

- The adhesiveness of the air is fully used and allowing a 41% increase in air travel before it drops from the ceiling.
- Less material consumption
- Easier to clean.

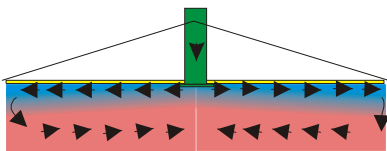
In cold conditions, due to the large diameter and upward curve of the bellmouth the air will be directed a long distance along the ceiling before starting to drop whilst being warmed by the heat inside the house.

During normal and warm external conditions the star diffuser is automatically adjusted to direct the air in an increasing downward direction so that even in extreme external conditions good ventilation is achieved amongst the stock.

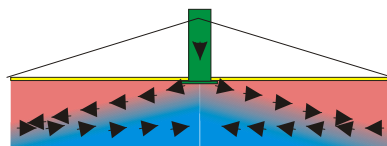
Schematic overview of the adhesiveness of the air



Effect of the adhesiveness of air at minimum opening - the air adheres to the ceiling

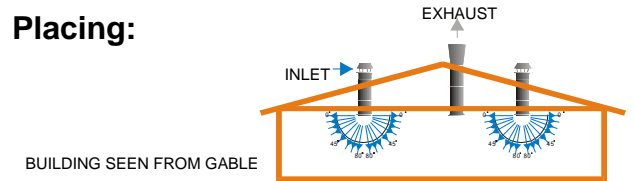


Effect of the adhesiveness of air at 1/3 opening - the air is starting to drop off the ceiling

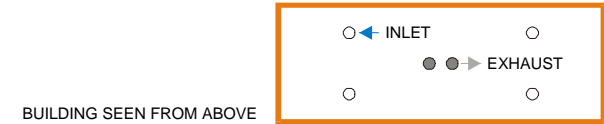


Air distribution at full opening the air is directed down towards the floor

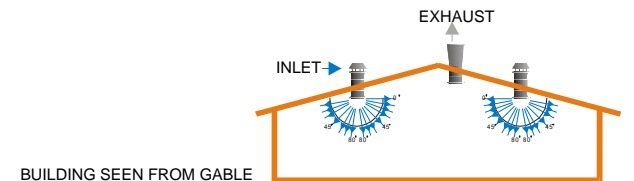
Placing:



BUILDING SEEN FROM GABLE



BUILDING SEEN FROM ABOVE

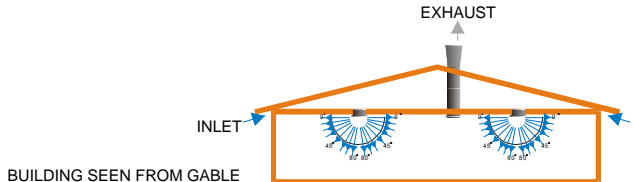


BUILDING SEEN FROM GABLE

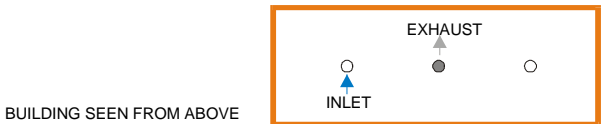
EXAMPLE OF A HOUSE WITH A SYSTEM OF 90.000 M³



BUILDING SEEN FROM ABOVE



BUILDING SEEN FROM GABLE



BUILDING SEEN FROM ABOVE



BUILDING SEEN FROM GABLE

THE EXHAUST CAN BE PLACED IN VARIOUS WAYS AS SHOWN HERE



BUILDING SEEN FROM ABOVE

