

## 1. Purpose Of Transitional Ventilation

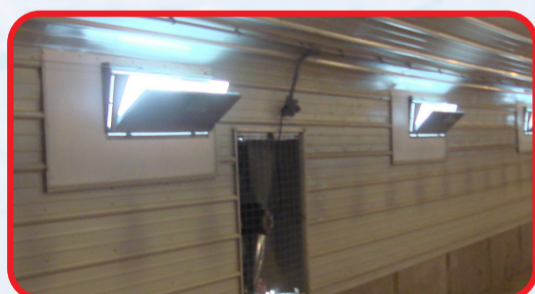
- ◆ To provide increased air exchange to remove excess heat without blowing air directly onto birds.  
Increased air exchange = increased heat removal.
- ◆ Used when:



- Outside temperature is too cold.
- Birds are too young for tunnel ventilation.

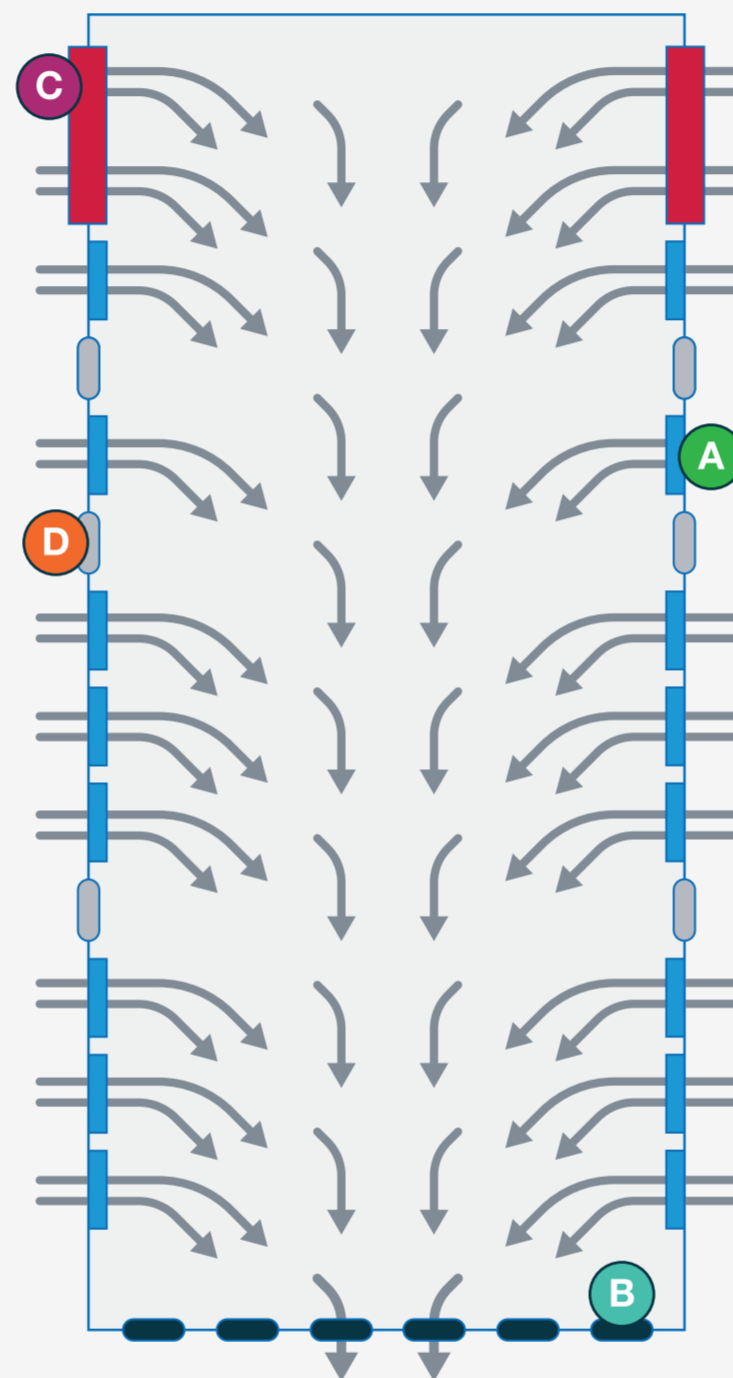
## 2. Air Volume And Speed

- ◆ Pressure
  - Appropriate negative pressure is needed to:
    - Provide adequate air speed.
    - Direct air towards apex of roof.
    - Create some air movement over the birds.



- ◆ Air Volume
  - Increase number of side wall inlets open.
  - Increase inlet opening size.
  - Total inlet opening should allow 40-50% of tunnel fan capacity to be used.
- ◆ Fan numbers
  - Determined by number and size of inlet opening.
  - Temperature driven fans run continuously for temperature control.
- ◆ **Base settings on bird behavior.**

## Typical Air Movement During Transitional Ventilation



- ◆ A Sidewall air inlets
- ◆ B Tunnel fans
- ◆ C Tunnel air inlets (closed), sidewall inlets above (open)
- ◆ D Minimum ventilation fans (off)

**Note:** During transitional ventilation air is pulled into the house through the side wall inlets only.

Library photographs for teaching purposes.

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## 3. Monitor And Evaluate

- ◆ **Evaluating bird behavior is the only real way to determine if transitional ventilation settings are correct.**



- ◆ Huddling birds - Air too cold / incorrect direction.



- ◆ Younger birds with less feathering feel air movement more than fully feathered (older) birds and will huddle together.

### ◆ Corrective Actions

- Check negative pressure is still OK.
- Turn off the last fan that came on.



- ◆ Birds become more active when transitional ventilation has been adjusted correctly.