# Minimum Ventilation For Broilers

### 1. Minimum Ventilation

- Minimum ventilation is recommended any time the house temperature goes below the set point (bird comfort) temperature.
- The purpose is to keep the birds at their comfort temperature, and provide acceptable air quality.



## 2. Minimum Ventilation Rates

- Minimum ventilation is a timer not temperature driven process.
- Recommended minimum ventilation rates for minimum ventilation are:

Live weight (kg)	Live weight (lbs)	Minimum ventilation rates (m³/hr)	Minimum ventilation rates (ft³/min)
0.050	0.11	0.080	0.047
0.100	0.22	0.141	0.083
0.200	0.44	0.258	0.152
0.400	0.88	0.435	0.256
0.600	1.32	0.589	0.347
0.800	1.76	0.731	0.430
1.000	2.20	0.864	0.509
1.400	3.09	1.112	0.654
1.800	3.97	1.343	0.790
2.200	4.85	1.561	0.919
2.600	5.73	1.769	1.041
3.000	6.61	1.969	1.159
3.400	7.50	2.163	1.273
3.800	8.38	2.352	1.384
4.200	9.26	2.535	1.492

5. Achieve Good Airflow And Volume

• Incoming air should

flow up and away

flow to the apex/

where warm air

• If the inlets are not

set correctly, cold

onto the birds.

air may flow directly

accumulates.

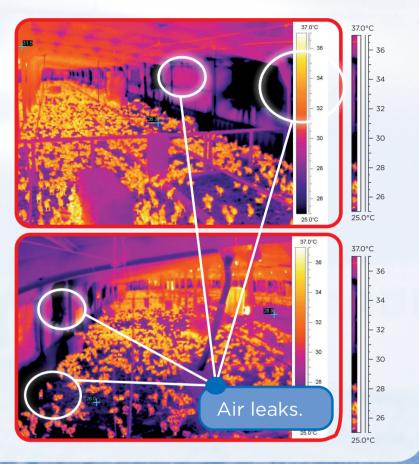
middle of the ceiling

from the birds.

• The air should

## 3. Ensure House Is Tightly Sealed

- The better/tighter the house is sealed, the better the ventilation system will work.
- Any leak in the house will effect the inlet operating pressure of the entire house.



- Not all inlets are used during minimum ventilation.
- For optimum air flow, the inlets in use should be open at least 3-5 cm.
- Negative pressure should be adequate to throw the air to the apex/middle of the ceiling.
- Air direction plates

- the air appropriately.
- Inlets must be evenly distributed throughout the bird area.



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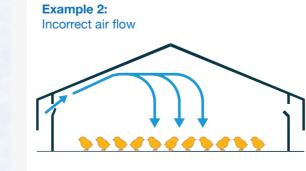
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## 4. Uniform Air Inlet Openings

should be set to direct



## Example 1: \*\*\*\*\*\*\*



## 6. Monitor And Evaluate Regularly

- Smoke test or use plastic strips hung from the ceiling to check the air flow.
- Monitor RH and air quality at least once per day.
- If air quality deteriorates or RH exceed 60%, increase the minimum ventilation.
- Monitor bird behavior.
- Complete regular evaluation of:
- air quality

- relative humidity
- signs of condensation
- dust levels
- litter quality

