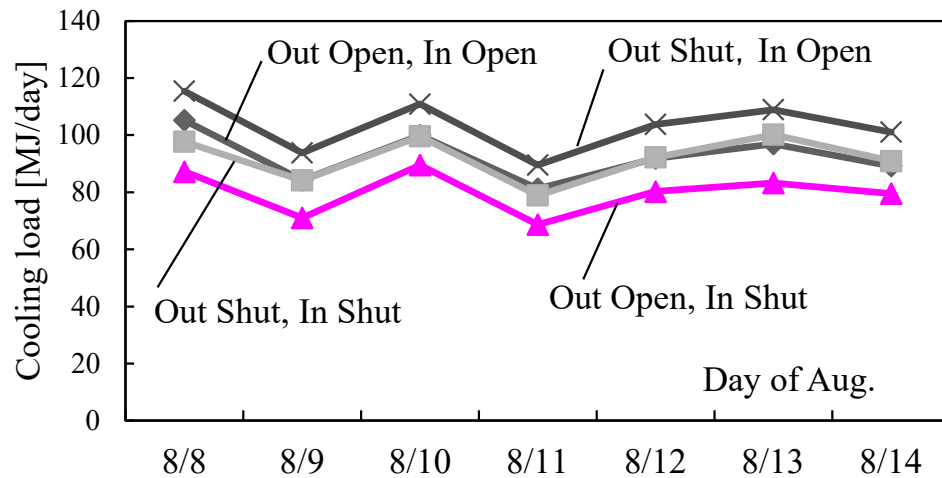
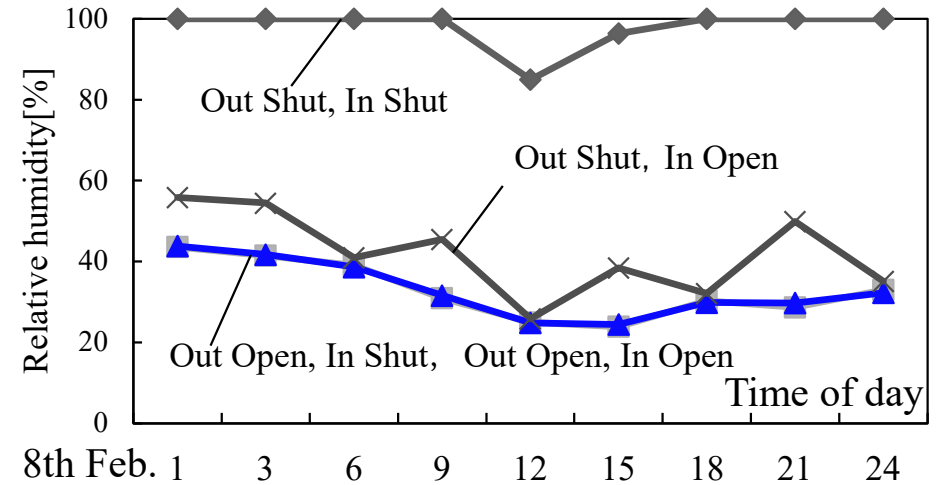


Thermal effect of ventilation layer and internal condensation prevention effect

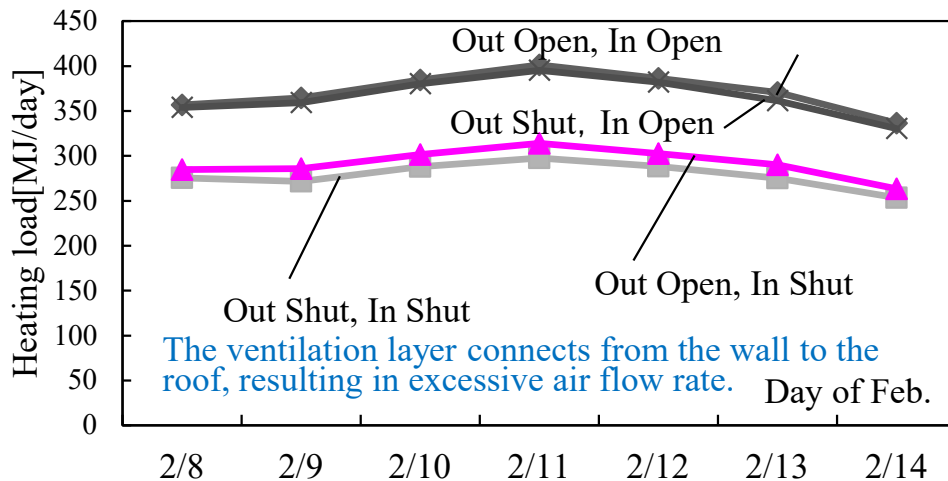
Daily cumulative cooling load for one week in summer



Relative humidity outside of the insulation during winter



Daily cumulative heating load for one week in winter



(Future tasks) • The resistance of the ventilation layer was too loose, • It is realistic to provide a ventilation layer only on the outer side, • The ventilation layer should be separated between walls and roof.

- The outer ventilation layer plays an important role in preventing internal condensation.
- Sufficient water vapor can be discharged with a small amount of air with almost no thermal effect.
- The effect of the outer ventilation layer on discharging the cooling load due to summer solar radiation is not large.
- A ventilation layer on the indoor side should not be provided from a comprehensive perspective.