

# Environmental station

**Need:** Shed environment (humidity, temperature) control is difficult

**Aim:** It controls the environmental condition of the shed

**Description:**

- It allows to check the microclimate of the farm and helps the animals to overcome unscathed the periods characterized by high temperature
- It allows to move uniformly a higher air flow rate
- The ventilation system can be managed in automatic mode to regulate the functioning of the entire system based on air temperature and humidity index (THI index) detected by appropriate probes.

**How to Implement:**

Air ventilation is set up to start when air humidity and temperature conditions overcome certain limits.



**Country:**

Italy



**Production System (dairy or/and meat sheep/goat):**

Dairy sheep and goat

**Category of Animal (ewe, goat, replacement, lamb, kid):**

Lactating ewes and goats

**Source of Information:**

<https://techcare-project.eu/>

**Attachment/links:**

[https://youtu.be/lcK\\_w\\_uGANU](https://youtu.be/lcK_w_uGANU)



## Expected Benefits:

- It improves the environmental condition of the barn
- The system enables to ameliorate animal welfare conditions and prevent heat stress.
- It prevents performance losses during lactation and reproduction phases

## Costs and Challenges

- Humidity and temperature control unit system

- Set up costs ~ 5,001 – 15, 000 Euro
- Subscription required: No
- Ease of use? Scale 1 (Complicated) – 10 (Simple)



- Value for money (for this type of benchmark farm)? Yes
- Recommend this tool/technology for use on other types of farm? Yes



*This technology proves to be very useful for supporting high milk production, especially during periods when temperatures increase significantly*

FARMER FROM ITALY

