Smart Air Quality Control System

Providing smart air quality control system solutions

Laboratory fresh air control system:
Realizes temperature and air volume control of fresh air units.

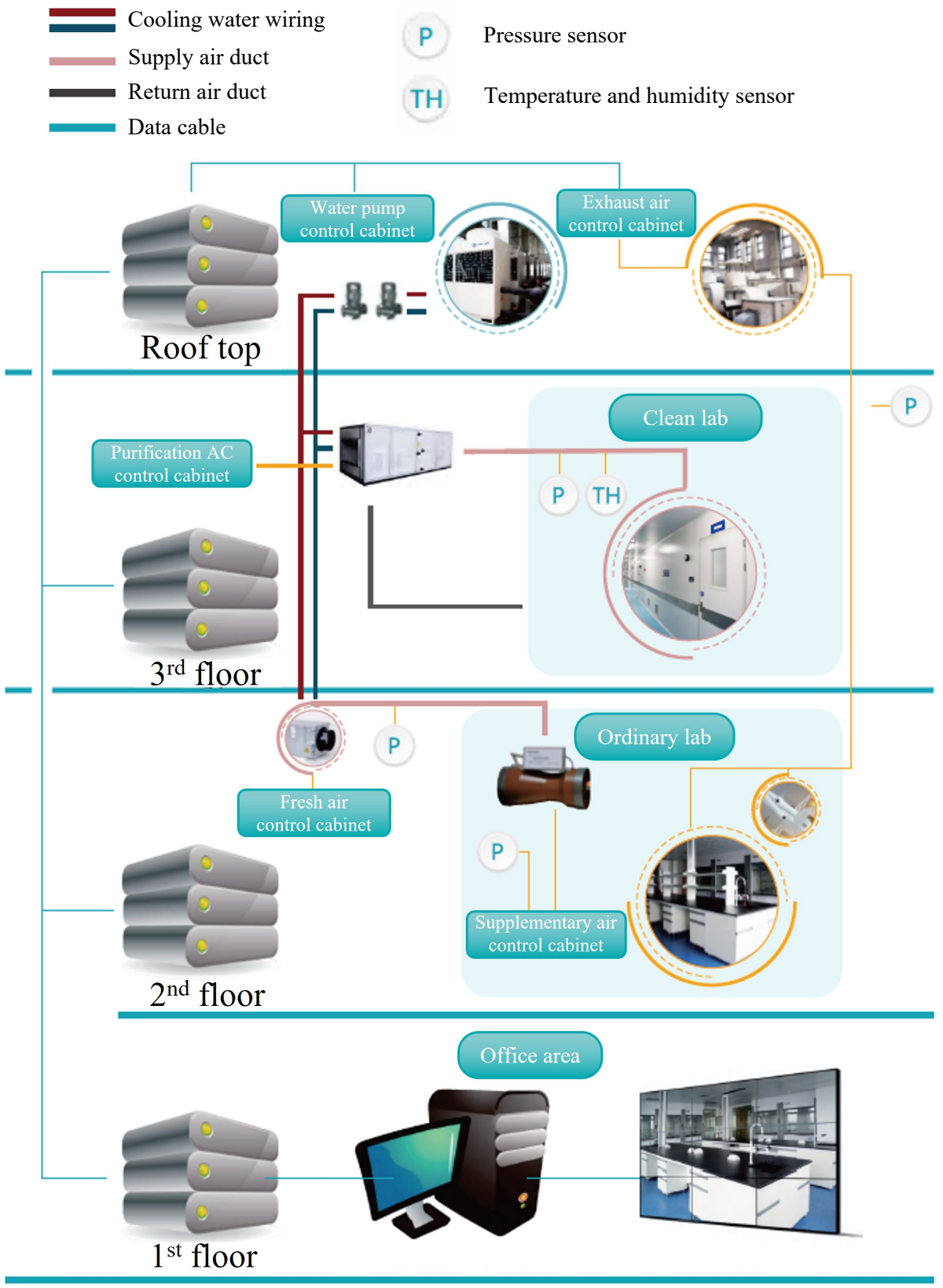
Laboratory exhaust control system:
Realizes air volume control of exhaust units, exhaust cabinets, and exhaust hoods.

Laboratory air supply system:
Realizes indoor supply air differential pressure control and residual air volume control in laboratories.

Laboratory purified air conditioning control system: Realizes air volume, temperature, humidity, and differential pressure control of laboratory purified air conditioning units.

Laboratory cooling water pump control system:
Realizes constant voltage frequency conversion control and schedule switching of cooling water pump systems.

Air quality smart control system architecture diagram



Provide information management solutions for electromechanical systems

- Collect real-time frequency data and fault data of fans.
- Collect air volume, temperature, and pressure data of ventilation ducts.
- Collect draft face speed, door height, and air volume data in real time.
- Collect room air volume, pressure difference, temperature, and humidity data in real time.
- Collect air volume, temperature, humidity, fan failure, heating failure, and filter clogging failure data of purification air conditioning units.
- Collect the operating status and fault status of cooling water pump systems.
- Can realize remote power on/off, timer switch on/off, and parameter setting of fan units.
- Can query past operating data and alarm data of laboratory electromechanical systems.
- Abnormal operating alarm data can be provided to users in various ways such as SMS, APP, WeChat, and email.

Intelligent AC control system for clean animal rooms

- It can realize constant temperature, constant humidity, and constant pressure management of clean animal rooms.
- To save energy consumption, multiple breeding rooms can be closed/activated separately.
- It realizes the gradient control of indoor pressure difference and controls the flow direction of contaminated air.
- If the main unit fails, it will automatically switch to the backup unit to ensure continuous operation of the system.
- When connected to a UPS power system, the system can continue to work after a power outage and provide power outage alarm information.
- It realizes real-time collection of system equipment operation, failure data, temperature, humidity, and pressure data.
- Past operating data and alarm data of the air conditioning control system can be queried from a remote terminal.
- Abnormal operation alarm data can be provided to users in various ways such as SMS, APP, WeChat, and email.