

Ventilation device

Ventilation devices can be divided into active and passive types. Active ventilation has an electric fan, which circulates the air out of the enclosure. Passive ventilation means using cross-ventilation, where both sides of the enclosure have ventilation equipment, which draws the air through them.

For example, one of these could be fitted on the bottom right-hand side and the other on the top left-hand side of the enclosure. The cold air will come in from the bottom and warm air will go out from the top. Passive ventilation is more reliable and economical, but the air flow is not as efficient. Large cabinets normally have active ventilation, which uses a fan.

Heating device

Heating devices warm the temperature inside the enclosure and prevent moisture from condensing on the surfaces. Heating devices will, quite naturally, use electricity to heat up the enclosure or cabinet and keep the temperature above the dew point, so that moisture from the air does not condense on the surfaces. Heating device is a reliable but more expensive solution.

Conclusion

When installing electrical enclosures in outdoor areas such as close to the seashore, in areas that are prone to heavy rain, in locations that can suffer extreme temperature changes or where the humidity levels are excessively high, some thought should be given to avoiding malfunctions and lower performance levels for products due to that moisture. Using proper electrical junction boxes with the correct accessories means that such issues can be avoided, so that no time or energy is lost in conducting additional operational activities.