

It's in the air ...
... quality does indeed
make a difference!



References
Dry air storage
Water damage, flood
Corrosion protection

DR10 HYGROSTAT

Description

The DR10 hygrostat is a unit in which specially prepared fibres act as the sensing element.

Air from the surrounding space enters the hygrostat through openings in the plastic case, and comes into contact with the sensing element. When exposed to changes in relative humidity, the hygroscopic properties of these special fibres result in a proportional change in the length of this sensing element.

A precision mechanism then transmits any change in the length of the element to a microswitch that is sensitive to extremely small movements. This then turns the dehumidifier on or off.

The relative humidity settings that activate the microswitch are determined by turning the setting knob on the front of the casing.

Applications

The DR10 hygrostat is a mechanical hygrostat specially configured for use as an on/off switch for Cotes dehumidification units.

The hygrostat turns the dehumidifier on and off when required, in order to maintain a pre-determined relative humidity (level of moisture in the air) in the room, structure or installation in which the dehumidifier and hygrostat are mounted.

Mounting

The DR10 hygrostat is available for mounting in a duct or on a wall.

The bracket-mounted duct version is made of ABS plastic and is fitted with a stainless steel shaft.

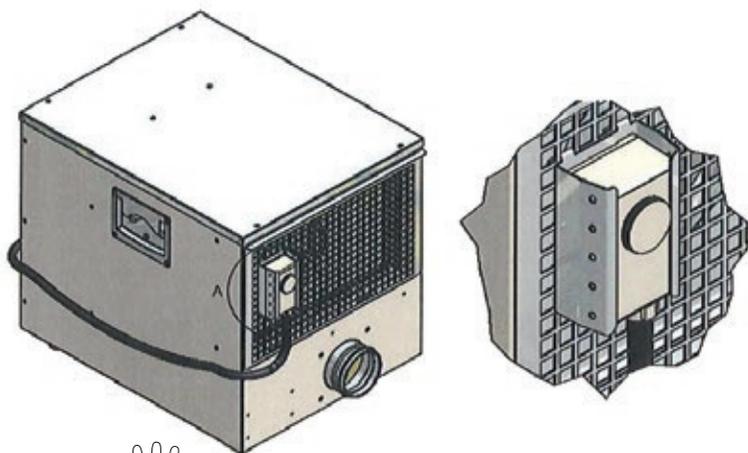
The compact, wall-mounted version is made of light grey high-impact plastic.

AC rail mounting is also available (type 90-256-F07).

Installation

The DR10 hygrostat is available for mounting in a duct or on a wall. It can be used at ambient temperatures from -20°C to $+60^{\circ}\text{C}$, and with air velocities of up to 15 metres per second.

There are no restrictions regarding the position in which the DR10 hygrostat can be mounted. However, it will work best if the ventilation slots are at right angles to the flow of air.



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