

CULMI AIR-COND & REFRIGERATION PARTS SUPPLY SDN BHD (975504-H)

Date : 1-03-12

Zeal Sling Psychrometer

Sling Psychrometer

Product : Whirling Hygrometer °C
Brand : ZEAL
Model : ZEAL
Made : UK
Accessories : Handy Case

Relative humidity can be measured by an instrument called a hygrometer. The simplest hygrometer - a sling psychrometer - consists of two thermometers mounted together with a handle attached on a chain. One thermometer is ordinary. The other has a cloth wick over its bulb and is called a wet-bulb thermometer.

When a reading is to be taken, the wick is first dipped in water and then the instrument is whirled around. During the whirling, the water evaporates from the wick, cooling the wet-bulb thermometer. Then the temperatures of both thermometers are read.

If the surrounding air is dry, more moisture evaporates from the wick, cooling the wet-bulb thermometer more so there is a greater difference between the temperatures of the two thermometers. If the surrounding air is holding as much moisture as possible - if the relative humidity is 100% - there is no difference between the two temperatures. Meteorologists have worked out charts of these differences for each degree of temperature so that the observer can find relative humidity easily. A sample is shown below:

Application:



| Item | Description | Packing | Unit | | | | Min. Order |
|------|----------------------------|-----------|---------|--|--|--|---------------|
| 1 | ZEAL Whirling Hygrometer C | 1 set/box | per set | | | | 1-set |