Humidisorb+ X-Corrode

Providing protection for enclosures and equipment against damage from relative humidity and corrosion!

Moisture and Corrosion Control Packets provide the best protection against damage from relative humidity and corrosion for any enclosure or piece of equipment that is operating, in transit, or in storage. The contents of each packet will not affect or damage non-metal material and can withstand maximum temperatures of 176°F (80°C) and exposure to high humidity without impacting their effectiveness. All packets come with self-adhesive mounting tape, which allows for easy installation into any enclosure, even if the enclosure is frequently opened. They are constructed of a heat-sealed, semi-permeable membrane material filled with Humidisorb, X-Corrode, or Humidisorb Plus X-Corrode, depending on your application needs. Humidisorb Plus X-Corrode Packets provide moisture and corrosion control in electrical and electronic enclosures.

Humidisorb is a self-regenerating desiccant that can absorb and release enormous quantities of moisture from surrounding air without becoming saturated. When first placed in service, a packet of granules will begin rapid absorption of moisture. The packet will absorb at least five to ten times more moisture than the conventional desiccant before coming to equilibrium with the relative humidity (RH) of surrounding air. This will usually take several weeks to occur, even in very humid environments. During periods when the enclosure RH is lower than its long-term average the packet releases moisture in vapor form. The moisture desorption process cannot wet the air above its average RH level. When enclosure RH tends to rise above its average level, the packet absorbs moisture. By absorbing moisture when the RH rises, and releasing some of the vapor phase moisture (regenerating) when the RH drops, the packet maintains a constant RH within the enclosure that is equal to the long-term average humidity.

X-Corrode provides protection against airborne contaminants that cause corrosion, such as Hydrogen Sulfide (H_2S), Chlorine (Cl_2), and salts. The X-Corrode formula provides a durable passivation on the surface of circuit component metals; other metals, such as aluminum and steel that may be present in an enclosure, are also passivated, but to a smaller degree. Tests have shown that once a metal surface was initially passivated by X-Corrode, the packet could be removed with corrosion protection remaining for weeks after. This means that frequently opened enclosures are also well protected by the X-Corrode packet.

The mixture of the desiccant and corrosion inhibitor has three distinct advantages over use of the individual Humidisorb and X-Corrode packets. First, it is easier to stock and install a single packet instead of two. Second, it costs less than the combined cost of a Humidisorb packet and X-Corrode packet. And third, its life span is substantially longer than that of the X-Corrode packet alone. The Humidisorb granule portion of the mixture does not need to be replaced. The life span of the X-Corrode granules is greatly extended (from typically two years to approximately 10 years) due to its encapsulation by the Humidisorb granules after the packet has been exposed to moisture.

humidisorb.com

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Product Brief

Applications

- Electronic and mechanical enclosures
- Transmitter housings
- Equipment cases
- Field mounted equipment
- Stored equipment
- Goods during shipment
- Moisture sensitive products
- Computers
- Paper goods

Benefits

- Economical
- Easy installation
- Helps improve safety of personnel and equipment

Features

- Self-regenerating
- Five to ten times greater moisture absorbing capacity than ordinary desiccants such as silica gel
- Effective in frequently opened enclosures
- Self-adhesive tape included in bag for optional use
- High dielectric strength
- Non-toxic

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Model Numbering & Additional Part Numbers

Your model number is determined by your specific needs. Choose options below.

Part number	Packet size	Volume protected
HXC 2x2[1]	2″ x 2″	200 cubic inches
HXC 4x4[1]	4″ x 4″	2 cubic feet
HXC 7x13[2]	7″ x 13″	25 cubic feet

1. 2" x 2" and 4" x 4" packets are shipped standard in quantities of 10 units (packets) per poly-zip shipping bag.
2. These are available in multiples of 5 units (packets) only. Prices reflect cost per individual unit (packet).

Packets are supplied with self-adhesive tape unless specified otherwise.

Choosing the Correct Packet

When choosing the correct packet for your particular application, the volume of the enclosure for which you intend to protect must first be calculated by multiplying it's length, width, and height (LxWxH). Different sized packets have a direct relationship to the size of the intended enclosure; thus, the bigger the enclosure, the bigger the packet is needed to protect it.

Once the volume of the enclosure is calculated, use the part number chart above to determine what size packet is needed. Multiple packets may be necessary to properly protect your enclosure.

A+ Corporation

Analytically Correct™ sample systems, sample conditioning components, and revolutionary gas and liquid sampling technology.

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