

JULY-AUG-SEP 2018

"Dry facts" our quarterly newsletter, touching a milestone with this 150th issue.

Since its launch in 1981, Dry facts has brought you dry and fresh air stories, about Pahwa group's progress through all these years

2006 Acquired the Bry-Air global brand and the centre of technical excellence shifted to India under Pahwa Group



2010 Bry-Air Prokon, which specializes in inline moisture measurement technology, was set up in Chiasso, Switzerland



981 Bry-Air took root in Asia with establishment of Bry-Air India (now, Bry-Air Asia)

> First edition of **Dry Facts published**

Established delair plant in India for manufacturing wide range of compressed air dryers



Bry-Air set its foot in China by setting up a plant in Shanghai

Inaugurated Bry-Air Malaysia plant to support the ASEAN and Asia Pacific Region with state-of-the-art air drying products





Established a plant in Brazil. In the same year, we celebrated 50th year as Bry-Air, with 80+ years of company history behind us applying desiccants

2016 Launched Super **BrySmart series (BBS) Desiccant Dehumidifier** after integrating tomrrow based concept and

technologies

Bry-Air won prestigious Star Performer EEPC Award for Outstandng **Export Performance**



Thank you for inspiring and encouraging us with your response. This milestone would not have been possible without your support.



Corrosion affects Data Center's reliability...

... Monitor Corrosion at your Data Center Smartly!

A combination of humidity, temperature, and various gaseous contaminations can results in corrosion which in turn leads to downtime in Data Centers. Installation and maintenance of effective monitoring devices ensures early detection of corrosion and thus prevents downtime.



Typically there are two types of measurement methods as below:

Corrosion Classification Coupon (CCC):

It provides a direct, quantitative measurement of the overall corrosion potential of an environment. These coupons have two pure metal strips and are placed at strategic locations in the operating environment for a period of 30 days. After 30 days, the coupons are

analysed in a laboratory. The thickness of the layer of corrosion which forms on the metal strips determines the severity level as per ISA 71.04-2013 standard.

Corrosion Classification Coupon (CCC)	
Copper Corrosion Coupon	Silver Corrosion Coupon
CAUTION: DO NOT TOUCH METAL STRIP	
Bry-Air Installation Date:	
Company:	
Room Location:	
Contact Name:	
Email:	
Removal Date:	

Corrosivity Levels of Environment as per ISA 71.04 - 2013 Standard

Real time atmospheric corrosion monitor:

These instruments help to access severity level on real time basis. The measurements are extrapolated in 24 hours for 30 days to know the severity level as per ISA standard. It also measures room temperature, relative humidity and optionally, the differential pressure to give the complete parameters.

Real time atmospheric corrosion monitors can be further classified classified in two technologies:

- One is based on Quartz Crystal Microbalance (QCM), which measures the rate of increase of corroded metal sensors mass.
- The other determines the rate of electrical resistance increase of corroded metal strips.



Cu/Ag Severity Class Reactivity Comments Level Rate/Month <300Å=Cu G1 Mild An environment sufficiently well-controlled such that corrosion is not a factor in determining equipment reliability. <200Å=Ag An environment in which the effects of corrosion are measurable and corrosion may be a factor in G2 Moderate <1000Å determining equipment reliability An environment in which only specially designed and packaged equipment would be expected to survive. G3 Harsh <2000Å Specifications for equipment in this class are a matter of negotiation between user and supplier. An environment in which there is a high probability that corrosive attack will occur. These harsh levels should >2000Å GΧ Severe prompt further evaluation resulting in environmental controls or specially designed and packaged equipment.



When moisture is Torture

In this column, we share our experience with you regularly in major application areas where usage of dehumidification is both extensive and essential.

Control moisture during assembly and packaging of Diagnostic kits



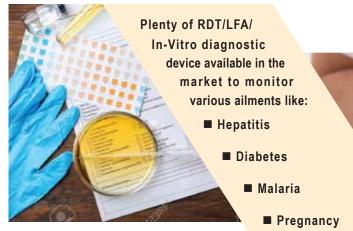
Are your Rapid Diagnostic Kits Reliable?

Diagnostic kits need to be reliable and accurate! Quick medical test results and accurate readings undoubtedly play a crucial role in timely diagnosis of many

HIV

Influenza A/B

preventable diseases. Thus, manufacturers of diagnostic products need to ensure that processing, storage, assembly and packaging areas follow GMP and environment controls norms. Humidity needs to be continuously and precisely controlled. Humidity and Temperature control needs are very



stringent during assembly and packaging of Diagnostic strips, reagents, kits or Lateral Flow Assays (LFA).

The LFA consist of vulnerable test strips which are developed after drying, laminating and assembling several sensitive components. These components include nitrocellulose membranes, sample pads, conjugate pads, adsorbent pad. While following manufacturing procedures, it is recommended to maintain the relative humidity at 15% (+/-5%) and temperature at 20°C (+/-2°C). Any variation in the relative humidity and temperature can adversely affect the performance of the LFA reagents and can cause false reports.

LFAs are highly sensitive, thus, their process must comply with GMP procedures including the recommended environmental conditions.

Bry-Air Solution

A desiccant dehumidifier is an ideal solution, which can maintained the recommended relative humidity inside the manufacturing unit. Bry-Air designs specialized dehumidification system and complies with the most stringent level of GMP and hygiene standards. It help in maintaining hygienic conditions all year round, regardless of the ambient conditions, at a very low dew point. Bry-Air can provide custom designed package systems with pre-filter, after-filter, precooling (fresh air cooling), post-cooling and bypass arrangement for complete air handling and environment control solutions for each stage of LFA manufacturing.

hyroid • Urinary infections and many more an see MP • Urinary infections and many more • Outrol line •

Components of test strip (Image source: Portland Press Ltd.)

Enter Bry-Air... exit moisture



Unlimited

Applications:

Typical applications where dehumidifiers, especially,

compacts find wide usage are:

Diagnostic kit packaging

Candy and confectioneries

Laboratories Tea and coffee

Turbine Leather Spices

Safety glass Spray drying

Chocolate snacks

Pharmaceutical

and many more

on trolleys for applications where the site is not fixed in the counter flow.

The compact design and relatively small size

and weight, makes it easy to install anywhere

-inside or outside the controlled area,

the table. Compacts can also be mounted

even outdoors, it can be mounted

on the wall/ceiling or placed on

Event snapshot

CE certified

Brycare[™]Service



Fi India, Greater Noida, 30 Aug-1 Sept' 2018



Anutech International FoodTech, Mumbai 27-29 Sept' 2018

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BRY-AIR (PHILIPPINES)



Place it on the floor

Place it on the

table top

Suspend it from

the ceiling

////////// Enter Bry-Air... exit moisture 🏹

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anywhere:

Keep it outdoors

Mount it on the wall bracket

Conceal it above

the ceiling

UPASI Tea Conference & Exhibition, Coonoor, 28-29 Sept' 2018

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