

dry facts

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Bry-Air Learning Institute

Where Learning and Sharing Become a Way of Working

In every industry, there are lessons that cannot be learnt from manuals alone. They are shaped in classrooms, on the shop floors, at customer sites, and in conversations where experience moves from one person to another. For Bry-Air, this belief has always carried a quiet strength: knowledge grows only when it is shared.

BALI brings that belief under one banner.



Its roots go back to structured industry learning, where HVAC professionals were trained through carefully developed modules, practical exposure, and the spirit of "by the industry, for the industry." Over time, this idea has only widened.



Today, BALI stands as a focused learning identity under Bry-Air bringing together what the organisation teaches, learns, and shares across its people, customers, and the wider industry. Within Bry-Air, it supports structured development for 1750+ employees across roles, functions, and levels. Foundational, functional, technical, and leadership learning all become part of a larger rhythm - not separate activities, but a continuous way of building capability.

Beyond the organisation, BALI encapsulates service technician training at customer sites, application oriented industry seminars, and other platforms for the HVAC industry to gather, celebrate, and collaborate for a better future.

That is the larger purpose of BALI. Not just to conduct training, but to make learning visible. Not just to share expertise, but to strengthen the ecosystem Bry-Air serves.

At
Bry-Air
We Never
Stop Learning
and Sharing.

Because when knowledge is passed on with purpose, people grow with confidence, customers work with greater clarity, and the industry moves forward-together.



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**Your One Stop Shop Mobile Solution
for HVAC Calculations**

- Developed by Bry-Air, a global leader in air treatment and dehumidification for over 60 years
- Designed for HVAC professionals, engineers, facility managers and consultants





Dehumidification in Sacred Places

Harmony in the Air: Within Places of Faith

Where devotion meets the unseen comfort of dry air

Across places of faith, mosques, temples, churches, gurdwaras, and monasteries, people gather in search of peace, purity, and connection. Every visit carries familiar rituals. Hands are washed. Feet are cleansed. Shoes are set aside. Hearts are prepared for prayer. These simple acts hold deep meaning.

Yet, within these serene spaces, moisture can remain long after the ritual is complete. Damp floors, humid air, and crowded prayer areas can affect comfort and safety - especially for elders, children, and those moving carefully through shared spaces.

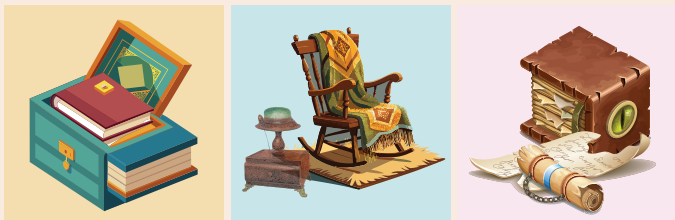
This is where dehumidification works with subtle care. By controlling humidity and supporting gentle air movement, dry air helps keep sacred environments calm, comfortable, and safe for worshippers. It does not interrupt tradition. It supports it with care.



Preserving Memories for Tomorrow

The same principle extends beyond prayer halls.

In museums, archives, and heritage spaces connected with faith, humidity control plays an equally important role. Holy books, manuscripts, relics, wood, fabric, and centuries - old objects need stable air conditions to endure. Excess moisture can slowly weaken what time has already made delicate.



Thoughtful dehumidification helps protect these memories, so future generations can experience the same sense of reverence, history, and belonging. Across spaces of worship and heritage, air control becomes more than comfort. It becomes a form of preservation.



Sheikha Salama Mosque, Al Ain

At Sheikha Salama Mosque in Al Ain, Emirate of Abu Dhabi, the United Arab Emirates, Bry-Air engineered a thoughtful dehumidification system with a pre-cooling coil. The system treats fresh air, reduces moisture through desiccant dehumidification, and supplies dry air near the ablution area to help dry worshippers' feet after washing.

This reduces slipping risks and supports safer movement, especially for women and elderly individuals. A gentle gesture of care - where devotion, design, and dry air work together in harmony.



Al Ain, Emirate of Abu Dhabi, UAE

When **MOISTURE** is Torture

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

When Moisture Is Controlled, Productivity Rises

Your furnace runs at over 1000°C, and every degree of that heat is a carefully managed asset. Blast furnace operators keep a sharp eye on coke consumption - and rightly so.

Coke is one of the most expensive raw materials in the process and the primary heat source for converting iron ore into molten iron. Even small gains in furnace efficiency translate directly into meaningful cost savings. One variable, when controlled, consistently unlocks that efficiency - moisture in the blast air.

When Air is Dry, Heat Stays Focused

The hot blast is designed for one purpose - efficient combustion and stable furnace temperatures. With controlled moisture levels, every unit of energy drives what matters most - the iron-making process.

The result:

- Higher, stable tapping temperatures
- Optimised coke consumption
- Peak thermal efficiency
- Leaner operating costs



A dry blast is a focused blast, and a focused blast is a productive one.

Why Consistency Matters

Blast air humidity varies with weather, seasons, and time of day, making furnace conditions harder to control. Operators often adjust processes to compensate - without realizing moisture is the cause. Higher humidity can influence:

- Coke requirement
- Thermal balance
- Furnace productivity
- Casting consistency

A process built for precision performs best when one more variable is controlled.

The Bigger Picture

Blast furnaces are engineered to handle extreme heat. The most efficient operations go further - they have full command of everything surrounding that heat. The difference between good productivity and peak productivity often comes down to one managed variable - moisture in the blast air - controlled, consistent, and working in your favour.



Did You Know?

Every grain of moisture per cubic foot of blast air occupies approximately 0.28% of blast volume. That means valuable furnace capacity may be quietly occupied by moisture instead of productive combustion air.

Day after day.
Tap after tap.

Controlling What You Can Measure

Dehumidifying blast air ensures a consistent, controlled moisture before air reaches the furnace.

Benefits include:

- Optimised coke consumption
- Improved thermal efficiency
- Higher tapping temperatures
- Superior casting quality
- More predictable furnace performance

Enter Bry-Air... exit moisture





Every Initiative a Seed. Every Community a Garden



Bry-Air Eye Camp

Bringing sight & hope
A small initiative that made a visible difference. The camp brought accessible eye care and awareness closer to the community. Free eye check-ups & care for 500+ villagers in Moga, Punjab.

More Moments of the Journey

Purposeful Actions. Powerful Impact



Plantation Drive

57 hands, 250 saplings breathing life into Aravali Nagar Van, Gurugram.



Certificate Ceremony

60 women certified in tailoring & beauty, 32nd Gurugram batch graduates.



Safe Drinking Water (RO/CWC)

Clean water, now a reality. DRI's Community Water Centre inaugurated at Mauzabad village, Gurugram.



Karigari Certificate Distribution

47 women from Carterpuri, Gurugram certified in tailoring & beauty, confident & ready to build their own path.



Celebrating Environment Day

60+ students at DRI Pathshala celebrated World Environment Day with full heart and action, in Gurugram.



Check Dam Construction

5 check dams constructed across Dadhikar, Hazipur & Bala Dehra, Alwar storing lakhs of cubic metres of water, reviving farms & restoring hope.

PAHWA GROUP
Innovation is life

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