

A Perfect Symphony *for Next Gen Data Centres*

Thermal Management
Dew Point Control
Molecular Contamination Control
Sustainable Water Supply



Five Layers of Environmental Protection

1. Thermal Management
2. Dew Point Control
3. Molecular Contamination Control
4. Positive Pressurisation
5. Sustainable Water Supply

Data Centre is the New Gold Mine. Our expertise helps retain the shine.

Data Centres have the most demanding 'mission critical' environments, where uninterrupted operation depends on precise control of temperature, humidity, airborne molecular contaminants and environmental stability.

Bry-Air and DRI deliver an integrated environmental infrastructure, engineered specifically for modern data

centres. From precision dew-point control and molecular contaminant removal, to energy-efficient cooling and sustainable water generation, our solutions ensure higher uptime while significantly improving energy performance. By combining advanced air treatment technology with high-efficiency cooling strategies, Bry-Air and DRI help operators move towards improved PUE, reduced energy consumption and a lower carbon footprint.

Pressurised & Purified Fresh Air



Mission Critical Series PPFA Unit

- PPFA units supply purified and pressurised fresh air to maintain a controlled internal environment
- Supports ISA / ASHRAE G1 air quality compliance
- Assists in handling envelope sensible heat loads and ventilation cooling

Dew Point Control

Condensation Risk Mitigation



Mission Critical Series Dehumidifier (FFB)

Maintains precise humidity levels to prevent moisture-related failures.

- Desiccant dehumidifiers maintain 10–11°C dew point
- Prevents condensation on sensitive electronics
- Protects equipment from moisture-induced corrosion

Sustainable Water Supply

Water for Efficient Cooling



Generates water to support cooling infrastructure sustainably.

- Air-to-Water Generators harvest atmospheric humidity
- Supports cooling towers and adiabatic systems
- Reduces dependency on external water sources
- Modules upto 1000 liters per hour



Mission Critical Series Air-to-Water Generator (AWG)

Mechanical Corridor

10–11°C
Dew Point
<40% RH

Data Centre Envelope

Server Racks Cooling Zone



Pressurised Clean Air Environment

Purified Fresh Air
0.5~1 Air Change/hr

Positive Pressure
Environment

BryShield

Direct-to-Chip
Liquid Cooling (DLC)

Molecular Contamination Control

Corrosion Protection



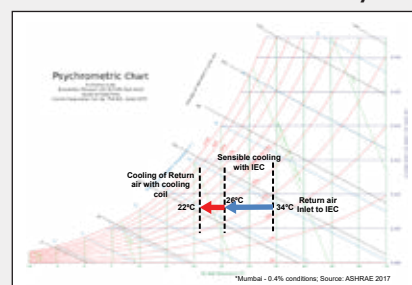
Mission Critical Series Gas Phase Filtration Unit

Removes airborne corrosive gases that can degrade electronic components.

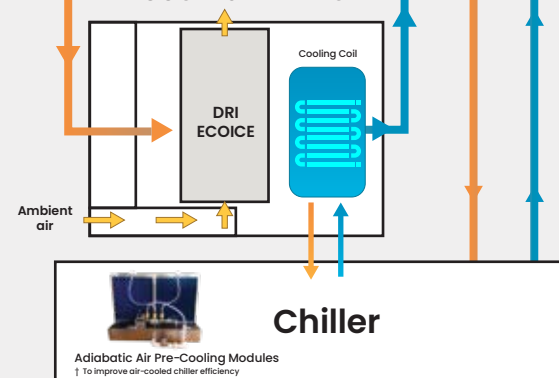
- Gas phase filtration systems remove molecular contaminants
- Protects electronics from chemical corrosion
- Maintains clean internal atmospheric conditions

Thermal Management

Psychrometric Representation
of EcoSmart PAHU – Hot & Dry



EcoSmart PAHU

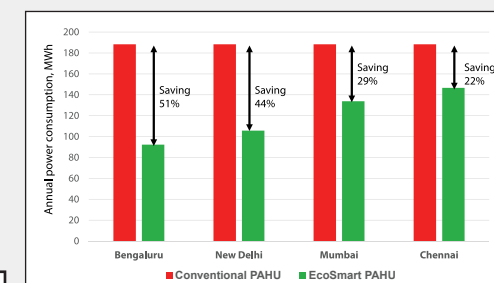


Chiller

Adiabatic Air Pre-Cooling Modules
↑ To improve air-cooled chiller efficiency

Enhancing Cooling Efficiency

Energy Saving by EcoSmart PAHU
for Indian Cities

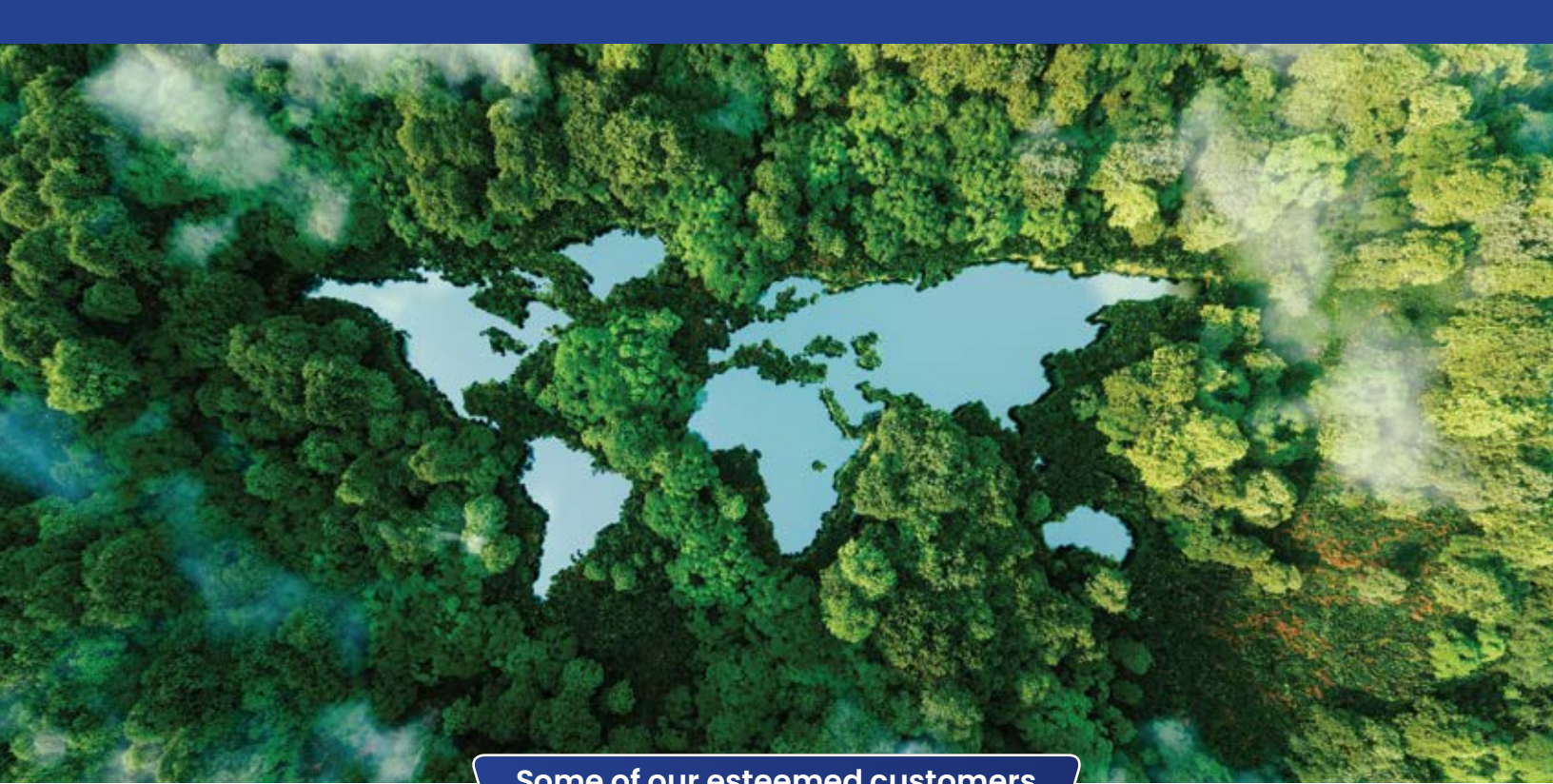


BryCare LSR (Lightning Service Response)

Rapid Operational Support

Ensures rapid technical response for mission-critical uptime.

- Lightning Service Response provides rapid service support
- Minimises operational downtime
- Ensures reliability of environmental control systems



Some of our esteemed customers



Global Data Centers
and Cloud Infrastructure



BLUE STAR



...and many more

Innovation is Life



28 New
Technologies



147 Active patent
applications



93 Patents
Granted / Allowed



Leaders in Dehumidification...Worldwide

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