

Bry-Air® **FLi** series

Dehumidifiers



FLi series
Designed for High Performance

www.bryair.com





Leaders in Dehumidification... Worldwide

A global solution provider for desiccant dehumidification and product drying, Bry-Air provides you tailor-made solutions to your humidity, moisture and environmental control problems

Bry-Air® FLi series engineered dehumidifiers are designed and manufactured to ensure they meet the most complex and stringent humidity/moisture control needs across diversified industries like pharmaceutical, food, chemicals, defence, electronics, power etc.

FLi series Dehumidifiers are designed aesthetically and can be packaged with:

- Pre-Filter • After-Filter • Pre-Cooling (fresh air cooling) • Post-Cooling
- Bypass arrangement for complete air handling and environment control needs

Engineered to highest consistency, reliability and ecological standards the FLi series industrial dehumidifiers remove moisture from the air on a continuous basis.

The FLi series incorporates the highly efficient EcoDry metal silicate desiccant synthesised rotor to meet the industry needs for equipment with small footprint coupled with high moisture removal capability.



* Registered Design no. 220139



BRYSMART CONTROL PANEL

- Microprocessor based PLC with**
- Supervision of operation
 - Fault management
 - Continuous data log
 - Display of operative parameters
 - RS232/RS485 serial data interface
 - BMS compatibility (Modbus, Profibus-optional)
 - Remote fault warning output
 - Spare control output
 - Intelligent re-start following power failure
 - Alphanumeric fault display
 - Real-time clock
 - Battery backup setting

- INSPECTION WINDOW**
- Inspect bed rotation on running condition of unit

- SS HOLLOW TUBE (IMPORTED)**
- Durability
 - Allow to hold panel without any fastener
 - Add extra strength

- DOOR LOCK**
- Ease of servicing

- SKID**
- MS construction
 - Add extra strength in unit
 - Easy for lifting & shifting during transportation
 - No transit damage in unit
 - No foundation required at site

Bry-Air® FLi series has a special fabrication of stainless tubing framework (* Registered Design no. 220139) with a special jointing as well as the construction of the panel within the frame unlike a standard AHU. This ensures:

- Vapour tight construction as per SMACNA class 6 • Zero leakage and • Ease of transportation across terrains

At the heart of it all

Advantages with EcoDry™ inside:



- Adsorbent, non-toxic, non-flammable, fully water washable
- In situ synthesised metal silicate desiccant on an inert organic fibre substrate
- Active desiccant 80% of the media weight, ensure high performance and minimal heat carry-over
- The rotor is non-flammable. The net organics in the honeycomb media is less than 2%

- Special edge hardened media surface to ensure a smooth surface and long life of both, media and the seal contacting it
- Rotor perimeter flange extends media and seal life
- Rotor incorporates robust internal structure with perimeter flange for industrial quality, durability and easy serviceability

Standard Features



- **High Efficiency and Reliability**
 - Enhanced moisture removal capabilities
 - Fitted with a high-performance EcoDry rotor that ensures low volume/weight per CMH and additional moisture removal
 - Minimized air leakage (equipped with EU-4 grade filters and unique PTFE bonded bulb seal design)
- **Superior Design**
 - Self-contained unit
 - Robust stainless steel frame with double skin construction, internal GI sheet and pre-coated external skid for longer life
 - CNC fabricated with industrial grade coating
 - Flexibility of stainless steel internal skin available for specialised applications in the food, pharmaceutical and other critical industry applications
 - Multiple choice of reactivation heat source - electrical, steam, thermic fluid, direct/indirect fired gas
 - In bolt process bypass for custom designing of process air flow or process temperature control
 - Insulation of process and reactivation airflow sectors

- **Ease of Installation**
 - Small footprint
 - Versatile, easy to package and handle
- **Ease of Operation and Maintenance**
 - Rotor is water washable
 - Quick serviceability & maintenance free operation
 - Auto/Manual selector switch
 - Volume control dampers for both (P&R) air flow
 - Easy tool-free access to all components
- **Customization Options Available**
 - Humidity control by humidistat on/off
 - Airtight, easy to package and integrate additional pre/after cooler modules, higher grade filter
 - Stainless steel construction
 - Reactivation cool down safety device
 - Microprocessor based state of the art BrySmart controller provides a digital display of the status of faults, warning, temperature and RH
 - Ethernet
 - Bacnet
 - Modbus
 - Remote connectivity

Remote Connectivity



- Real-time monitoring/control of dehumidifier for both stand-alone and customised systems from remote locations
- Quick troubleshooting by expert technical staff without being at the site, thus reducing the break-down time and related costs
- Helps optimise energy utilisation based on data logging and corresponding solutions
- IP based controls result in low running costs
- Assists customer in authorisation on data logging and set parameter changes
- Availability of trend analysis on a real-time basis

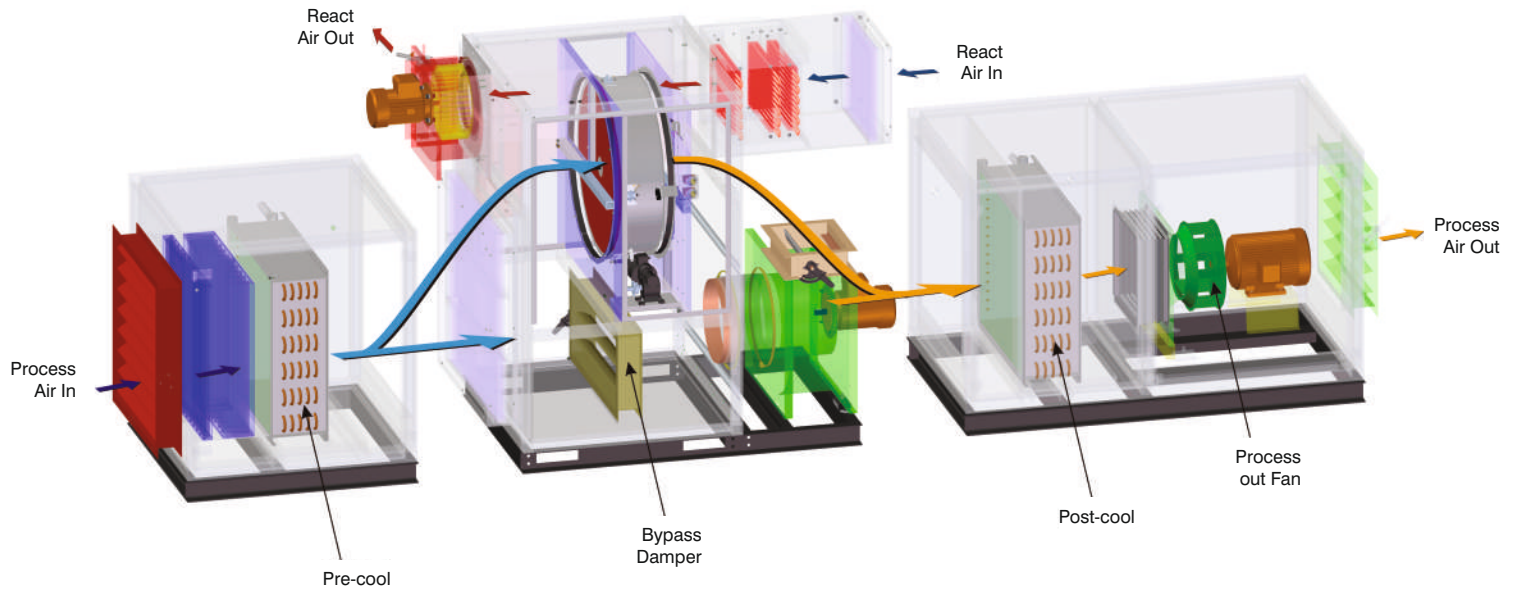
BryCare®

BryCare® is Bry-Air's Dehumidifier Service division. BryCare has a team of trained and experienced technicians who ensure that your dehumidifier equipment stays in good running condition, causes less production downtime and provides a high return on investment.

With BryCare's speedy, quality and reliable services, industrialists and plant owners are assured peace of mind on their dehumidifier investments.



Operating Principle of a FLi series Dehumidifier



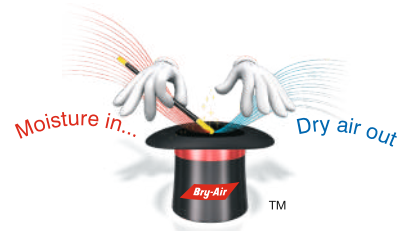
FLi series Specification... Process Airflow 2500 CMH to 25000 CMH

Model	ROTOR	PURGE	PROCESS AIR FLOW CMH	PROCESS ESP (pa.)	PROCESS MOTOR KW	REACT AIR FLOW CMH	REACT ESP (pa.)	REACT MOTOR KW	REACT HEATER KW	POWER* REQD.	Approx Weight (kg.)	Dimension (L x D x H)
	DEPTH											
FLi 2500	200	NO	2500	300	1.5	833	250	0.746	26	415/3/50	500	2600 x 1220 x 1770
FLi 3000	200	NO	3000	300	1.5	1000	250	0.746	33	415/3/50	500	2600 x 1220 x 1770
FLi 4200	200	NO	4200	300	2.2	1400	250	1.1	46	415/3/50	550	2600 x 1220 x 1770
FLi 5000	200	NO	5000	300	3.7	1667	250	1.1	53	415/3/50	550	2600 x 1220 x 1770
FLi 6200	200	NO	6200	300	2.2	2067	250	1.5	64	415/3/50	950	2600 x 1400 x 1950
FLi 7300	200	NO	7300	300	3.7	2433	250	1.5	76	415/3/50	950	2600 x 1400 x 1950
FLi 8000	200	NO	8000	300	3.7	2667	250	1.5	85	415/3/50	1025	2730 x 1600 x 2150
FLi 9000	200	NO	9000	300	3.7	3000	250	2.2	96	415/3/50	1050	2730 x 1600 x 2150
FLi 10500	200	NO	10500	300	3.7	3500	250	2.24	114	415/3/50	1050	2730 x 1600 x 2150
FLi 15000	200	NO	15000	350	7.5	5000	250	3.7	178.5	415/3/50	2000	3850 x 2050 x 2350
FLi 15000	400	NO	15000	350	9.3	5000	250	5.5	178.5	415/3/50	2150	3850 x 2050 x 2350
FLi 15000	200	YES	15000	350	7.5	5000	250	5.5	168	415/3/50	2000	3850 x 2050 x 2350
FLi 15000	400	YES	15000	350	9.3	5000	250	7.5	168	415/3/50	2150	3850 x 2050 x 2350
FLi 25000	200	NO	25000	350	11	8333	250	7.5	294	415/3/50	2650	4350 x 2400 x 3000
FLi 25000	400	NO	25000	350	15	8333	250	7.5	294	415/3/50	2800	4350 x 2400 x 3000
FLi 25000	200	YES	25000	350	11	8333	250	7.5	273	415/3/50	2650	4350 x 2400 x 3000
FLi 25000	400	YES	25000	350	15	8333	250	15	273	415/3/50	2800	4350 x 2400 x 3000

Note:

- Other voltage available are 200/220/240/415/440/460 VAC, 3Ph, 50/60 Hz
- FLi 15000 and FLi 25000 come with 200mm and 400mm rotor options and with or without purge
- Because of our policy of continuous product improvements, specifications are subject to change without notice

Dehumidifier Range



Engineered Dehumidifier
2500 CMH to 25000 CMH and above

New Bry-Air BrySmart® series (BBS)
with Patented Technology

BryCool™

BryPool™ for Indoor
Swimming Pool

Compact
Dehumidifiers
170 CMH to 4500 CMH

Tray Dryer for
Drying Seeds
and Agro Products

Flz series
Dehumidifiers

P95x
Dehumidifiers

PAHWA™ GROUP Innovation is life



Leaders in Dehumidification... Worldwide

Plastics Auxiliary Equipment

for Drying, Conveying, Blending,
Heating & Cooling and Mould
Dehumidification



Gas Phase Filtration

for removal of corrosive
& odorous gases



Adsorption Chillers

Use low grade waste
heat for Energysmart
Green Cooling



Air Solutions on RENT for

- Industrial Projects Solutions
- Surface Preparation & Coating
- Water Damage Restoration
- Comfortable Working Conditions



The Compressed Air Treatment System Company

Compressed Air & Gas Dryers
and Accessories



Fresh Air Solutions,
Indoor Air Quality & Energy
Recovery Systems



Evaporative Cooling Solutions





Your Moisture Removal Partner...

Pharma

- Gelatin Drying
- Soft Gelatine Capsule Drying
- Ampoule Manufacturing
- Animal Rooms
- Biological Manufacturing
- Biomedical Dry Rooms
- Colloid Manufacturing
- Cough Drop Manufacturing
- Cough Syrup Manufacturing
- Diagnostic Reagent Powders
- Effervescent Manufacturing
- Gelatin (Powder) Processing
- Glandular Products
- Hypodermic Tablets
- Liver Extracts
- Manufacture of Glandular Extracts
- Manufacture of Liver Extracts
- Micro Analysis
- Milling Room
- Powder Manufacturing
- Serums
- Tablet Coating
- Tablet Compressing
- Vial Filling
- Capsule Storage
- Cryogenic Cylinder Storage/Manufacturing
- Powder Storage
- Storage of Anti Alpha Drugs
- Storage of Powder & Tablets
- Manufactured Powder and Packing Area
- Penicillin Packaging
- General Pharmaceutical

Food

- Biscuit/Cookie Storage
- Confectionery Manufacturing
- Chocolate Manufacturing
- Chocolate Storage
- Cracker & Wafer Packaging
- Dried Vegetable Storage
- Dry Soup Packaging
- Fruit Drying/Dehydrating
- Fruit Drying
- Honey (Uncured) Drying
- Potato Chip Processing/Storage
- Dehydrated Food
- Spices / Herbs
- Vegetable Dehydration
- Yeast Making
- Sugar Storage
- Cold Storages
- Powder Food
- Mushroom Drying
- Sausage Storage
- Meat & Poultry
- Tea Industry
- Coffee Industry
- Health Food
- Seed Drying & Storage
- Dry Powder Conveying
- Food Concentrate

Some of our customers... worldwide

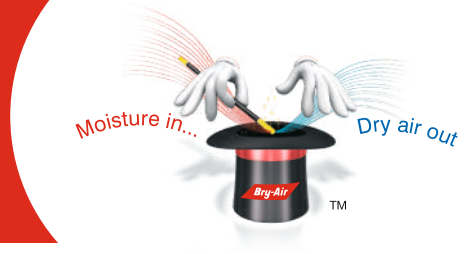


Some of our customers... worldwide



Unlimited Applications

Bry-Air Dehumidifiers helps to remove humidity to the desired constant level by removing moisture from air effectively and economically. They are used successfully for **research and development, manufacturing, processing, drying, testing, storage and packaging** in almost all industries.



Electronics/Electricals

- PCB Assembly
- Semiconductor Assembly
- Cable Wrapping
- Coil & Transformer Winding
- Electrical Control Panels
- Filament Winding
- Fuse Loading
- Lightning Arrestor Manufacturing
- Thermal Circuit Breakers
- Transformer Manufacturing
- Electric Transformer Storage
- Manufacturing Lab. (Elec. Instruments)
- Tungsten Filament Mfg. & Storage

Defence

- Assembly of Jet Engines
- Assembly of Electronics
- Missile Assembly
- Aircraft Armament Storage
- Airplanes
- Ammunitions/Weapons Storage
- Civil Aircraft Corrosion Protection
- Gun Powder/Solid Fuel Storage
- Howitzers Storage/Layout
- Helicopter Storage
- Leather (Uniform, Boots)
- Tank & Armour Layout/Preparedness
- Tank Storage

- Map & Drawing Storage
- Military Aircraft Avionics Protection
- Missile Body Welding
- Missiles
- Ships
- Spare Parts Storage
- Parachute Drying
- Propellant Mixing & Casting
- Radar Aerial Dishes
- Engine Testing Rooms

Lithium Battery

Safety Glass

...and many more

Our Global Customers



Installations in over **80** countries

We are never too far from you...

...touching people's lives round the clock™



PAHWA GROUP

- ★ Plants / Subsidiaries
- Own Sales & Services Offices
- Rep. Network

- Installations in over 80 Countries
- 13 Manufacturing Facilities
- 1500+ Employees in 6 Continents
- Representatives in over 60 Countries

PAHWA GROUP
Innovation is life



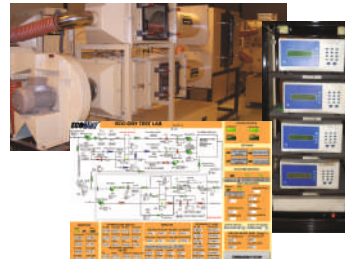
Innovation both in technology as well as business processes is the driving philosophy of the Pahwa Group.

27

Cutting-edge Technologies

142 Active Patent Applications in 27 new technologies since 2007, of which **90** have already been granted/allowed.

Strong R&D and Testing



Govt recognised R&D labs and **9** in-house Test labs

World-class Engineering & Manufacturing



Vertically integrated state-of-the-art engineering and manufacturing capability with in-house 3D designing, CNC, Powder coating for customised solutions



Leaders in Dehumidification... Worldwide

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