



AIR Dehumidifier SYSTEMS

With Multi-purpose Applications

www.brightstaraircon.com



AIR Dehumidifier SYSTEMS

With Multi-purpose Applications

www.brightstaraircon.com

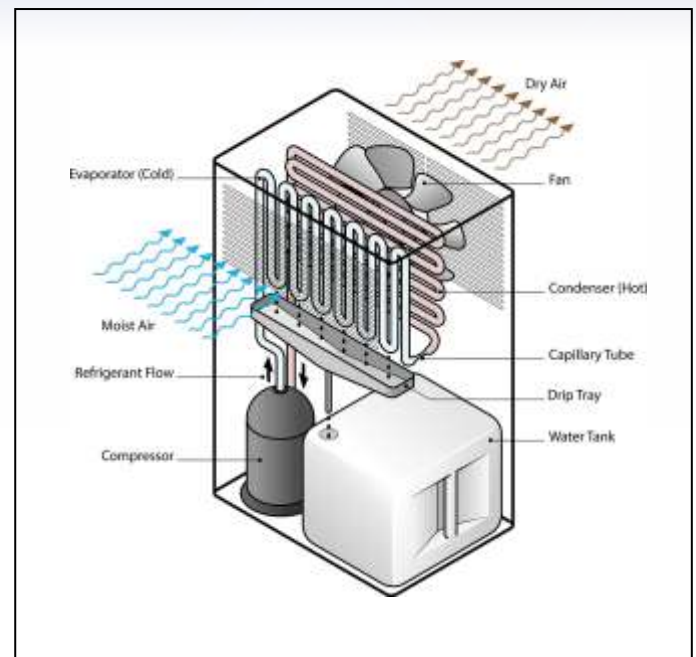
BRIGHT STAR DEHUMIDIFIER SYSTEMS

Dehumidifiers work in one of two ways—by **refrigeration** (cooling air to remove moisture using similar technology to a refrigerator or air conditioner) or by **absorption/adsorption** (where moisture is absorbed into or adsorbed onto a drying material and then removed). We'll look at each of these in

Prevent man & machine from dust, prevent oxidation, Activate body cell, Promote blood circulation, adopt our body to low alkaline and hence improve our body immune system, reduces asthma and allergy symptoms reduce bacteria in the air, reduce air borne dust particles, provide a more restful sleep.

Other Specifications:

- Ionizer Air Filter for Healthier atmosphere.
- Anti – Bacterial Container
- Energy Savings Rotary Compressor
- Auto Shut off when tank is Full
- Continuous Drain Option
- Auto Defrosting
- Removable Water Container
- Washable Pre Filter
- Low Power Consumption
- Low Noise Level
- Low maintenance cost
- Environment Friendly – CFC Free
- Safety & International Standards :- GS/EMC/CE/Rohs/ISO
- Removable easy to clean filter
- Easier mobility with convenient wheel.
- Auto louver setting at 80 degree sweeping.
- Auto louver setting at 80 degree sweeping.





Dehumidifier Works

Dehumidifiers work in one of two ways—by **refrigeration** (cooling air to remove moisture using similar technology to a refrigerator or air conditioner) or by **absorption/adsorption** (where moisture is absorbed into or adsorbed onto a drying material and then removed). We'll look at each of these in turn.

The perfect antidote for a moist, dusty or musty indoor environment is a dehumidifier. The primary function of a dehumidifier is to reduce the amount of humidity in the indoor air but this comes with plenty of secondary benefits such as the removal of dust mites from the atmosphere, reduction in the amount of condensation and an overall improvement in the indoor air quality.

If you are getting miserable from allergic reactions, perhaps it's time you invested in a good quality desiccant or compressor dehumidifier, especially if you live in a fairly humid climate such as in the coastal areas.

A desiccant or compressor dehumidifier will help eliminate some of the common triggers of allergic reactions such as mold, mildew and dust mites. This can be particularly advantageous for people suffering from seasonal allergies.

- Warm, moist air is sucked in through a grille on one side of the machine.
- An electric fan draws the air inward.
- The warm air passes over freezing cold pipes through which a coolant circulates. (Note: We've simplified this part of the machine quite a lot. It's like a mini air-conditioner or refrigerator endlessly circulating coolant with a pump and compressor.) As the air cools, the moisture it contains turns back into liquid water and drips downward off the pipes.
- Now free of moisture, the air passes over the hot condenser/compressor unit and warms back up to its original temperature.
- Warm, dry air blows back into the room through another grille.
- The moisture that was in the air originally drips down into a collecting tray (or bucket) at the bottom of the machine.
- A plastic float in the machine rises upward as the collecting tray fills up.
- When the tray is full, the float trips an electric switch that turns off the fan and switches on an indicator light telling you the machine needs emptying.

ADVANTAGES OF DEHUMIDIFIERS

They work well in both cold and warm climates: Unlike the compressor dehumidifiers that are really built for a warm ambient temperature, the desiccant dehumidifiers will maintain a superior standard of performance in both warm and cold ambient temperatures. This is because while the compressor dehumidifiers work on a condensation principle that requires a temperature gradient between the atmosphere and a condensation surface, the desiccant dehumidifiers utilize an adsorption principle where the water molecules adhere onto a surface to form a thin film of moisture on the dehumidifier material. This makes them highly effective as dehumidifiers in spaces with high humidity at low temperatures. As a result, with the desiccant dehumidifiers, you don't have to grapple with the 15°C "cut-off" room temperature for optimal performance that is required for the compressor dehumidifiers.

They can keep your home warm during winters: While both dehumidifiers warm the air that passes through them before releasing it back into the room, they differ in terms of the degree of heat generated. The desiccant dehumidifiers offer a superior performance in this regard in that they offer a better heating performance. In the compressor dehumidifiers, the dry air being pumped out will be about 2°C warmer while in the desiccant dehumidifier, the dry air coming out will be about 3° to 5°C warmer. If you are looking for a dehumidifier for use in a chilly room or cold weather, the desiccant type would make perfect sense. In a warm room or warm weather where you may wish to maintain the same room temperature, you can go with the compressor type.

Low noise levels: Because they are not built with a compressor, the desiccant dehumidifiers are generally quieter in operation.

Optimal energy consumption in cold weather: The compressor dehumidifiers are generally cheaper to run in warm weather but the desiccant dehumidifiers make more energy sense in cold weather. Not only do they dry the damp air, they also release warm heated air into the room without much energy expenditure. It is like killing two birds with one stone.

Portable: The desiccant dehumidifiers are generally lighter and more compact than the compressor dehumidifiers. On average, they weigh anywhere from 5kg to 9kg compared to the compressor dehumidifiers that weigh over 10kgs with few exceptions. While a single dehumidifier is generally sufficient for a home as long as the doors inside the house are open, you might need to move the device from one position to another or one level to another and in those instances, a desiccant dehumidifier will come in handy in delivering an optimal dehumidifying performance on your premises.

Low maintenance: Unlike the compressor types, the desiccant dehumidifiers do not use any refrigerants and are therefore easy to maintain.

They are more durable: Due to their simpler mode of operation which does not include a compressor, a refrigerant or numerous moving parts, the desiccant dehumidifiers tend to have a longer lifespan.

BRIGHT STAR AIRCON

Reg. Office : Plot No. 434/1, Shishuwala Talab Road
Near Mundka Metro Station, Village & P.O. Mundka, Delhi-110041
Phone : 011- 28341850 / 51, 27682597
Mob : +91-11-9999648530, 8800274290

Mail : brightstaraircon49@gmail.com, brightstaraircon@yahoo.com

Website: www.brightstaraircon.com