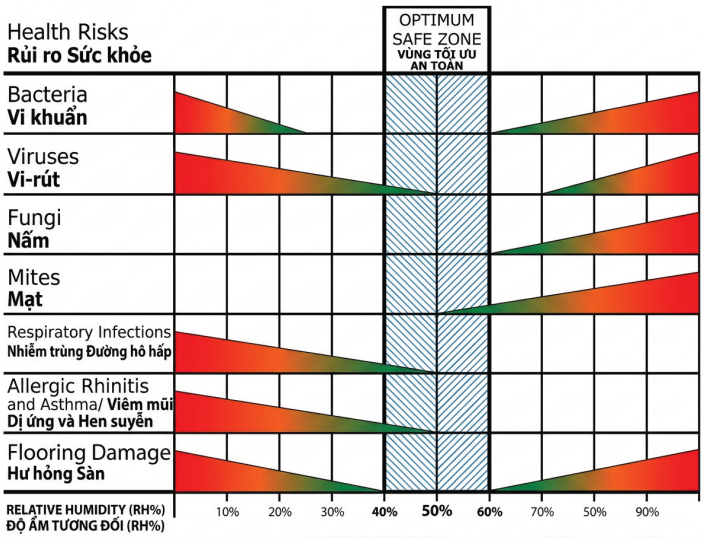
DeAir.RE

Heat-Pump DeAir Dehumidifier



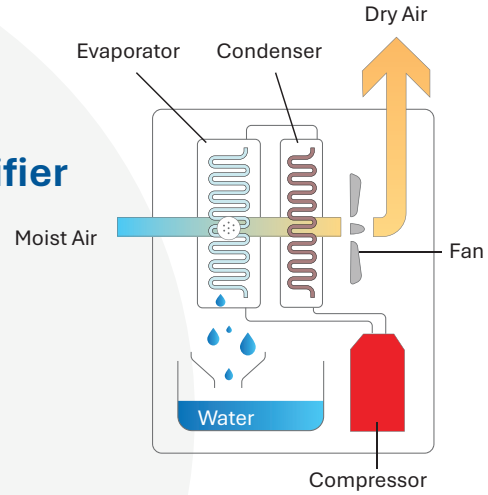
Impact of high humidity

High humidity negatively impacts the production and storage of goods:

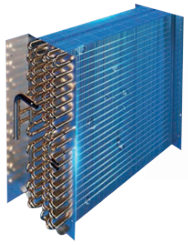
- In production: Reduced quality (mold, rust, deformation, slow drying), process disruption (electronic errors), increased costs (error handling, extended lead times).
- In storage: Damage to goods (bacteria, mold, insects), reduced shelf life, impact on packaging (mold, decay).

The operating principle of a condensing dehumidifier

- First, a centrifugal fan draws humid air into the machine. At the evaporator, the air is cooled below its dew point, causing the water vapor to condense into water and drain out. Then, the cooled air passes through the condenser to be warmed again. Finally, the warm, dry air exits, entering the area requiring treatment and continuing the dehumidification cycle.



Main parts



Vthermo Coil System

Promek 3-layer anti-rust paint

Copelands Heat Pump Compressors American brand

Durable, energy efficient

AIR KING Fan Taiwan

High-performance and energy-efficient engine

Electrical equipment from the MITSUBISHI brand - JAPAN

Automatic operation and energy saving

Heat-Pump technology in DeAir dehumidifiers saves energy.

The Heat-Pump technology in DeAir.Re dehumidifiers is a significant advancement over conventional condensation dehumidifiers. Instead of simply cooling to condense moisture, **Heat-Pump technology** utilizes the heat released during condensation to warm the air after the moisture has been removed. This offers several advantages:

- **Higher energy efficiency:** Heat reuse reduces electricity consumption compared to conventional dehumidifiers.
- **Better performance at low temperatures:** Heat-Pump dehumidifiers maintain stable dehumidification performance even in low ambient temperatures.
- **Less cooling of the surrounding environment:** Because the blown air is already slightly heated.

DeAir Joint Stock Company
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Branch: No. 29, Nhu Quynh St., Nhu Quynh Commune, Hung Yen Province

DeAir.RE

DeAir.RE Three-Phase Heat-Pump Dehumidifier

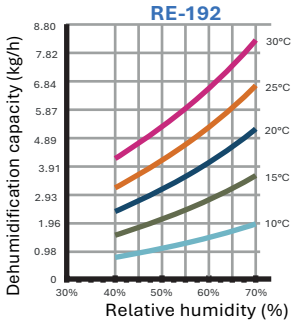
Product made in VIETNAM

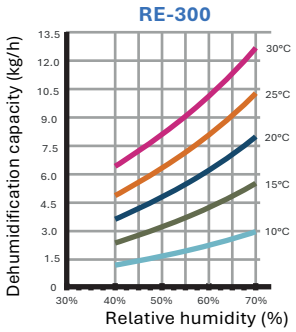
Model	Dehumidification Capacity
DeAir.RE-192	192 kg/day
DeAir.RE-300	300 kg/day
DeAir.RE-500	500 kg/day
DeAir.RE-600	600 kg/day
DeAir.RE-900	900 kg/day
DeAir.RE-1200	1200 kg/day

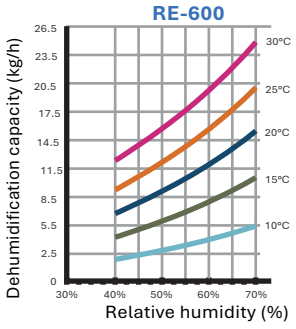
Technical Specifications

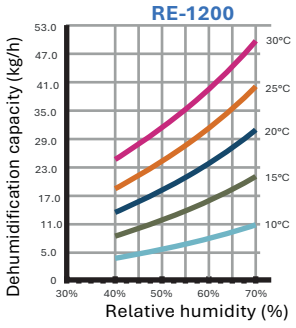
Model		DeAir.RE-192	DeAir.RE-300	DeAir.RE-500
Operating Temperature	°C	15-60	15-60	15-60
Dehumidification Capacity @30°C/70%	kg/day	192	300	500
Airflow	CMH	2,500	3,000	4,500
Noise Level	dBA	59	59	65
Refrigerant Type		R32 / R134A		
Refrigerant Charge	kg	1.9	1.9	3.2
Power Supply	V/Ph/Hz	380/3/50		
Power Consumption	kW	4.6	4.6	7.6
Dimensions (W x D x H)	mm	780x480x1,650	780x480x1,650	1,250x600x1,800
Weight	kg	160	160	200

Model		DeAir.RE-600	DeAir.RE-900	DeAir.RE-1200
Operating Temperature	°C	15-60	15-60	15-60
Dehumidification Capacity @30°C/70%	kg/day	600	900	1,200
Airflow	CMH	6,000	9,000	12,000
Noise Level	dBA	65	72	72
Refrigerant Type		R32 / R134A		
Refrigerant Charge	kg	4.3	6.4	8.6
Power Supply	V/Ph/Hz	380/3/50		
Power Consumption	kW	9.2	13.8	18.4
Dimensions (W x D x H)	mm	1,250x600x1,800	1,400x720x1,800	1,750x800x1,800
Weight	kg	250	450	500









*For dehumidifiers with a capacity of more than 150L/day, the duct length must be less than 5m.

* When operating in environments between 15-18°C must be equipped with an additional defrosting unit for optimal dehumidification.

* Noise level measured at a distance of 3m.

DeAir.RE dehumidifiers use **Heat-Pump technology**, outperforming conventional condensing units by reusing heat from the condensation process to reheat dehumidified air.

Advantages: energy savings, better low-temperature dehumidification, and minimal environmental temperature change.

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