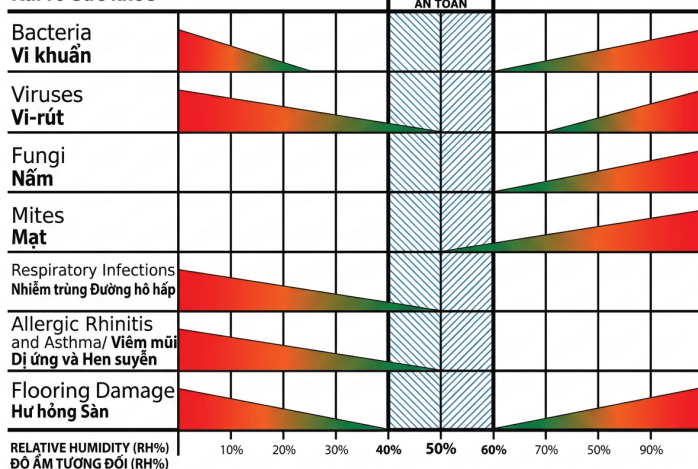




Heat-Pump DeAir Dehumidifier

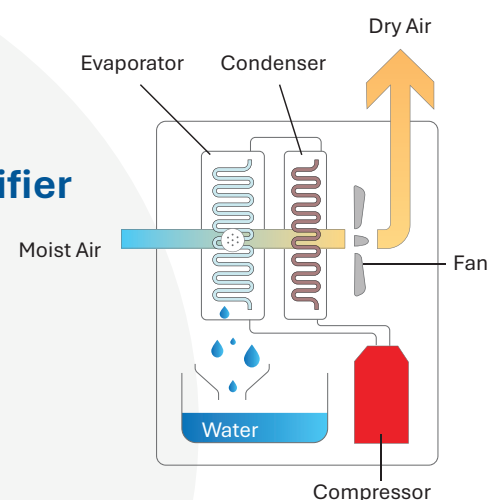
Health Risks Rủi ro Sức khỏe



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



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.



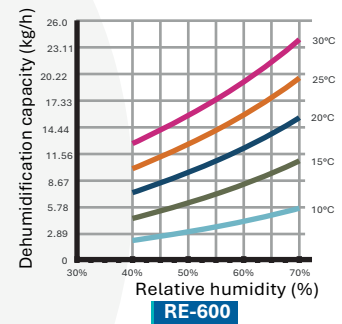
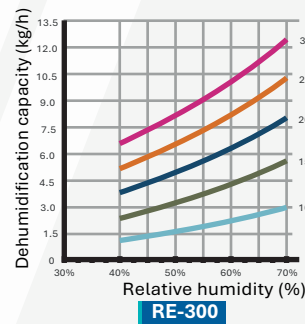
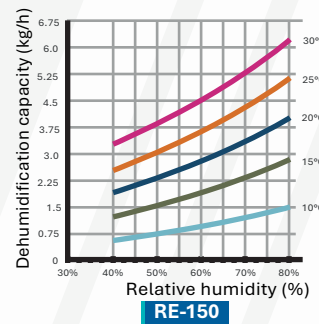
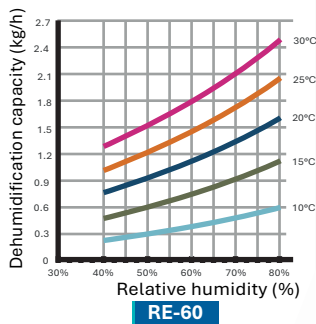
DeAir.RE Single-Phase Heat-Pump Dehumidifier



Model	Dehumidification Capacity
DeAir.RE-60	60 kg/day
DeAir.RE-100	100 kg/day
DeAir.RE-150	150 kg/day
DeAir.RE-300	300 kg/day
DeAir.RE-600	600 kg/day



Technical Specifications



Model		DeAir.RE-60	DeAir.RE-100	DeAir.RE-150	DeAir.RE-300	DeAir.RE-600
Operating Temperature	°C	15-40	15-40	15-40	15-60	15-60
Dehumidification Capacity @30°C/80%	kg/day	60	100	150	300	600
Airflow	CMH	400	1,200	1,500	3,000	6,000
Noise Level	dBA	55	55	55	59	65
Refrigerant Type		R410A				
Refrigerant Charge	kg	0.8	1.3	1.9	1.9	4.3
Power Supply	V/Ph/Hz	220/1/50				
Power Consumption	kW	0.86	1.5	1.5	4.6	9.2
Dimensions (W x D x H)	mm	390x335x680	690x530x985	690x530x985	780x480x1,650	1,250x600x1,800
Weight	kg	40	45	45	160	250

- * The nominal operating conditions for DeAir.RE-300 and DeAir.RE-600 are 30°C/70%.
- * For dehumidifiers with a capacity of less than 150L/day, the duct length must be less than 3m. For dehumidifiers with a capacity of more than 150L/day, the duct length must be less than 5m.
- * Industrial dehumidifiers 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.