DeAir.RE

DeAir.RE-H Heat-Pump Dryer

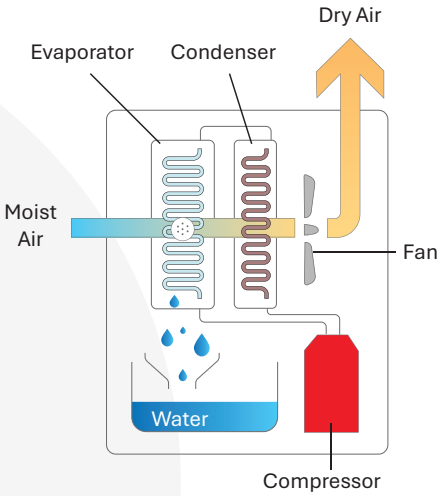


Impact of high humidity on production and preservation of goods:

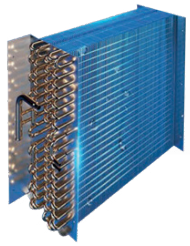
- In production: Reduced quality (mold, rust, deformation, slow drying), process interruption (electronic errors), increased costs (error handling, extended time).
- In storage: Damage to goods (bacteria, mold, insects), reduced storage time, affected packaging (mold, rot).

Operating principle of condensing dehumidifier

- First, the centrifugal fan draws humid air into the unit. At the evaporator coil, the air is cooled below its dew point, causing moisture to condense and drain away. The now-cooled air then passes through the condenser coil to be reheated. Finally, the warm, dry air exits, enters the target area, and continues the dehumidification cycle.
- For enhanced efficiency and durability, integrate the following: a pre-filter before the evaporator to clean the air and prevent clogging; a defrost function to remove frost buildup on the coil in low temperatures; and an automatic humidity controller to self-regulate the dehumidifier and maintain the desired humidity.



Key Components



Hydrophilic E-coated evaporator coil

40% faster and more efficient dehumidification



High-performance compressor

Features internal circuit breaker and high/low pressure protection



Airtight centrifugal fan

Smooth, quiet, high-performance operation



Custom PLC control screen

1. PLC Board
2. Wecon HMI (controllable via smartphone; requires Wi-Fi)
3. Power supply and accessories

Energy-Saving Heat-Pump Technology in DeAir Dehumidifiers

The **Heat-Pump technology** in DeAir.RE dehumidifiers is a significant advancement over conventional condensing dehumidifiers. Instead of simply cooling to condense moisture, **Heat-Pump technology** utilizes the heat generated during condensation to warm the air after it has been dehumidified. This offers several benefits:

- **Higher Energy Efficiency:** Reusing heat reduces electricity consumption compared to standard dehumidifiers.
- **Better Low-Temperature Performance:** Heat-Pump dehumidifiers maintain stable dehumidifying efficiency even in low ambient temperatures.
- **Less Cooling of Surroundings:** Because the discharged air is gently warmed.

DeAir Joint Stock Company
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DeAir.RE

DeAir.RE-H Heat-Pump Dryer

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

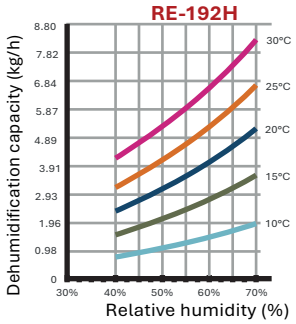
Product made in VIETNAM

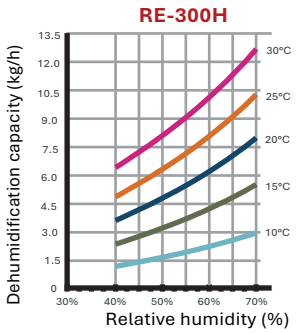


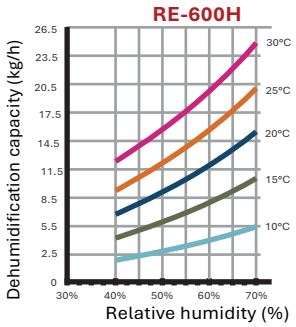
Technical Specifications

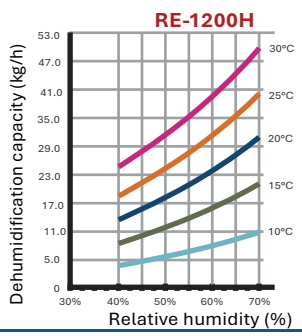
Model		DeAir.RE-192H	DeAir.RE-300H	DeAir.RE-500H
Operating Temperature	°C	15-60	15-60	15-60
Dehumidification Capacity @30°C/70%	kg/day	192	300	500
Airflow	CMH	2,500	3,000	4,500
Noise Level	dBA	59	59	65
Refrigerant Type		R410A/R32/R134A		
Refrigerant Charge	kg	1.9	1.9	3.2
Power Supply	V/Ph/Hz	380/3/50		
Power Consumption	kW	4.6	4.6	7.6
Power Consumption of Heater (Optional)	kW	4.5	4.5	8.4
Dimensions (W x D x H)	mm	780x480x1,650	780x480x1,650	1,250x600x1,800
Weight	kg	160	160	200

Model		DeAir.RE-600H	DeAir.RE-900H	DeAir.RE-1200H
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		R410A/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
Power Consumption of Heater (Optional)	kW	8.4	16.8	16.8
Dimensions (W x D x H)	mm	1,250x600x1,800	1,400x720x1,800	1,750x800x1,800
Weight	kg	250	450	500









DeAir.RE-H dryers feature **Heat-Pump technology**, which offers superior energy savings by reusing heat from the condensation process to reheat the dehumidified air. These dryers are ideal for **humidity control in high-temperature environments** or for **drying products that don't require complex drying process control**, such as garments.

* Noise level measured at a distance of 3m.

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