

HEAT-PUMP DEHUMIDIFIERS



RE-600



RE-300



RE-150



RE-60

The DeAir.RE heat-pump floor-standing packaged dehumidifiers comprise of five standard models: RE-60, RE-100, RE-150, RE-300, and RE-600. They are widely applied for various range of applications such as food and pharmaceutical processes, exact manufacturing, storage and warehouses, museums and archiving galleries, communications centres, high temperature drying rooms, etc.

Main components




E-Coating hydrophilic evaporator
40% more efficient and faster dehumidification



High-efficiency compressor
Completion with internal cut-outs and high-low pressure protection



Airtight centrifugal fan
Seamless working with low noise and high efficiency

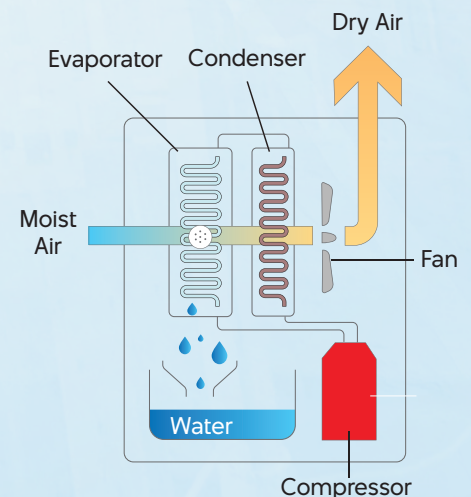


Humidity controller
Automatic and energy-saving operations

Working principles

The humid air is drawn by centrifugal fans through the evaporator (cooling coils), which cools it down below its dewpoints so that the moisture condenses into water to be drained away. Simultaneously, cooled air discharges into the condenser (hot coils) to reheat. Finally, warm and dry air is released to the controlled space and continues dehumidification process.

Moreover, the following additional components are integrated for actual use to enhance smooth operations and service life, namely: the *filter* installed in front of the evaporator cleans air and protects evaporator coil from clogging; the *defrost circuit* defrosts coil under the low-temperature conditions; and the *humidistat* automatically controls dehumidifier.



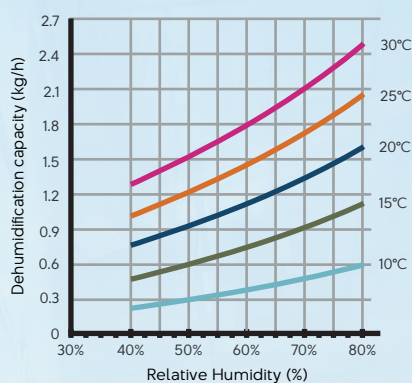
Pinpointing proper dehumidifier size

The proper selection of dehumidifier size aims to optimise performance of moisture removal in production. Initially, it is essential to estimate the moisture load (latent load) of the project. Then, design engineers can refer to the dehumidification charts which are illustrated on the right side to select the most suitable model based on room RH%.

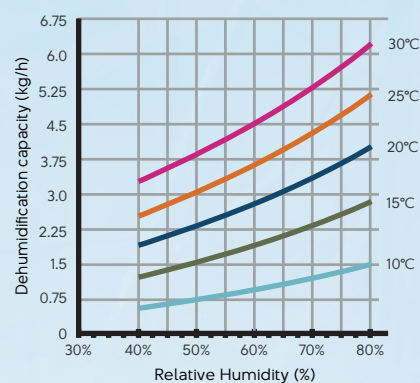
Besides, we also support you by providing the free computer-aided selection services directly or via our network of authorised representatives in your local area. Thus, feel free to contact your local distributors for assistance.

Why dehumidification?

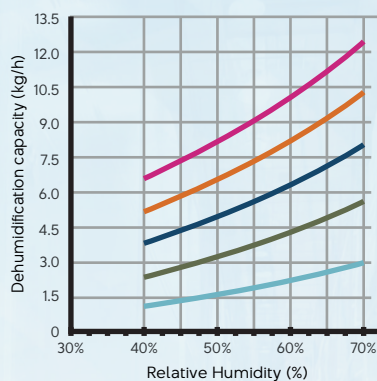
The removal of exceeded moisture level is crucial to mitigate negative effects of high relative humidity such as corrosion, product deterioration, growth of mold and mildew, condensation and dampness, recurrence of moisture, stagnation of manufacturing, prolonged drying, and labour discomfort.



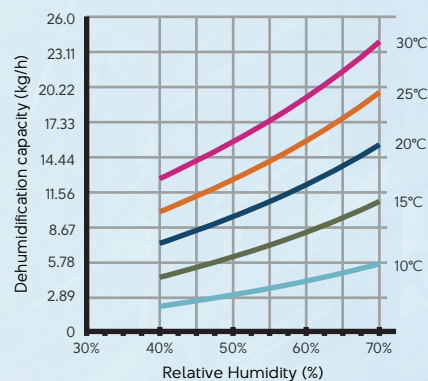
RE-60



RE-150



RE-300



RE-600

Specifications (220V/1Ph/50Hz)

Model	RE-60	RE-100	RE-150	RE-300	RE-600
Operating temperature range (°C)	5-60	5-60	5-60	5-60	5-60
Dehumidification capacity (kg/day) @30°C/80%	60	100	150	300*	600*
Airflow rate (CMH)	400	1,200	1,500	3,000	6,000
Noise (dBA)	55	55	55	59	65
Refrigerant	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (kg)	0.8	1.3	1.9	1.9	4.3
Power source (V/Ph/Hz)	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50
Power consumption (kW)	0.86	1.495	1.495	4.6	9.2
Width (mm)	390	690	690	780	1,250
Depth (mm)	335	530	530	480	600
Height (mm)	680	985	985	1,650	1,800
Weight (kg)	40	45	45	160	250

* The nominal conditions of the DeAir.RE-300 and DeAir.RE-600 maintain 30°C/70%.

 The special models must be used when:

1. Purposefully prevent products from mold/fungi damages and/or (with UV lamp - option)
2. Rooms with large width.

The information in this leaflet is subject to modify without prior notice

