

HEAT-PUMP DEHUMIDIFIERS



RE-1200



RE-600



RE-300

The DeAir.RE heat-pump standing packaged dehumidifiers consist of seven standard models, namely: RE-150, RE-192, RE-300, RE-500, RE-600, RE-900, and RE-1200. They can efficiently handle humidity and condensation problems at medium-size industrial ambience whose temperature ranges from 15°C to 40°C without resorting to multiple units. Likewise, their applications typify at warehouses, food and pharmaceutical factories, exact manufacturing plants, museums and galleries, and communication centres.

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



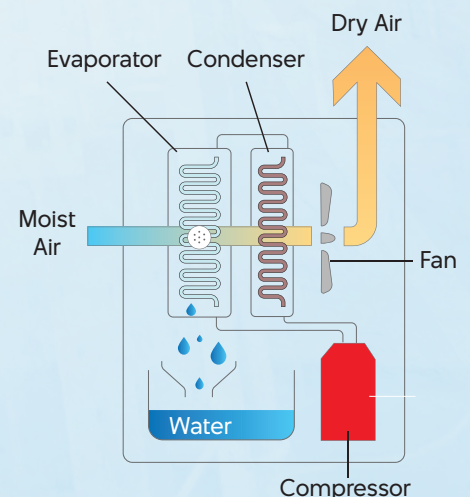
Humidity controller

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.



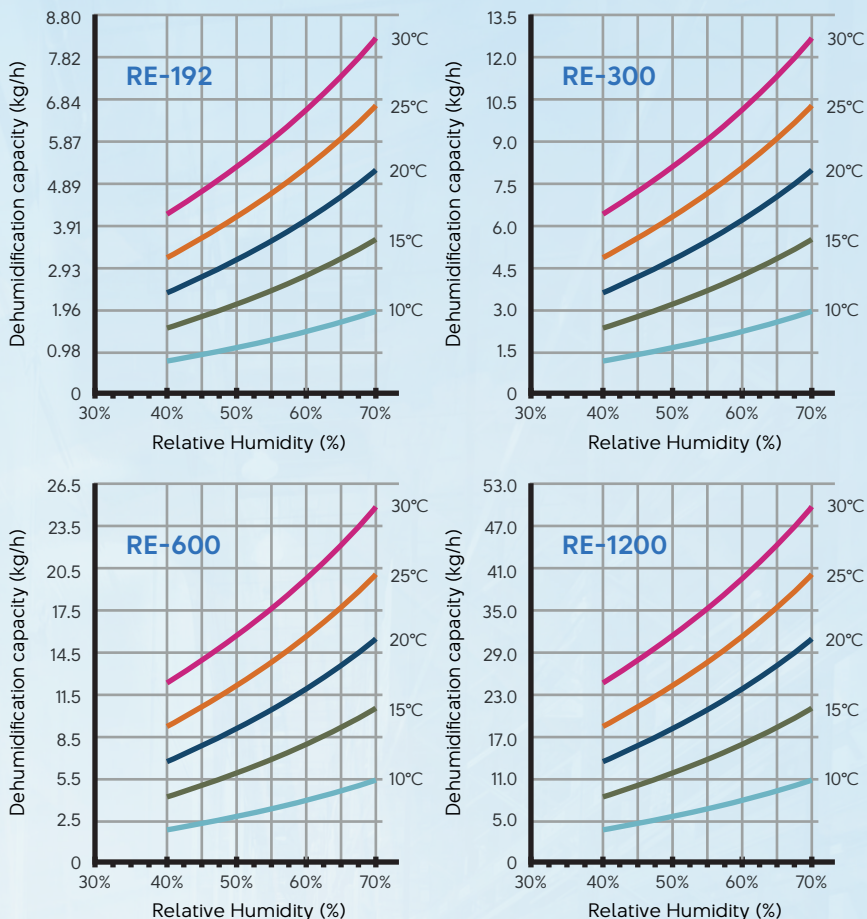
Pinpointing proper dehumidifier size

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.



Specifications (DeAir.RE series)

Model	RE-150	RE-192	RE-300	RE-500	RE-600	RE-900	RE-1200
Operating temperature range (°C)	5-60	5-60	5-60	5-60	5-60	5-60	5-60
Dehumidification capacity (kg/day) @30°C/70%	150*	192	300	500	600	900	1,200
Airflow rate (CMH)	1,500	2,500	3,000	4,500	6,000	9,000	12,000
Noise (dBA)	55	59	59	65	65	72	72
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (kg)	1.9	1.9	1.9	3.2	4.3	6.4	8.6
Power source (V/Ph/Hz)	220/1/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power consumption (kW)	1.495	4.6	4.6	7.6	9.2	13.8	18.4
Width (mm)	690	780	780	1,250	1,250	1,400	1,750
Depth (mm)	530	480	480	600	600	720	800
Height (mm)	985	1,650	1,650	1,800	1,800	1,800	1,800
Weight (kg)	45	160	160	200	250	450	500

* The nominal conditions of the DeAir.RE-150 maintain 30°C/80%.

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



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