

STAINLESS STEEL HEAT-PUMP DEHUMIDIFIERS



RE-150H



RE-300H



RE-600H

The serie of DeAir.RE heat-pump dehumidifiers with stainless steel case comprise three following models: RE-150H, RE-300H, and RE-600H. They are applied for various range of applications like salt production, food and pharmaceutical processing, industries with stringent hygiene and safety requirements, dusty and high-temperature environments, and so on.

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

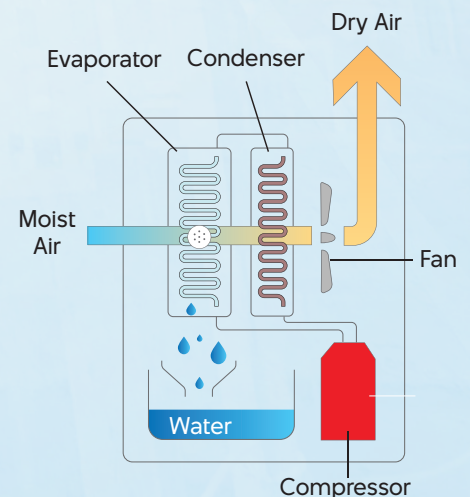


Humidity controller
Automatic and energy-saving operations

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.

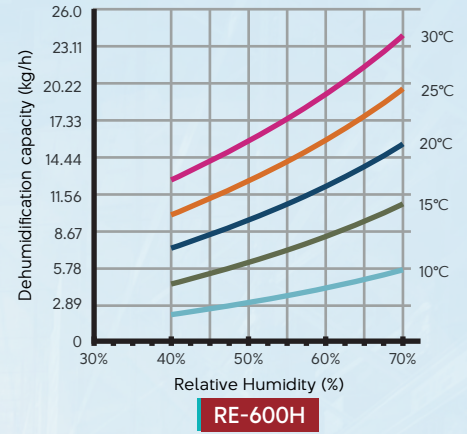
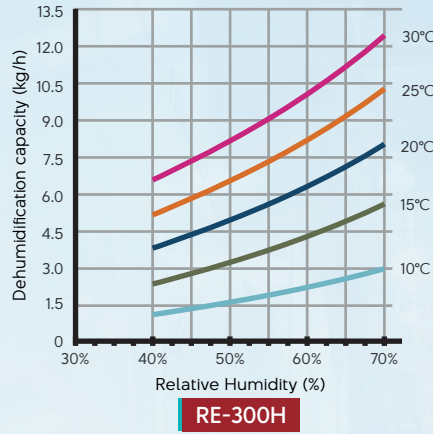
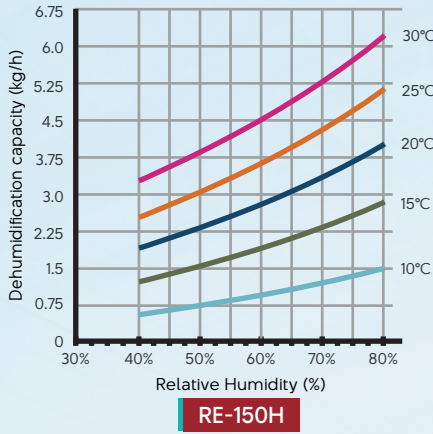
Moreover, the following additional components are integrated for actual use to enhance smooth operations and service life, namely: the *filter* installed in front of the evaporator cleans air and protects evaporator coil from clogging; the *defrost circuit* defrosts coil under the low-temperature conditions;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

Model	RE-150H	RE-300H	RE-600H
Operating temperature range (°C)	5-60		
Dehumidification capacity (kg/day) @30°C/70%	150*	300	600
Airflow rate (CMH)	1,500	3,000	6,000
Noise (dBA)	55	59	65
Refrigerant	R410A		
Refrigerant charge (kg)	1.9		4.3
Power source (V/Ph/Hz)	220/1/50	380/3/50	
Power consumption (kW)	1.495	4.6	9.2
Power consumption of heater (kW) - Optional	-	4.5	8.4
Width (mm)	460	780	1,250
Depth (mm)	405	480	600
Height (mm)	975	1,650	1,800
Weight (kg)	45	160	250

* DeAir.RE-150H does not have option with heater and its nominal condition 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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