

ISOTHERMAL CEILING-MOUNTED DEHUMIDIFIERS



Product description

The ceiling-mounted **DeAir.CRE** isothermal dehumidifiers, consisting of 5 models: CRE-60CL, CRE-100CL, CRE-150CL, CRE-300CL, and CRE-600CL, are produced by *DeAir Joint Stock Company*, and specifically designed to control humidity without increasing temperature. The inlet temperature remains the same as the outlet, and in some cases, it may even reduce by 2°C to 3°C.

The **DeAir.CRE** is engineered to maintain humidity levels ($\geq 40\%$) while removing the heat generated during the dehumidification process, ensuring maximum efficiency and energy savings. DeAir offers a wide range of dehumidifiers for various industrial applications. For further information or assistance with the **DeAir.CRE**, please contact your nearest DeAir office or authorised agents.

Isothermal dehumidifiers are commonly used to replace conventional units in temperature-controlled environments. As the **DeAir.CRE** does not raise room temperature, there is no need to supplement the air conditioner's cooling capacity. This makes the machine ideal for industries such as pharmaceuticals, electronics, food processing, confectionery, and textiles, both in new or upgraded facilities.

Air supplied to the **DeAir.CRE** unit should not pass through environments containing solvents, explosive materials, or chemical contaminants (e.g., acids, bases). To ensure proper functioning, all contaminants must be avoided, and additional filtration systems should be installed where necessary.

The **DeAir.CRE** isothermal dehumidifier is designed for indoor installation. If installed outdoors, it must be sheltered by a roof to protect the unit from rainwater damage.

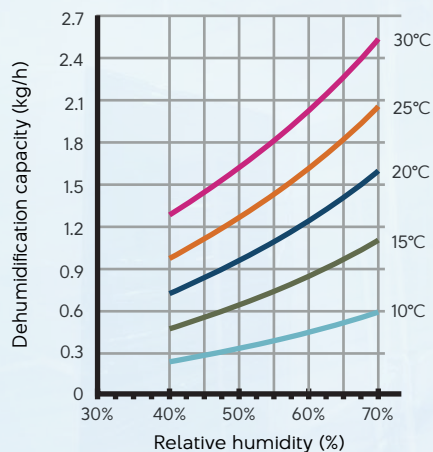


Specifications (ceiling-mounted DeAir.CRE)

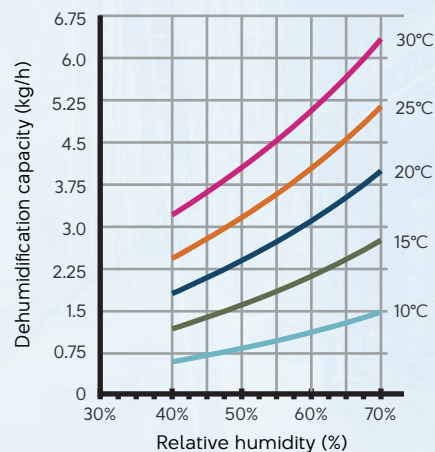
| Model | CRE-60CL | CRE-100CL | CRE-150CL | CRE-300CL | CRE-600CL |
|--|-------------|-------------|-----------|-----------------|-----------------|
| Operating temperature range (°C) | 5-40 | | | | |
| Dehumidification capacity (kg/day) @30°C/80% | 60 | 100 | 150 | 300* | 600* |
| Airflow rate (CMH) | 400 | 1,200 | 1,500 | 3,000 | 6,000 |
| Noise (dBA) | 55 | 57 | | 59 | 65 |
| Refrigerant | R410A | | | | |
| Refrigerant charge (kg) | 0.8 | 1.3 | 1.4 | 1.9 | 4.3 |
| Power source (V/Ph/Hz) | 220/1/50 | | | 380/3/50 | |
| Power consumption (kW) | 0.86 | 1.65 | 1.73 | 5.85 | 9.0 |
| External static pressure (Pa) | 200 | | | | |
| Dehumidifier dimension (WxDxH) (mm) | 850x440x400 | 985x575x600 | | 1,100x900x700 | 1,280x1,100x700 |
| Heat exchange dimension (WxDxH) (mm) | 440x330x440 | 480x430x480 | | 1,015x580x1,015 | 1,250x830x1,250 |
| Dehumidifier net weight (kg) | 31 | 51 | 61 | 150 | 200 |
| Heat exchange net weight (kg) | 20 | 25 | 27 | 70 | 100 |

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

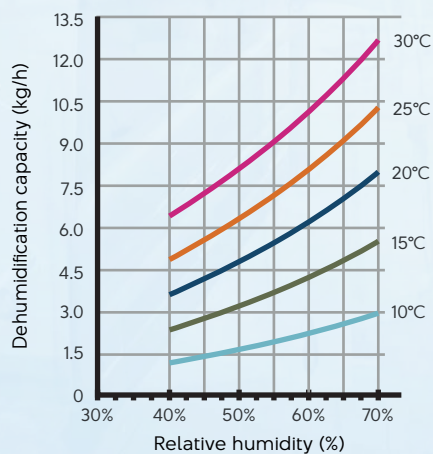
Dehumidification charts



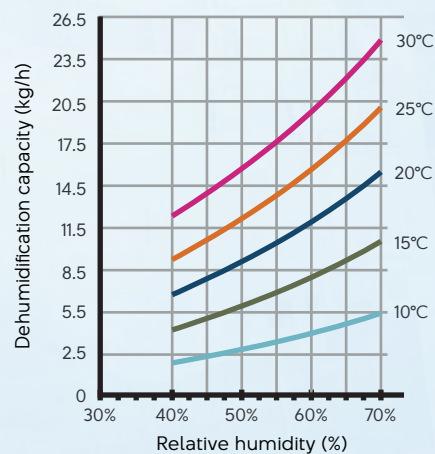
CRE-60CL



CRE-150CL



CRE-300CL



CRE-100CL

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



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