

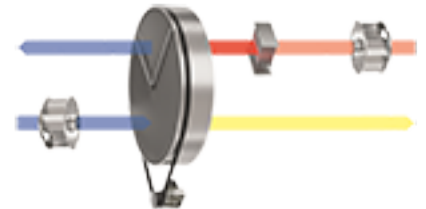
Capacity calculation program

Company name: Condair
Contact person: Arthur Jäger
Project name:
Dehumidifier model: DA 1000



Technical data

Nominal dry air flow: 1000.0 m³/h
Nominal wet air flow: 350.0 m³/h
Power supply: 11 kW
Reactivation heating power: 10.2 kW
Weight: 190 kg
Max noise level: 71 dB(A)
Dimensions (L x W x H): 1284 x 992 x 910 mm



Calculation result

Process air inlet:

Process air flow: 1000.0 m³/h
Temperature: 35.0 °C
Absolute humidity: 14.3 g/kg
Relative humidity: 40 %RH
Dew point: 20 °C

Dry air outlet:

Temperature: 54.8 °C
Absolute humidity: 8.809 g/kg
Relative humidity: 9 %RH
Dew point: 12 °C
Capacity: 6.59 kg/h
Sensible heat load: 6.6 kW
Latent heat load: -4.6 kW
Total heat load: 2 kW

Reactivation air inlet:

Reactivation air flow: 350.0 m³/h
Temperature: 27.0 °C
Absolute humidity: 14.3 g/kg
Relative humidity: 64 %RH
Dew point: 20 °C

Wet air outlet:

Temperature: 65.4 °C
Absolute humidity: 30.155 g/kg
Relative humidity: 18 %RH
Dew point: 32 °C

Calculation-based heating

Reactivation heating 10.2 kW

* Please allow proper safety factors suitable for each application.
* If the absolute humidity in the dry air outlet is lower than 0,25 g/kg, please contact us for further advice.

Condair

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