

**COTES**

# Cotes Wind CR400BW



Experts  
in humidity  
management

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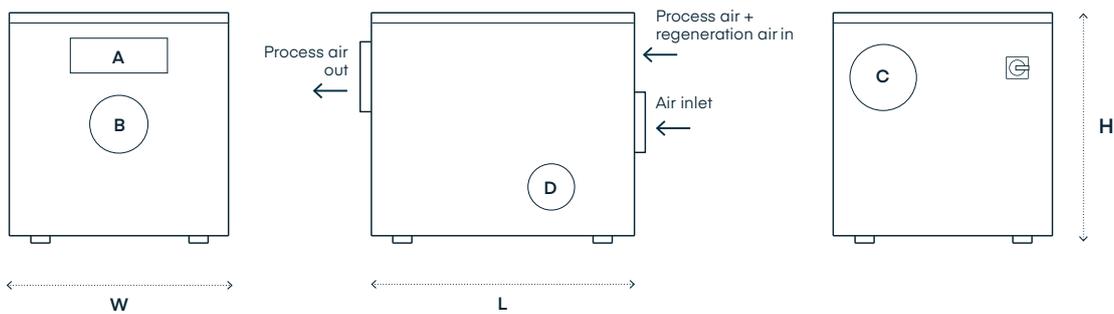
## Where they're used

The reliability and cost-effectiveness of Cotes Wind CR400BW dehumidifiers makes them ideal for use during the transport of particularly large wind turbine components in places where airborne salts are a particular challenge, whether by road, rail or ship. This can be on routes and at sites close to the coast or other large expanses of water, during ship-borne transport or when delivering offshore wind turbine parts.

The dehumidifiers can also remain in place and continue operating during storage, to make sure nacelles, towers and blades remain in peak condition so there are no delays or added costs during assembly, erection and commissioning.

CR400BW units can be combined with smaller CR80B units to meet specific air flow requirements.

They can also be used to provide additional capacity to supplement Cotes Wind CWO dehumidifiers in offshore wind turbines.



Technical data							
Model	Dry air nominal	Regeneration air nominal	Voltage/Phases	Regeneration air heater	External fuses (max)	External pressure dry air	Capacity*
	m <sup>3</sup> /hour	m <sup>3</sup> /hour		kW	A	Pa	kg/hour
CR 400 BW	400	60	230V (PH+N+PE)	2.00	10	50	150

Dimensions and weight							
	L	W	H	Air Inlet (A+B)	Dry air outlet (C)	Reg. air outlet (D)	Weight
	mm	mm	mm	Ø mm	Ø mm	Ø mm	kg
CR 400 BW	595	402	427	80	120	80	32

\* At 60% relative humidity and 20°C. Exact temperature range may be limited depending on specific requirements with regard to final humidity in the wind turbine.

# Cotes Wind CR400BW



Cotes Wind CR400BW adsorption dehumidifiers are designed for use in the the largest wind turbines on the market. They provide flows of air amounting to 400 cubic metres of dry, salt-free air every hour. This makes sure wind turbine nacelles, towers and blades are in the best possible condition when they get to their assembly and erection destinations.

Wind CR400BW dehumidifiers are fitted with special filters that use industry-standard F7 filter cassettes that do not get blocked by the wet, salt-laden air prevalent in coastal, near-coastal or offshore conditions. These filter cassettes are easily available all over the world, and have an exceptionally long service life, configured to match the service intervals for the wind turbines themselves.

These mid-size units provide sufficient dry, salt-free air to deal with humidity management requirements during the transport of the increasingly large wind turbines currently being introduced and on the drawing board.

## Filtering out the salt

The general design of Cotes Wind dehumidifiers is based on the fact that any salts present in air with a relative humidity of less than 70% occur in the form of crystals.

Using appropriate filters, these crystals can be captured and removed. This usually almost totally eliminates the corrosive impact that the combination of airborne moisture and salts has on wind turbine towers and nacelles and all the equipment, structures and fittings inside them.

## CR400BW Highlights

- \* Powerful, mid-range design that provides 400m<sup>3</sup> of dry, salt-free air per hour
- \* Fitted with specialist filter cassette to remove airborne salts
- \* Uncomplicated, reliable and service-friendly
- \* Moisture-absorbent, washable rotor for easy servicing and long service life
- \* Single-phase 230V AC power supply that can be plugged in virtually anywhere

## Conditions tracking and control

DR10 mechanical hygrometers and other specialist sensors are often used with larger Cotes Wind dehumidifier systems. We also provide special controller units for installation in CR400BW dehumidifiers.

These turn these dehumidifiers on and off automatically in order to maintain any designated relative humidity set point needed to deal with specific conditions inside each wind turbine.

Wind energy plays a major role in the necessary transition to a responsible post-carbon world economy.

We apply Cotes humidity management technology and know-how to help manufacturers, operators and owners eliminate key practical challenges to the take-up of wind energy — via greater efficiency, better safety, lower cost and improved reliability.

Put our  
expertise  
to your  
advantage

We're here to help. The first step is contact.

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