

COTES

Cotes Wind CR240BW



Experts
in humidity
management

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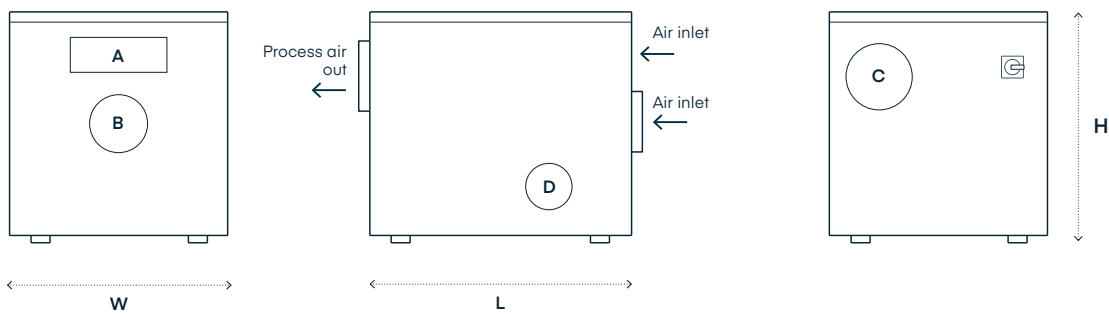
Where they're used

The reliability and cost-effectiveness of Cotes Wind CR240BW dehumidifiers makes them ideal for use during the transport of larger wind turbine components in places where airborne salts are a particular challenge. 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 the nacelles, towers and blades remain in peak condition so there are no delays or

added costs during assembly, erection and commissioning. CR240BW 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 windturbines.



Technical data							
Model	Dry air nominal	Regeneration air nominal	Voltage/Phases	Regeneration air heater	External fuses max	External pressure dry air	Capacity*
	m ³ /hour	m ³ /hour		kW	A	Pa	kg/hour
CR240 BW	240	40	230 V (PH+N+PE)	1.0	10	50	0.80

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
CR240 BW	505	330	360	63	100	80	23

* 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 CR240BW



Cotes Wind CR240BW units are mid-upper scale adsorption dehumidifiers, designed to provide a flow of 240 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, whether transported by road, rail or ship.

Wind CR240BW 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 have an exceptionally long service life, configured to match service intervals for the wind turbines themselves. They are easily available all over the world.

These mid-size dehumidifiers provide sufficient dry, salt-free air to deal with humidity management requirements during the transport and storage of most normal-sized wind turbines on the market.

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% are in the form of crystals, which can then be captured and removed using appropriate filters.

This significantly reduces the negative impact of the salts on the dehumidifier itself as well as on the wind turbine tower and nacelle.

CR240BW Highlights

- * Powerful, mid-range design that provides 240m³ 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 these larger Cotes Wind dehumidifier systems. We provide special controller units for installation in CR240BW 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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