

COTES

Cotes Wind CR80 B range



Experts
in humidity
management

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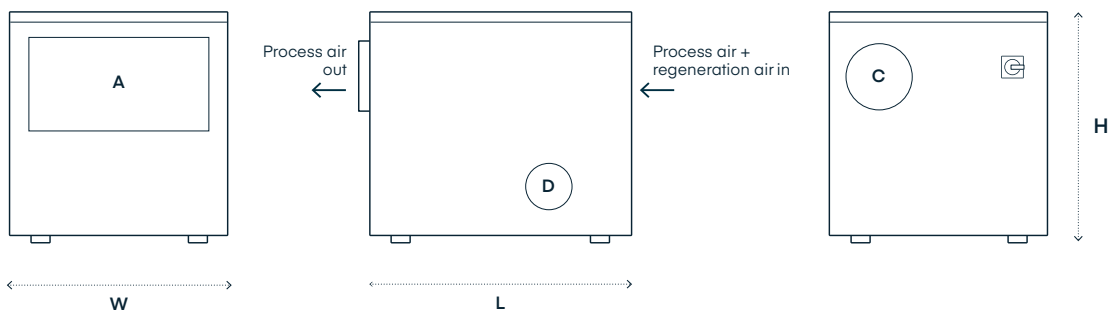
Where they're used

Their small size, light weight and general robustness makes CR80B dehumidifiers ideal for use during the transport of 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 remain in place and continue operating during storage, to make sure nacelles, towers and blades remain in the condition essential to prevent delays or added costs.

CR80B units 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 ³ /hour	m ³ /hour		kW	A	Pa	kg/hour
CR80B	80	40	230 V (PH+N+PE)	0.77	10	50	0.44
CR80B-FC	80	40	230 V (PH+N+PE)	0.77	10	50	0.44
CR80B-FCS	80	40	230 V (PH+N+PE)	0.77	10	50	0.44

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/hour
CR80B	385	313	293		80	50	15
CR80B-FC	422	313	293		80	50	15
CR80B-FCS	494	313	293	80	80	50	16

* 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 CR80B range



Cotes Wind CR80B adsorption dehumidifiers are compact, lightweight (15–16 kg) units. They are mostly used during the transport of wind turbine nacelles, towers and blades, and during their storage prior to erection. The aim is to ensure that these components are in the best possible condition when they get to their destinations, whether transported by road, rail or ship.

They can also be fitted with special filters that do not get blocked by the wet, salt-laden air prevalent in coastal, near-coastal or offshore conditions. Industry-standard G4 or F7 filter cassettes are used. These are easily available all over the world.

These units are in widespread use throughout the world, and have sufficient capacity to deal with humidity management requirements during the transport of most current normal-sized wind turbines.

The large filters and/or filter cassettes have an exceptionally long service life, configured to match the service intervals for the wind turbines themselves.

Cotes Wind CR80B models available

CR80B Fitted with a large normal filter, operating below atmospheric pressure in the tower or nacelle

CR80B-FC Fitted with a special filter cassette, operating below atmospheric pressure

CR80B-FCS Fitted with a filter cassette specially designed for preventing the ingress of airborne salts, operating at, below or above atmospheric pressure

CR80B range highlights

- * Compact, lightweight design that can be mounted just about anywhere
- * Can be fitted with different filter cassette arrangements to remove airborne salts
- * Uncomplicated, reliable and service-friendly
- * High-efficiency washable moisture-absorbent rotor for easy servicing and long service life
- * Single-phase power supply, 230V AC for easy power connection

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.

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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