

COTES DEHUMIDIFYING SOLUTIONS

COTES FLEXIBLE

CRP/CRT

COTES

Dry air makers

DEHUMIDIFICATION THE WAY YOU WANT IT



COTES.COM



BENEFIT

- ENERGY EFFICIENT
- MOST EFFECTIVE ROTOR
- KEY COMPONENTS STANDARDISED FOR EASY SERVICE
- SMOOTH SURFACES / EASY CLEANING
- VERY LOW SOUND LEVELS

OPTIONAL EQUIPMENT

- PRE-COOLING AND POST-COOLING
- PRE-HEATING AND POST-HEATING
- STANDARDISED CONTROL AND MONITORING SYSTEMS
- STANDARDISED FILTER CONFIGURATIONS

ANCILLARY EQUIPMENT

- HYGROMETERS
- SENSORS
- CUSTOMISED CONTROL, MONITORING AND WARNING SYSTEMS
- FILTERS WITH PARTICULAR SPECIFICATIONS

DEHUMIDIFICATION THE WAY YOU WANT IT

Cotes Flexible is the top-of-the-line Cotes dehumidifier range, with standard air volume capacities from 2,000 m³/hour to approx. 40,000 m³/hour. Larger customised models are available by request.

Cotes Flexible dehumidifiers are designed for large-scale humidity management in conjunction with process drying – where effectiveness, versatility and reliability are crucial, and where either deep drying (high ΔX) and exceptionally dry air – or exceptional volumes of process air – are often required.

MORE INFORMATION AT COTES.COM

COTES FLEXIBLE

CRP/CRT

Designed for flexibility

This special range of Cotes adsorption dehumidifiers is designed so you can easily specify the exact configuration you need for your particular installation and your precise air flow requirements.

Cotes Flexible units enable you to install world-class dehumidification capabilities – exactly as you want them. You can choose precisely the air flow or moisture removal capacity you need, based on cost-saving, pre-defined modular configurations.

Designed to give you full control over air conditions

Cotes Flexible units are ideal for managing levels of humidity inside large spaces where it's important to control the levels of moisture in the air, and for use in industrial and manufacturing processes that require a steady, reliable flow of dry air with a low dew point.

You can add modular fans and pre-cooling and/or post-cooling equipment to tackle particular requirements about air flow and air moisture levels. Variable-speed fans are available to make it easy to adapt to fluctuations in requirements.

You can also specify a range of control, monitoring and warning options, so you can integrate your dehumidification systems with other PLC and web-based plant control set-ups.

Designed for efficiency

The inside of the cabinets are designed to ensure the unhindered, energy-efficient passage of air through the unit, as well as good hygiene, low noise and minimal vibration. All fans and other equipment that generate vibration and noise are placed inside the unit, which can be insulated and soundproofed as you require.

Designed for cleanliness and good hygiene

Cotes Flexible cabinets and panels are designed for smoothness and ease of cleaning, making them ideal for use in the food industry and in pharmaceutical production, where hygiene requirements are particularly stringent.

All outer panels are made of AISI 304 stainless steel and internal panels are made of galvanised steel as standard, with other materials and finishes available by special request.

Cost-effective energy inputs

An advantage of Cotes Flexible dehumidifiers is that you can use virtually any kind of thermal input to remove moisture from the rotor. These can include electricity, gas, steam, district heating, recovered thermal energy and waste heat.

This energy optimisation paves the way to big savings on energy bills, as well as giving you the freedom to switch energy source if and when cost profiles change.

Ideal for customisation

The Cotes Flexible configuration is designed to be easy to integrate with a wide range of heaters, cooling systems, fans and other equipment.

This boosts the dehumidifier's capabilities and usefulness for each individual customer, and makes it easy to customise Cotes Flexible units to your specific requirements and priorities.

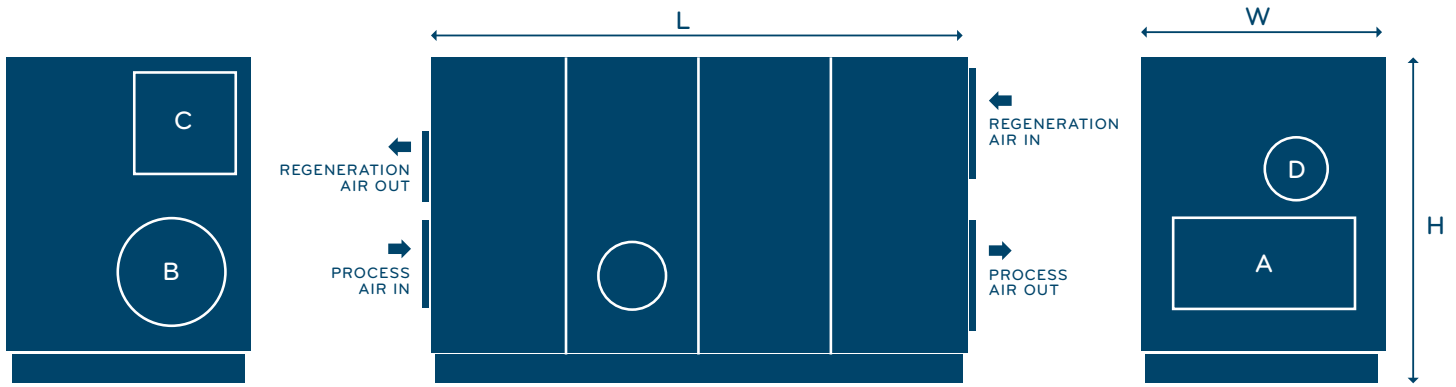
Durable, low-maintenance solution

Both the cabinet and all components are designed to be robust and reliable, to make sure of a long service life and the best possible return on investment.

Large doors and panels provide rapid, easy access, and all filters are easy to get at and easy to change quickly.

All key components are standardised, easily available units that keep service and maintenance easy and inexpensive.

COTES FLEXIBLE – TECHNICAL SPECIFICATIONS



CAPACITIES

STANDARD CONFIGURATION	PROCESS AIR / M ³ /HOUR	REGENERATION AIR / M ³ /HOUR	VOLTAGE / PHASES	CONNECTED LOAD / KW	REGENERATION AIR HEATER / KW	CAPACITY / KG/HOUR
CRP 2000 / CRT 3000	2000 / 3000	720	400 /3Ph+PE	25	22	14.6 / 16.6
CRP 4000 / CRT 6000	4000 / 6000	1400	400 /3Ph+PE	50	45	28.8 / 32.4
CRP 6000 / CRT 9000	6000 / 9000	1900	400 /3Ph+PE	67	59	40.3 / 44.3
CRP 8000	8000	2600	400 /3Ph+PE	92	84	54.7
CRT 12000	12000	2600	400 /3Ph+PE	94	84	62.6
CRP 12000	12000	4000	400 /3Ph+PE	149	135	92.2
CRT 18000	18000	4000	400 /3Ph+PE	149	135	97.2
CRP 18000	18000	5700	400 /3Ph+PE	199	180	127.5
CRT 25000	25000	5700	400 /3Ph+PE	199	180	132.5
CRP 25000	25000	8000	400 /3Ph+PE	279	255	181.5
CRP 30000	30000	9800	400 /3Ph+PE	348	315	220.0
CRP 40000	40000	12600	400 /3Ph+PE	as specified	as specified	294.0

Larger capacities and other specifications by agreement, to meet customer requirements

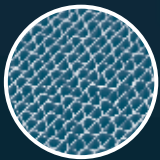
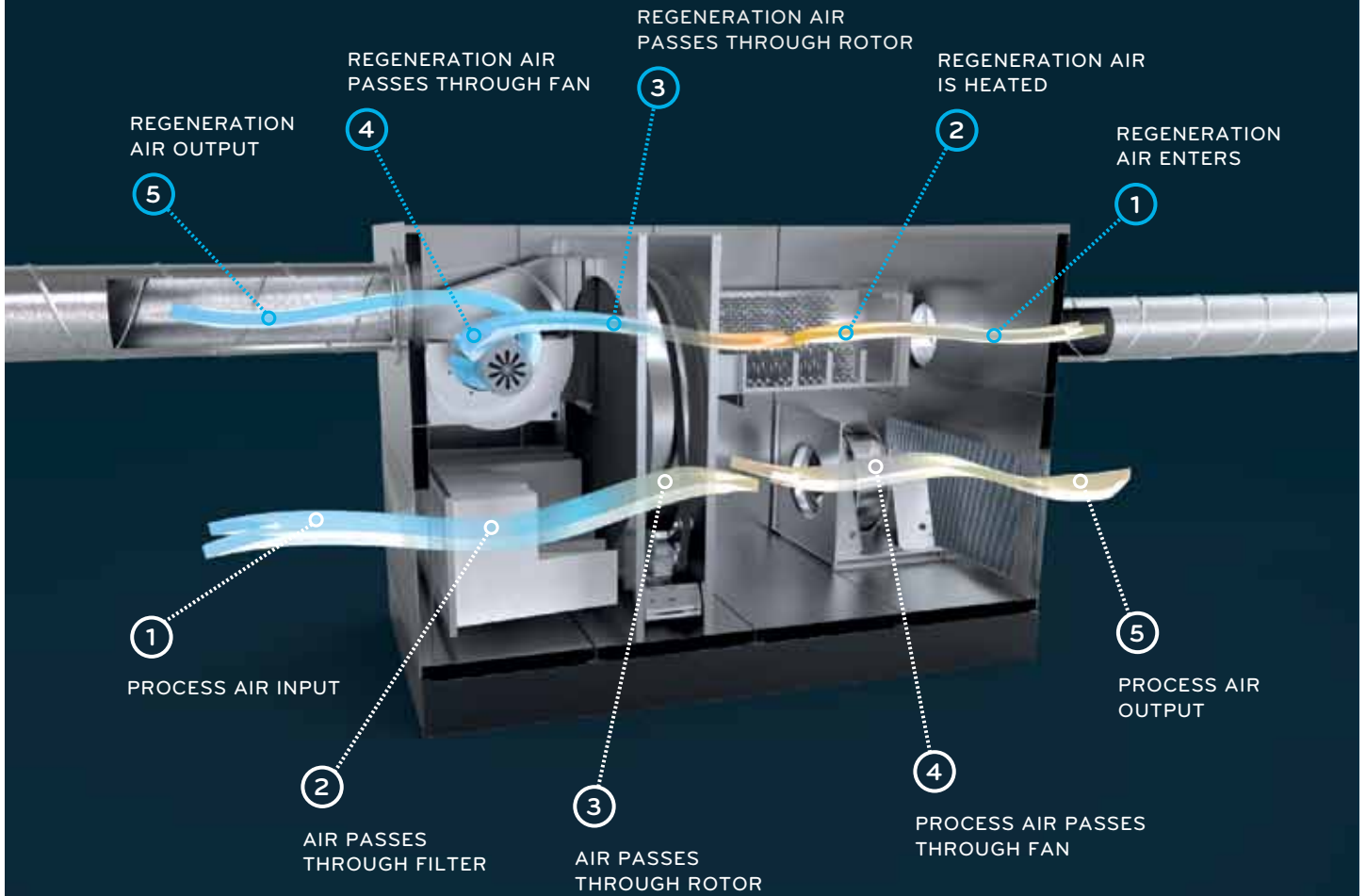
MEASUREMENTS

STANDARD CONFIGURATION	L LENGTH (MM)	W WIDTH (MM)	H HEIGHT (MM)	A PROCESS AIR INLET (MM)	B PROCESS AIR OUTLET (MM)	C REGENERATION AIR INLET (MM)	D REGENERATION AIR OUTLET (MM)	ROTOR (MM)	WEIGHT (KG)
CRP 2000 / CRT 3000	2410	1110	1480	500 x 500	ø 315	400 x 400	ø 200	ø 650 x 200	700
CRP 4000 / CRT 6000	2410	1110	1480	800 x 400	ø 500	500 x 500	ø 315	ø 850 x 200	800
CRP 6000 / CRT 9000	2410	1410	1780	1000 x 500	ø 630	600 x 600	ø 315	ø 1050 x 200	1000
CRP 8000	3010	1710	2030	1000 x 500	ø 630	600 x 600	ø 315	ø 1250 x 200	1300
CRT 12000	3010	1710	2030	1000 x 600	ø 800	600 x 600	ø 315	ø 1250 x 200	1400
CRP 12000	3010	1710	2030	1000 x 600	ø 800	600 x 600	ø 400	ø 1250 x 400	1500
CRT 18000	3010	2110	2230	1500 x 800	ø 800	600 x 600	ø 400	ø 1500 x 200	1950
CRP 18000	3010	2110	2230	1500 x 800	ø 800	600 x 600	ø 400	ø 1500 x 400	2100
CRT 25000	3010	2410	2530	1500 x 900	ø 1000	650 x 650	ø 400	ø 1800 x 200	2500
CRP 25000	3010	2410	2530	1500 x 900	ø 1000	800 x 800	ø 630	ø 1800 x 400	2700
CRP 30000	3010	2710	2530	2000 x 800	ø 1250	800 x 800	ø 630	ø 1940 x 400	3300
CRP 40000	3010	2710	2780	2000 x 800	ø 1250	800 x 800	ø 630	ø 2190 x 400	3700

All information is provisional, depending on exact specifications and equipment ordered, and is subject to change without further notice

HOW IT WORKS

- ① – ⑤ PROCESS AIR FLOW
- ① – ⑤ REGENERATION AIR FLOW



ROTOR AND SILICA GEL

Fibreglass rotor coated with silica gel.

1g of silica gel has a hygroscopic surface area of approx. 800 square metres.

9g of silica gel has a hygroscopic surface area corresponding to 1 football pitch.

MAXIMUM FLEXIBILITY

Standardised, modular configurations designed for the easy integration of a wide range of heaters, cooling systems, fans, filters, etc.

Any kind of thermal input can be used – electricity, gas, steam, district heating, recovered thermal energy, waste heat, etc.

DESIGN FEATURES AND BENEFITS

Cotes Flexible units are easily tailored to specific customer requirements and to very different challenges and conditions.

These are some of the main advantages, and how you benefit from them.

FLEXIBILITY, INTEGRATION AND CUSTOMISATION OPTIONS	
FEATURES	HOW YOU BENEFIT
Modular design prepared for installation of a wide range of heaters, cooling systems, fans filters, control options, etc.	<ul style="list-style-type: none"> > Rational, cost-effective dehumidification installations. > Maximum reliability due to use of well-integrated pre-tested components.
Designed for compatibility with modern PLC and web-based control, warning and monitoring systems.	<ul style="list-style-type: none"> > Easy to control and monitor from virtually anywhere, with a minimum of manpower requirements.
Compatible with all standard electrical voltages and frequencies (110V/230V/400V and 50Hz/60Hz).	<ul style="list-style-type: none"> > No need for special equipment, connectors, etc. This results in savings on installation costs as well as more rapid, glitch-free commissioning.

DURABILITY, RELIABILITY AND EASY MAINTENANCE	
FEATURES	HOW YOU BENEFIT
Robust structure.	<ul style="list-style-type: none"> > Able to withstand tough treatment and harsh operating environments. > Longer service life and a better return on your investment.
All key components are standardised units easily available throughout the world.	<ul style="list-style-type: none"> > Easy service and no downtime and delays waiting for spare parts. > Big savings on maintenance and service work.
Large doors and panels ensure rapid, easy access for service staff.	<ul style="list-style-type: none"> > Less downtime during service, resulting in greater operating efficiency. > Savings on maintenance and service work.
Filters are easy to get at, and quick to change.	<ul style="list-style-type: none"> > Greater operating efficiency. > Savings on maintenance and service work.

ENERGY EFFICIENCY AND CONNECTIVITY

FEATURES	HOW YOU BENEFIT
Most effective rotor currently available anywhere in the world.	<ul style="list-style-type: none"> > Opportunities for recovering costly energy. > Savings on energy bills. > Improved environmental footprint.
Any kind of thermal input can be used – electricity, gas, steam, district heating, recovered thermal energy, waste heat, etc.	<ul style="list-style-type: none"> > Significant savings on energy bills. > Freedom to switch energy source if cost profiles change.
Thermal recovery installations can be fitted.	<ul style="list-style-type: none"> > Opportunities for recovering costly energy. > Savings on energy bills. > Improved environmental footprint.
Variable-speed fans can be fitted.	<ul style="list-style-type: none"> > Makes it easier to deal with fluctuating conditions, optimises air flow and keeps energy consumption to a minimum.

CABINET AND DESIGN

FEATURES	HOW YOU BENEFIT
Eye-catching industrial design	<ul style="list-style-type: none"> > Attractively designed unit that stands out from the crowd, and can be mounted in highly visible positions.
Rotor inspection window.	<ul style="list-style-type: none"> > Easy to check that the rotor is in prime condition and working exactly as intended.
Outer surfaces available with materials, and finishes as required.	<ul style="list-style-type: none"> > Makes it easy to match brand identities and surrounding decor so that the unit blends in attractively.
Cabinets and panels are designed for smoothness, ease of cleaning and good hygiene.	<ul style="list-style-type: none"> > Ideal for use in the food industry and in pharmaceutical production, where hygiene requirements are particularly stringent.

SOUNDPROOFING AND VIBRATION DAMPENING

FEATURES	HOW YOU BENEFIT
All fans can be mounted inside the cabinet.	<ul style="list-style-type: none"> > This keeps sound levels down, and means you can mount Cotes Flexible units virtually anywhere – even places with public access, etc.
Straight, unhindered passage of air through the unit.	<ul style="list-style-type: none"> > Reduces energy consumption, pressure losses and noise.
Easy to mount additional insulation and noise suppression equipment.	<ul style="list-style-type: none"> > Sound levels can be tailored to specific project requirements, and can be as low as 60 dB.

TALK TO US ABOUT WHAT'S POSSIBLE

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