

COTES ALL-ROUND

THE C65 RANGE



COTES
THE RIGHT WAY TO DRY

MORE THAN JUST A SHINY BOX ...

IDEAL FOR USE IN

- Food industry processing
- Pharmaceutical production
- Cold stores/freezer facilities
- Waterworks
- General humidity management in all kinds of indoor spaces

ADVANTAGES

- Accurate, software-driven monitoring and control
- Exceptionally low energy consumption
- Low-noise operation
- Better monitoring of service intervals
- Standardized heating and cooling modules
- Exceptional build quality
- Complies with ErP Directive 2015

BENEFITS

- More cost-effective management of air humidity
- Accurate control of all aspects of ingoing and outgoing air flows
- Low operating costs
- Long service life and low maintenance /repair costs
- Easy, rapid servicing
- Easy to clean and keep clean
- Can be placed even in highly visible public places
- Easy to install in small spaces and crowded locations

OPTIONAL EQUIPMENT

- Post-heating module
- Pre-cooling and post-cooling modules
- Additional ways to heat the regeneration air including, Steam heating or EW (a combination of Electrical and Hot Water)
- Extra insulation of the cabinet
- Additional temperature and humidity sensors
- Software upgrade to unlock the Deep Drying feature.

ESTABLISHING THE RIGHT DRY-AIR STRATEGY

FLEXIBILITY AND ENERGY EFFICIENCY

Cotes All-Round C65 is an innovative range of elegant, versatile dehumidifiers, with moisture removal capacities of 7-19 kg per hour

Modular configurations

The sleek stainless steel cabinet, featuring the best of modern industrial design, makes Cotes All-Round dehumidifiers ideal for installation even in highly visible public locations. The C65 dehumidifier uses standardized modular configurations so you can easily select the needed capacity, heating source, cooling systems, sensors, and control set-up you need for your particular operating circumstances. Cotes All-Round units also feature built-in electronic monitoring and control capabilities that make it easy to customise the dehumidifier to your exact operating requirements and priorities.

Where they're used

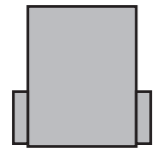
Cotes All-Round C65 units are ideal for controlling air conditions where either temperature and air flow are crucial, or where the focus is on temperature, air flow and relative humidity. They are approved for use in facilities with stringent hygiene requirements, including food processing and pharmaceutical production.

Choice of dehumidification priorities

Cotes All-Round dehumidifiers are designed for three main types of use. C65C (Coldstore) units are specifically designed for humidity management in low temperature cold store spaces. C65E units are specially configured for effective humidity management in enclosed spaces, and where the main focus is on keeping energy consumption to the minimum. An optional software upgrade is available for C65E PLC units to unlock the Deep Drying feature with particular focus on high ΔX values (the driest air possible). This mode is often used in industrial processes where it is essential to keep the levels of moisture in the air under stringent control.

MODULAR EQUIPMENT CONFIGURATIONS

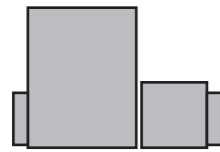
You simply decide which equipment combinations you want for the exact specifications you need. Contact Cotes experts for details or alternative options.



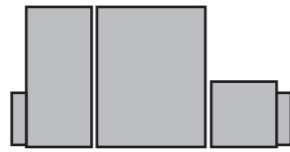
C65



PRE/POST MODULE + C65



C65 + EW MODULE



PRE/POST MODULE + C65 + EW MODULE

AVAILABLE CONFIGURATIONS TABLE

		ELECTRICAL				STEAM PLC-C/D	EW PLC-C/D	PRE-COOL PLC-B/C/D	POST-COOL PLC-B/C/D	POST-HEAT PLC-B/C/D
		BASIC	PLC B	PLC C	PLC D					
400V 3PH+N+PE C65E	8	X	X	X	X	X	X	X	X	
400V 3PH+N+PE C65E	11	X	X	X	X	X	X	X	X	
400V 3PH+N+PE C65E	15	X	X	X	X	X	X	X	X	
400V 3PH+N+PE C65E	19	X	X	X	X	X	X	X	X	
400V 3PH+N+PE C65C	1	X								
400V 3PH+N+PE C65C	3	X								
230V 3PH+PE C65E	8		X				X	X	X	
230V 3PH+PE C65E	15		X				X	X	X	
230V 3PH+PE C65E	19		X				X	X	X	
230V 3PH+PE C65D	7		X				X	X	X	

ALT. HEATING

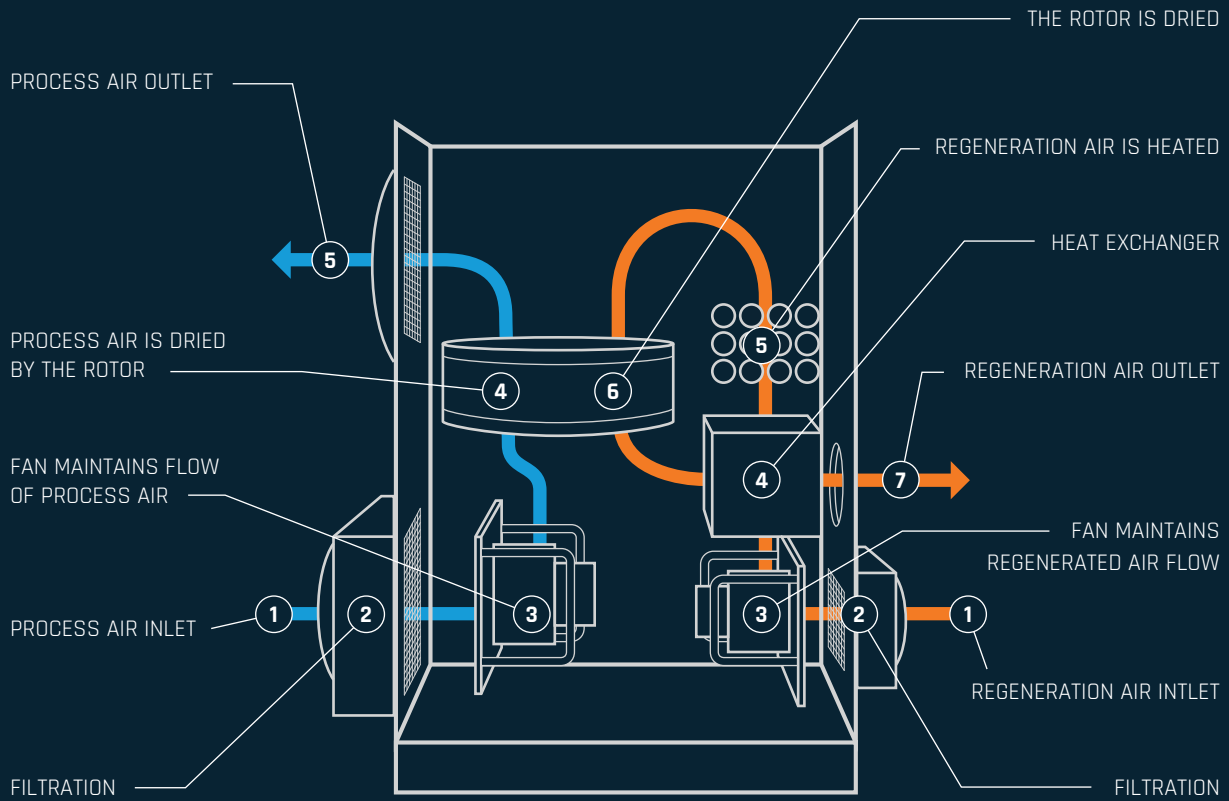
PRE/POST MODULE

THE RIGHT CONTROL CONFIGURATION FOR YOU

A comprehensive range of software-based monitoring and control capabilities are available. You simply decide which configuration you need to have, and order accordingly.

MONITORING AND CONTROL SETUPS	A BASIC	B	C	D
Hour counter to monitor running time	X	X	X	X
Overheating alarm	X	X	X	X
Manually adjustable process fan	X	X	X	X
Manually adjustable regeneration air fan	X	X	X	X
External humidity sensor (R/H)	X	X	X	X
Service indicator to monitor maintenance requirements		X	X	X
Datalogging for tracking conditions		X	X	X
Service alarm monitoring		X	X	X
5.7-inch touch display		X	X	X
Filter and rotor service alarm		X	X	X
Control of regeneration air fan from the PLC interface		X	X	X
Measurement and control after dew point (option)		X	X	X
Timer, day/night timer and cycle timer		X	X	X
Network connectivity (optional)		X	X	X
Monitoring and control via smartphone app (optional)		X	X	X
Monitoring and control by cotes service center (optional)		X	X	X
Datalogging for tracking c Capacity control / modulating heat control anditions		X	X	X
Extra external humidity sensor (R/H and dew point) up to two external Humidity sensors can be connected (single sensor included)			X	X
Monitoring and automatic adjustment of air flows			X	X
Quiet program			X	X
Custom program			X	X
Energy-saving program			X	X
Energy+ saving program (for process applications)				X
Continuous measurement of moisture removal				X
Capacity alarm				X
Specific humidity (g/kg) program				X

HOW IT WORKS



HORIZONTAL ROTOR

The horizontally mounted silica gel-coated rotor has the important advantage, that airflows enter and exit on the same side.

This means that the process air enters and leaves on the same side of the casing, while regeneration air enters and leaves on the opposite side.

BUILT IN HEAT EXCHANGER

The updated C65 now includes a built-in heat exchanger to drastically reduce power consumption. By reusing excess heat from the regeneration air, electrical heating power is reduced by as much as 20%. The adjustments are done automatically by the heating control unit. The heat exchanger is removable for the rare circumstances where it is necessary.