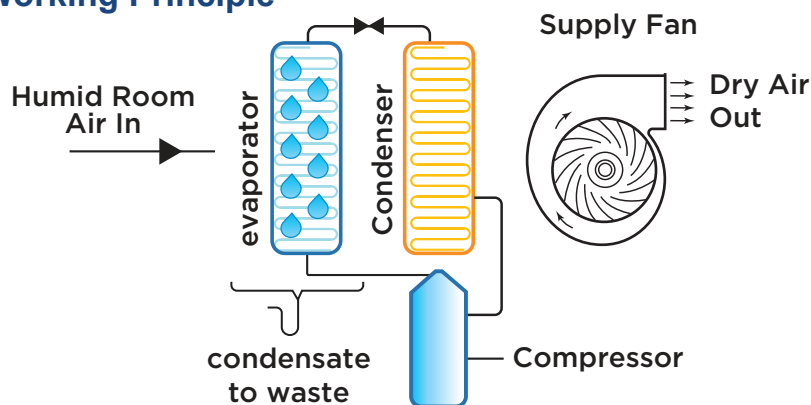




Product description

The **DECKER Industrial dehumidifier** was designed to efficiently work in areas that require the dew point to be above 0°C. Its airtight construction helps deliver accurate conditions and features, allow it to be configured and adjusted to meet various needs and situations. The housing is made of galvanized metal with a powder coated enamel as standard and available in stainless steel as an option. Decker dehumidifiers can be freestanding or positioned on trolleys for mobile use around a building. Dry air can be delivered directly to a room's atmosphere or be ducted into a building's ventilation system. The standard unit is completely equipped with fans, evaporator, condenser, compressor, and base control package ready for installation.

Working Principle



Industrial dehumidifiers use a fan to draw in air and pass it through an evaporator. Water vapor then condenses on the evaporator and continue to drip into the water tray before draining out. Finally, the air will be heated by the condenser, before blowing back into the room as warm, dry air. This reduces the relative humidity within the room.

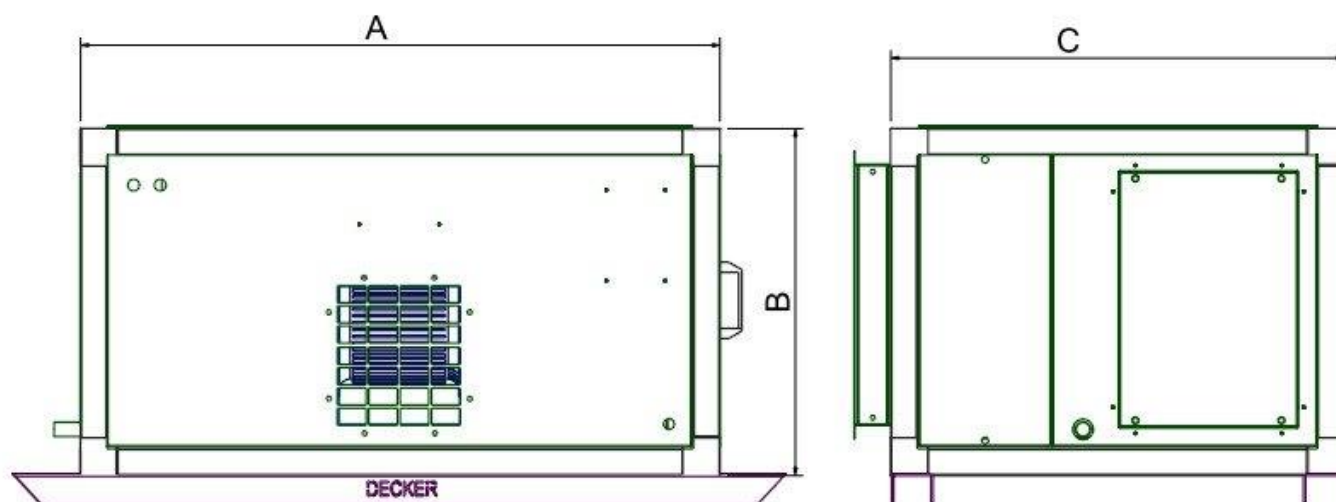
Main components

- APSOL HMI touch screen & IOT control system
- KRUGER direct drive centrifugal fan with high efficiency
- COPELAND Scroll compressor
- DECKER E-coating hydrophilic evaporator

Applications

- ♦ Manufacturing industries
 - Printing
 - Electronic parts
 - Film
 - Automobile factory
 - Food factory
 - Metal molding
- ♦ Logistics and warehouses
- ♦ Office and retails ventilation
- ♦ Medicine and pharmaceuticals
- ♦ Power stations
- ♦ Powder conveyings
- ♦ Researchs and laboratories
- ♦ Hospitals
- ♦ Hotels
- ♦ Data centers and Server rooms
- ♦ Other medium scale facilities

Technical specifications



Parameter	Unit	DCD-210	DCD-300	DCD-500	DCD-600
Dehumidification capacity(*)	L/D	210	300	500	600
Amount of air	m ³ /hr	2,100	3,000	5,000	6,000
External static pressure	Pa	Free blow / 50 / 100			
Filter		Nylon			
Operating temperature range	°C	5~40			
Operating humidity range	%	20~90			
Control type		HMI & IOT			
Mains connection	V/Ph/Hz	380/3/50			
Nominal power consumption	kW	3.05	4.14	7.02	8.28
Type of cooling agent		R407C			
Discharge side Pressure	PSIG	300	300	300	300
Suction side pressure	PSIG	100	100	100	100
Sound values (**)	dB(A)	≤ 65	≤ 65	≤ 68	≤ 68
Dimensions (A x B x C)	cm	105x65x85	120x65x85	165x80x110	165x80x110
Weight	Kg	150	180	240	250

Subject to change without notice

(*)- @30°C/70%

(**)-ISO 11203

DECKER
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Distributor