DD Range

Ducted industrial dehumidifiers

High dehumidification capacity

Compact can de installed in an attec or false ceiling

Esay access for maintenance

Robust and durable

Equipped with a hygrostat

Description

The DD dehumidifier is designed to adapt to all types of industrial environments: storage or building.

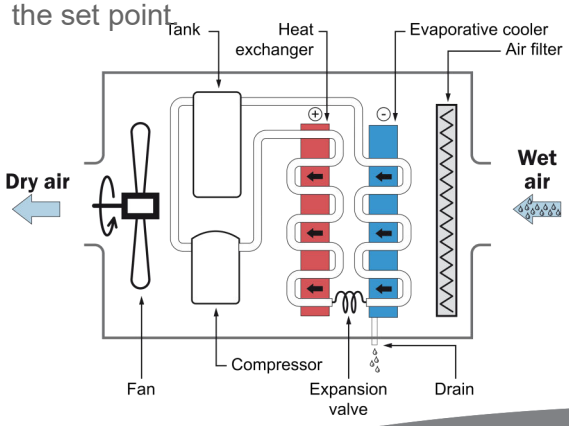
The DD works by condensing the water vapor contained in the air. Built with a monobloc casing made from painted galvanised sheet steel, it is fitted with a hermetic refrigerant compressor, a centrifugal fan, a G3 or G4 air filter and a humidistat. The refrigerant used is R410C for models 160 to 240 and R407C for other models. Remote control

The condensate is drained by flowing into a water drain.

Option :
Refrigerant R454C
Process air connection box :
2 circular inlets (fresh air and return air) or 1 circular inlet
Round/square dry air connection: 1 circular inlet
MODBUS communication

Operating principle

The DD dehumidifier is made up of different internal elements, in which a refrigerant circulates in different forms, allowing to decrease the humidity of the air. The humid air, previously filtered, is cooled in contact with the evaporative cooler, which causes condensation and a lowering of humidity. The air is then heated in contact with the heat exchanger, which makes it possible to reduce the temperature of the refrigerant. A fan drives the air flow in the circuit. The cycle is repeated until the humidity reaches the set point.



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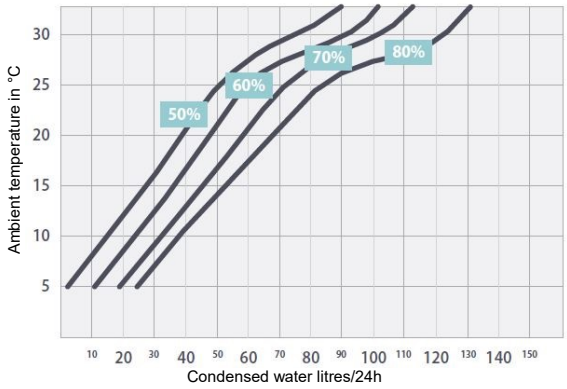
Applications

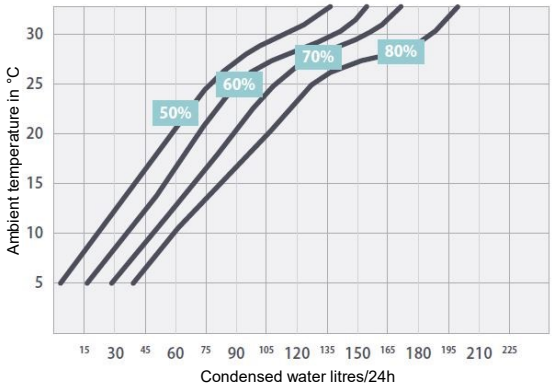
For any air conditioning application in industrial or tertiary premises where the concern is excessive humidity, such as production workshops, warehouses, museums, waterworks, concrete slab drying; the DD dehumidifier is useful.

Capacity diagram

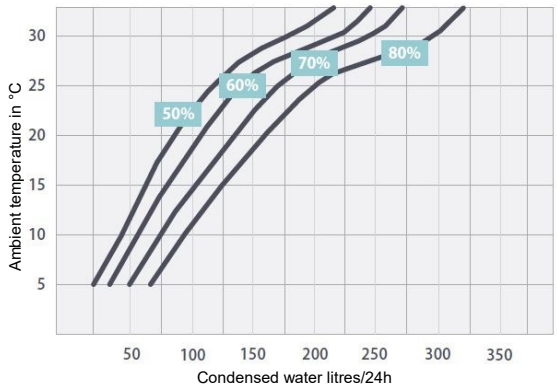
DD160



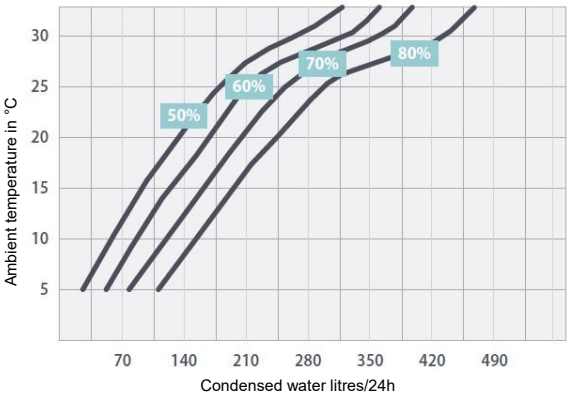
DD240



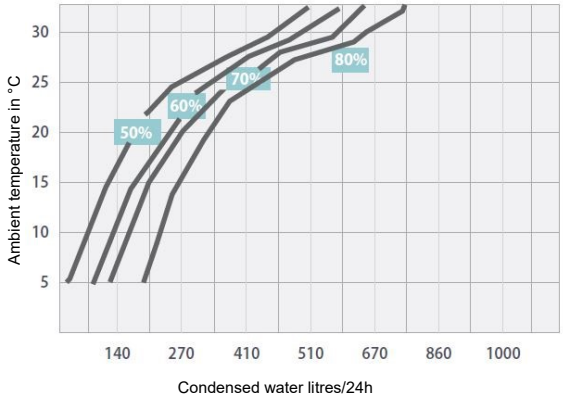
DD360



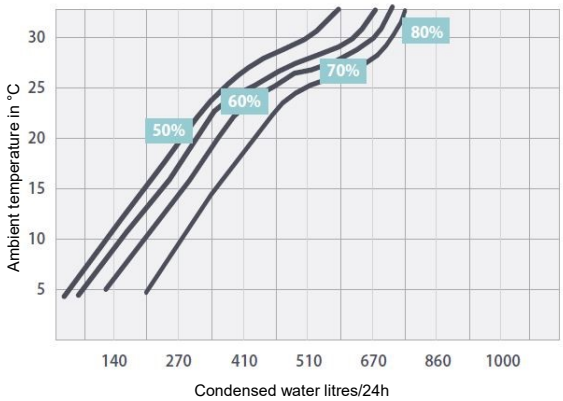
DD520



DD750



DD980



Technical specifications

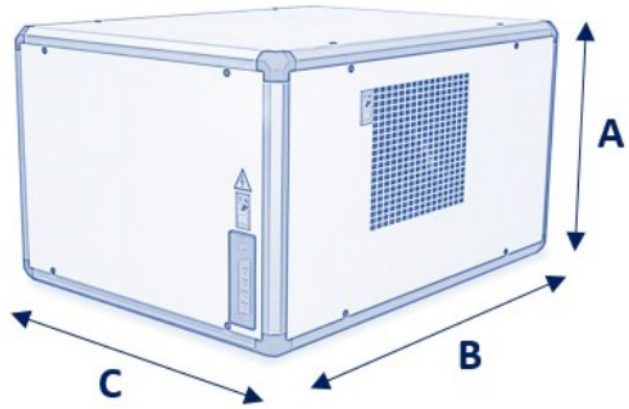
	DD-160	DD-240	DD-360	DD-520	DD-750	DD-980
Air flow (m^3/h)	1400 à 1800	1600 à 2300	3000 à 3500	3800 à 4600	5800 à 6200	8000 à 8500
Power supply	230V 1P+N 50Hz	400V 3P+N 50Hz				
Installed electrical power (in kW)	2,2	3,7	5,2	6,7	9,3	11,9
Range of use - température	from +7 to +35°C					
Range of use - hygrometry	from 45 to 100% HR					
Weight (kg)	66	72	150	170	260	320

Capacities (l/24h)

Temperature	Humidity level	DD-160	DD-240	DD-360	DD-520	DD-750	DD-980
10°C	60%	22	35	55	80	110	150
	80%	38	60	95	145	200	270
15°C	60%	37	55	80	115	160	215
	80%	56	79	125	200	270	370
20°C	60%	48	70	140	170	240	320
	80%	68	105	160	250	350	470
25°C	60%	60	90	145	210	290	395
	80%	83	125	200	290	400	545
30°C	80%	126	188	300	440	620	830

For more capacities, please contact us

Dimensions



	DD-160	DD-240	DD-360	DD-520	DD-750	DD-980
• Height (A)	580	580	720	920	920	1330
• Length (B)	980	980	1180	1180	1180	1460
• Width (C)	685	685	900	900	900	1260
Noise level (dBA)	73	74	80	84	86	89
Weight (kg)	66	72	150	170	260	320

Options

	DD-160 DD-240	DD-360	DD-520 DD-750	DD-980
Process air connection box 2 process air inlets Ø process air	2x Ø250	2x Ø315	2x Ø400	2x Ø500
Process air connection box 1 process air inlet Ø process air	1x Ø315	1x Ø400	1x Ø500	1x Ø630
Dry air connection round/square Ø dry air outlet	1x Ø250	1x Ø315	1x Ø400	1x Ø500

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