



Features

Dryair ZC series desiccant dehumidifiers are designed to efficiently make the air to low moisture levels from 10%RH-40%RH. Process airflows are available from 300 to 30000 CFM. Unit casing is manufactured of high intensity and Anti-cold bridge aluminum alloy or steel frame and polyurethane sandwich insulation panel to ensure zero air leakage.

The electrical control system meets ISO9001 standard. PLC controlling system is optional for the units for easy operation and maintenance.; All controls are mounted in a NEMA 4 control enclosed environment.

The ZC series includes all components and controls to operate as a stand alone dehumidifier. Many times a ZC series dehumidifier is combined with other HVAC components like cooling and heating coils, filters or fans, etc. Pre-designed modules are available as part of our ZC

plus product allowing Dryair to provide you with a turnkey solution to your humidity and temperature controlling requirement.

Dryair' ZC Plus add-on module provides additional process fan, filtration, cooling, heating and mixing functions that many end-users require. The add-on modules integrate readily as "bolt-on" housings in line with the other process air components. The arrangement is skid-mounted, providing the buyer with a single source, factory-assembled package. It requires only utility hook-UPS, chiller/boiler piping, duct work connections and sensor-controller tie-ins on site. If a more complete system offering is required, with condensing unit, piping, integrated controls or other features, consult Dryair representatives or staff early in the proposal and design process for assistance in the equipment selection.

Standard components:

Desiccant rotor

Reactivation fan/blower

Reactivation filter

Reactivation heater(electric or steam)

ECS control system

Advantages

Low profile cassette design

Quick access for easy maintenance

Easy duct connections

Modulating electric or steam reactivation

Multiple blower orientations

Built-in bypass option

Add-on post-/pre-air treatment options

ZC Series Desiccant Dehumidifiers

Technical Parameters

Model		ZC-D/Z -2000	ZC-D/Z -3000	ZC-D/Z -4000	ZC-D/Z -5000	ZC-D/Z -6000	ZC-D/Z -8000	ZC-D/Z -10000	ZC-D/Z -12000	ZC-D/Z -15000	ZC-D/Z -20000	ZC-D/Z -25000
Process Airflow	m ³ /h	2000	3000	4000	5000	6000	8000	10000	12000	15000	20000	25000
Regeneration Airflow	m ³ /h	667	1000	1330	1670	2000	2670	3330	4000	5000	6670	8350
Rated Dehumidification Capacity (27 60% RH)	kg/h	15.8	23.8	31.6	39.6	47.6	63.2	80	93	120	160	200
Regeneration Consumption	Steam 0.4mpa	kg/h	40	60	80	100	120	160	200	240	300	400
	(diameter)mm	DN20	DN20	DN20	DN20	DN20	DN25	DN25	DN25	DN25	DN32	DN32
	Electric	kw	20	30	40	50	60	80	100	120	150	200
Rated Power	Steam Regeneration	kw	0.84	1.2	1.2	1.6	1.6	2.3	3.1	3.2	5.7	7.7
	Electrical Regeneration	kw	20.87	31.2	41.2	51.6	61.6	82.3	103.1	123.2	155.7	207.7
Dimension	length	mm	1500	1600	1600	1800	1800	1950	1950	2150	2150	2250
	width	mm	900	1000	1100	1200	1300	1400	1500	1600	1800	2000
	height	mm	1660	1760	1860	1980	2080	2180	2280	2400	2750	2950
Inlet and Outlet of process air	mm	400×250	500×320	630×320	800×320	800×400	800×500	1000×500	1000×630	1250×630	1250×800	1600×800
Inlet of Regeneration air	mm	400×30	550×350	550×400	550×45	650×45	750×50	750×550	800×500	700×550	850×550	850×650

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Outlet of Regeneration air	mm	160×125	208×162	208×162	233×183	233×183	260×228	262×204	262×204	302×234	332×257	487×340
Unit Weight	kg	350	420	500	600	700	800	900	1000	1200	1500	1800
Unit Resistance	Pa	≤300	≤300	≤300	≤300	≤400	≤400	≤400	≤400	≤500	≤500	≤500

