Peritek 普瑞泰

杭州普瑞除湿设备有限公司

IANGZHOU PERITECH DEHUMIDIFYING EQUIPMENT CO.,LTD

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- Edition CE

杭州普瑞除湿设备有限公司

HANGZHOU PERITECH DEHUMIDIFYING EQUIPMENT CO.,L



CORPORATE CULTURE

Enterprise vision

Be the first brand of dehumidification equipment in China.

Enterprise value

Quality and innovation

Enterprise spirit

Integrity, professionalism, unity and innovation.

Business philosophy

Create products professionally, explore market honestly.

Service concept

All our efforts are for customers' satisfaction.

Mainly participate in the development of China's first desiccant rotor dehumidifier.

Research and development dehumidifier for China's military.

Responsible for drafting the national military standard and industry standard of

dehumidification equipment.

China's space industry partners.

Operators of systematic solutions to humidity problems



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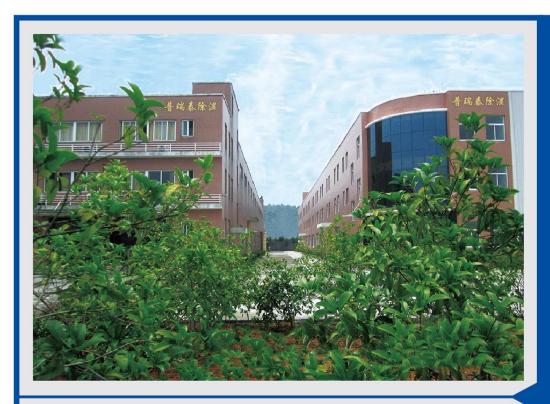
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Occasions and production of temperature and humidity requirements

































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COMPANY PROFILE





Hangzhou Peritech Dehumidifying Equipment Co., Ltd was established in January 2004 with the registered trademark "peritek" .Peritek specializes in research and development, manufacturing and servicing of air dehumidification equipment and systems. Users are widely in lithium battery, chemical, pharmaceutical, food, bioengineering, electronics, glass, rubber and shipbuilding, nuclear power plants, aviation, aerospace, military and other industries, and products are also exported for foreign markets in batches.

Peritek is one of the largest industrial dehumidifier manufacturers in China, covering an area of more than 10,000 square meters and a factory building of more than 10,000 square meters, with a complete and advanced product production line and quality performance testing device. Peritek's technicians account for 30% of the total number of employees, and have decades of experience in the dehumidifier industry. We have been responsible for national dehumidifier development projects and passed the appraisal; we have won the provincial and ministerial science and technology progress award of dehumidifier development project, and

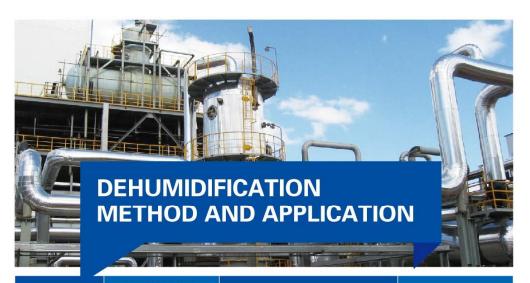
also been responsible for a number of ers, and ZDW low-temperature dehumidifias dehumidification and drying projects for large-scale satellite launch centers, fighter aircraft drying maintenance projects. cation and drying projects, and get praise from users. Peritek holds a number of national patents for dehumidifiers. It is also responsible for drafting the industry standards for desiccant rotor dehumidifiers and for dehumidifiers in China.

Based on a deep understanding of the air dehumidification and drying mechanism and rich experience in the manufacture of strong development design, production, engineering installation and high-quality and efficient after-sales service capabilities. It can be specially designed and customized according to the actual needs of users. Peritek specializes in dehumidifiers, By now, Peritek has developed series of dehumidifiers, including: ZL series rotor dehumidifiers, ZLB series combined dehumidifiers, ZHL series low-dew point dehumidifiments, ZRB series heat pump dehumidifi- ous industries.

China and foreign large-scale projects such ers, ZHD and ZHX series special dehumidifiers for lithium battery glove boxes, PRI series special dehumidifiers for lithium battery workshop environmental modification. large-scale lithium power plant dehumidifi- ZLF closed cycle rotary dehumidifier, ZLLY series four-season type dehumidifier. According to the different needs of users, the dry air supply temperature after processed is 5 ~ 120 °C, the dew point of normal pressure supply air can reach ≤-80 °C, and the drafting the only national military standard relative humidity at ambient temperature can be controlled below 0.5%.

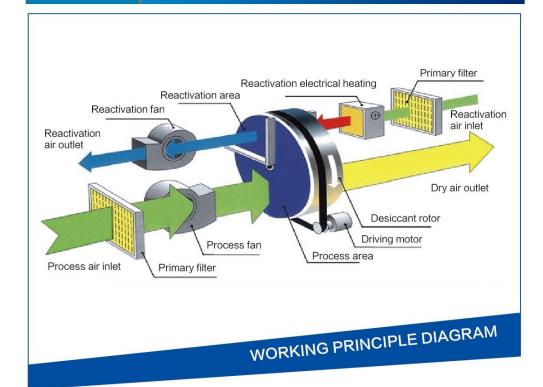
Peritek's dehumidifier products have passed ISO9001: 2008 quality management system certification; Peritek has been rated machinery and equipment, Peritek has as a science and technology enterprise in Zhejiang Province and a high-tech enterprise in Hangzhou; after years of development and efforts, the company's products are in the forefront of the national peers in terms of technology and quality. Peritek is committed to the research, development, production and sales of dehumidification equipment with the concept of "Manufacture products professionally, explore market honestly", and strives to provide first-class ers for lithium battery production environ- products and high-quality services for vari-

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LTEM	DEHUMIDIFY PRINCIPLE	CHARACTERS	APPLICATION
Atmospheric cooling dehumidification	Cool atmospheric air to below dew point temperature and remove it after condensation.	1.General dew point is above 6 ~ 10 °C. 2. If the surface of the cooling coil is at 0 °C, the condensed water freezes on the surface, reducing the dehumidification efficiency, and the humidity of the processing air is unstable. 3. Complex equipment and high maintenance costs.	Dew point requirements are not strict, more than $6 \sim 10 ^{\circ}\text{C}$, mostly used for comfort dehumidification.
Compression cooling dehumidification.	The air is compressed and then cooled, and the water vapor in the air is condensed into water and removed.	1.Suitable for small air volume dehu- midification. 2.Compressed power is expensive.	Dehumidification of compressed air with small air volume such as instruments and controls.
Liquid absorption	Dehumidify the air by spraying with a water-absorbing agent solution.	1. Dew point can reach -20 °C. 2. Large equipment. 3. Need to change the absorption liquid. 4. The absorption liquid is easily taken away from the device and adversely affects the use occasion.	Occasions need a large airflow with dew point higher than -20°C.
Desiccant rotor dehumidification	Dehumidify the air with a large-area rotor containing adsorbent material.	1. Can get low humidity air with dew point below -70 °C. 2. Obtain stable low-humidity air. 3. Easy to control humidity. 4. Easy maintenance.	Particularly suitable for occasions that require dehumidification at low temperature and low humidity and stable humidity. Combined with cooling and dehumidification, it can be applied to any occasion with practical needs

WORK PRINCIPLE AND TECHNIQUE



The core part of the dehumidifier is a desiccant rotor with dense honeycomb holes rotating at 8–16 revolutions per hour. There are high–sealing silicone rubbers on both sides of the rotor, dividing the entire surface into two parts, 270 $^\circ$ process zone and 90 $^\circ$ reactivation zone.

When the humid process air enters the process zone, the moisture in the air is absorbed by the desiccant rotor and becomes dry air. The dry air is sent to the place where it needs to be dried or the production process by the processing fan .

In the process of moisture absorption, the desiccant rotor gradually loses its ability to absorb moisture.

In order to maintain a constant moisture absorption capacity, the rotor needs to be reactivation. For this reason,

the rotor that tends to saturate is slowly turned into the reactivation zone under the drive of the transmission motor, the reactivation air heated to 100−140°C enters the reactivation zone in the opposite direction of the processing air, and adsorbs the moisture in the rotor and is taken away by the reactivation fan to the outside. The desiccant rotor restores the moisture absorption ability, and is driven into the processing zone to re–adsorb the moisture in the processing air under the driving of the transmission motor.

The desiccant rotor is continuously rotated, and the dehumidification and reactivation process is continuously performed, thereby continuously outputting dry air with constant humidity.

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CHARACTERISTICS OF PERITEK DEHUMIDIFIER

PRODUCT CHARACTERISTICS

- The cabinet of the dehumidifier adopts a double–layer structure separated by thermal insulation materials, high–pressure polyurethane foam, high strength, and good anti–cold bridge effect.
- Super silica gel / molecular sieve rotor with excellent performance, high dehumidification efficiency, can reach more than 80%.
- The key structure adopts the self-lubricating balance rotor seal technology independently developed by Peritek, which improves the performance of the rotor, and the minimum dew point after special processed can reach below −80 ℃.
- Using Perirek's patented technology and independently developed advanced dehumidification process and PID control technology, the equipment has good energy saving effect and low production cost.
- Serialization, standardization, refined production and more than 30 years of professional experience make Periek's products have higher stability and reliability.
- Periek provides users with system solutions for humidity problems.

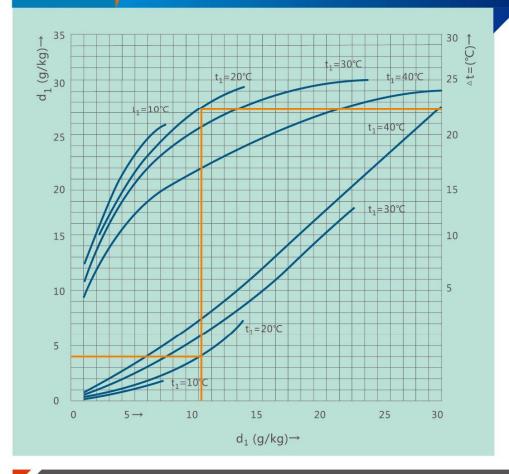


Starting from the research and development of the first rotor dehumidifier in China, after decades of hard work, Peritek has become one of the most advanced and largest suppliers in the industry.

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PRODUCT PERFORMANCE CURVE UNDER **TYPICAL WORKING CONDITIONS**



Known: Temperature of air inlet t1=20℃, relative humidity RH1=70%, moisture content d1=10.35g/kg,ask for the air condition after processing.

Solve: According to the chart, d1=10.35g/kg, through dehumidification curve t1=20℃, we can find out **EXAMPLE** the moisture content of the processed air outlet d2=4g/kg, and then go up through t1 = 20 °C temperature rise curve to find the temperature rise $\triangle t = 22.3$ °C, then processed air temperature t2 = 42.3 °C, the processed air RH = 8% can be found on the id chart.

For more detailed specification, please contact with us.

Peritek 普瑞泰 **PRODUCT SERIES**

ZLMD SERIES MINI DESICCANT ROTOR DEHUMIDIFIERS



			ZLM	D Technic	al Parame	ters Table				
Data Model	Process airflow	React. airflow	Process air inlet(Φa)	Process air outlet(Φb)	Reactivation air inlet(Φc)	Reactivation air outlet(Φd)	Power supply	Installed power	Approx size (L*W*H)	Approx weight
ZLMD-1	120 CMH	40 CMH	Φ 151	Φ 151	Φ103	Φ 70	220V/50Hz	1.21 kW	525×172×382	30 kg
ZLMD-2	300CMH	100CMH	Φ 151	Φ 151	Ф 103	Φ 103	220V/50Hz	2.22 kW	565×512×438	40kg

Note: 1. The above parameters are for reference only, please refer to the 2. The power supply can be customized according to customer requirements.

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ZL SERIES DESICCANT ROTOR DEHUMIDIFIERS



PRODUCT CHARACTERISTICS

- It can quickly and conveniently process the moisture in humid air, especially suitable for the occasions of low temperature and humidity or normal temperature and low humidity.
- \blacksquare Super silica gel dehumidifying rotor, high reliability of chain transmission.
- The rigid aluminum alloy frame is light in weight and good in strength.
- Insulation box, thermal insulation and energy saving.

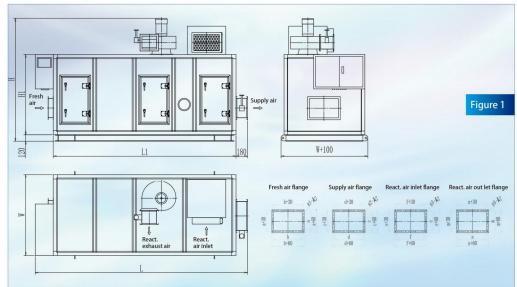
- High-efficiency centrifugal fan.
- Reactivation select stainless steel fin electric heating tube or copper tube aluminum fin steam heat exchanger.
- Electrical control, multiple safety protection.
- Manual / automatic control switching, easy to use.

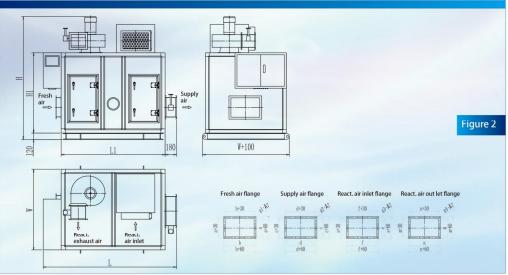
									ZL S	eries	Rotor I	Dehumi	difie	r Teo	hnica	Parame	eters	Tab	le											
Data	Proce	ss air	React.	air	React.	Mode	Dehumidify capacity	Rotor	Installe	d power							Ap	prox.	size											
Model	Airflow	power		power	power	reqd	20%	Driving power	Flar heatin	Steam heating	uith filter	ı without filter	w	н	with filter	ı without filter	н	d	b	·	u	e.	r	m	п	gı	yz	93	94	Approx. Weight
Model	m3/h	kW	m3/h	kW	kW	kg/h	kg/h	kW	kW	kW	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
ZLK-D(Z)-1000	1000	1	330	0.37	8.4	14	7.2	0.04	8, 81	0.41	2100	2100	970	1530	1640	1640	970	200	300	200	250	200	200	75	72	6	6	4	4	150
ZLK-D(Z)-2000	2000	1	670	0.75	18	30	14.5	0.04	18.79	0.79	2100	2100	970	1530	1640	1640	970	300	400	250	380	300	300	75	100	8	8	8	4	350
ZLK-D(Z)-3000	3000	1	1000	1.5	30	50	21.7	0.06	31.56	1.56	3340	2110	1260	1940	2880	1650	1260	300	500	300	450	350	350	200	227	8	8	8	12	450
ZLK-D(Z)-4000	4000	1	1330	1.5	36	60	29.0	0.09	37.59	1.59	3340	2110	1260	1940	2880	1650	1260	350	600	400	450	400	500	200	227	10	8	8	12	550
ZLK-D(Z)-5000	5000	1	1670	2.2	42	70	36. 2	0.09	44. 29	2. 29	3340	2110	1260	1980	2880	1650	1260	400	630	400	550	400	500	228	260	10	10	8	12	650
ZLK-D(Z)-6000	6000	1	2000	2.2	54	90	43.5	0.12	56.32	2. 32	3340	2110	1260	1980	2880	1650	1260	450	630	400	630	450	500	228	260	10	10	8	12	800
ZLK-D(Z)-8000	8000	1	2670	3	66	110	58. 0	0.2	69.2	3.2	3340	2110	1550	2300	2880	1650	1550	630	800	500	700	500	630	256	291	14	10	10	12	900
ZLK-D(Z)-10000	10000	1	3330	3	84	140	72.5	0.2	87.2	3.2	3350	2120	1550	2380	2890	1660	1550	630	800	630	700	630	700	256	291	14	12	12	12	1000
ZLK-D(Z)-15000	15000	1	5000	5.5	126	210	108.7	0.2	131.7	5.7	3650	2420	1880	2580	3190	1960	1880	800	1000	700	900	700	900	286	324	18	14	14	16	1200
ZLK-D(Z)-20000	20000	1	6670	5. 5	168	280	145.0	0.2	173.7	5.7	3650	2700	2170	3050	3190	2240	2170	800	1200	800	1000	800	1000	286	324	20	18	18	16	1450
ZLK-D(Z)-25000	25000	1	8330	7.5	210	350	181.2	0.4	217.9	7.9	3650	2700	2460	3380	3190	2240	1980	1000	1200	1000	1000	1000	1000	321	364	20	18	18	16	1700
ZLK D(Z) 30000	30000	1	10000	7. 5	252	120	217. 4	0.4	259. 9	7. 9	3050	2700	2700	3700	3190	2240	2300	1200	1300	1000	1200	1000	1200	321	304	22	20	20	10	2000

P@ritek 普瑞泰 PRODUCT SERIES

ZL SERIES DESICCANT ROTOR DEHUMIDIFIERS

ZL Series Dehumidifier Interface And Outline Drawing





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ZLB SERIES COMBINED DEHUMIDIFIER



PRODUCT CHARACTERISTICS

- and desiccant rotor deep dehumidification to output dry air with constant temperature and humidity. It is especially suitable for occasions where the environment or . 🔳 PLC automatic control, multiple electrical protection, stable operation production process has double requirements on temperature and humidity.
- Inlet bag filter, cooling coil for fresh air, super silicone rotor, high efficiency It can realize host computer joint control or remote control. centrifugal fan, pre and post cooling coil.
- - and good safety performance.

Desiccant rotor

ZLB Series Process Flow Chart

significance

ZLB-D-3000-Z

ZLB: Basic code of combined dehumidifier
D: Rotor regeneration type. D for electricity, Z for steam.

3000: Rated process airflow m3/h
Z: indicates the position where the air enters, Z is left, Y is right.

Peritek 普瑞泰 **PRODUCT SERIES**

ZLB SERIES COMBINED DEHUMIDIFIER

				Z	LB Se	ries C	ombi	ZLB Series Combined Dehumidifier Performance Parameters Table	ehum	idifie	r Perf	orma	nce P	aram	eters	Table							
ltem/	Model	2000 2000	ZLB-D/Z- 3000	ZLB-D/Z- 4000	2LB-D/Z- 5000	2LB-D/?-	ZLB-D/Z- 7000	2/R-D/Z- 8000	0006 -Z/R-D/Z-	2LB-D/Z-	ZLB-D/Z-	ZLB-D/Z- 12000	ZLB-D/Z- 13000	ZLB-D/Z-	ZLB-D/Z- 15000	ZLB-D/Z- 17500 20000	200002 20000	ZLB-D/Z- 25000	30000 30000	2LB-D/7- 2 35010	2LB-D/Z- 40000	ZLB-D/Z- 45000	2LB-D/Z- 50000
Process airflow	Process airflow (m3/h)	2000	3000	4000	2000	0009	2000	8000	0006	10000	11)00	12000	13000	14000	15000	17500	20000	25000	30000	35040	40000	45000	20000
External stat pressure(Pa)	External static pressure(Pa)	≥700	≥700	≥700	≥700	≥700	>700	≥700	>700	>800	≥300	>800	>800	008≪	008≪	008≪	008≪	008≪	≥800	008≪	≥800	008≪	≥800
Return	Return air data	Techn are sel	ical cond ected by	itions:1.1 software	Indoor te	impera:u	re = 23 %	; 2. Relati tor surfac	ve humid e is 2.7-2.	lity = 209 .8m / s; 6	% RH; 3. 9 . Supply a	0% returniir tempe	air volu rature dif	me; 4. Th fference i	e dehum is 1g / kg.	Technical conditions.1. Indoor temperaure = 23 °C; 2. Relative humidity = 20% RR; 3. 90% return air volume; 4. The dehumidify capacity of the rotor and rotor temperature rise are selected by software; 5. The air speed on the rotor surface is 12.7-2.8m / s; 6. Supply air temperature difference is 1g / kg.	city of the	e rotor an	d rotor te	emperatur	re rise		
React.	React. airflow(m3/h)	110	170	220	280	340	390	450	200	260	320	670	730	880	940	086	1120	1400	1680	1960	2240	2520	2800
	Steam reqd. (kg/h)	7	10	13	16	20	23	26	59	32	36	39	42	20	54	99	64	80	96	112	128	144	160
t. eneri	Steam pipe diameter	DN15	DN20	DN20	DN20	DN20	DN20	DN20	DN20	DN25	N25	IN25	DN25	DN25	DN25	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32
	Matching power(kW)	7.2	12	14.4	18	24	24	30	36	36	42	42	48	48	54	09	72	06	102	12(138	156	174
Chilled	Chilled water temperature(°C)	<i>1</i> ≥ 2	<i>\</i>	<i>1</i> ≥	<i>1</i> ≥	<i>1</i> ≥	<i>1</i> ≥	≥2	≥2	<i>1</i> ≥	≥ 2	≥2	<i>\</i> √	2 ≥	\/ \/	\ \ \	₹	≥ 2	2/	₩.	\ \ \	2/	2/
Chilled water volume(t/h)	water (t/h)	1.8	2.8	3.7	4.6	5.5	6.5	7.3	8. 2	9.5	0.1	11	11.9	12.8	13.7	16	18.3	22.9	27.5	32	36.6	41.2	45.8
Process fan power(kW)	fan kW)	6	4	4	5.5	5.5	7.5	7.5	11	11	11	11	15	15	15	15	18.5	22	30	30	30	37	37
React. Fan power(kW)	an kW)	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	60	33	es	es	60	60	60	5.5	5, 5	5.5	5, 5	7.5	7.5
Rotor dri	Rotor driving power (kW)	0.04	0.04	0.06	0.06	0.03	0.09	0.09	0.12	0.12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0. 4	0.4	0.4	0.4
Installed	Steam mode (kW)	4.14	5.14	6.26	7.76	7.79	9.79	9. 79	13. 32	13.32	4.2	14.2	18.2	18.2	18.2	18.2	21.7	27.7	35.9	35.9	35.9	44.9	44.9
power	Elec. mode (kW)	11.34	17.14	20. 66	25.76	31.79	33. 79	39. 79	49.32	49.32	56. 2	56.2	66. 2	66.2	72.2	78. 2	93. 7	117.7	137.9	155.9	173.9	200.9	218.9
Approx. weight (kg	(kg	1500	1800	2000	2500	250)	3000	3000	3000	3500	3500	3500	3500	4000	4000	4500	4500	4500	2000	2500	5500	0009	0009

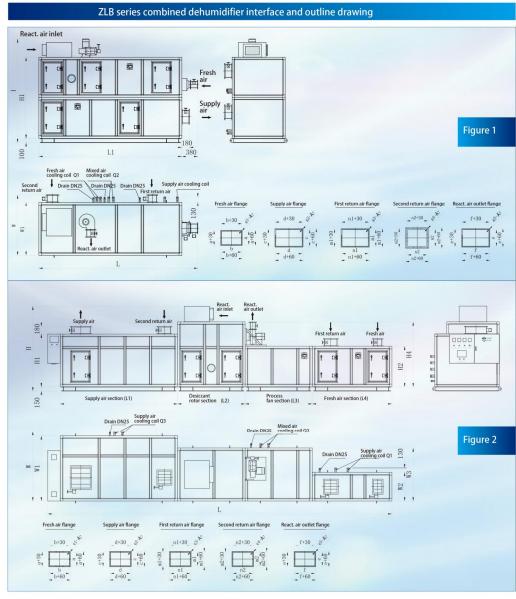
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ZLB SERIES COMBINED DEHUMIDIFIER

P⊜ritek 普瑞泰 PRODUCT SERIES

ZLB SERIES COMBINED DEHUMIDIFIER



						Z	LB.	Serie	es Co	gw	ined	De	m n	ZLB Series Combined Dehumidifier Dimension Table	i D	men	sion	Ta	ole												
Model	-	>	Ξ	5	7	ย	2	- M	W2	M3	Ξ	Ŧ	至	Ŧ	a	۵	u	ъ	o	-	Ē	72	m2	n2	le e	92 9	g3 g4	de de	5	62	83
ZLB-D-2000	3780	0 1440	2480	3401	1 /	_	\	1262	~	_	1944	_	/	\	150	200	300	300	120	190	200	200	150	250	4	8	4 4	4	DN20	DN15	DN20
ZLB-D-3000	3780	0 1440	2480	3401	1 /	_	\	1262	_	_	1944	_	\	-	200	200	300	450	120	190	200	250	200	250	4	80	4 4	4	DN20	DN15	DN20
ZLB-D-4000	3780	0 1440	2480	3401	1 /	\	\	1262	_	\	1944	_	_	_	200	250	350	200	150	210	250	300	250	300	4	8	9 9	4	DN25	DN20	DN25
ZLB-D-5000	8270	0 1550	2050	2819	9 1623	3 1613	1913	3 1552	682	1262	1262	972	316	1552	200	300	450	200	150	210	300	300	300	300	9	8	00	4	DN32	DN20	DN25
ZLB-D-6000	8270	0 1550	2050	2819	9 1623	3 1613	1913	3 1552	972	1262	1262	972	326	1552	250	250	450	009	228	260	300	350	300	350	4	10	00	12	DN32	DN20	DN32
ZLB-D-7000	8270	0 1550	0 2180	2819	9 1623	3 1613	1913	3 1552	972	1262	1262	972	326	1552	250	300	450	700	228	260	350	350	350	400	9	01	00	12	DN32	DN20	DN32
ZLB-D-8000	8270	0 1550	0 2180	2819	9 1623	3 1613	1913	3 1552	972	1552	1262	972	326	1552	300	300	200	700	228	260	350	400	300	200	∞	10	80	12	DN32	DN25	DN32
ZLB-D-9000	8270	0 1550	2180	2819	9 1623	3 1613	1913	3 1552	972	1552	1552	972	326	1552	300	300	920	700	228	260	350	450	350	200	00	10	00	12	DN40	DN25	DN32
ZLB-D-10000	0 8270	0 1880	0 2180	2819	9 1623	3 1613	1913	3 1878	972	1552	1552	972	975	1552	350	350	200	800	228	260	350	200	400	200	œ	12	00	12	DN40	DN25	DN40
ZLB-D-11000	0 8270	0 1880	2620	2819	9 1623	3 1613	1913	3 1878	972	1552	1878	972	1262	1877.5	300	350	650	650	256	291	400	450	400	550	00	12 8	00	12	DN40	DN25	DN40
ZLB-D-12000	0 8270	0 1880	0 2670	2819	9 1623	3 1613	1913	3 1878	972	1552	1878	972	1262	1877.5	2 300	400	650	750	256	291	400	200	400	009	œ	12	8 10	112	DN40	DN25	DN40
ZLB-D-13000	0 8270	0 1880	2850	2819	9 1623	3 1613	1913	3 1878	972	1552	1878	972	1262	1877.5	300	450	650	750	256	291	400	200	400	009	00	12 8	8 10	12	DN50	DN32	DN40
ZLB-D-14000	0 8540	0 1970	2620	2819	9 1623	1903	1913	3 1878	972	1552	1878	972	1262	1877.5	300	450	750	750	256	291	400	550	400	200	8	12 8	8 10	12	DN50	DN32	DN40
ZLB-D-15000	0 8540	0 1970	2620	2819	9 1623	3 1903	1913	3 1878	972	1552	1878	972	1262	1877. 5	2 300	200	750	750	256	291	400	009	400	200	00	12 1	10 10	112	DN50	DN32	DN40
ZLB-D-17500	0 9130	0 2300	2770	3109	9 1623	3 2203	1913	3 2168	1262	1878	2168	972	1262	2167.5	5 350	200	800	800	256	291	400	700	450	750	8	16 1	10 10	12	DN50	DN32	DN50
ZLB-D-20000	0 9130	0 2300	2770	3109	9 1623	3 2203	1913	3 2168	3 1262	1878	2168	972	1262	2167.5	5 400	200	850	850	256	291	400	800	450	850	8	16 1	12 12	12	DN50	DN40	DNS0
ZLB-D-25000	0 9130	0 2300	2770	3109	9 1623	3 2203	1913	3 2168	1262	2168	2168	972	1262	2167.5	5 400	009	1000	1000	286	324	400	1000	450	1050	10	20 1	14 14	16	DN65	DN40	DN50
ZLB-D-30000	0 9420	0 2300	3060	3399	9 1623	3 2203	1913	3 2168	3 1262	2458	2458	1262	1552	2457.5	5 400	730	1100	1100	286	324	400	1200	450 1	1250	10	20 1	91 91	91 9	DN65	DN40	DN65
ZLB-D-35000	0 9420	0 2590	3060	3399	9 1623	3 2203	1913	3 2458	3 1262	2458	2458	1262	1552	2457.5	400	850	1100	1200	286	324	400	1300	450 1	1350	12	22 1	91 91	91 16	DN65	DN20	DN65
ZLB-D-40000	0 9710	0 2590	3060	3689	9 1623	3 2203	1913	3 2458	1552	2458	2458	1262	1552	2457.5	5 450	006	1200	1200	286	324	450	1350	009	1300	12	24 1	18 18	3 16	DN80	DN50	DN65
ZLB-D-45000	0 9710	0 2880	3350	3689	9 1623	3 2203	1913	3 2748	1552	2458	2748	1262	1873	2747.5	450	1000	1300	1300	321	364	450	1450	650 1	1350	14	24 1	18 18	3 16	DN80	DN50	DN65
ZLB-D-50000	0 9710	0 2880	3350	3689	9 1623	3 2203	1913	3 2748	8 1878	2748	2748	1262	1873	2747.5	450	1100	1400	1400	321	364	450	1600	700	1400	14	26 2	20 20	16	DN80	DN20	DN65
1.TI Note: cold 2.Fr 3.W	The heigi dwater i or units Vthout r	1. The height H of the unit in the parameter table is the height of the unit that is reactivation beated for coldware is the cells aucre, and the width is decreased by 130mm when refriguent is the cold source. 2. It ou us is with processing all women—4200mb is, the or Figure is, and for units with processing all 2. Whould most be allower mentioned specifications clamped.	e unit in i i source, essing al	the par and the ir volun	ameter ta e width is ne < 400 d specific	able is the decrease Dm3 / h, i	e heigh ed ky 15 refer to hanged.	t of the u 30mm wh Figure 1;	nit that is hen refrig and for	s reactive gerant is units wit	ation hee the cold th proces	sted for e source. sing air v	electriche	1. The legist if of the unit in the parameter table is the legist of the unit that is reactivation heated for electric heating, and the height of the unit that is heated by storm is increased by about 350mm. The width Wishe unit width version and the width sclerosed by 130mm when refrigerent table cold source. The cold source, and the width is decreased by 130mm when refrigerent table cold source. The cold source and the width is decreased by 130mm when refrigerent table cold source. The width Wishe unit of the cold source and the width processing air volume > 500 mm 3. In, refer to Figure 2. Subsurd rotter fabore mentioned specifications changed.	d the he /h, refe	ight of ti r to Figu	he unit th	at is he	ated by	steam		sed by	about 3.	50mm.		dth W is					

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ZHL SERIES LOW DEW POINT DEHUMIDIFIERS



PRODUCT CHARACTERISTICS

According to the working principle and process characteristics of various batteries, the production of some batteries must be completed in a very dry environment, such as lithium batteries, lithium-ion batteries, thermal batteries and lithium materials. Therefore, low dew point dehumidify equipment is indispensable in the production of the above batteries and materials, and its dehumidification and drying effects directly affect the electrical performance and safety of the battery. The ZHL series low dew point dehumidifier has been used in the above production processes for many years and has been proved to meet the needs of these production processes. It has been widely used in the lithium battery industry and various occasions with low dew point requirements.

ZHL series dehumidifier is mainly composed of compression and condensation unit (or centralized cooling water supply), direct evaporative heat exchanger or water-cooled heat exchanger, super silica gel or molecular sieve runner group, microcomputer control system, etc.

ZHL Series Process Flow Chart Drying room Pre-cooling Supply fan Rotor First desiccant Second react. heating Second desiccant rotor

Model significance : ZHL-D-3000-Z

D: Rotor regeneration type. D for electricity, Z for steam.

Z: indicates the position where the air enters, Z is left, Y is right.

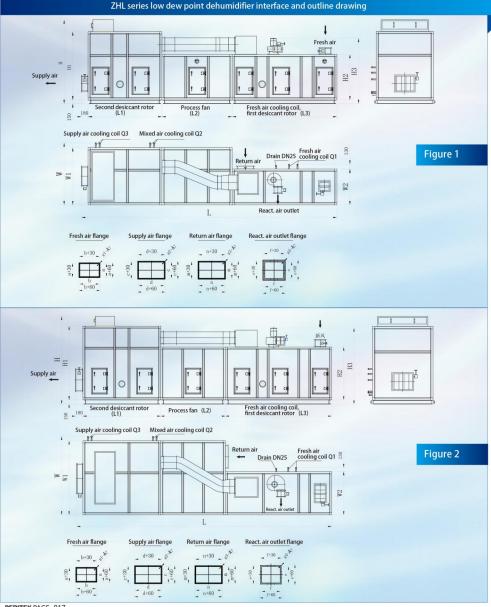
Peritek 普瑞泰 **PRODUCT SERIES**

ZHL SERIES LOW DEW POINT DEHUMIDIFIERS

Item	Model	ZHL- D/Z- 1500	ZHL- D/Z- 1700	ZHL- D/Z- 2000	ZHL- D/Z- 2500	ZHL- D/Z- 3100	ZHL- D/Z- 3800	ZHL- D/Z- 4700	ZHL- D/Z- 6000	ZHL- D/Z- 7900	ZHL- D/Z- 10000	ZHL- D/Z- 13200	ZHL- D/Z- 16600	ZHL- D/Z- 21200	ZHL- D/Z- 26200	ZHL- D/Z- 33200	ZHL- D/Z- 37000	ZH D/ 41
Process air	flow (m3/h)	1500	1700	2000	2500	3100	3800	4700	6000	7900	10000	13200	16600	21200	26200	33200	37000	41
External st pressure (≥600	≥600	≥600	≥600	≥600	≥600	≥600	≥600	≥600	≥800	≥800	≥800	≥800	≥800	≥800	≥800	>
Supply air	data	Temper dry roo	rature = ' m return	16° C, de air 90% ,	w point return a	tempera ir tempe	ture = -6 rature23	5 ° C (l	ased on urn air de	35 ° C, 8 w point	0% fresh ≤-32° C	air parar)	neters, fr	esh air co	ooling te	mperatu	re14°C,	
React. Airf	flow (m3/h)	150	170	200	250	310	380	470	600	790	1000	1320	1660	2120	2620	3320	3700	4
_	Steam reqd. (kg/h)	14	15	17	21	26	32	39	50	65	82	109	136	174	215	271	302	3
React. energy consumption	First steam pipe diameter	DN15	DN15	DN15	DN15	DN20	DN20	DN20	DN20	DN20	DN25	DN25	DN25	DN32	DN32	DN40	DN40	I
gy cons	Second steam pipe diameter	DN15	DN15	DN15	DN15	DN20	DN20	DN20	DN20	DN20	DN25	DN25	DN32	DN32	DN32	DN40	DN40	I
ct. energ	Summary steam pipe diameter	DN20	DN20	DN20	DN20	DN20	DN20	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	1
Rea	Electric heating react. power (kW)	8. 4	9.6	10.8	13. 2	16.8	20. 4	23. 6	32	40	52	66	82	106	130	164	182	
	Temperature (°C)	€7	€7	€7	€7	≤ 7	€7	€7	€7	€7	€7	€7	€7	€7	€7	€7	€7	
	Water volume (t/h)	3. 1	3. 5	4. 1	5. 1	6. 4	7.8	9. 7	12. 4	16. 3	20. 6	27. 2	34. 2	43. 7	54	68. 4	76. 2	-
Chilled water	Fresh air cooling coil diameter	DN20	DN20	DN20	DN20	DN25	DN32	DN32	DN32	DN40	DN40	DN50	DN50	DN65	DN65	DN65	DN80	1
Chillec	Mixed air cooling coil diameter	DN20	DN20	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN80	DN80	DN100	D
	Supply air cooling coil diameter	DN20	DN20	DN20	DN20	DN20	DN20	DN20	DN20	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	I
	Summary pipe diameter	DN32	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN80	DN80	DN100	DN100	DN125	DN125	D
rocess fan	power (kW)	2.20	3.00	3.00	3. 75	4	4	5. 5	7. 5	11	11	15	18. 5	30	30	37	45	
eact. Fan p	ower (kW)	0. 25	0. 25	0.37	0. 37	0. 55	0.75	0.75	1. 1	1. 1	1. 1	1. 1	1.5	2. 2	2. 2	3	3	
totor drivin	g power (kW)	0.065	0.065	0. 085	0. 115	0. 15	0.16	0. 24	0. 24	0. 26	0. 29	0. 29	0. 52	0. 6	0.6	0.6	0.6	
nstalled	Steam mode (KW)	2. 365	3. 065	3. 205	4. 235	4. 7	4. 91	6. 49	8. 84	12. 36	12. 39	16. 39	20. 52	32. 8	32. 8	40. 6	48. 6	4
oower	Elec. mode (kW)	10. 765	12. 665	14. 005	17. 435	21.5	25. 31	30. 09	40.84	52. 36	64. 39	82. 39	102. 52	138. 8	162. 8	204. 6	230. 6	2
Approx. We	eight (k= g)	2000	2000	2300	2300	2500	2500	3000	3000	3500	3500	4000	4500	4500	5500	6500	7500	8

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ZHL SERIES LOW DEW POINT DEHUMIDIFIERS

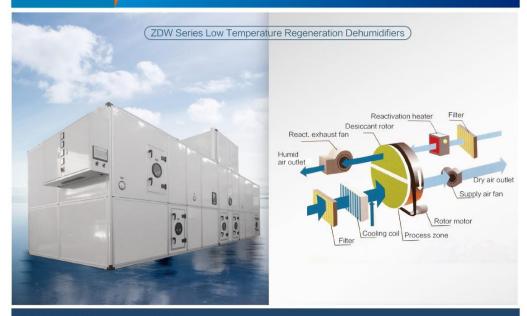


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ZHL SERIES LOW DEW POINT DEHUMIDIFIERS

		DN20	DN20	20	DN20	20	DN20	DN20	20	DN25	DN32	DN32	DN40	DN40	DN50	20	20	20	
	69			DN20	-	DN20			DN20		-					DN20	DNS0	0 DNS0	
	05	DN20	DN20	DN25	DN25	DN32	DN32	DN40	DN40	DNS0	DNS0	DNS0	DN65	DN65	DN80	DN80	DN100	DN100	
	10	DN20	DN20	DN20	DN20	DN25	DN32	DN32	DN32	DN40	DN40	DNS0	DN50	DN65	DN65	DN65	DN80	DN80	
	94	4	4	4	4	4	4	4	4	4	4	4	12	12	12	12	12	12	
	93	9	9	8	∞	8	8	8	10	10	12	12	16	91	18	20	20	22	
	g2	9	8	8	00	œ	00	10	10	10	12	14	16	18	22	22	24	24	B 21
	16	4	4	4	4	4	4	4	9	œ	œ	œ	10	10	10	12	12	14	t is heat d for un
	÷	52	52	52	52	75	7.5	7.5	190	190	190	190	227	260	260	291	291	291	unit tha
	e	7.2	72	100	100	72	100	100	120	120	120	120	200	228	228	256	256	256	it of the source.
a)	c	300	350	300	350	400	450	450	200	630	100	700	1000	1000	1200	1100	1100	1200	he heigh the cold / h, refe
Table	Ε	200	200	300	300	300	350	400	450	200	920	700	630	700	700	1000	1100	1100	ng, and t gerant is 3200m3
sion	ъ	350	300	300	350	400	400	200	630	700	800	850	1000	1200	1300	1300	1300	1400	ic heatir en refriç ume <1
imer	U	200	250	300	300	350	400	400	400	200	200	630	630	630	700	006	1000	1000	or electr Jmm wh g air voli
fier D	q	150	150	150	200	200	250	250	300	300	400	200	200	009	630	800	800	800	heated f ed by 13(rocessin
midi	е	150	150	150	150	200	200	250	250	300	300	300	400	400	450	450	450	550	tivation decrease s with p
Dehu	£	1455	1455	1455	1455	1465	1490	1780	1800	1860	1860	2190	2630	2630	2630	2860	2860	2860	at is read width is o
oint	H2	972	972	972	972	972	972	1262	1262	1262	1262	1552	1878	1878	1878	2170	2170	2170	e unit th and the cabinet
Jew F	H	1552	1552	1552	1552	1552	1552	1878	1878	1878	1878	2168	2783	2783	2783	3400	3400	3690	jht of th source, control
] wo	WZ	972	972	972	972	972	972	972	972	1262	1262	1262	1262	1552	1552	1878	1878	1878	the heig the cold ze of the igure 2; change
ZHL Series Low Dew Point Dehumidifier Dimension Table	L/M	972	972	1262	1262	1262	1262	1552	1552	1878	1878	2168	2458	2748	2783	3400	3400	3690	rtable is water is de the si efer to F fications
-IL Se	2	2851	2851	2851	2851	1582	2851	2851	2851	3141	3141	3144	3141	3141	3431	3431	3431	3431	rrameter Dmm. ren cold i rot includ im3.'h, r
Z	77	1913	1913	1913	1913	1588	1588	1913	1913	1913	1913	1913	2203	2203	3108	3108	3108	3108	in the pout 350 vidth while do rible do
	5	1723	1723	1723	1723	1723	1723	2013	2013	2013	2013	2303	2303	2303	2303	2593	2593	2593	the unit sed by a he unit v in the ta r volume f above-
	I	1980	1980	1980	1980	1980	1980	2300	2300	2300	2300	2615	3360	3360	3400	4100	4100	4350	ght H of is increa ith W is t iensions essing ait
	*	1100	1100	1390	1390	1390	1390	1680	1680	2010	2010	2300	2590	2880	2915	3530	3530	3820	. The height H of the unit in the parameter table is the height of the unit that is reactivation heated for electric heating, and the height of the unit that is heated by steam is increased by about 350mm. We widn'th We have unit width when old water the cold source, and the width is decreased by 130mm when refrigerant is the cold source. When the table do not include the size of the control cabinet. For unts with processing air volume <13200m3 / h, refer to Figure 1; and for units with processing air volume <13200m3 / h, refer to Figure 1; and for units with processing air volume <13200m3 / h, refer to Figure 1; and for units. Without notice if above-mentioned specifications changed.
	_	0299	0299	0299	0299	6345	6345	0969	0969	7250	7250	7540	8150	8150	9030	0896	0896	0896	-21111121
	Data Model	ZHL-1500	ZHL-1700	ZHL-2000	ZHL-2500	ZHL-3100	ZHL-3800	ZHL-4700	ZHL-6000	ZHL-7900	ZHL-10000	ZHL-13200	ZHL-16600	ZHL-21200	ZHL-26200	ZHL-33200	ZHL-37000	ZHL-41000	Note:

ZDW SERIES LOW TEMPERATURE REGENERATION DEHUMIDIFIERS



PRODUCT CHARACTERISTICS

ZDW series low-temperature reactivation dehumidifier uses the waste heat of steam condensate as the reactivation heat source. The reactivation temperature is between 45 ~ 75 °C, which is much lower than the reactivation temperature of ordinary desiccant rotor dehumidifier. Under such low-temperature reactivation conditions, it can still make the humidity in the place of use is between 20 and 60%, meeting the requirements of environmental control and production processes. The use of waste heat significantly reduces production costs.

	ZDW Serie	s Low Temperatur	e Reactivation Dehu	ımidifier Technical I	Parameters Table	
Data Model	Rated process airflow, m3/h	React. airflow, m3/h	Process fan power, kW	React. fan power, kW	React. heating power, kW	Steam condensate flow,t/h
ZDW-3000	3000	3000	3.0	1.5	35	2.2
ZDW-5000	5000	5000	4.0	2.2	58	3.6
ZDW-7500	7500	7500	7.5	4.0	88	5.5
ZDW-10000	10000	10000	11.0	5.5	116	6.7
ZDW-15000	15000	15000	15.0	7.5	175	11

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ZHL-RB SERIES LOW DEW POINT DEHUMIDIFIERS



PRODUCT CHARACTERISTICS

ZHL-RB series low dew point dehumidifier is a new type of energy-saving dehumidifier.

It uses low–temperature regeneration heat pump technology to regenerate the rotor, making full use of energy, and cooperating with the new advanced rot technology. Under normal temperature, the air supply dew point of the equipment can reach ≤ −65 °C, which can fully meet the requirements of the lithiu battery industry for low dew point environments. ZHL−RB series low dew point dehumidifier has a good energy saving effect, which is 20 ~ 40% less energe than ordinary low dew point dehumidifier, no need for supporting refrigeration system and no chilled water, the system is simple and convenient to install.

	ZHL-F	RB Series Low [Dew Point Dehur	midifier Technica	al Parameters T	able	
Data Model	Rated process airflow, m3/h	External static pressure, Pa	Supply air temperature, ℃	Supply air dew-point, °C	Return air temperature, ℃	Return air dew−point, ℃	Installed power, kW
ZHL-RB-3000	3000	700	16~18	≤-65	21~25	≤-32	26
ZHL-RB-5000	6000	750	16~18	≤-65	21~25	≤-32	57
ZHL-RB-10000	10000	800	16~18	≤-65	21~25	≤-32	90
ZHL-RB-15000	15000	800	16~18	≤-65	21~25	≤-32	135
ZHL-RB-20000	20000	800	16~18	≪ 65	21~25	≤ 32	190

Note: It can be designed and customized according to the actual needs of users, and the installed power is the power including refrigeration

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ZLF SERIES CLOSED-CYCLE ROTOR DEHUMIDIFIERS



This unit has the characteristics of compact structure, stable and reliable performance, convenient operation, easy maintenance, easy to move, no CFC problems and so on. The unit can use conventional electrical control or advanced microcomputer control technology. Perfect safety protection, and can be connected with the humidity measurement and control instrument to achieve automatic control of the constant temperature of the controlled space.

PRODUCT CHARACTERISTICS

ZLF series closed-cycle rotor dehumidifier is a convenient and efficient air dehumidifier. The key component is a special honey-comb-shaped rotor loaded with a hygroscopic agent. The moisture exchange effect is good and the dehumidification ability is strong. Closed cycle is used to cool the water vapor in the regeneration air by using the natural air in the room, so that it becomes condensed water to separate out. which solves the trouble that the common unit needs to lead the regeneration air inlet and outlet pipes out of the room.

Item		ZLF200	ZLF400	ZLF600	ZLF1000
Rated process airflow	m3/h	200	400	600	1000
Rated react.airflow	m3/h	70	135	200	340
Process fan power	kW	0.08	0.2	0.25	0.37
React. heating power	kW	2.4	4.8	7.2	10.8
React. heating temperature	℃	120	120	120	120
Dehumidify capacity	kg/h	0.8	1.6	2.4	4
Process air pressure drop	Pa	180	185	190	200
nstalled power	kW	2.62	5.57	8.25	12.2
Power supply		220V 50Hz	220V 50Hz	220V 50Hz	220V 50Hz
Size (L×W×H)	mm	500 × 450 × 850	600 × 500 × 1250	650 × 550 × 1350	700 × 600 × 1750
Approx. weight	kg	60	100	220	300

Peritek 普瑞泰 PRODUCT SERIES

PRI-1 MODULAR DEHUMIDIFIER

The PRI-1 modular dehumidifier is designed and developed using our company's patented technology. It is a combined rotor dehumidifier specially developed for the workshop which has already been operated and needs to increase the humidity control function. The machine can be used without a foundation or air duct. It is light in weight and easy to move. It can be used on the ground, which greatly facilitates the technical transformation of users and saves investment.

Product characteristics

- 1. It completely breaks the process and structural mode of the traditional rotor dehumidifiers, with advanced technology and good dehumidification performance. Each module dehumidifier can be used in a drying room with a height of 2.6m and a size of about 25m2, controlling the temperature and humidity parameters within 25°C and within 20%RH. It can meet the temperature and humidity requirements of most production processes.
- 2. It is convenient to combine, if the drying room area increases, multiple units can be used to quickly expand the dehumidification capacity. When the area of the drying room is unchanged, increasing the number of dehumidifiers can further reduce the drying room parameters, which can be as low as 25°C and within 10%RH. Therefore, it is widely used in various environmental control with low humidity process requirements.

PRI-1 Modular Dehumidifiers Technical Parameters Table

Model		PRI-1
Supply airflow	m3/h	1000
Supply air temperature	$^{\circ}$	18-26
Relative humidity	%	15-24
React. temperature	°C	100±10
Process fan power	kW	0.38
React. Fan power	kW	0.16
Refrigeration unit power	kW	3.57
Rotor motor power	kW	0.025
React. PTC power	kW	2
Condensate drain pump power	kW	0.045
Cooling water circulating pump	kW	0.37
Cooling tower fan power	kW	0.12
Installed power	kW	6.67
Overall dimensions	mm	803×667×1650
Approx. weight	kg	200

- 3. Low energy consumption, the rated power of the modular dehumidifier is 6.5kW, and the actual operating power after stable operation is 4kW, which is 1/2 of the similar dehumidifiers.
- 4. Compact structure and cover a small area, modular dehumidifier adopts advanced technology and technology design, each unit occupies an area 0.5 m2, does not affect the original layout of the workshop, easy to implement.
- 5. There is no need to arrange air ducts in the drying room, which can save a lot of engineering support.
- The regeneration of the rotor is heated by a new PTC heater, which is highly efficient, safety and long service life.



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ZLLY SERIES MOBILE FOUR SEASONS DEHUMIDIFIERS



PRODUCT CHARACTERISTICS

ZLLY series mobile four seasons dehumidifier adopts the inorganic fiber paper, and processed by corrugated molding, this combination of freezing and honeycomb rotor dehumidification method. It is suitable for special coating operations in temporary locations in four seasons. In summer, freeze dehumidification is the main, and rotor dehumidification is the supplement, mixed dehumidification in transition season, dehumidification by rotor in winter or electric heating adjustment.

The refrigeration system of this dehumidifier adopts air-cooled condensing refrigeration unit. The processing air is first dehumidified by cooling coil, and then further dehumidified by a rotor according to the working conditions. Desiccant rotor ,the key part of the unit is made through the special process to make the adsorbing material silica gel build-in the isotopic carries of

structure has a considerable moisture absorption area, which greatly improves the dehumidifying capacity.

This dehumidifier can reach the technical index of temperature 20-32 °C and relative humidity ≤ 45% under the air inlet condition of temperature - 5-40 °C and relative humidity 50-99%. The condenser of the unit adopts air-cooled steel tube aluminum fins, and the evaporator adopts direct evaporation type steel tube aluminum sheet. The unit provides four working states for the user to choose, which are full refrigeration, refrigeration and rotor mixing. full rotor and rotor mixed with heating. The dehumidifier has 4 ~ 8 air outlets, which are connected with air supply pipes respectively.

Model								
Iviouei		ZLLY8000	ZLLY10000	ZLLY12000	ZLLY14000	ZLLY17000	ZLLY21000	ZLLY24000
Rated process airflow	m3/h	8000	10000	12000	14000	17000	21000	24000
Compressor power	kW	40	50	60	75	90	104	120
Elect. Heating power	kW	116	148	192	228	265	332	388
Installed power	kW	169.26	211.06	281.06	336.06	422.06	481.06	567.06
Cooling capacity	kcal/h	10.2 × 104	12.8 × 104	15.3 × 104	19.2 × 104	23.0 × 104	26.6 × 104	30.7 × 104
Dimensions (L × W × H)	mm	430 × 210 × 260	450 × 210 × 260	485 × 220 × 270	485 × 220 × 280	580 × 230 × 275	600 × 240 × 300	600 × 240 × 320
Inlet air data				Temperature -5	-40℃, RH	50-99%		
Outlet air data				Temperature 20	0-32℃, RH	≤ 45%		
Power supply				3pt	nase, 380V, 50H	2		

Peritek 普瑞泰 **PRODUCT SERIES**

GLOVE BOX DEDICATED DEHUMIDIFIERS





PRODUCT CHARACTERISTICS

The dehumidifier adopts the R-DD optimized design technology independently developed by our company. The ambient temperature and humidity can be set. When the humidity index is reached, the equipment enters the keep running state and automatically adjusts the energy to achieve the purpose of energy saving.

This dehumidifier is composed of two parts: a dehumidifier main unit and a refrigerator, which are connected into a complete system by pipeline valves.

The supply and return air of the dehumidifier are connected to the glove box through hoses or PVC pipes.

	Pro	cess air								Dimensions			
Model	Airflow, m3/h	Fan power, kW	React, fan power, kW	React. heating power,kW	heating power,kW	Rotor motor power,kW	Installed power,kW	Cooling capacity,kW	L, mm	W, mm	H, mm	Approx. weight,kg	Working station
ZHD – D – 180	180	0.74	0.18	1.8	0.6	0.03	3.35	2.5	1900	780	1500	200	6~8
ZHD - D -360	360	1.12	0.18	3.0	0.6	0.04	4.94	4.9	1900	780	1500	250	12~1
ZHD - D-500	500	1.12	0.18	3.6	1.2	0.04	6.14	6.9	2100	1030	1650	300	16~2
ZHD - D-750	750	1.47	0.18	6.0	1.2	0.06	8.91	10.3	2100	1030	1650	350	20~3
ZHD - D-1000	1000	1.65	0.18	7.2	1.8	0.06	10.89	13.7	2300	1180	1800	400	24~3
ZHD - D-1500	1500	2.25	0.25	10.8	3.0	0.09	16.39	20.6	2300	1180	1800	500	32~4

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GLOVE BOX DEDICATED FRESH AIR DEHUMIDIFIERS





m3/h

PRODUCT CHARACTERISTICS

For the glove box specially used for liquid injection, due to the concentration of the organic solvent gas volatilized by the electrolyte is too large, when the return air is not allowed, a full exhaust or fresh air process is used. At this time, a full fresh air dehumidifier for glove box is selected.

This dehumidifier is composed of two parts: the dehumidifier main unit and the refrigerator. They are connected by pipelines and valves to form a complete system.

ocess air			React.	Supply	Rotor			Dimensions			Approx
١,	Fan power, kW	React. fan power, kW	heating power, kW	elect. heating power, kW	motor power, kW	Installed power, kW	Cooling capacity, kW	L, mm	W, mm	H, mm	weight kg
	0.55	0.18	1.8	0.6	0.03	3.16	4.8	1800	910	1400	200
	0.55	0.18	3.6	0.6	0.50	5.43	9.7	2000	1010	1535	250
				2.12.	100000000000000000000000000000000000000		500000000000000000000000000000000000000	100000000000000000000000000000000000000		100000000000000000000000000000000000000	100,000

Technical Parameters Table

ZHX-D-100 100 1~2 ZHX-D-200 200 6~8 ZHX-D-300 300 1535 12~16 0.18 8.03 2000 300 ZHX-D-500 500 1.10 0.25 8.4 1.8 0.80 12.35 24.2 2200 1200 1750 400 16~22 ZHX-D-800 800 1 10 0.37 13.8 3.0 1.00 19 27 38.7 2500 1350 1900 500 20~30 24~36 ZHX D 1000 1000 1.10 0.37 16.2 3.6 1.20 22.47 48.3 2500 1350 1900 550 ZHX-D-1500 1500 2.20 0.75 24.0 5.4 1.50 33.85 72.5 2700 1500 2100 600 32~44

Note: The dew point temperature in the glove box can be ≤-40 ~ -50 °C, according to the different configurations of the system.



PERITEK DESICCANT ROTOR

Desiccant rotor

The dehumidifying desiccant rotor is a key component of the dehumidifier. It is mainly made of a hygroscopic carrier with corrugated pores and a hygroscopic agent through a special process. Peritek use world–class super silicone/composite molecular sieve rotor, this rotor has the following advantages:

Advantages

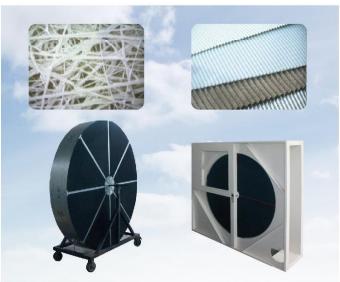
(1). High gluing rate of hygroscopic agent: The rotor contains up to 82% of hygroscopic agent, which has strong hygroscopic ability under low humidity and low temperature environment, and can be used in the dehumidifying field where the dew point temperature is as low as −65 ℃

(2). Excellent fire performance: The rotor is tested by the E–84 standard of the authoritative testing organization (ASTME), and the smoke index is 0.

(3). Excellent moisture absorption capacity: the dry weight of the rotor is 240 kg / m3, and the moisture absorption in a humid environment can reach about 40% of its dry weight.

(4). The rotor is cleanable: when the rotor is used for some time, it can be cleaned with a special solution.

(5). Good medium strength: the carrier of the rotor is ceramic fiber, and the compressive strength of the rotor surface exceeds 200kPa, so the strength is good and the service life is long.



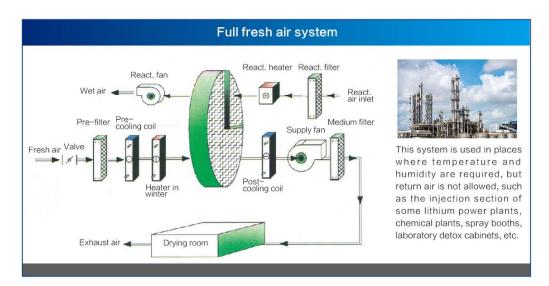
m) Thickness, (mm) 200 200 200	Model φ 1000 × 300 φ 1050 × 400 φ 1200 × 300	Diameter, (mm) 1000 1000 1200	Thickness, (mm) 300 400
200	ф 1050 × 400	1000	400
200	ф 1200 × 300	1200	000
		.200	300
200	ф 1200 × 400	1200	400
300	ф 1370 × 300	1370	300
300	ф 1370 × 400	1370	400
400	ф 1500 × 300	1500	300
300	ф 1500 × 400	1500	400
400	ф 1800 × 300	1800	300
1/4	ф 1800 × 400	1800	400
	400 300	400 φ 1500 × 300 300 φ 1500 × 400 400 φ 1800 × 300	400 φ 1500 × 300 1500 300 φ 1500 × 400 1500 400 φ 1800 × 300 1800

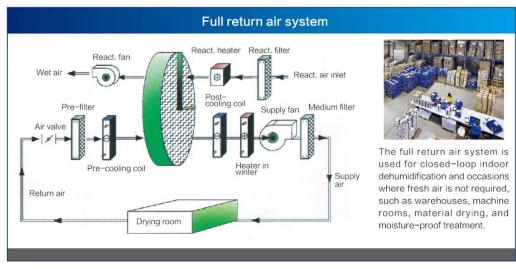
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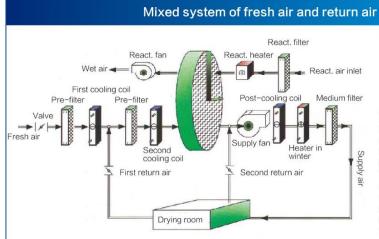
APPLICATION TECHNOLOGY OF PERITEK DEHUMIDIFIERS





Peritek 普瑞泰 APPLIED TECHNOLOGY

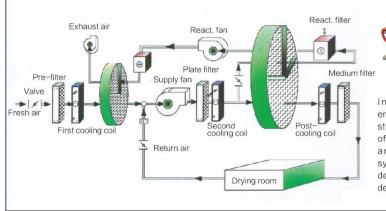
APPLICATION TECHNOLOGY OF PERITEK DEHUMIDIFIERS





In order to save energy and reduce the operating cost of the system, a fresh air and return air mixing system, such as food, pharmaceutical, electronics, lithium battery production workshops, etc., is adopted on the premise of ensuring the proportion of fresh air, room positive pressure and process air exhaust requirements.







In occasions where the environmental humidity is very strict, such as some sections of lithium battery production and high-end laboratory systems, Peritek low dew point dehumidifiers always use low dew point return air systems.

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Application cases

PARTS OF APPLICATION CASES



Peritek has a professional installation team, especially has accumulated rich experience in dehumidifier installation, we can undertake dehumidification and drying projects in various industries, and provide customers with a series of comprehensive services such as design, manufacturing, installation, commissioning, maintenance, and undertake "turnkey" projects.



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FDH SERIES FREEZING TYPE HOUSEHOLD DEHUMIDIFIER

Product characteristics



	FDH Technical Parameters Table								
Model	Dehumidify capacity	Power supply	Input power,W	Size,mm	Weight,kg	Applied size,m ²			
FDH - 218BC	18L/D	220V/50Hz	320	582 × 378 × 185	15	15 – 25			
FDH - 252BC	25L/D	220V/50Hz	360	572 × 390 × 286	18	25 – 35			
FDH - 235BC	35L/D	220V/50Hz	850	450 × 350 × 620	35	40 - 55			
FDH - 250BC	50L/D	220V/50Hz	950	450 × 350 × 620	45	55 – 70			

Peritek 普瑞泰 PRODUCT SERIES

FDH SERIES FREEZING TYPE INDUSTRIAL DEHUMIDIFIERS

Product characteristics



	FDH Technical Parameters Table							
Model	Dehumidify capacity	Power supply	Input power, W	Size, mm	Weight, kg	Applied size, m ²		
FDH -290BC	90L/D	220V/50Hz	1650	542 × 642 × 1017	60	80 -120		
FDH - 2138BC	138L/D	220V/50Hz	1850	542 × 462 × 1117	70	120 - 160		
FDH -2168BC	168L/D	380V/50H	3600	620 × 420 × 1650	120	150 - 200		
FDH - 2200BC	200L/D	380V/50H	4200	760 × 520 × 1650	150	200 -250		
FDH - 2400BC	240L/D	380V/50H	5000	760 × 520 × 1650	180	250 -300		

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ENTHALPY WET FIGURE

Temp. -5°C→+70°C. at wosphere 101kPa. Moist air at 760 mm Hg. Moisture g/kg 15 20 Torr temperatur, dry bulb

vapour pressure

25 mm Hg

20

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OCCASIONS AND PRODUCTION OF TEMPERATURE AND HUMIDITY REQUIREMENTS

		Air conditions			
Industries	Application process	Temperature ℃	Relative humidity %		
	Sugar storage	27	35		
	Caramel cooling	16	40		
	Frosting sugar	27	35		
	Macaroni	21-27	38		
	Cheese	10-21	35-40		
	Dessert raw material storage	-1-4.5	80-85		
	Pie drying	18	20		
	Biscuits, shortbread packaging	16-18	50		
	Potato chips	24-27	20		
	Food drying oven	32-35	2 gr/lb		
	Chocolate coating	32	13		
	Chocolate sugar cooling tunnel	5-7	Below 40		
	Chocolate sugar packaging	18	55		
S	Chocolate storage	16-24	40-50		
Ses	Hard candy production	24-27	30-40		
ĕ	Hard candy mix	24-27	40-50		
Food Process	Hard candy cooling tunnel	13	Below 55		
00	Hard candy package	18	55		
	Concentrate molasses		Below 25		
	Candy store	18-24	45-50		
	Candy dry storage	10-13	50		
	Honey		Below 25		
	Coffee powder packaging	27	20		
	Orange essence packaging	27	15		
	Flour packaging	18-24	50-65		
	Flour storage	18-27	50-65		
	Chewing gum cooling	15-22	50		
	Chewing gum manufacturing	25	33		
	Chewing gum rolling	20	63		
	Chewing gum slice	22	53		
	Gum material stirred	23	47		
	Cereal packaging	24-27	45-50		
	Shell storage	16	13 below		
	Seed drying and storage	10	30		

		Air conditions		
Industries	Application process	Temperature ℃	Relative humidity %	
Wood	Wood drying	35-52	6-8	
Industry	Low temperature drying of wo discoloration a		formation,	
Plywood industry	Process of cold pressure joint	32	15-30	

		Air co	nditions
ndustries	Application process	Temperature ℃	Relative humidity %
	Powder pre-processing storage	21-21	30-35
	Storage of powder after processing	24-27	15-35
	Powder grinding	27	35
	Dry powder	54-71	20
	Antibiotic packing room	26-28	5-15
_	Liver essence taking room	21-27	20-30
	Tableting room	21-27	40
	Tablet coating room	27	35
stri	Subcutaneous injection	24-27	30
DE .	Micro analysis	24-27	50
Pharmaceuticals Industry	Serum	23-26	50
Ö	Glass bottle manufacture	37	35
E.	Foaming agent	32	15
ä	Stimulants	32	15
E	Colloid	21	35
3	Cough syrup	27	40
-	Gland refining agent	26-27	5-10
	Liver refining agent	20-27	20-30
	Animal capsule	26	40
	Capsule storage	24	35-40
	Soft capsules drying	23	≤35
	Penicillin packaging	27	5-15
	Antitussive tablets	21	30
	Biological cultivate room	27	35
	Glass injection	27	35

		Air conditions			
Industries	Application process	Temperature ℃	Relative humidity %		
	Paper processing	27	20		
	Paper or fibre model	27	20		
Plywood industry	Printing and binding	32	30		
" iddou'y	Color printing	24-27	46-48		
	Color printed base paper storage	23-27	49-51		

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OCCASIONS AND PRODUCTION OF TEMPERATURE AND HUMIDITY REQUIREMENTS

		Air conditions			
Industries	Application process	Temperature [®] C	Relative humidity %		
	Special battery manufacturing	20-25	2 below		
	Lithium battery drying room	20-25	1 below		
Electrical Electronic Industry	Electronic parts assembly	20-30	40-45		
	Photoelectric tube vacuum tube assembly	20	40		
	Instrument manufacturing and correction	21	50-55		
	Elect. appliance (seal storage)	22	15		
	Lightning arresters	16	20		
	Electrical control appliances	20	20-40		
	Hygrothermostat	24	50-55		
al Ei	Precision Instruments	22	40-45		
ctrica	Instrument correction	23-24	60-63		
Ele	Fuse link chain	23	50		
	Capacitor manufacturing	23	50		
	Super capacitor manufacturing	23	1		
	Insulation paper storage	23	50		
	Solar light stabilizer	20	20-40		
	NFB switch group testing	25	30-60		
	Rectifier manufacturing	23	30-40%		
	High voltage wire and cable manufacturing	27	1		

		Air conditions			
Industries	Application process	Temperature ℃	Relative humidity %		
	Ammunition stockpiles	2-24	10-50		
Arms	Internal rocket clearance	2	35		
Industry	Rocket installation	27	25		
	Gunpowder storage	Temperature C 2-24 2	50		
	Manufacturing	22-23	50		
Match	Dry drying	21-24	40		
Industry	Storage	16-17	50		
	Fuse storage	Temperature 10 2-24 2 2 27 16-17 22-23 21-24 16-17	40		
		A ******	o ortano o		

	1 doc storage	21	40		
		Air conditions			
Industries	Application process	Temperature ℃	Relative humidity %		
	Dip products		25-30		
	Adhesive products		25-30		
Rubber Industry	Vulcanization		25-30		
<u>c</u>	Tyre line storage		7		
Subbe	Steel spindle room		35		
	Storage of rubber raw materials		40-50		
	ASIM of product testing		50		
	Constant temperature blending process	27	25-30		
stry	Plastic nylon molding machine	80-110	-30℃DP		
Plastic Industry	Raw material drying and storage	27	3-15		
yastic	Plastic heating molding room	27	25-30		
	Plastic sheet processing	21	20		

		Temperature ℃ 24	nditions			
Industries	Application process		Relative humidity %			
Refrigerator manufacturing	Refrigerant control	24	40			
	Such as solenoid valves, expansion valves, etc.					
	Compressor combination	21-24	20-45			
	Wine hops storage	-1-0	60			
	Grain (beer) storage	27	60			
	Distiller's yeast (beer) storage	0-2	75			
È	Beer short storage	0-2	75			
snpu	Barley wine	5-7	75			
0	Hops storage	2	60			
coh	Fermented wine cellar - beer	5-7	75			
pu g	Barley wine	13	75			
000	Shelf type wine cellar	0-2	75			
Tobacco and alcohol Industry	Wheat (wine) storage	16	35-40			
-	Distiller's yeast storage	0-2				
	Brewery process	16-24	45-60			
	Repeat distillation	18-22	50-65			
	Cigars, cigarette manufacturing	20-22	55-65			
Fur ndustry	Fur storage	5-10	55-65			
Indu	Leather storage	24 on valves, etc. 21-24 -1-0 27 0 · 2 0 - 2 5-7 2 5-7 13 0 - 2 16 0 - 2 16-24 18-22 20-22 5-10 -6-52 18-24 21-24 16-27 7-10 21 27 Room temperature 0 - 2 38 27 17-7 45-50 24 20-25	40-60			
	Paper drying	-6-52 40-8				
>±	Paper cutting and packing	0 · 2 0 - 2 5 - 7 2 5 - 7 13 0 - 2 16 0 - 2 16 - 24 18 - 22 20 - 22 5 - 10 - 6 - 52 18 - 24 21 - 24 16 - 27 7 - 10 21 27 Room temperature 0 - 2 28 29 20 20 20 20 20 20 20 20 20 20	40-70			
otograpi quipmer ndustry	Storage of film, paper, etc.	21-24	40-65			
Photography Equipment Industry	Storage of safe film	16-27	40-50			
	Storage of nitrate film	7-10	40-50			
	Parchment storage	21	35			
	Coating and spray paint room	27	Below 50			
	Fertilizer storage		40-50			
	Chipmuck fodder		18-25			
stry	Supply air from coke steel making furnace		40 gr/lb			
Other Industry	Mosquito incense drying	38	3			
Other	Spray tanks	38 3 27 1	1			
	Storage of ceramic clay		35-65			
	Optical appliance room	45-50	45-50			
	Melting chamber	27 1 17-7 35-65 45-50 45-50 24 45 20-25 15-20	45			
	Glass lamination		15-20			
		Air conditions				

		Air conditions		
Industries	Application process	Temperature ℃	Relative humidity %	
y viring	Clock combination	24-27	35-40	
Precision Manufactur Industry	Precision grinding	24-27	45-50	
A Service	Industrial precision keyhole	Temperature ℃ 24-27	35-45	
	Gear machining & assembly	24-27	24-27 35-40	
	Precision components	24	45-55	
sion	General assembly	24-26	35-40	
Precision Machiner Industry	Precision assembly	20-24 45-50		
	General inspection room	20-24	45-50	
	Precision inspection room	20-24 45 20-24 45	45-50	

INQUIRY OF PROJECT DESIGN

Company Name					
Address					
Department					
Contract Person					
E-mail			Mobile		
Size of new drying room(L×W×H),m²					
New drying room f	loor type:				
Cement floor □	Plastic floor □	Self-flowing floor □		Others	
New dry room floor/ total floors			/		
Size of room to place dehumidifier (L×W×H)m²			Location floor		
Number of staff wo	orking in drying room				
Heat production of	fother equips., kW				
Moisture production of other equips., g/h					
Heat production of materials, kcal/h					
Moisture production	on of materials, g/h				
Temperature requ	ired in drying room, ${\mathbb C}$				
Humidity required in drying rooms, %					
Availability of	Yes □	Steam pressure,Mpa			
steam sources	No □				
Availability of	Yes □	Temperature,℃			
chilled water	No □				
Power supply					
Other special requ	iirements:				

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