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Multifunction Dehumidifier



INDOOR SWIMMING POOL MULTIFUNCTION DEHUMIDIFIER DYC SERIES

With more than 30 years of experience in the swimming pool field, we have developed a advanced and dedicated dehumidification equipment for indoor swimming pools to provide a quality and comfortable indoor pool environment while keeping operating costs low. It is designed according to the actual needs of the harsh swimming pool environment in terms of humidity, water temperature, air temperature and engineering application environment. This dehumidification equipment integrates dehumidification, constant temperature, water heating, heat recovery, and fresh air handing. It is suitable for stadiums, natatoriums in schools and universities, commercial pools and hotel leisure pools, therapy pools, etc.

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LASWIM multifunction dehumidifier solution for swimming pool

1. Considering the characteristics of swimming pool water heating but low heating requirements, and high requirements for indoor air temperature, its intelligent design balance the swimming pool heating and air heating requirements perfectly.
2. The multifunction dehumidifier automatically runs regularly according to the preset running time to ensure that that the temperature and humidity of the venue also meet the requirement during idle periods.
3. The multifunction dehumidifier can automatically adjust the number of system startups according to the demand of indoor air heat, thereby reducing the startup frequency of the compressor and prolonging the service life of the unit.
4. Automatically switch the operation mode according to the temperature and humidity of the swimming venue, and humanized automatic control of constant temperature and humidity. Just set the return air temperature and

humidity, and the unit will automatically switch the air temperature of the venue is high, it will automatically cool down the indoor air;

When the air temperature of the venue is low, it will automatically heat the indoor air;

When the air temperature in the venue is suitable but the humidity is high, it will automatically dehumidify.

Technologies

1. Compact design, small footprint
2. High-quality components run stably with low failure rates
3. Environmentally friendly R410A refrigerant
4. Water and electricity are separated for safe operation
5. Modular structure for easy installation and maintenance
6. Greater energy efficiency, reduced running cost

Features:

1. Ultra compact design, small footprint

The DYC series multifunction dehumidifier is specially designed for the actual needs of the project machine room. With compact design, length is 20% shorter than before, and the footprint is small, which increased flexibility and overall value of project construction.

2. One machine with multiple function to meet all seasonal needs of swimming pool

The DYC series multifunction dehumidifier integrates five functions of constant temperature, dehumidification, water heating, heat energy recovery and fresh air handling, and comprehensively creates a high-quality air environment for swimming pools.

3. Automatic control, intelligent, convenient and worry-free

The DYC series multifunction dehumidifier can automatically balance the pool water and air heating, automatically switch the operation mode according to the temperature and humidity of the swimming pool room, automatically dehumidify at a constant temperature, and automatically follow the preset running time to run regularly. Automatically determine the number of automatic startups according to the load of the swimming pool room, effectively avoiding unit damage or fault alarm caused by poor heat dissipation of the outdoor condenser.

4. Large circulating air volume design

The DYC series multifunction dehumidifier is designed with a large circulating air volume, which increases the dehumidification capacity of the unit and greatly improves the user's experience in swimming pool room.

5. Smart design, excellent performance

Through perfect pre-sales service and engineering design, LASWIM provides clients with end-to-end solutions that deliver outstanding performance and customized intelligent design to effectively solve various engineering problems.

Model	LAS40-DYC	LAS50-DYC	LAS65-DYC	LAS80-DYC	LAS100-DYC	LAS120-DYC
Dehumidification capacity(Kg/h)	40	50	65	80	100	120
Heat recovery capacity(kW)	63	79	110	136	164	192
Evaporator cooling capacity(kW)	56	69	95	118	143	167
Air volume(m ³ /h)	10000~12500	11000~15000	14000~18000	16000~20000	20000~27000	23000~31000
External residual pressure(Pa)	450	450	450	450	450	550
Power supply(V/P/Hz)	380V/3N/50Hz					
Rated input power(kW)	21.62	28.46	33.66	42.04	50.74	59.94
Rated input current(A)	62	81	96	120	145	171

Net weight(Kg)	1550	1650	1750	2050	2350	2550
L(mm)	3885	3985	4085	4485	5135	5385
Dimension W(mm)	1534	1735	1735	1834	2070	2070
H(mm)	1370	1370	1670	1900	1900	1900
Fan						
Quantity(Set)	2					
Fan type	Centrifugal					
Fan motor total input power(kW)	8.5	11.5	11.5	15	18.5	22.5
Compressor						
Quantity(Set)	1	1	1	1	2	2
Compressor type	Scroll					
Compressor total input power(kW)	12.2	15.1	20.3	25.2	30.4	35.6
Cooling coil(Optional)						
Cooling capacity(kW)	60	60	80	120	120	160
Cold water flow rate(m ³ /h)	10.3	10.3	13.8	20.7	20.7	27.6
Heating capacity(kW)	76	76	101	151	151	202
Hot water flow rate(m ³ /h)	7.2	7.2	9.8	14.6	14.6	19.8
Pressure drop(KPa)	40	40	42	45	45	48
Inlet/outlet size	DN40	DN40	DN50	DN65	DN65	DN65
Pool water condenser						
Heat exchanger type	Titanium shell and tube type					
Heating capacity(kW)	21	26	33	41	49	58
Working pressure resistance(MPa)	0.4					
Water pressure drop(KPa)	37	38	42	44	45	46
Max.water temperature(°C)	40					
Water flow rate(m ³ /h)	6	7	9	12	14	17
Inlet/outlet size	De50	De50	De50	De63	De63	De63
Outdoor condenser quantity(Set)	1	1	1	1	1	1
Input power(kW)	0.92	0.92*2	0.92*2	0.92*2	0.92*2	0.92*4
Dimension L*W*H(mm)	1232*972*1110	1651*936*1037	1651*936*1037	1981*1060*1315	1981*1060*1315	1651*936*1037 1651*936*1037
Connecting pipe diameter	φ22/φ19	φ28/φ22	φ35/φ28	φ35/φ28	φ22/φ19 φ35/φ28	φ28/φ22 φ35/φ28
Outdoor condenser model	LAS12PL	LAS15PL	LAS20PL	LAS25PL	LAS30PL	LAS15PL+LAS20PL

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Model	LAS140-DYC	LAS150-DYC	LAS165-DYC	LAS180-DYC	LAS100-DYC
Dehumidification capacity(Kg/h)	140	150	165	180	200
Heat recovery capacity(kW)	217	245	271	299	327
Evaporator cooling capacity(kW)	189	213	236	260	284
Air volume(m ³ /h)	26000~34000	30000~40000	32000~42000	36000~46000	40000~52000
External residual pressure(Pa)	550	550	550	550	550
Power supply(V/P/Hz)	380V/3N/50Hz				
Rated input power(kW)	64.54	73.14	78.04	86.74	95.84
Rated input current(A)	184	208	222	247	273
Net weight(Kg)	2850	3050	3350	3500	3650
L(mm)	5435	5500	5700	6000	6000
Dimension W(m)	2070	2200	2400	2400	2650
H(mm)	2200	2200	2300	2450	2450
Fan					
Quantity(Set)	2				
Fan type	Centrifugal				
Fan motor total input power(kW)	22.5	26	26	29.5	33.5
Compressor					
Quantity(Set)	2	2	2	3	3
Compressor type	Scroll				
Compressor total input power(kW)	40.2	45.3	50.2	55.4	60.5
Cooling coil(Optional)					
Cooling capacity(kW)	160	180	200	240	300
Cold water flow rate(m ³ /h)	27.6	31	34.4	41.3	51.6
Heating capacity(kW)	202	227	252	302	378
Hot water flow rate(m ³ /h)	19.8	22.1	25	30.1	36.8
Pressure drop(KPa)	48	49	49	51	52
Inlet/outlet size	DN65	DN65	DN80	DN80	DN100
Pool water condenser					

Heat exchanger type	Titanium shell and tube type				
Heating capacity(kW)	65	73	81	90	98
Working pressure resistance(MPa)	0.4				
Water pressure drop(KPa)	46	47	47	48	50
Max.water temperature(°C)	40				
Water flow rate(m³/h)	19	21	23	26	28
Inlet/outlet size	De63	De63	De63	De75	De75
Outdoor condenser quantity(Set)	1	2	2	2	2
Input power(kW)	1.7*2	0.93*2/0.9 2*2	0.92*2	0.92*2	0.93*2/1.7*2
Dimension L*W*H(mm)	2306*1138* 1432	1651*936 *1037 1981*106 0*1315	1981*1060* 1315 1981*1060* 1315	1981*10 60*1315 1981*10 60*1315	1651*936*10 37 2306*1138*1 432
Connecting pipe diameter	φ35/φ28/φ 35/φ28	φ35/φ28/ φ35/φ28	φ35/φ28/φ 35/φ28	φ35/φ28 /φ35/φ2 8	φ35/φ28/φ3 5/φ28/φ22/φ 19
Outdoor condenser model	LAS40PL	LAS20PL +LAS25P L	LAS25PL+ LAS25PL	LAS25P L+LAS3 0PL	LAS20PL+L AS40PL

Remarks:

Testing condition: ambient air temperature 29°C, RH65%, pool water condenser inlet water temperature 26°C, outlet water temperature 28°C, outdoor temperature 32°C;

Pool water condenser: if cooling or heating capacity is insufficient, auxiliary cooling/heating coil can be selected according to the actual heat exchange demand. The cooling capacity is calculated as inlet water temperature 60°C.

External residual pressure can be adjusted as required.

Outdoor condenser can be set to a water-cooled condenser according to user's requirements.

The unit structure can be made into split structure according to user's requirements.

The data is subject to change without prior notice due to product improvements.

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