

Indoor Pool Environment Control System

One System Delivers Everything You Need!

- Dehumidification
- Air Heating
- Pool Water Heating
- Air Conditioning
- Ventilation

Indoor Pool

Environment Control System

Blueway Indoor Pool Environment Control Systems provide effective control of damaging moisture common within indoor pool facilities. They maintain a delicate balance of humidity control and manage air and water temperatures for maximum comfort at the lowest cost. This series uses heat pump technology to dehumidify the space and recycle the waste energy to heat both the air and pool water. They are available in many sizes and a variety of configurations for large indoor pools found in hotels, schools, natatoriums, aquatic centers and water parks.

Built for the Corrosive Pool Environment

Blueway dehumidifiers have many special design features to minimize maintenance and extend the life of the unit. All critical components are located out of the corrosive air stream, and coils are constructed from all copper and coated aluminum fins for long life. Blueway uses full-size air/water condensers for maximum pool and air heating or cooling. It utilizes a sophisticated PLC (Programmable Logic Controller) that offers highly efficient control strategies for more efficient intelligent pool operation. All units are constructed of heavy-gauge steel with side and roof panels galvanized and epoxy powder coated to resist corrosion. Panel insulation provides additional energy efficiency along with sound control for indoor and outdoor installations.



Recycled Energy Lessens the Need for Fossil Fuel Heating

Indoor pools demand large quantities of heat to maintain space and water comfort conditions. Rather than relying on fossil fuel as the primary heat source, Blueway units utilize waste heat generated during dehumidification to heat the space and pool water. Blueway units return much more energy than they use with average recorded savings ranging from 40% to 60% over conventional outside air dilution systems. For every kilowatt of electrical power used to operate a Blueway system, five kilowatts of heat are delivered to the natatorium air and water.

High Efficiency and Environmentally Friendly

All models use environmentally-friendly R417A or R410A refrigerant and deliver excellent performance characteristics. Staged compressor cycling ensures minimum compressor operation for any given load for greater efficiency, and also maintains a high quality environment. The systems can be configured to return condensate back to the pool, saving the equivalent of the entire pool's volume over one year. For improved air quality, plasma filters can be added.

Rugged Features delivers Unrivalled Performance

- Scroll compressor, efficient and quiet operation
- Coated evaporator and reheat condenser coils, long life
- Titanium Tube-in-Shell water heat exchanger
- Powder coated cabinet, corrosion resistant
- PLC controller with user friendly interface
- Remote monitoring by phone or internet
- Self diagnosis



Indoor Pool Environment Control System

Model			BHP	15	20	25	30	40	50	60	80	100	120	160
Power Supply			V/P/Hz	380-415/3/50 or 208-2303/60										
Output	Cooling		kW/h	25	33	41	51	65	82	97	131	163	192	241
	Heating		kW/h	30	39	47	60	78	106	128	170	214	243	280
Dehumidification capacity			Kg/h	17	22	26	33	43	51	62	84	102	122	160
Application pool surface			m ²	68	88	104	132	172	204	248	336	408	488	640
Rated Airflow			m ³ @300Pa	4000	5000	6000	7500	9000	11000	13000	16600	21000	25000	32000
Blower	Qty		Nos.	2	2	2	2	2	2	2	2	2	2	2
	Type		-	Centrifugal										
	Static pressure		Pa	100-500	100-500	100-500	100-500	100-850	100-850	100-850	100-850	100-850	100-850	100-850
	Power input		KW	1.5	1.5	2.2	2.2	3.5	4	5.5	6	7	7.5	11
Compressor	Qty		Nos.	1	1	1	2	2	2	2	2 or 4	2 or 4	2 or 4	2 or 4
	Type		-	Scroll										
	Power input		KW	5.5	7	8.5	5.4	7	8.5	11	7 or 13	8.5 or	11 or 22	13 or 25
Water Heat Exchanger	Type		-	Titanium Tube in PVC Shell										
	Rated working		Mpa	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Max. water		°C	40	40	40	40	40	40	40	40	40	40	40
	Rated water		m ³	4.7	6.1	7.2	9.4	12.2	14.5	18.8	24.6	30.6	37.5	48
Condenser	Water		mm	32	32	38	50	50	63	63	75	75	90	100
	Qty		Nos.	1	1	1	1	1	1	1	2	2	2	2
	Rated capacity		KW	30	39	47	60	78	96	118	150	184	223	278
	Rated airflow		m ³	10000	12000	15000	20000	24000	30000	40000	48000	60000	80000	90000
Air Cooled Condenser	Nos. of fan		Nos.	1	1	1	2	2	2	2	4	4	4	4
	Fan motor		KW	0.82	0.82	1.65	0.82	0.82	0.82	0.82	0.82	0.82	1.1	1.1
	Outdoor condenser	W	mm	706	1450	1450	1450	1800	1850	2110	1800	1850	2110	2500
	Outdoor condenser	D	mm	686	705	705	705	705	1000	1100	1000	1000	1100	1200
Dimension	Outdoor condenser	H	mm	940	1065	1065	1065	1065	1320	1350	1320	1320	1350	1350
	Indoor main unit	W	mm	3600	3800	3600	3800	4200	4600	4900	5400	5800	6600	7000
	Indoor main unit	D	mm	1370	1520	1570	1670	1670	1930	2160	2200	2200	2150	2200
	Indoor main unit	H	mm	1160	1160	1260	1360	1450	1520	1690	1840	2150	2200	2500
Indoor Main Unit Weight			Kg	500	800	900	1200	1500	1650	1850	2200	2500	2700	3300

Notes:

- The above ratings are based AHRI standard 910-2011 (Performance Rating of Indoor Pool Dehumidifiers): Outdoor ambient DB 35 °C, Pool water temp. 27 °C, Chiller water temp. 7 °C;
- The design and specifications are subject to change without notice.



BLUEWAY PORTABLE DEHUMIDIFIER

FEATURES:

- Compact & elegant design;
- Strong airflow and quiet operation;
- Digital control panel displaying RH value;
- RH control range: 30% - 90%;
- 24 hours timer;
- Piston compressor, tropical for high ambient conditions;
- Eco friendly R417A /R134A refrigerant, no depletion to ozone layer;
- Auto defrost;
- Built-in handle (optional);
- Casters with brake;
- Big wheels for option;
- Compressor overheat protection

Portable Dehumidifier

Model			RDH-138-A	PDH-138-A
Power supply		V/Hz/Ph	220-240/50/1 or 208-230/60/1	220-240/50/1 or 208-230/60/1
Moisture removal/Day	26.7°C, R.H.60%	L/Day	91	91
	30°C, R.H.80%	L/Day	130	130
Air delivery (Hi/Mi/Lo)		m3/h	600	600
Power input formotor		W	80	80
Noise level (Hi/Mi/Lo)		dB(A)	45	45
Refrigerant type		-	R417A / R134A	R417A / R134A
Dehumidifying capacity		kg/h	6	6
Application area		m2	150	150
Power consumption	26.7°C, R.H.60%	W	810	810
	30°C, R.H.80%	W	850	850
Design pressure	Hi/Lo	Mpa	2.4/0.7	2.4/0.7
Working range		°C	5-43	5-46
Control	Mechanical / Electronic	-	OPTION	OPTION
Compressor	Type		Rotary	Piston
	Capacity	W	5600	5568
	Input	W	1750	1930
	Rated current	A	8	9
Size W x D x H	Net	mm	480*400*940	480*400*940
	Packing	mm	530*460*980	530*460*980
Weight	Net	Kg	68	68
	Packing	Kg	65	65
Loading	20'/40'/40'HC	Kg	110/220/220	110/220/220





FOSHAN BLUEWAY ELECTRIC APPLIANCES CO.,LTD.

ADD: 2-9# Zhanye Rd,Honggang Industrial Area,Shunde District,Foshan Guangdong

Tel: +86 757 22629989 / 22629286

Fax: +86 757 26154598

Email: info@heatpumpworld.com

Website: www.blueway.hk

www.heatpumpworld.com