

TEMPERATURE CONTROL 14/13

AQUA POOL DEHUMIDIFIERS WITH HEATING & COOLING FUNCTION

✓ Technical features

AQUA Indoor Environmental Control Systems, provide effective control of damaging moisture, common with 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 centres and water parks.

BUILT FOR THE CORROSIVE POOL ENVIRONMENT

AQUA 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 aluminium fins for long life. AQUA uses full-size air/water condensers for maximum pool and air heating or cooling. It utilizes a sophisticated controller that offers high 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, AQUA units utilise waste heat, generated during dehumidification to heat the space and pool water. AQUA 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 AQUA system, five kilowatts of heat are delivered to the natatorium and water. friendly interface - Self diagnosis

HIGH EFFICIENCY AND ENVIRONMENTALLY FRIENDLY

All models use R22 or R417A refrigerant and deliver excellent performance characteristics. Stage compressor cycling ensures minimum compressor operation for any given load for greater efficiency, and also maintains a high quality environment.

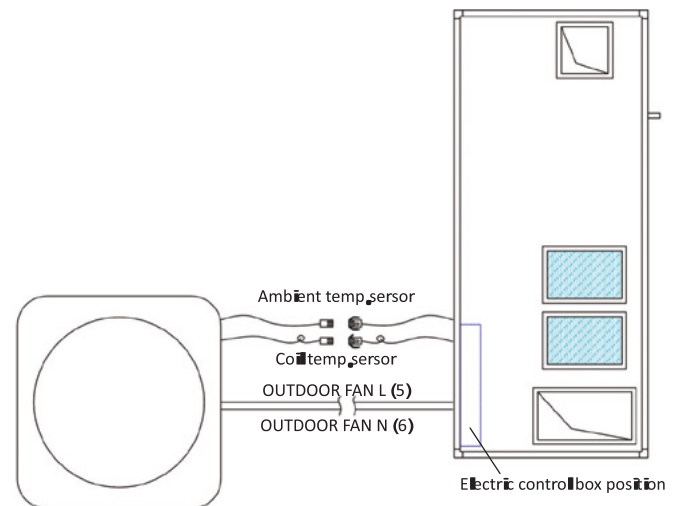
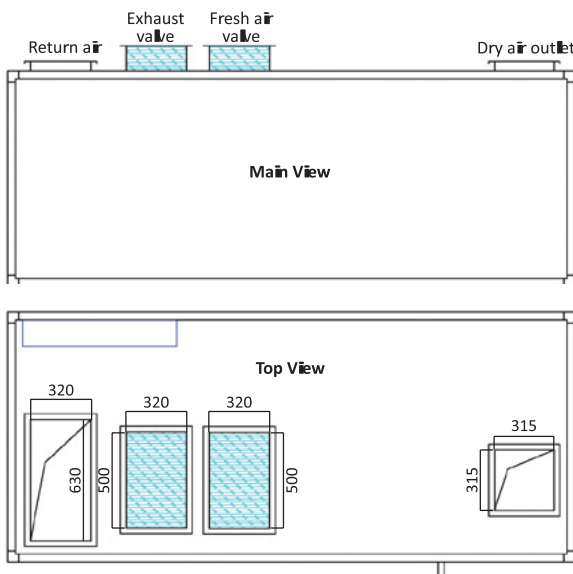
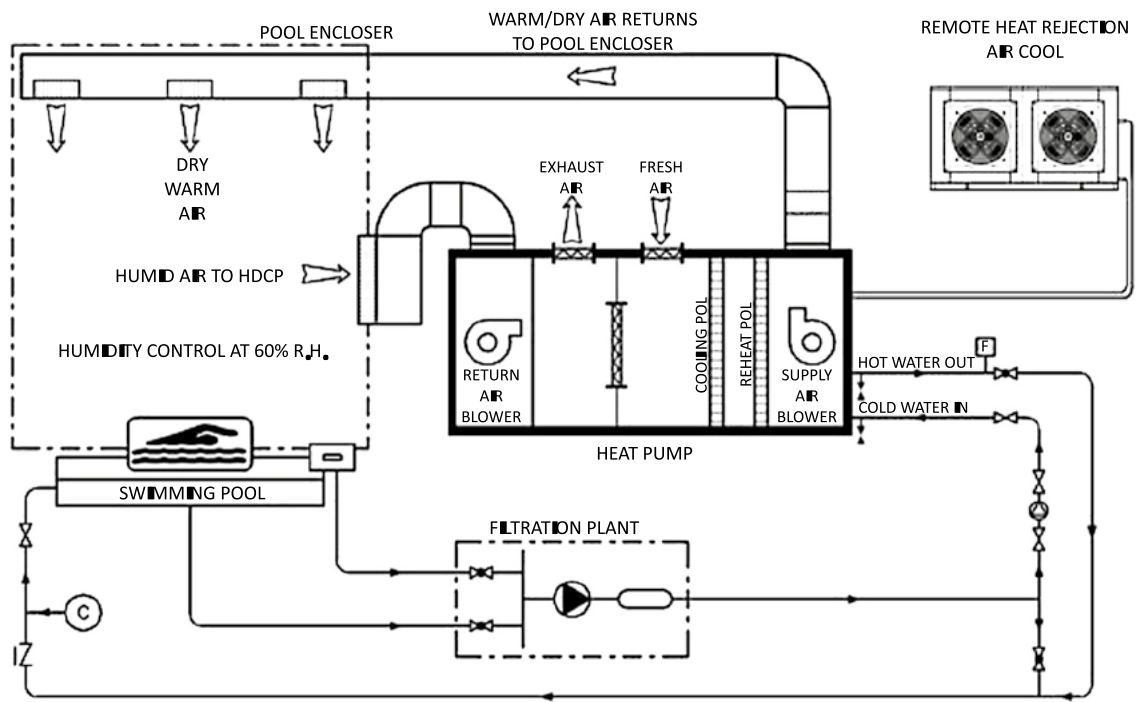
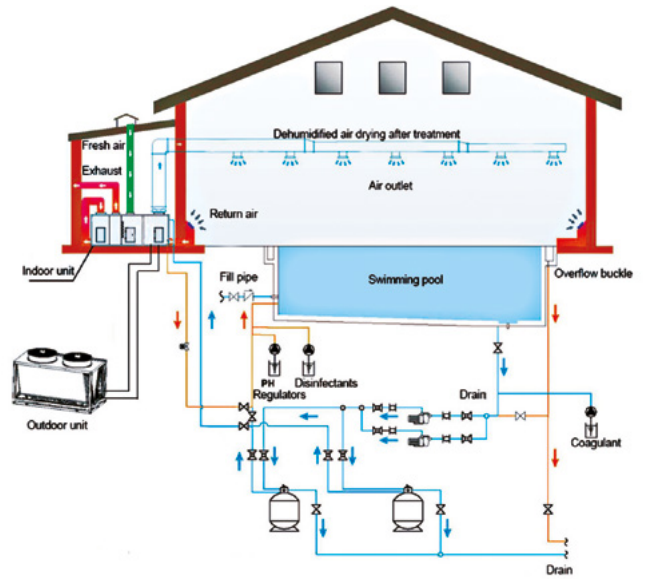


- Room hygrostat and thermostat
- Automatically switches mode from heat to cool
- Optional digital controller with display

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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 unrivaled 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
- Controller with user friendly interface
- Self diagnosis



Models

			AD-15	AD-20	AD-25	AD-30	AD-40	AD-50	AD-60	AD-80	AD-100	AD-120	AD-160	
POWER SUPPLY		V/P/Hz	380-415/3/50											
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 AREA		m ²	68	88	104	132	172	204	248	336	408	488	640	
RATED AIRFLOW		m ³ @ 300 Pa	4000	5000	6000	7500	9000	11000	13000	16600	21000	25000	32000	
BLOWER	.QTY		2	2	2	2	2	2	2	2	2	2	2	
	TYPE		CENTRIFUGAL						CENTRIFUGAL					
	STATIC PRESSURE RANGE	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		1	1	1	2	2	2	2	or 4 2	or 4 2	or 4 2	or 4 2	
	TYPE													
	POWER INPUT	kW	5.5	7	8.5	5.4	7	8.5	11	or 13 7	or 8.5 16.5	or 22 11	or 25 13	
WATER HEAT EXCHANGER CONDENSER	RATED WORKING PRESSURE	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 TEMPERATURE	C°	40	40	40	40	40	40	40	40	40	40	40	
	RATED WATER FLOW RATE	m ³	4.7	6.1	7.2	9.4	12.2	14.5	18.8	24.6	30.6	37.5	48	
	WATER CONN. SIZE	mm	32	32	38	50	50	63	63	75	75	90	100	
AIR COOLED CONDENSER	.QTY		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	
	NO.OF FANS		1	1	1	2	2	2	2	4	4	4	4	
	FAN MOTOR POWER INPUT	kW	0.82	0.82	1.65	0.82	0.82	0.82	0.82	0.82	0.82	1.1	1.1	
DIMENSIONS	OUTDOOR CONDENSER	mm	706	1450	1450	1450	1800	1850	2110	1800	1850	2110	2500	
		mm	686	705	705	705	705	1000	1100	1000	1000	1100	1200	
		mm	940	1065	1065	1065	1065	1320	1350	1320	1320	1350	1350	
	INDOOR MAIN UNIT	mm	3000	3600	3600	3800	4200	4600	4900	5400	5800	6600	7000	
		mm	1300	1520	1570	1670	1670	1930	2160	2200	2200	2150	2200	
		mm	1200	1200	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	
PACKING			1	1	1	1	1	1	1	1	1	1	1	

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Your global partner since 1974. Trusted for superior quality and exceptional innovations.



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