



THREE-IN-ONE DEHUMIDIFICATION HEAT PUMP



QH



Applicable to private swimming pool, senior club pool, hotel and other newly built and remodeled indoor swimming pool projects.

The product is a unified control device which integrates dehumidification, water heating, cooling, constant temperature, intelligent ventilation and precision control. The advanced intelligent ventilation control function can realize the function of ventilation control and the transition time ventilation control, maintaining high quality human body comfortable environment. Can be fully controlled indoor relative humidity of 50~75%, air temperature at 27~30°C, water temperature at 26~40°C, advanced intelligent ventilation control to maintain indoor high-quality human comfort.

Features: Five functions integrated design, pool space dehumidification, simultaneously recovering heat, heating air and water, and to achieve intelligent ventilation and precision adjustment function, compared with the traditional ventilation and dehumidification, the average cost savings between 40% to 60%.

Specification and size:

- **Nominal working conditions:** return air dry bulb temperature 28°C, relative humidity is 65%, outdoor dry bulb temperature is 32°C.
- **Pool water conditions:** the pool inlet temperature is 26°C, the pool outlet temperature is 28°C.
- **Water coil cooler:** The temperature of the cold water inlet and outlet water is 7°C / 12°C, and the temperature of the hot water inlet and outlet water is 60°C / 50°C.

Indoor Unit Part

Model		QH10G	QH15G	QH20G	QH25G	QH30G	QH40G	QH50G	QH60G	
Max Cooling Capacity	kW	17.8	23	32	37	45	60	72	85	
Max Heating Capacity	kW	21.3	27	35	41	54	71	84	115	
Dehumidification Capacity	kg/h	10	15	20	25	30	40	50	60	
Rated Air Volume	m ³ /h	3000	3500	4000	4800	5500	7200	10000	12000	
Fresh Air Volume	m ³ /h	0-1000	0-1150	0~1200	0~1440	0~1650	0~2250	0~3000	0~3600	
Rated Wind Pressure	Pa	250	250	300	300	350	400	500	500	
Pool Water Heating	kW	25	27	38	42	58	80	91	112	
Pool Water Cycle	m ³ /h	6	7.2	8.5	9	11	15	18	21	
Inlet/Outlet Pipe Size		DE50 Live joint	DE50 Live joint	DE50 Live joint	DE50 Live joint	DE50 Live joint	DE50 Live joint	DE50 Live joint	DE75 Flange	
Cooler Pipe Size (*Matching Air)		DN32 Male thread	DN32 Male thread	DN32 Male thread	DN32 Male thread	DN32 Male thread	DN32 Male thread	DN40 Male thread	DN40 Male thread	
Condensate Drain Pipe Size		DE32 Inner teeth	DE32 Inner teeth	DE32 Inner teeth	DE32 Inner teeth	DE32 Inner teeth	DE32 Inner teeth	DE32 Inner teeth	DE32 Inner teeth	
Power Type	V/PH/Hz	380/3/50								
Maximum medium input power	kW	6.7	7.73	9.5	10.08	13.82	20.02	24.75	27.05	
Number Of Indoor Units	pcs	1	1	1	1	1	1	1	1	
Indoor Unit Dimensions	Length	mm	2025	2025	2025	2025	2125	2125	2625	2625
	Width	mm	1000	1000	1000	1000	1200	1200	1600	1600
	Height	mm	1805	1805	1805	1805	2105	2105	2405	2405
Weight	kg	350	400	530	600	720	800	950	1150	

Outdoor Unit Part

Power Type	V/PH/Hz	380/3/50								
Outdoor unit fan input total power	kW	0.5	0.5	0.5	0.5	1	1	1	1.2 2	
Outdoor Unit Dimensions	Length	mm	775	775	1420	1420	1420	1420	1420	1420
	Width	mm	760	760	760	760	760	760	760	760
	Height	mm	1040	1040	890	890	1040	1040	1475	1040
Number Of Outdoor Units	pcs	1	1	1	1	1	1	1	2	
Connecting Pipe	mm	12.7/19	12.7/19	16/22	16/22	28/19	28/19	28/19	28/19	
Weight	kg	70	70	70	70	100	100	100	100x2	