

COOLING UNIT

In the Gulf region, it's not easy to get cold tap water for either residential, commercial or industrial uses, this is due to the extremely high temperatures, especially in summer.

Although some solutions are currently available, which are inefficiency in terms of energy consumption and durability, **Siema** has designed a water cooling system that cool off tap water using energy saving system and uses ECO-Friendly R410 gas. PV cells can also be added to the system to further reduce energy consumption.

High thermal insulated tanks can be customized in multiple sizes to suit any requirement, whether it's for home use, swimming pools, corporate buildings or hotels.



Water cooling machine KZEX TYPE Built-in Exchanger

item	KZEX- 9000 25btu		KZEX- 12000 35btu		KZEX- 18000 50btu		KZEX 24000 70btu		KZEX- 36000 100btu	
Rating out-water temperature()	5-30		5-30		5-30		5-30		5-30	
Power voltage/frequency(V/Hz)					220/50		220/60			
Cooling capacity(BTU)	9000		12000		18000		24000		36000	
Input power(kw)	0.7		1.1		1.6		2.2		3.8	
Input current(A)	3.8		5.0		7.2		10.0		17.3	
Min out-water temperature()	5		5		5		5		5	
Quality(kg)	30		35		40		50		80	
Noise(Db(A))	≤50		≤50		≤50		≤55		≤55	
Take-over dimension(mm)	40		40		40		50		50	
Water-box capacity(L)	80	150	160	250	220	350	300	450	500	700
Cooling speed 35 To 18 (MIN)	15	35	15	35	15	35	15	35	15	35
Cooling speed 35 To 7 (MIN)	38	100	38	100	38	100	38	100	38	100

Water cooling machine KZ TYPE

Used in separated, indirect (closed loop) system.

The hot water is transferred through a pump to the coil of the cylinder that works as exchanger transferring the heat to the domestic water around the coil.

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Rating out-water temperature()	5-30		5-30		5-30		5-30		5-30	
Power voltage/frequency(V/Hz)					220/50		220/60			
Cooling capacity(BTU)	9000		12000		18000		24000		36000	
Compressor					Rotary T3 compressor GMCC brand					
Input power(kw)	0.9		1.1		1.6		2.2		3.3	
Input current(A)	4.1		5.0		7.2		10.0		15.0	
Min out-water temperature()	5		5		5		5		5	
Quality(kg)	30		35		40		50		80	
Noise(Db(A))	≤50		≤50		≤50		≤52		≤52	
Net Dimensions(mm)	540×240×760		540×240×760		680×300×800		840×350×950		840×350×950	

- 1 Outdoor Unit
- 2 Water Tank
- 3 Refrigerant Connection Pipe.
- 4 Cold Water Inlet.
- 5 Cold Water Outlet.
- 6 Domestic Water.

