



[www.coolairaustralia.com](http://www.coolairaustralia.com)

# **Solar Inverter Airconditioners Solar Central Absorbtion Chiller Airconditioning**



**10 years Guarantee on solar panel!  
65-100% SAVE ENERGY!  
ENERGY SELF-SUFFICIENCY!**

# + Coolairaustralia Corp.

Coolairaustralia Corp. is the world leader in SAVE ENERGY HAVAC Building & Industrial systems. At coolairaustralia corp., we manufacture, sell, install & service more save energy systems than any other commercial HAVAC company in the industry, and we are proud to provide many exclusive benefits to our institutional and commercial clients:

1. 100% satisfaction guarantee
2. Asset Management Reporting
3. Proactive HAVAC Maintenance & Replacement
4. Certified Repair service, 24/7/365
5. 65-100% SAVE ENERGY SELF-SUFFICIENCY

Coolairaustralia Corp. is a company founded on a history of inovation. Beginning with aircoolers 20 years ago, Coolairaustralia's pivotal invention of the first inverter aircooling system, Coolairaustralia has consistently introduced new technologies and industry "firsts" that have forever changed the way we live, work and play.

From revolutionary improvements to solar dc inverter airconditioning systems, solar absorbtion chillers, Heat & Energy Recovery Ventilation systems, Biomass from municipality waste, Coolairaustralia Corp. is committed to creating new possibilities that enhance people's comfort and improve their lives.

Coolairaustralia Corporation has been a natural leader. Not simply for the fact that we constantly create entirely new and innovative save energy products, but because when we do so, we set the standard in environmental responsibility. Coolairaustralia leads the way for only natural save energy products!

We invite you to view our showcase of successful installations, gain a glimpse into the revolutionary vision behind the development of modern save energy air conditioning, and learn about Coolairaustralia's dedication to balancing the promise of innovation with the critical need to preserve our environment for generations to come.



# + 100% Solar Central Air - conditioning System



• The solar absorption chiller systems uses hot water produced from the solar collectors to produce cooling & heating & distribute it to indoor specified areas through fan coil units. It can also provide hot water for the needs of the building & heat up swimming pools etc.

\* The solar absorption systems consists of lithium bromide absorption chiller, control box, cooling water tower, chilled water pump, cooling water pump, hot water pump & adjusting valve, filters of chilled, cooling water & hot water, triple valve, vacuum pump, solar collectors, hot water boiler, hot water tank, drain, hot water triple valve, fan coil units.

\* Excellent complete save nergy solution for schools, hotels, municipalities, new buildings, commercial places, etc.

## Solar absorption chiller models

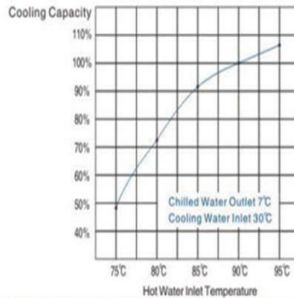
Hot Water Absorption Chiller	KRXZ-11.5	KRXZ-23	KRXZ-35	KRXZ-58	KRXZ-115	KRXZ-230	KRXZ-290	KRXZ-350
Integrated Hot-water Chiller	KTX-11.5	KTX-23	KTX-35	KTX-58	KTX-115	KTX-230	KTX-290	KTX-350
Required Solar Collector Area m <sup>2</sup>	54	108	162	270	540	1080	1350	1620
Air Conditioning Area m <sup>2</sup>	80-100	150-200	250-300	400-500	800-1000	1500-2000	2000-2500	2500-3000

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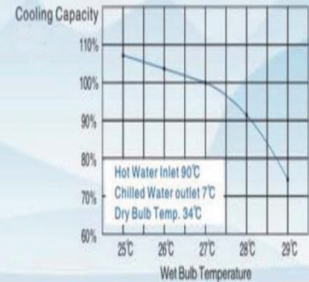
# + 100% Solar Central Air - conditioning System

## Performance Curves for Hot water absorption chillers

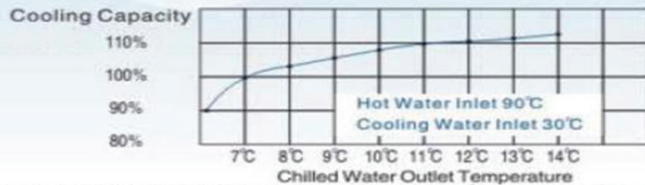
Cooling Capacity Vs Hot water Inlet Temp.



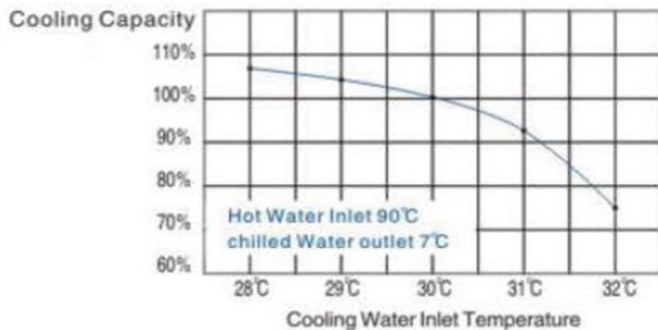
Cooling Capacity Vs air temperature



Cooling Capacity Vs Chilled Water Outlet Temp.



Cooling Capacity Vs Cooling Water Inlet Temp



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The solar central airconditioning system consists of lithium bromide absorption chiller, control box, cooling water tower, chilled water pump, cooling water pump, hot water adjusting valve, filters of chilled, cooling water and vacuum pump.

- ✓ 10 years warranty on solar panel!
- ✓ 100% save energy!
- ✓ Energy Self-Sufficiency!

## Integrated Hot Water Chiller Parameters

Model	KTX-11	KTX-23	KTX-35	KTX-58	KTX-115	KTX-175	KTX-230	KTX-290	KTX-350	
Cooling Capacity Kw	11.5	23	35	58	115	175	230	290	350	
Hot Water	Flow Rate m <sup>3</sup> /h	2.9	5.8	8.6	14.3	28.5	42.8	57.0	85.3	
	Inlet/Outlet Temp.	90 / 85°C								
	Inlet/Outlet Dia.	DN25	DN40	DN40	DN50	DN65	DN80	DN100	DN100	DN125
	Pressure Loss MPa	0.08	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06
Chilled Water	Flow Rate m <sup>3</sup> /h	2.0	4.0	6.0	10.0	20.0	30.0	40.0	50.0	60
	Inlet/Outlet Temp.	15 / 10°C								
	Inlet/Outlet Dia.	DN25	DN32	DN32	DN50	DN65	DN65	DN80	DN80	DN100
	Pressure Loss MPa	0.06	0.03	0.03	0.04	0.05	0.05	0.05	0.05	0.05
Power consumption Kw	1.0	1.7	2.3	2.8	5.3	10.0	13.8	17.5	21.2	
Dimension	Length mm	1675	1675	1950	3050	3500	3000	3500	2800	3700
	Width mm	1675	1675	1825	1900	1100	1780	1780	1600	1600
	Height mm	2130	2130	2130	2375	2160	2450	2450	2400	2400
Shipping Weight Kg	1000	1000	1500	2200	3300	4100	5000	6200	7000	
Including or Excluding Cooling Towers	Include				Excluding					

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The solar central air conditioning system consists of lithium bromide absorption chiller, control box, vacuum pump and hot water adjusting valve.

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## Small Type Hot Water Absorption Chiller Parameters

Model		KRXZ-11	KRXZ-23	KRXZ-35	KRXZ-58	KRXZ-115	KRXZ-175	KRXZ-230	KRXZ-290	KRXZ-350
Cooling Capacity Kw		11	23	35	58	115	175	230	290	350
Hot Water	Flow Rate m <sup>3</sup> /h	2.9	5.8	8.6	14.3	28.5	42.8	57.0	71.0	85.3
	Inlet/Outlet Temp.	90 / 85 °C								
	Inlet/Outlet Dia.	DN25	DN40	DN40	DN50	DN65	DN80	DN100	DN100	DN100
	Pressure Loss MPa	0.08	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06
Chilled Water	Flow Rate m <sup>3</sup> /h	2.0	4.0	6.0	10.0	20.0	30.0	40.0	50.0	60
	Inlet/Outlet Temp.	15 / 10°C								
	Inlet/Outlet Dia.	DN25	DN32	DN40	DN50	DN65	DN65	DN80	DN80	DN100
	Pressure Loss MPa	0.06	0.03	0.03	0.04	0.05	0.05	0.05	0.05	0.05
Cooling Water	Flow Rate m <sup>3</sup> /h	5	10.0	15.0	25.0	50.0	75.0	100.0	125.0	150
	Inlet Temp.	30°C								
	Inlet/Outlet Temp.	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN125	DN150
	Pressure Loss MPa	0.05	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06
Dimension	Length mm	600	1010	1410	1800	2755	2305	3105	2800	3700
	Width mm	700	785	785	920	970	1160	1160	1600	1600
	Height mm	1900	1622	1622	1820	1990	2280	2280	2400	2400
Power Consumption Kw		0.15	0.3	0.3	0.3	0.37	0.9	1.1	1.1	1.1