











Data collection on innovative solar cooling and heating systems among IEA SHC Task 53

This table will be part of the report *State of the art of new generation commercially available products of TASK 53*

Logo	Manufacturer, country	Market status	Service	Solar input type	Nominal cooling capacity (kW or m <sup>3</sup> /h)	Nominal heating capacity (kW)	Nominal solar input (Wp for PV and m <sup>2</sup> for ST)	Cooling Storage	Target market area	Heat rejection	Back up	Other	Website
	ATISYS, France	R&D	Cooling/heating	PV	4 kW	5.1 kW	4.6 kW	Sensible tank	France, Northern Africa	Air	Grid	R290 chiller, short term elec. battery	<a href="http://www.atisys-concept.com">www.atisys-concept.com</a>
	CLIMATEWELL, Sweden	R&D	Cooling/heating/DHW	ST	40 kW	108 kW	180 m <sup>2</sup>	Sensible tank	Europe, sunny countries	Air	Electric chiller (390 kW)	Adsorption (LiCl/H <sub>2</sub> O)	<a href="http://www.climatewell.com">www.climatewell.com</a>
	FREECOLD, France	Commercial	Cooling	PV	2.5 kW	No heating	1.5 kW	-	Africa, developing countries	Air	Grid	solar input 24VDC, elec. battery possible	<a href="http://www.coldinnov.com/en">www.coldinnov.com/en</a>
	FREESCOO, Italy	R&D	Cooling/heating	ST/PV	500 m <sup>3</sup> /h	1.44 kW	2.4 kW	-	Italy	Air		Desiccant technology	<a href="http://www.freescoo.com/solarinvent">www.freescoo.com/solarinvent</a>
	GREE, China	R&D	Cooling/heating	PV	33.5 kW	37.5 kW	12.2 kW	None	China	Air	Grid	VRF	<a href="http://www.greeac.com">www.greeac.com</a>
	KAYSUN, Spain	Commercial	Cooling/heating	PV	3.5 kW	3.5 kW	0.7 kW	None	Spain, Europe	Air	Grid	Scroll, no battery	<a href="http://www.kaysun.es/es">www.kaysun.es/es</a>
	PURIX, Denmark	Commercial	Cooling/heating	ST	2.5 kW	3.6 kW	4.8 m <sup>2</sup>	None	Europe, sunny countries	Air	Boiler	Absorption (LiBr/H <sub>2</sub> O)	<a href="http://www.purix.com">www.purix.com</a>
	SENR, France	Commercial	Cooling/heating	PV	3.6 kW (split) 45 kW (VRF)	3.6 kW (split) 50 kW (VRF)	0.65 kW (split) 20 kW (VRF)	None	France, Europe, sunny countries	Air	Grid	Scroll, battery possible	<a href="http://www.senr.fr">www.senr.fr</a>
	SOLABCOOL, Netherlands	R&D	Cooling/heating	ST	4.5 kW	8 kW	13.3 m <sup>2</sup>	None	Europe, sunny countries	Air	District heating	Silicagel-water adsorption cooling machine	<a href="http://www.solabcool.com">www.solabcool.com</a>
	YAZAKI, Japan	R&D	Cooling/heating	ST	35 kW	60 kW	0.1 kW	Sensible tank	China	Air	Electric chiller (29.3 kW)	Absorption (LiBr/H <sub>2</sub> O)	<a href="http://www.yazaki-group.com/global">www.yazaki-group.com/global</a>

VRF stands for variable refrigerant flow

A scroll compressor is a device for compressing air or refrigerant.