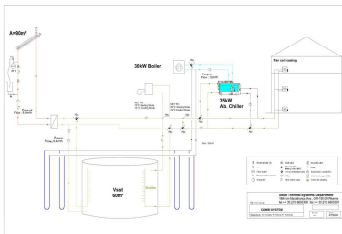


# HIGHCOMBI

## HIGH SOLAR FRACTION HEATING AND COOLING SYSTEMS WITH COMBINATION OF INNOVATIVE COMPONENTS AND METHODS



The HIGH-COMBI project aims at developing high solar fraction systems (above 80%) by an innovative combination of optimized solar heating, cooling and storage technologies.

### Objectives

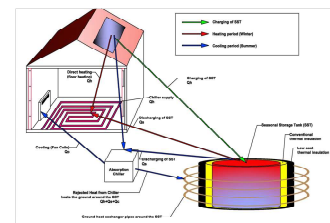
- To combine the two technologies of Solar Combi system and Solar Cooling system with innovative seasonal storage device that can reach a Solar Fraction approaching 100%.
- To develop high solar fraction systems by an innovative combination of optimized solar heating, cooling and storage technologies evaluating different configurations optimized by dynamic simulation.
- To realize demonstration plants using different combination of technologies, components and control strategies in Greece, Italy, Austria and Spain.
- To implement a simple Solar Combi+ simulation software tool.

### Target Groups

- Medium and large buildings end-users having heating and cooling loads along the year.

### Project Duration

June 2007 – May 2011



### Project Co-ordinator

CRES – Centre for Renewable Energy Sources and Saving / Hellas

### Project Consortium

- NOA - National Observatory of Athens / Hellas
- SOLE SA / Hellas
- AEE – Institute for Sustainable Technologies / Austria
- S.O.L.I.D. - Solarinstallation und design GmbH / Austria
- FRAUNHOFER-ISE - Fraunhofer-Institut Solare Energiesysteme / Germany
- SOLITES - Steinbeis Innovation GmbH / Germany
- POLIMI - Politecnico di Milano / Italy
- Provincia di Milano / Italy
- AIGUASOL - Sistemes Avançats d'energia solar tèrmica / Spain
- PMHB – Patronat Municipal de l'Habitatge, Ajuntament de Barcelona / Spain
- UOR - University of Oradea / Romania

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