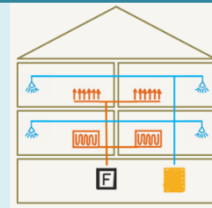


Newly built, Marseille

New built private collective housing: collective hot water production by solar heat pump



F1.4

Key facts**Buildings**

Location	Marseille, France
Construction	2015
Heated space	2833 m ² living
Level of insulation	BBC-Effinergy label

Heat pump and source

Number of	2
Installed power	2 x 12kW
Operation mode	DHW only
Heat source	unglazed solar panels 100m ²

Domestic hot water

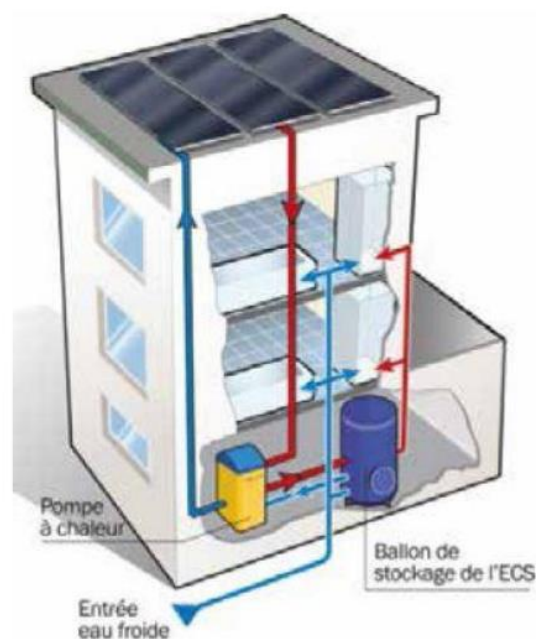
DHW production	collective hp
Type of system	central
Max. temperature	60 °C
Hot water storage	2 x 2000l

Other information

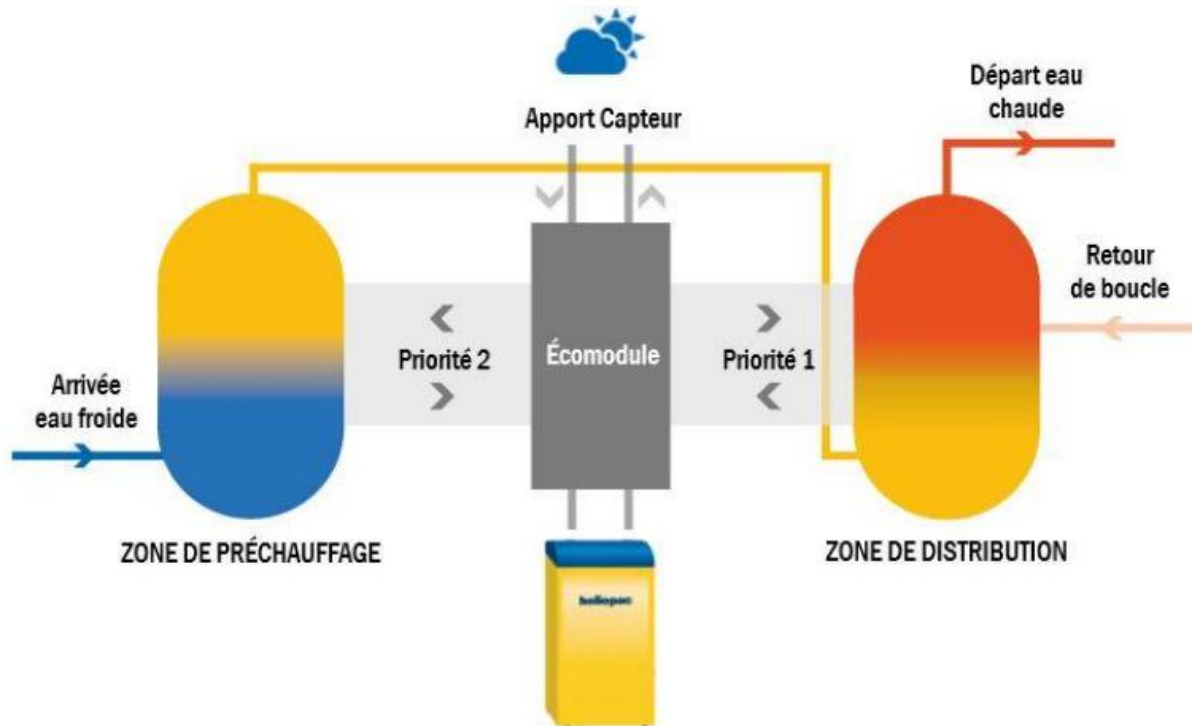
Annual Coefficient of Performance	3.63
Renewables part	70%
Electrical part of hp	27%
Electrical back-up	3%



This new built private housing is located in Marseille, in South-East of France. Climate and sunshine are very favorable to the installation of a “solar heat pump”, which means that the cold source consists of unglazed solar panels installed on the building roof.



Newly built, Marseille



Description of the technical concept

The system consists of:

- 2 x 12kW Brine/Water heat pump Solerpac®
- 2 storage tanks with a 2000 liters capacity each
- 100m² unglazed solar panels

Heilpacsystem® is a domestic hot water production technology for collective adaptations. It uses specific solar panels able to collect energy from both sun and air.

Here, heat is collected on the roof by 100m² unglazed solar panels. Brine heated in these panels is sent in the evaporators of the heat pumps.

Bureau d'études : Eilthis Dijon
Installateur : Sodexal
Installateur : Heliopac

 **heliopac**