



FP7-ENERGY-2013-1
Research and development of innovative solar thermal facades

FLUIDGLASS

Solar Thermal Glass Facades with Adjustable Transparency

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Deliverable: D1.2

**List of quantitative requirements with respect to the overall building system
including the façade system**

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Dissemination level		
PU	Public	X
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DISTRIBUTION LIST

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Executive Summary

The following HVAC specifications are strongly connected to the maximum possible setup of the collector (two fluid layers) that was defined by the team of T1.4. Therefore the focus of this deliverable lies mainly on the hydraulic HVAC system which will be required by the FLUIDGLASS modules. The exterior and interior climatic conditions defined in D1.1 are taken into account regarding material matters like the freezing point of the used HVAC fluid or system matters like the necessary minimal temperatures used in the later HVAC system to realize a heat and cold transfer via the FLUIDGLASS elements.

The basic quantitative requirements as well as a basic overview of needed HVAC components are listed in tables below.

The final design and dimensioning of the HVAC system's components (e. g. pipe diameters) is strongly depending on the building and local environment (climate, regulations, best practice ...). Therefore many of the final quantitative hardware definitions have to be done object related for a real case. This is regular engineering work in HVAC business.