

Environmental test facility for evaluation of hot water supplying heat pumps performance

Purpose:

This test facility is to evaluate the performance of some kind of hot water supplying heat pumps under the various conditions of outdoor air temperature and humidity, tap water temperature, load of hot water supply and so on. And then we have technical supports to make hot water supplying heat pumps more efficient, more compact and lower-priced and to give them higher performance in cold regions.

Specifications:

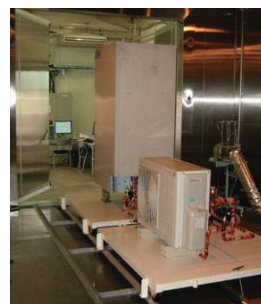
- (1) Outdoor Air Temperature and Relative Humidity: $-30 \sim +50^{\circ}\text{C}$, 30 ~ 90%
- (2) Tap Water Temperature: $5 \sim 40^{\circ}\text{C}$
- (3) Load of Hot Water Supplying: IBEC-L Mode (recognized as a standard load in Japan), etc.
- (4) Load of Room Heating: Max.10kW

Location and Date of Installation:

Yokosuka Campus, January 2007



Environmental test facility for evaluation of hot water supplying heat pumps performance



EcoCute
(CO₂ Heat Pump Water Heater in Domestic Use)