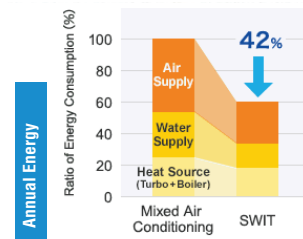
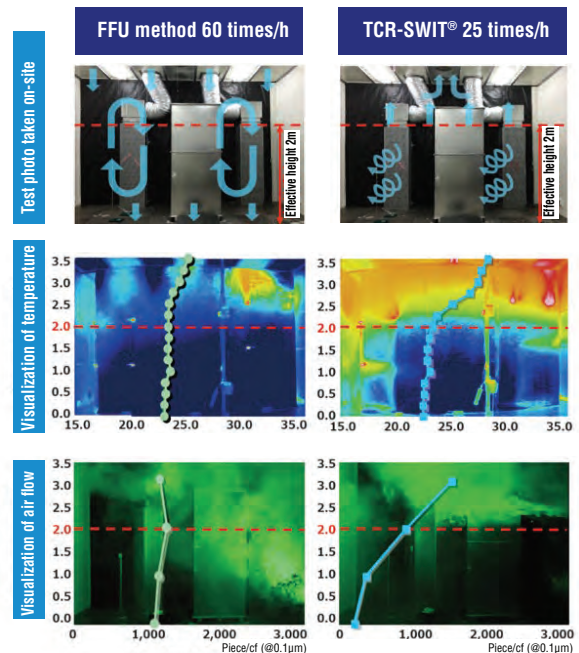


TCR-SWIT[®]

Applying to clean rooms

TCR-SWIT[®] is a next-gen clean room technology which makes it possible to achieve both effective indoor environment maintenance and energy savings in large-scale clean rooms, which had previously been a major challenge. The special features of SWIT[®] have been technically tested and verified in an ultra-precision air-conditioned clean room of ISO Class 5; we demonstrated that thermal environments and cleanliness can be maintained with less air flow by means of excellent ventilation efficiency. We have an established track record of commercial installation in a semiconductor manufacturing process (front-end) clean room (ISO Class 5 ultra-precision air conditioning).

TCR-SWIT[®] installation example



TCR-SWIT[®] experimental and testing site



Constructing a TCR-SWIT[®] experimental and testing site

We constructed an experimental and testing site for TCR-SWIT[®] in the Takasago Thermal Engineering Innovation Center. It is the one and only experiential site in the world where you can switch between a TCR-SWIT[®] method and FFU method in the same room and visualize temperature distribution, cleanliness, air flow, etc. so that you can compare and test. It has a mobile mock load of heat generation and can recreate an environment that is close to the actual device layout and heat generation status. Since we opened the site, many clients from various fields came to experience the HVAC system of TCR-SWIT[®] and it has received positive feedback.