

Unique technology of ecodan

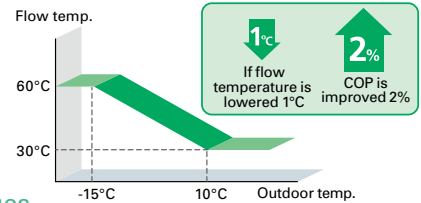
Auto Adaptation

ecodan – Maximize energy savings while keeping comfort at all times



Aiming to realise further comfort and energy savings, Mitsubishi Electric is proud to introduce a revolutionary new system control. This is based on data indicating that a 1°C drop in the flow temperature improves the coefficient of performance (COP) of the ATW system by 2%. This means that energy savings are dramatically affected by controlling the flow temperature in the system.

Heat curve setting (Example)

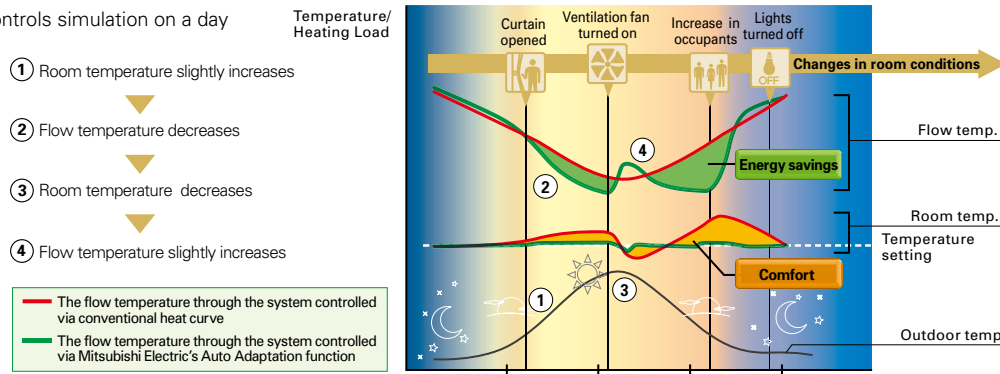


In conventional system control, the flow temperature is determined based on the preset heat curve depending on the actual outdoor temperature. However, this requires a complicated setting to achieve the optimal heat curve.

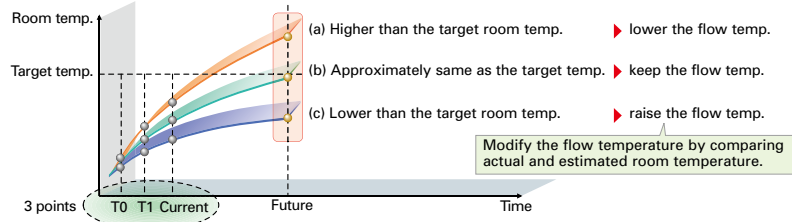
Mitsubishi Electric's Auto Adaptation function automatically tracks changes of the actual room temperatures and outdoor temperatures and adjusts the flow temperature accordingly.

Our more evolutionary Auto Adaptation function measures the room temperature and outdoor temperature, and then calculates the required heating capacity for the room. Simply stated, the flow temperature is automatically controlled according to the required heating capacity, while optimal room temperature is maintained at all times, ensuring the appropriate heating capacity and preventing energy from being wasted. Furthermore, by estimating future changes in room temperature, the system works to prevent unnecessary increases and decreases in the flow temperature. Accordingly, Auto Adaptation maximises both comfort and energy savings without the need for complicated settings.

Two Controls simulation on a day



Future room temperature estimation

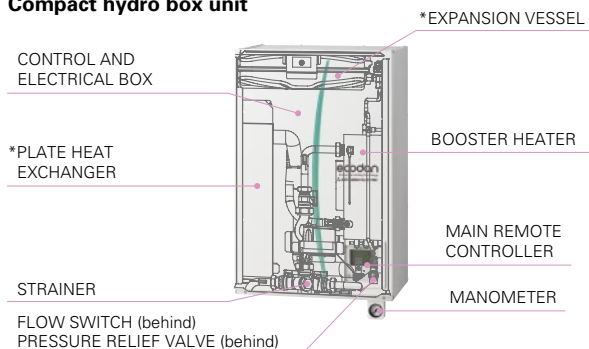


All-in-one & compact

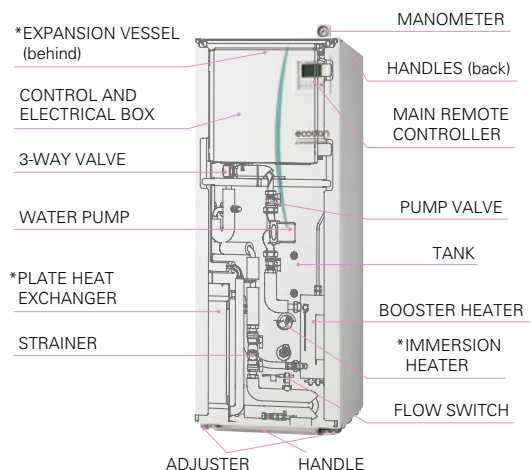
Small overall size contributes to easy transportation, installation and maintenance

- Simplified: All key functional components are incorporated into the unit.
- Easy servicing: Relevant parts are located at the front of the unit to access easily.
- Easy to transport and install using the attached handle both at front and at back (cylinder unit) and also back plate (hydro box unit).
- Easy to open the packaging without using knife.

Compact hydro box unit



Compact cylinder unit



*Depending on model