

## Activities -Responding to Climate Change

### Basic Approach

The Fujitsu General Group believes that reducing greenhouse gas emissions in all business areas is important to curb climate change caused by global warming. We will promote the reduction of greenhouse gas emissions by improving the energy efficiency of products used by our customers.

In addition, by expanding the use of renewable energy sources such as solar power generation, we aim to achieve completely eliminate greenhouse gas emissions from our business activities by FY2030.

### Key Initiatives

#### Reducing greenhouse gas emissions during product use

The Fujitsu General Group believes that by developing and supplying products with improved energy efficiency, we can reduce greenhouse gas emission levels and contribute to achieving a sustainable society.

##### ■ Pursuing energy efficiency

As a result of our efforts to improve the energy efficiency of newly developed products, CO<sub>2</sub> emissions from air conditioners developed and sold in FY2021 during product use were reduced by 45.3% compared with FY2013. We will continue to develop products with even greater energy efficiency to contribute to the reduction of greenhouse gas emissions.



**Case** Achieved the industry's top level\*<sup>1</sup> energy efficiency (wall mounted air conditioners for North America)  
(Models: ASUH18LMAS / AOUH18LMAS1, ASUH24LMAS / AOUH24LMAS1)

By adopting highly efficient compressors and optimising the compressor exclusion volume, both 18 and 24-inch models were able to achieve industry-leading energy efficiency (SEER 21.1 / 22.5) and Energy Star Most Efficient 2022 \*<sup>2</sup>.



18 type indoor unit



24 type indoor unit



Most Efficient  
2022  
ENERGY STAR  
[www.energystar.gov](http://www.energystar.gov)



Outdoor units



Highly efficient compressors  
Exclusion volume optimization

\*1 First place, jointly shared first place, or narrowly behind first place (as of March 2022)

\*2 Standards recognized by the United States Environmental Protection Agency (EPA) as highly efficient products

# Activities -Others

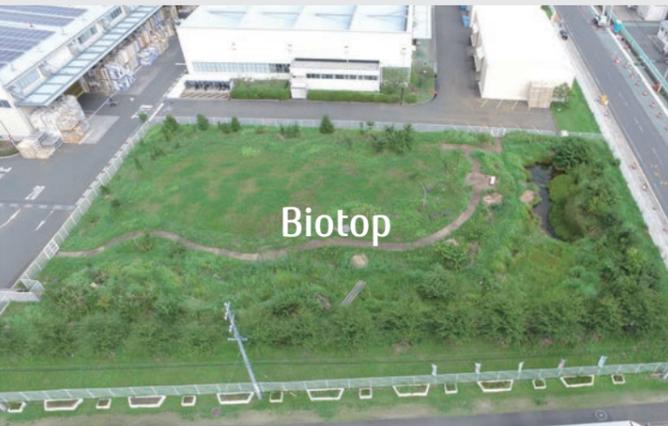
## Biodiversity Conservation

### Creating a network of ecosystems by developing a biotope

The Hamamatsu Business Office maintains a biotope that it created in the green space on its premises in FY2012. Conservation of the rare species of *Tanakia lanceolata* (a freshwater fish) and *Pronodularia japonensis* (a mollusk), both of which are listed as Endangered Species IA\*<sup>1</sup> in the Red Data Book of Shizuoka Prefecture has been achieved inside the biotope, and their natural breeding has been confirmed at present. Many other species of plants and animals also live and grow here, including *Oryzias latipes* (Japanese rice fish) (Endangered Species II), *Persicaria japonica* (Japanese knotweed), and *Lycoris radiata* (red spider lily). We are also thinning out excessively abundant plants and removing invasive species to create an environment that attracts native species living in the vicinity of the location. The variety of species found in the biotope, including *Lyriothemis pachygastra* (a dragonfly) and *Rhabdophis tigrinus* (a snake, the tiger keelback), is increasing every year. In FY2021, we also saw new species such as *Anoplophora malasiaca* (citrus long-horned beetle) and *Cantao ocellatus* (a shield bug).

We will continue to maintain the site to help develop a network of ecosystems around it and conserve rare species outside their habitats.

A bird's-eye view of the biotope at the Hamamatsu Business Office, and *Tanakia lanceolata* (a freshwater fish), *Pronodularia japonensis* (a mollusk), and other creatures under conservation outside of their natural habitats.





Dusky thrush (a bird, "tsugumi" in Japanese)  
Dusky thrush (a bird, "tsugumi" in Japanese)



Ceriagrion melanurum (a dragonfly, "kiitonbo" in Japanese)



*Tanakia lanceolata* (a freshwater fish, "yaritanago" in Japanese)



*Pronodularia japonensis* (a mollusk, "matsugasagai" in Japanese)



Baby *Cynops pyrrhogaster* (a newt, "kaharaimori" in Japanese)  
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Baby *Cynops pyrrhogaster* (a newt, "kaharaimori" in Japanese)



An adult Japanese fire belly newt (a newt, "akaharaimori" in Japanese)  
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*Cryptotympana facialis* (a newt, "kumazemi" in Japanese)  
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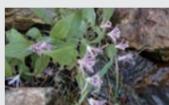
*Cantao ocellatus* (a shield bug, "akagikamemushi" in Japanese)



*Calopteryx atrata* (a dragonfly, "hagurotonbo" in Japanese)



*Hebius vibakari* (a snake, "hibakari" in Japanese)



*Cuculus poliocephalus* (a bird, "hototogisu" in Japanese)



*Pelophylax nigromaculatus* (a frog, "tonosamagaeru" in Japanese)



*Prunella vulgaris* L. subsp. *asiatica* (Nakai) H.Hara (a plant, "utsubogusa" in Japanese)

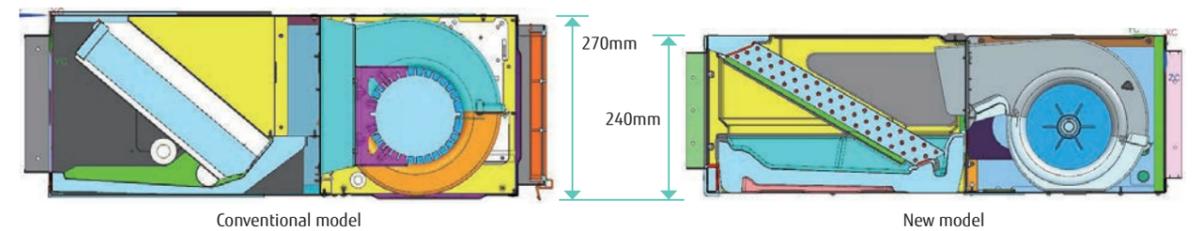
\*1 Category for species with a very high risk of extinction in the wild in the very near future.

## Efficient Use of Natural Resources

### Developing products that facilitates installation and maintenance and saves resources

#### ■ Middle static pressure ducted air conditioners for Australia (ARTH24KMTAP)

- 1) By reviewing the shape of the indoor unit heat exchanger and blower fan, it has become easier to install and maintain even in a narrow space behind the ceiling.



- 2) Saving resources has been achieved by reducing the size of the product itself and reviewing the packaging form.

- Product weight: approx. 16% reduction (38→32kg)
- The weight of the packaging: approx. 17% reduction (6→5kg)

- 3) Large maintenance openings located on both sides of the product enable cleaning of the heat exchanger and water tray behind the ceiling, which is difficult to do with conventional machines. Conventional models sometimes require replacement of drain pumps due to clogging caused by dirt inside the product, but preventing clogging in advance reduces the risk of parts replacement and contributes to more efficient use of resources.

