The supplied programmable operation display (POD) makes setting, operation and monitoring easy to perform. The air conditioning is capable of automatic operation and only requires setting the supply air (SA) temperature and the air flow rate. The coefficient of performance (COP) of the air conditioning as well as the PUE value of the entire container can be displayed.
A container type data center is a package of all of the infrastructure components required to configure a data center, including servers, air conditioning, power supplies, disaster prevention, security and monitoring systems. With the rapid innovation of IT technologies and the proliferation of cloud computing in recent years, customer needs are becoming more diverse. Under such circumstances, a variety of customer needs for constructing data centers are arising, including expansion of building type data center configurations in stages, data center structuring on short notice, and emergency responses for expanding in adequate processing power. To meet such needs, Fuji Electric is providing its F-eCoMo container type data center as a solution that can be available on demand.

**Benefits of F-eCoMo**

**Quick delivery**

In any installation environment or location, a data center can be built within quick delivery.

**Optimization of investment**

It is possible to start small and expand in stages depending on the load increases of the IT equipment.

**High portability**

Supports data expansion and relocation plans, and makes it possible to relocate and transport easily.

**Electrical power saving operation**

Because the container is equipped with air-conditioning equipment that utilizes outside air energy, energy saving operation is possible.

**Chilled water is not required**

Electricity is the only utility required.

**F-eCoMo is being used in places such as the following**

**Ideal for needs like these!**

When you need to expand your data center in stages to match your needs.

When you need to construct a data center on short notice because of office or factory relocations or add-on renovations.

When you have a temporary need to construct a data center such as for an exhibition or an event.

When you are providing cloud services and need to construct a data center to respond to customer requests on short notice.

**Ideal for fields like these!**

In medical care, when a data center is needed such as for storage of medical information or hospital electronic medical records.

In education, when a data center is needed such as for student attendance information or administration and management of personal data.

In broadcasting, when a data center is needed such as for the management of video data and audio data.

In enterprises, when a data center is needed for the backup of various data (such as production management, process management and human resource management data).

**Features of F-eCoMo**

**Compact standard design**

- Container room (server container) is a standardized 20 feet container size.
- Standard design of container structure and equipment enables quick delivery.
- Pre-mounted server racks inside the container enable quick delivery of the total solution!
- All-in-one package can be loaded in, relocated and installed using trucks.

**Energy-saving air conditioning**

- Energy-saving air conditioning provided by F-COOL NEO which utilizes outside air energy.
- "Indirect outside air cooling system" does not directly introduce outside air into the container!

**Optimization of investment**

- Optimization of investment enabled through expansion in stages supporting for load increases with additional servers and IT equipment.
- Expansion on an air conditioning unit basis and container unit basis is possible!
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The coefficient of performance (COP) of the air conditioning as well as the PUE value of the entire container can be displayed.

### Item Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>External dimensions (W×D×H) [m]</td>
<td>4.7×6.3×3.1 (Main components: 20 feet container + air conditioner (up to 4 units) + power supply equipment)</td>
</tr>
<tr>
<td>Mass (weight)</td>
<td>10 t (Servers not included)</td>
</tr>
</tbody>
</table>
| Installation environment requirements | **Temperature** In use: -15°C to +43°C / In storage: -15°C to +50°C  
* Cold region compatibility: -30°C (available as option) / Warm region compatibility: 50°C (available as option)  
**Humidity** 5 to 90% (Non-condensing)  
| Indirect outside air conditioning unit*2 | **Cooling capacity** 25 kW per unit, 7450 m³ per h, (Expandable up to 4 units)  
**Structure** Possible expansion of 1 unit, 3 + 1 redundancy, or 2 + 2 redundant operation possible.  
**Power supply** Three-phase, three-wire 200 V (50/60 Hz)  
**Supply air temperature setting range** 18 to 35°C ±2 K (64.4 to 95°F) |
| pPUE*2 | 1.12 (Tokyo at rated cooling capacity)  
**Power requirements** Power consumption 100 kW (maximum) for servers + 55.2 kW for air conditioning (4 units maximum operation, 2.5 kW per unit annual average (Tokyo))  
Power supply / rack 12.5 kW per rack average  
**Strength / seismic resistance** Wind resistance: 60 m/s, Horizontal acceleration resistance: 1.0 G, Vertical acceleration resistance: 0.5 G, Snow resistance: 50 cm  
Number of racks, dimensions (W×D) [mm] 8 units per container 600×740, Special design (servers of 760 mm or less in depth can be mounted)  
Disaster prevention equipment Fire warning detection system, smoke detectors, N2 fire extinguishing equipment  
Security Door sensor, entry and exit recording camera, biometric authentication (as option) |

* 1: For the indirect outside air conditioning unit, depending on the server load, cooling capacity of 40 kW per unit is also available in our product lineup.  
* 2: That in this catalog, rather than the power consumption of the data center as a whole (PUE), the power consumption of only the air conditioner is determined and displayed as the partial pPUE.  
* 3: Rack seismic isolation is also available as an option.

In conjunction with the server container, a UPS container equipped with a UPS facility and a power supply container equipped with power receiving equipment and in-house power generation equipment are also available. (as option)

### UPS container

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>External dimensions (W×D×H) [m]</td>
<td>2.4×6.3×3.1</td>
</tr>
<tr>
<td>Included equipment</td>
<td>UPS for servers (Fuji Electric UPS Type 7100MX-T3/100 kVA) x 2 series, Input and output panel x 2 series, Battery panel x 2 series, Cable ducts included</td>
</tr>
<tr>
<td>Air conditioning</td>
<td>10 kW cooling capacity air conditioner x 2 units</td>
</tr>
</tbody>
</table>

*: Same size as the server container (20 feet container).