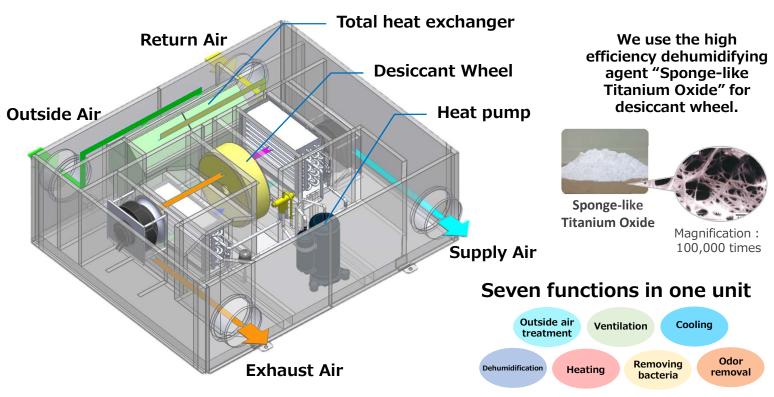
### Multi-desiccant air conditioner with built-in heat pump

### This unit provides ventilation and humidity control with small energy.



**Desiccant Mode** 

Dehumidification Volume: 6.36kg/h Total heating Capacity: 5.2kW (COP5.2)

**%Conditions** 

Outside Air: 95.0° F、56%RH、20.0g/kg′ Indoor Air: 78.8° F、50%RH、10.5g/kg′

**Heating Mode** 

**Total heating Capacity: 6.0kW (COP6.0)** 

**\***Conditions

Outside Air: 32.0° F \ 50 %RH Indoor Air: 71.6° F \ 50 %RH

### Air conditioning that separates latent heat and sensible heat



Processing the latent heat

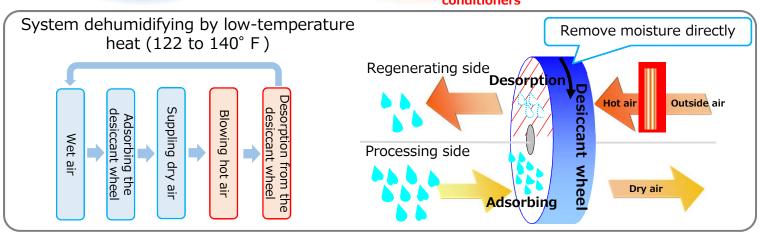
(humidity) with the desiccant air

Processing the sensible heat (temperature) with the packagetype air conditioner



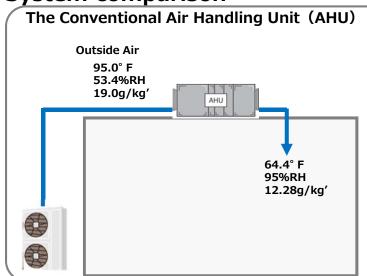
# Energy saving and comfort

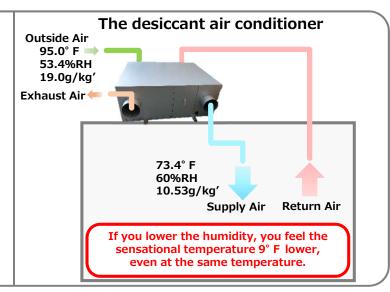
It is the system balancing comfort and energy saving by processing latent heat and sensible heat separately.



## **Application Example**

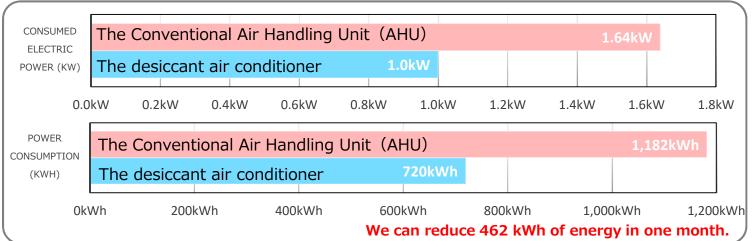
System comparison





### **Energy comparison**

The desiccant air conditioner can reduce energy by about 40% compared to The Conventional Air Handling Unit (AHU) .





- Office building
- Educational institutions
- Housing
- Amusement facilities



- Supermarket
- Convenience store
- Restaurant



- Hospital
- Elderly care facility
- Food factory



- Clean room
- Pharmaceutical factory
- Research facility
- Precision instrument factory

#### **Unit specifications**

Model	DC-AEX-05
Processing air volume	500m3/h
Dimensions(mm)	1,310(Wide) x 1,160(Depth) x 534(Hight)
Weight	214kg
Power supply	Single-phase 200V 50Hz/60Hz
Consumed electric power	1.0kW
Dehumidifying cooling capacity	5.2kW
Humidification heating capacity	6.0kW



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