

# Sanyo Denki products support Information and Telecommunications

## High Reliability and Energy Saving

DC Cooling fans that feature energy saving and efficiently cool high density rack-mount chassis.

That is **San Ace** .



(e.g.) Data center

### ◆ Success Story 1: Realize production cost reduction with DC Fan Units

Application: 19inch Rack 3U server

Fan Type: DC Fan Unit

San Ace 80 (80mmx38)

Purpose: To cool the internal part of 3U server.

Issues/Problems: Customer expected to cool the device efficiently.

Solution: We suggested a Fan Unit that is best suitable for the device.

Merit: 1) The cooling efficiency of the device is improved.  
2) Production cost is reduced by dramatically reducing man-hours of installing cooling fans.



2 sets of fan unit installed in the rack  
(back side of the product)



### ◆ Success Story 2 : Realize reduction in noise level at workplace with high airflow Silent Fan

Application: Small-sized server for small space office

Fan Type: Silent Fan

San Ace 60S (60mmx25mm)

San Ace 80S (80mmx25mm)

Purpose: 80mm Fan is installed in the front of the server for drawing air from outside.

60mm Fan is installed at the back of the server for expelling air from inside

Issues/Problems: Customer expected to reduce the noise level of the server since it is used in an office.

Solution: We suggested to customize the lead wire of Silent Fan with lowest sound level in the industry, so that the rotating speed is increased.

Merit: The noise level is reduced from 34dB to 30dB compared with our conventional fan.



## ◆ Success Story 3: Realize improvement of heat dissipation with Centrifugal Fan



Application:	4G Wimax Mobile Phone Base Stations
Fan Type:	Centrifugal Fan San Ace C175 (φ175mmx69mm)
Purpose:	To cool the internal part of the outdoor mobile phone base stations.
Issues/Problems:	Customer expected to reduce the power consumption and to cool the device efficiently.
Solution:	We Suggested Centrifugal Fan with high performance which has a newly designed impeller, frame and circuit.
Merit:	Centrifugal Fan offers maximum airflow of 14 m³/min (24% higher than our conventional fan) and maximum static pressure of 885Pa (28% higher than our conventional fan). Also, the power consumption of the device is reduced by 2.5% ,compared with our conventional fan of the same size and can be reduced even more by using PWM speed control.

## ◆ Success Story 4: Realize improvement of heat dissipation with Counter Rotating Fan

Application:	Power Supply for Storage	
Fan Type:	Counter Rotating Fan San Ace 40 (40mmx56mm)	
Purpose:	To cool the power supply and the internal part of the storage.	
Issues/Problems:	Customer expected to cool the whole storage with the fan for power supply. A compact fan with high cooling performance is required in the high density device.	
Solution:	We suggested 40mm Counter Rotating Fan with the industry's top class high airflow and high static pressure. The fan offers maximum airflow of 0.9m³/min when the sound pressure level is 62dB. (Max. airflow is increased by 18% compared with our conventional fan)	
Merit:	The amount of fans used is reduced from 6 pcs to 4 pcs by simultaneously cooling the storage itself and the power supply in it.	



Products of Cooling Systems

Other applications: PC peripheral device and power supply etc

### ■ Low Power Consumption Fan **San Ace GA Type**

Power consumption of Low Power Consumption Fan is reduced by 30% compared with our conventional product.



### ■ Centrifugal Fan **San Ace C**

Centrifugal Fan features high airflow, high static pressure and energy-saving.



### ■ Silent Fan **San Ace S Type**

Silent Fan features low noise and low vibration.



### ■ Long Life Fan **San Ace L**

Long Life Fan features 100,000 to 200,000 hrs of life expectancy.

※We have a wide variety of products other than those listed above. For details, please feel free to contact us.

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※For more details on our products, please visit our website at [www.sanyodenki.co.jp](http://www.sanyodenki.co.jp)  
※Please read the instruction manual carefully before installing, connecting, operating, maintaining, or inspecting the product.

Contact to