

# Sanyo Denki Products Support Industrial Equipment

## Long and Stable Operation of Equipments

DC Cooling Fans which enable industrial equipment to operate with stability, and are extensively used in the Industrial field.

- That is **San Ace** .

(e.g.) Vending machine



### ◆ Success Story 1: Realize Maintenance free of Device with Long Life Fan

**Application:** Single Wafer Cleaning  
Cleaning device which equally sprays wash solution on wafer sur

**Fan Type:** Long life Fan  
San Ace 60L (60x25mm)

**Purpose:** To cool the control board

**Issues/Problems:** Conventional fans needed to be replaced every 2 to 3 yrs.  
Customer expected to reduce the maintenance man-hours of cooling fans.

**Solution:** We suggested Long Life Fan with the industry's top life expectancy of 100,000hrs (approx. 11yrs) at the ambient temperature of 60°C.

**Merit:** The maintenance man-hours is reduced and the reliability of the device is enhanced because the fan now only needs to be replaced every 11yrs.



### ◆ Success Story 2: Realize High Reliability and Maintenance Free of Device with Oil Proof Fan

**Application:** Servo Amplifier for Industrial Machines

**Fan Type:** Oil Proof Fan  
San Ace 120WF (120x38mm)

**Purpose:** For cooling the external part of servo amplifiers

**Issues/Problems:** Customer expected to ensure stable operation even under harsh conditions (where an oil mist is generated by using cutting fluids), and reduce the maintenance cost.

**Solution:** We suggested IP55 Oil Proof Fan with life expectancy of 40,000hrs (approx. 4 to 5yrs) at an ambient temperature of 60°C, which can operate with stability in a high density of oil mist.

**Merit:** The maintenance man-hours is reduced and the reliability of the device is enhanced.



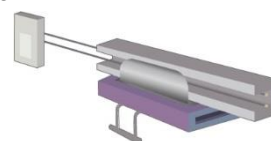
## ◆ Success Story 3: Realize reduction in noise level of Device with Silent Fan

Application:	Ionizer
Fan Type:	Silent Fan San Ace 120S (120x25mm)
Purpose:	For removing the static electricity generated in the manufacturing process and to deliver electron-ion.
Issues/Problems:	Customer expected to reduce the noise of the ionizers while generating a high density of electron-ion.
Solution:	By proposing the customer's device design for fans to blow wind straight forward more easily, our fans made it possible for the device to deliver a high density of electron ions.
Merit:	The noise level of the Ionizer is reduced from 35dB to 30dB For reference: The noise level in midnight in countryside and a whispering voice is said to be 30dB.



## ◆ Success Story 4: Realize Maintenance Free of Device with Long Life Fan

Application:	Power Supply Control Board for LC /Semiconductor wafer carrier devices
Fan Type:	Long Life Fan San Ace 120L (120x38mm) San Ace 140L (140x51mm)
Purpose:	120mm fan for cooling heat sink in the control board, and 140mm fan for air-ventilation
Issues/Problems:	Customer expected to reduce the maintenance man-hours since conventional fans needed to be replaced every 2 to 3 yrs.
Solution:	We suggested Long Life Fan with the industry's top life-expectancy of 100,000hrs (approx. 11yrs) at an ambient temperature of 60°C.
Merit:	The maintenance man-hours is dramatically reduced and the reliability is enhanced because the fan now only needs to be replaced every 11 yrs.



# San Ace

DC Fan

Products of Cooling Systems

Other applications: packing machine and food-processing machine etc.

### ■ Blower **San Ace B Type**

◆DC Blower specialized for high static pressure, and suitable for heat generating devices.

### ■ Splash Proof Fan **San Ace W** Oil Proof Fan **San Ace WF**

◆Splash Proof Fan with water resistance performance

◆Oil Proof Fan can be used under oil-misty environment

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

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



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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