SanAce Application Case

Production Printer

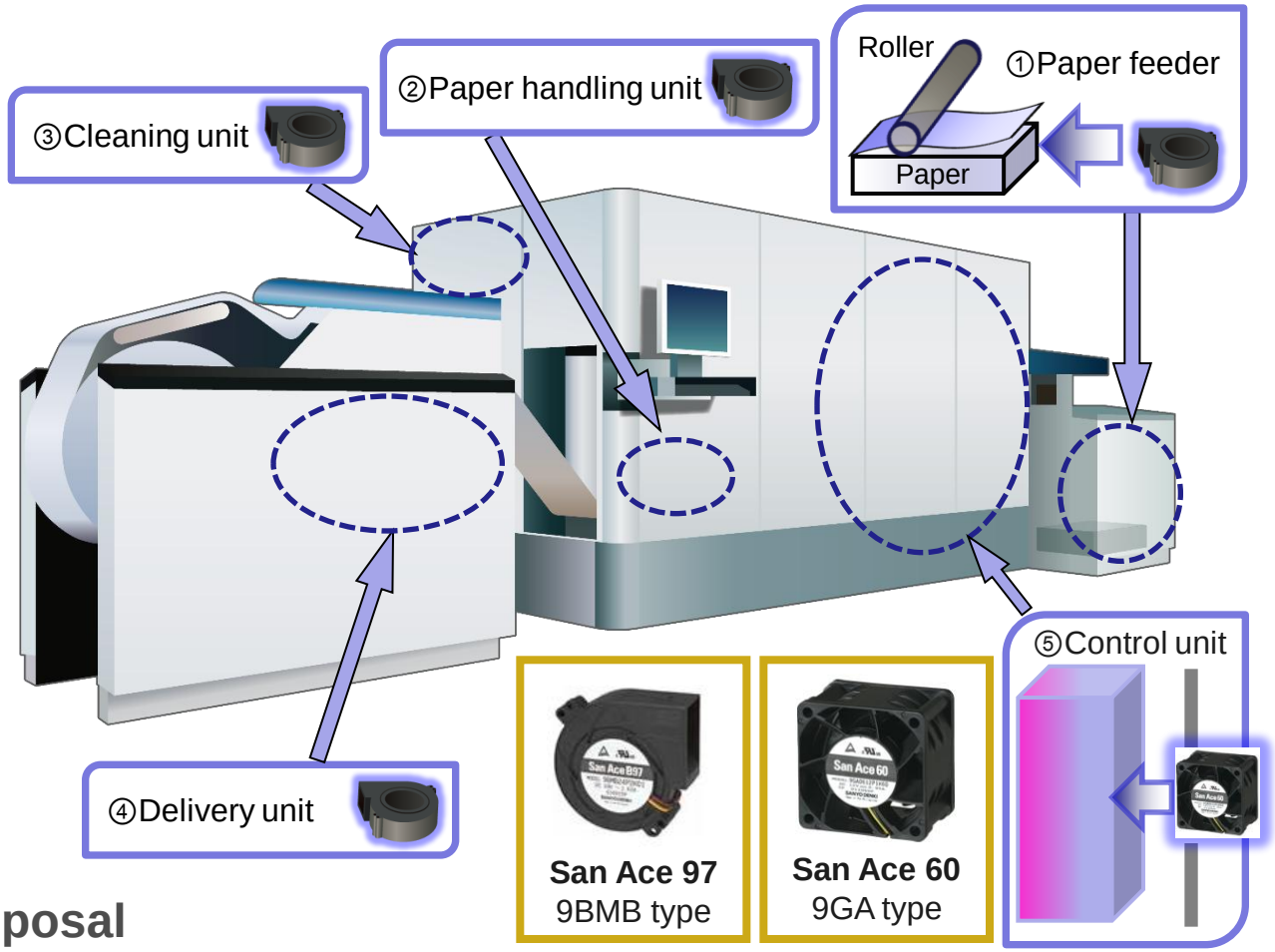
SANYO DENKI

Description

Production printers, unlike conventional laser printers, are designed for commercial use to perform high-volume, high-performance printing.

They typically consist of multiple units responsible for paper feeding, handling, cleaning, delivery, and toner fixing, enabling high-quality output at high speeds.

Cooling is required for the units that heat up from increased print speeds. In addition, to ensure high image quality, paper must be cooled and toner must be dried quickly by a fan with high cooling performance.



SANYO DENKI Proposal

■ **9BMB24P2K01P / Blower / 97 x 33 / 24 V / PWM control function / 40,000 h @ 60ºC / 4 units**
■ **9GA0624P1J01P / Axial fan / 60 x 38 / 24 V / PWM control function / 40,000 h @ 60ºC / 1 unit**

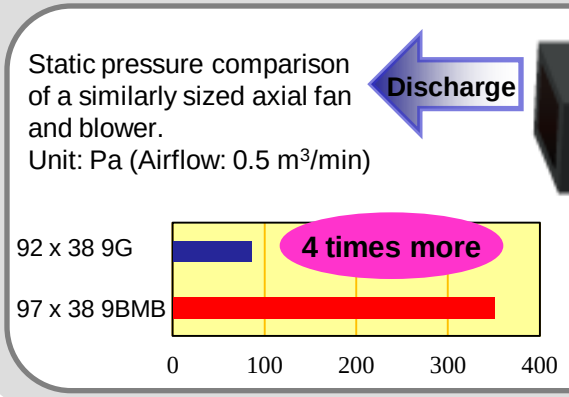
Purpose: ① Paper feeder (blower) → Lifts the top sheet with air and assists in feeding it to the rollers.
② Paper handling (blower) → Blows air from above to stabilize the paper for accurate feeding to the rollers.
③ Cleaning unit (blower) → Removes unused ink and its odor from the rollers.
④ Delivery unit (blower) → Dries the ink and cools the paper during delivery.
⑤ Control unit (axial fan) → Cools the control panel.

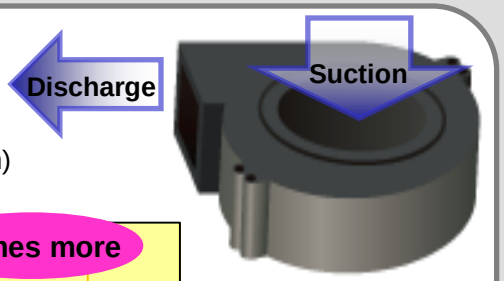
Features

■ Blower shape and airflow

Blowers have a central inlet for drawing in air and an outlet for expelling it. They are characterized by having higher static pressure than that of axial fans of similar size.

Static pressure comparison of a similarly sized axial fan and blower.
Unit: Pa (Airflow: 0.5 m^3/min)



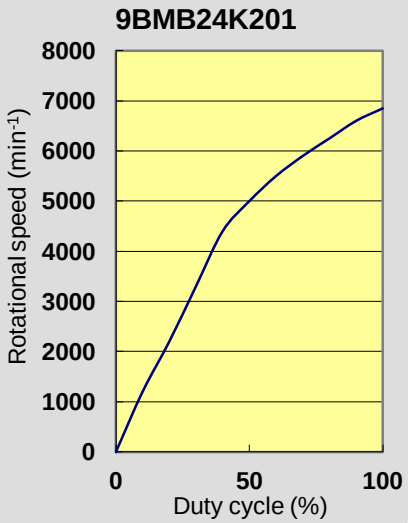


Blower structure

■ Optimal airflow adjustment

PWM control function controls the rotational speed of the fan by changing the duty cycle.

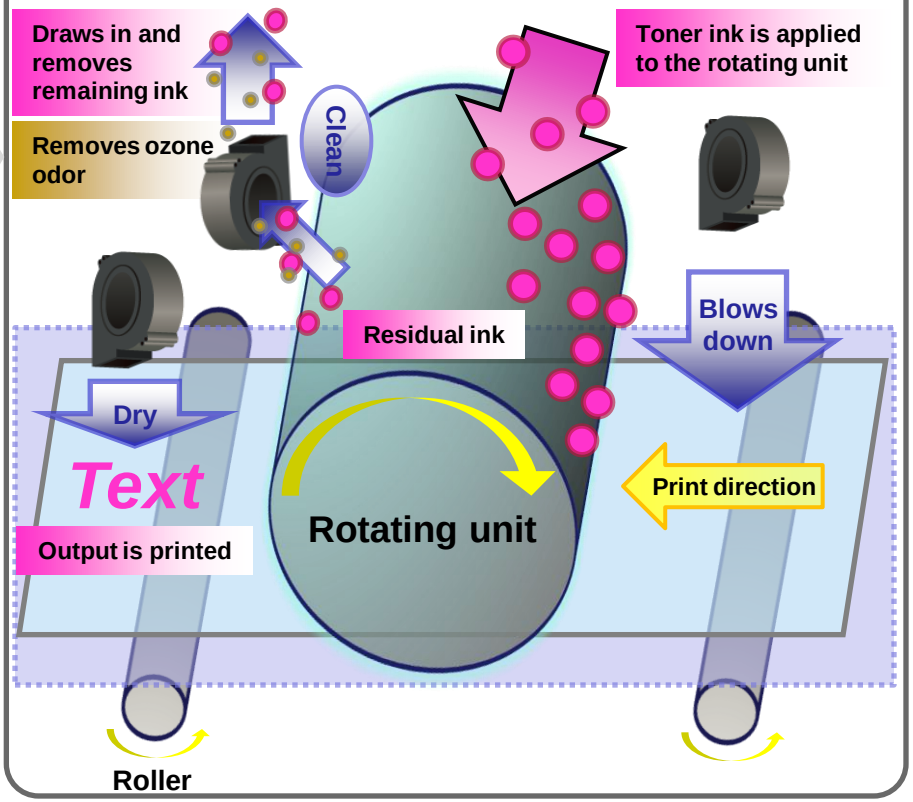
Sets an optimal rotation speed in accordance with the print conditions.



Merits

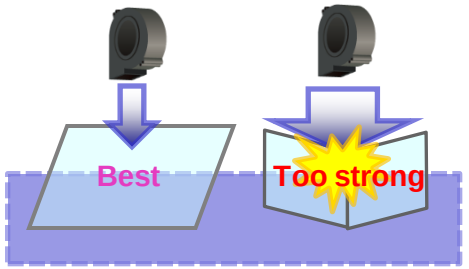
■ Linear flow and high static pressure

1. Removes gases and impurities.
2. Cools paper, delivers fast spot-drying of ink.



■ Handles paper with the appropriate amount of airflow to prevent wrinkles.

■ Increasing the airflow dries the ink and cools the paper faster, enabling high-speed printing.



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