San Ace Airflow Tester

With connection duct mounted

Features

Enables the selection of the optimal fan for a device

An optimal fan for a device can be selected by entering accurate measurement results into thermal design simulation software.

Compact and lightweight

With a compact design and weight of approximately 6 kg, it is portable enough to measure immobile equipment.

Measurement Functions

- System Impedance　Measurement of the resistance to the flow of air within a device
- Operating Airflow　Measurement of the actual airflow that passes through a device when a fan is mounted
- P-Q Performance　Measurement of airflow versus static pressure characteristics*

*: Performance curve that illustrates the characteristics of a fan for use within a certain system.
It shows the relationship between airflow and static pressure.

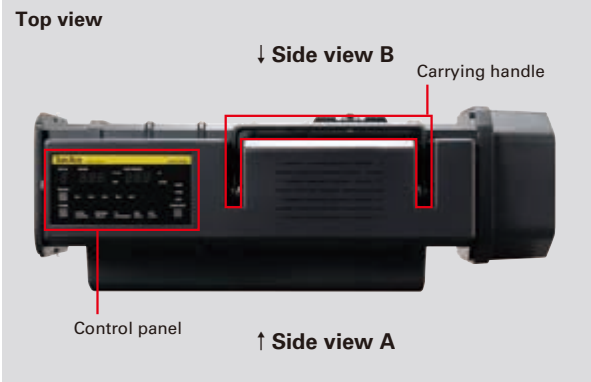
Specifications

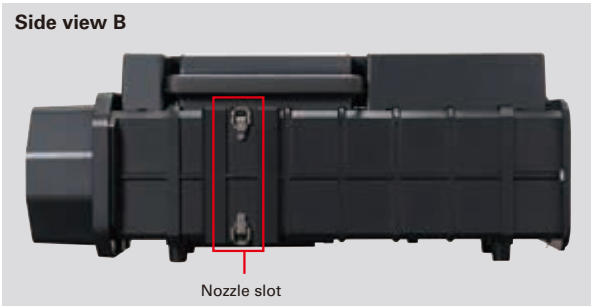
Model no.		9AT2560S-0001	9AT2560A-0001	9AT2560C-0001
Measurement units	Airflow	m^3 / min	CFM	CFM
	Static pressure	Pa	inchH_2O	Pa
Measurement range	Airflow	0.20 to 8.00 m^3 / min	7 to 282 CFM	7 to 282 CFM
	Static pressure	0 to 1,000 Pa	0 to 4.01 inchH_2O	0 to 1,000 Pa
Measurement accuracy	Airflow	±7% of maximum measurable airflow with each nozzle		
	Static pressure	±10 Pa (0.04 inchH_2O) for measurement results lower than 200 Pa, ±50 Pa (0.20 inchH_2O) for measurement results higher than 200 Pa		
Operating environment	Ambient temperature	0 to 40 ℃		
	Humidity	20 to 85% RH (non-condensing)		
Display		Data no., Measurement values (airflow, static pressure*1), Measurement status, Nozzle selection, Measurement mode selection		
Interface		Digital output: Included USB serial adapter		
Power supply	Input voltage	100 to 240 VAC, 50/60 Hz		
	Power consumption	260 VA max.		
Dimensions		600 (W) x 250 (H) x 250 (D) mm		
Duct opening size		500 x 250 mm		
Mass		Main unit: Approx. 6 kg, Connection duct (including board holder): Approx. 1.5 kg		
Included peripherals		1 Set of measurement nozzles, Plastic mounting board, Connection duct, AC power cable, USB serial adapter, Instruction manual, Quick start guide, Data viewer software		

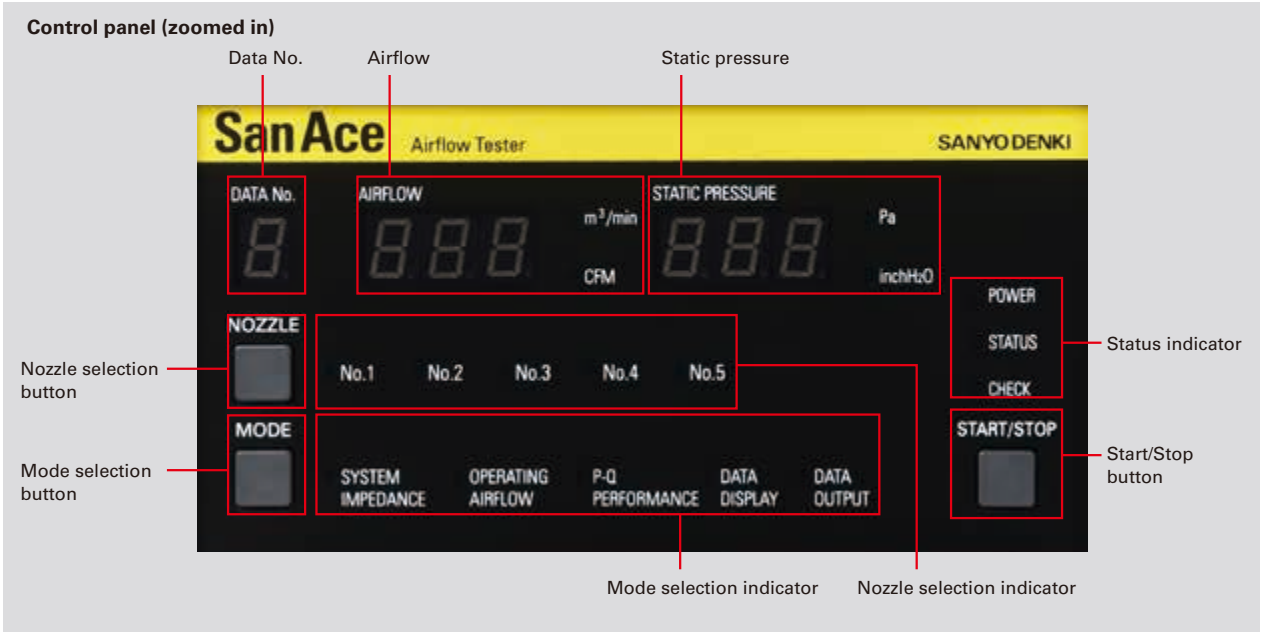
*1: Static pressure values are calculated with standard atmosphere as 1013 hPa at 20 ℃.

- As an option, we provide a carrying case that accomodates Airflow Tester and the included peripherals.
- The included AC power cable can be used in Japan and the U.S. without a converter, with its plug shape of two parallel pins (+ grounding pin).

Airflow Tester Part Names

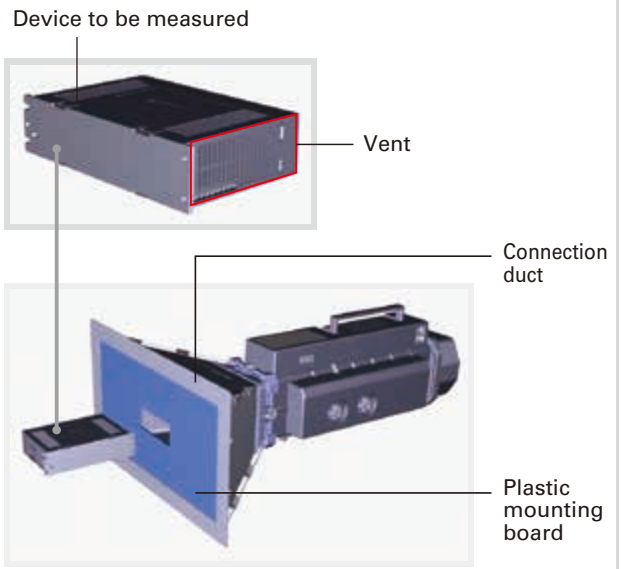






Usage Examples

Cut out a hole in the mounting board matching the vent opening of the device to be measured, and place the mounting board firmly against the device to perform measurements.



Suitable for measurement of devices shown below as well.

Copy machine

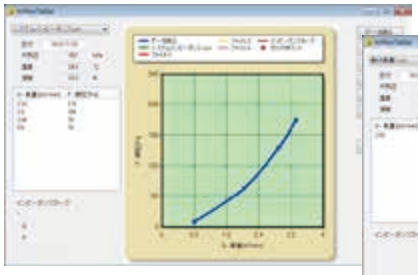
ATM

Rapid EV charging station

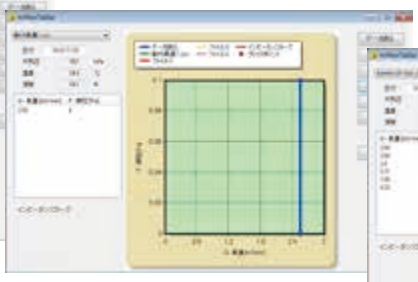
Coffee maker

Data viewer software (included)

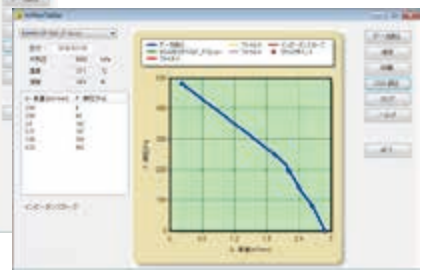
Obtained measurement data can be represented as a graph and saved on a PC.



System impedance measurements represented as a graph

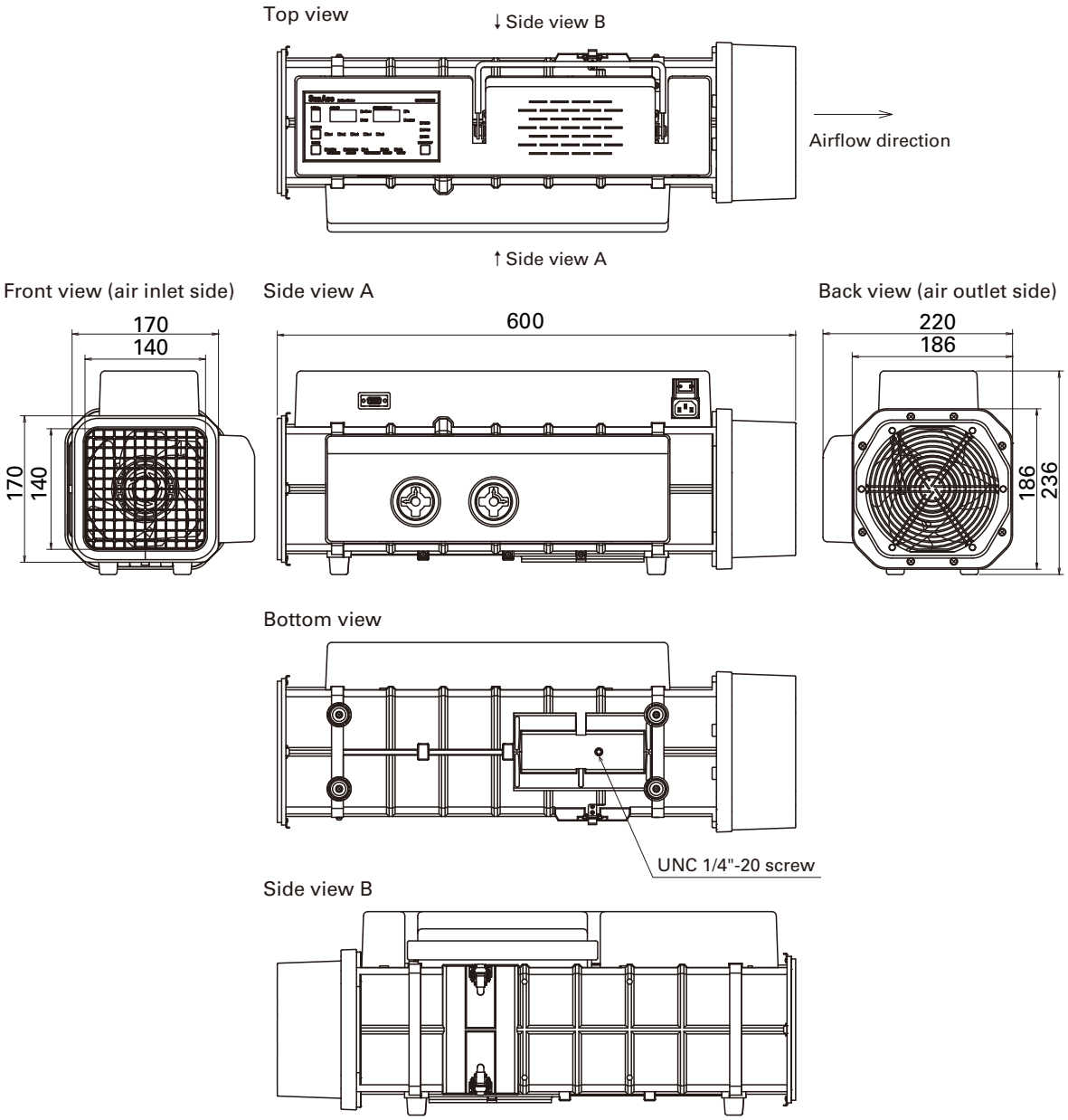


Operating airflow measurements represented as a graph



P-Q performance measurements represented as a graph

Dimensions (unit: mm)



Notice

- Before using the product, please read the included instruction manual carefully.
- Do not attempt to disassemble or modify the device.

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