

## Air Conducting Fan



Our Air Conducting Fans generate airflow to solve ventilation and air-conditioning problems!



AH-1006S1-E  
AH-1509S1-E  
AH-2009S1-E  
AH-3012S1-E



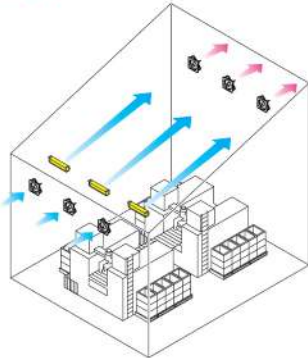
# Improvement examples

## Removing hot air from buildings

Bothered with the hot air around heating facilities or in summer?  
Use our Air Conducting Fans in combination with your ventilators!

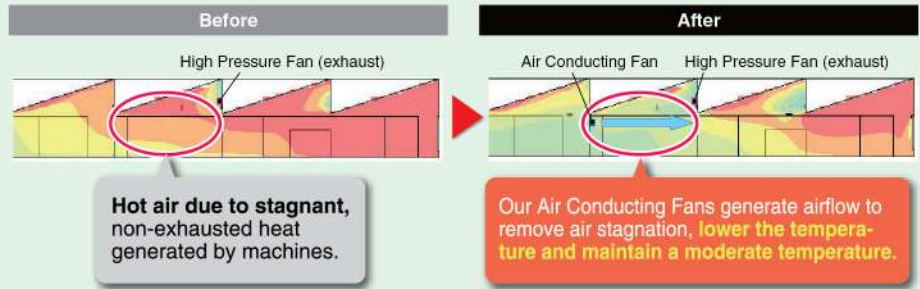


### Factory



#### ◆ Simulated effect

Temperature °C: 37.0 36.5 36.0 35.5 35.0 34.5 34.0 33.5 33.0 32.5 32.0



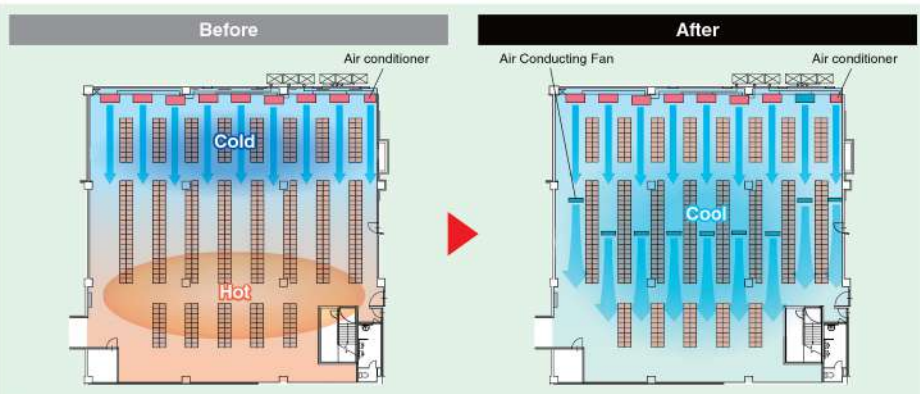
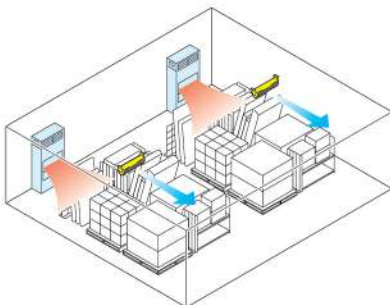
<Analysis conditions> Total floor space: 29,952 m<sup>2</sup> (312 m × 96 m), Target area: 8,064 m<sup>2</sup> (84 m × 96 m), Ceiling height: 11.5 m, Equipment: Air Conducting Fan AH-3009TCA-G (Japanese model : The air volume and product size differ from overseas model), Air volume: 2020 m<sup>3</sup>/h/unit, Installed fans: 38 units, Blow angles: 31 units horizontal, 7 units 67.5° downward, Exhaust fans: High Pressure Fan, Air volume: 14,000m<sup>3</sup>/h/unit, Installed ventilators: 33 units, Opening: 5 skylights (312 m × 5.1 m) and 4 doorways (6 m × 4 m)

## Circulating air-conditioned air

Using Air Conducting Fans help the air-conditioned air to reach all corners, improving comfort levels throughout the area!



### Warehouse



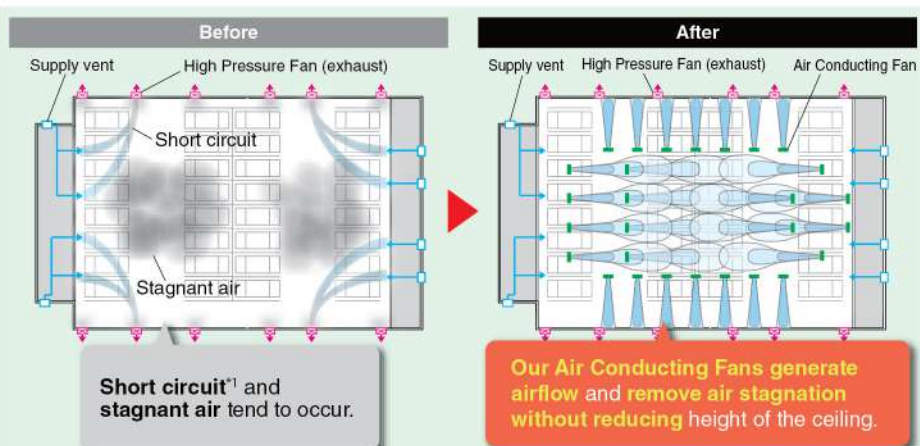
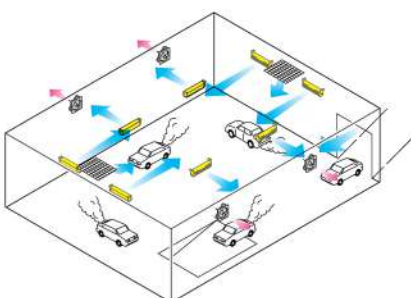
Since Air Conducting Fans help circulate air-conditioned air, they improve the working environments by reducing temperature variations throughout large indoor spaces. They enhance effectiveness of cooling over a wider area, and the airflow they generate creates a refreshing breeze.

## Dispelling stagnant air

Ventilators may not be enough to improve your indoor environment;  
that's where our ductless system comes in!



### Car Parks



\*1 : Short circuit refers to when fresh air from the supply vents is exhausted without circulating internally.

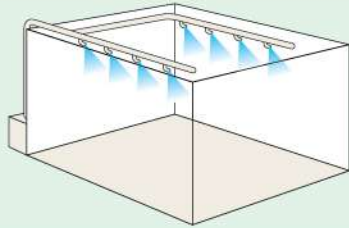
# Our ductless system will lower initial costs

## Lower Initial Costs

Mitsubishi Electric Air Conducting Fans eliminate the need for ducts and contribute to lowering initial costs.

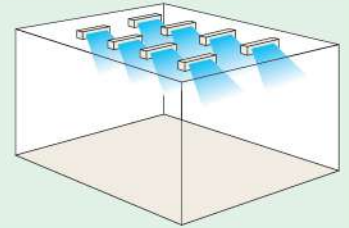
### Duct system

More equipment and higher installation cost



### Ductless system

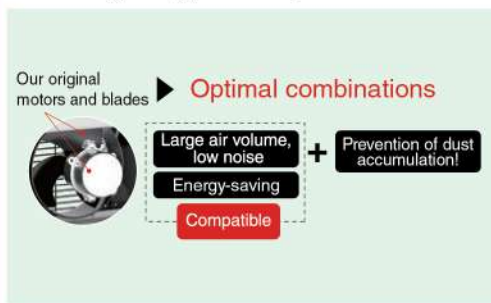
Less equipment and lower installation cost



## Product characteristics

### Quiet Propeller design

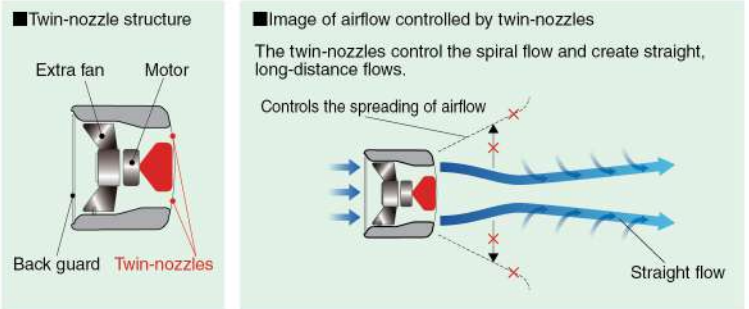
Our original motors and extra fans are compact, but have the power to maximize airflow efficiency. They deliver large air volume without creating large noise, while also minimizing energy consumption.



### Twin-nozzle structure

Our original twin-nozzle structure reduces the spreading of airflow that is caused by the spiral flow generated by extra fans, and creates a more powerful blow. The fans can carry air for a long distance, so it is reliable even for large spaces!

\* The below shows a distance reach of 0.3 m/s in a no-wind state.



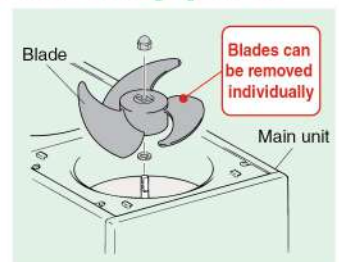
### Simple Installation

Air Conducting Fans can be easily installed on the ceiling using suspension bolts. The angle of the air vent is adjustable in 19 angles.



### Simple structures for easy parts replacement

Our products have simple structures that consist mainly of propeller fans for easy maintenance. Each motor and fan can also be individually repaired or replaced as necessary.



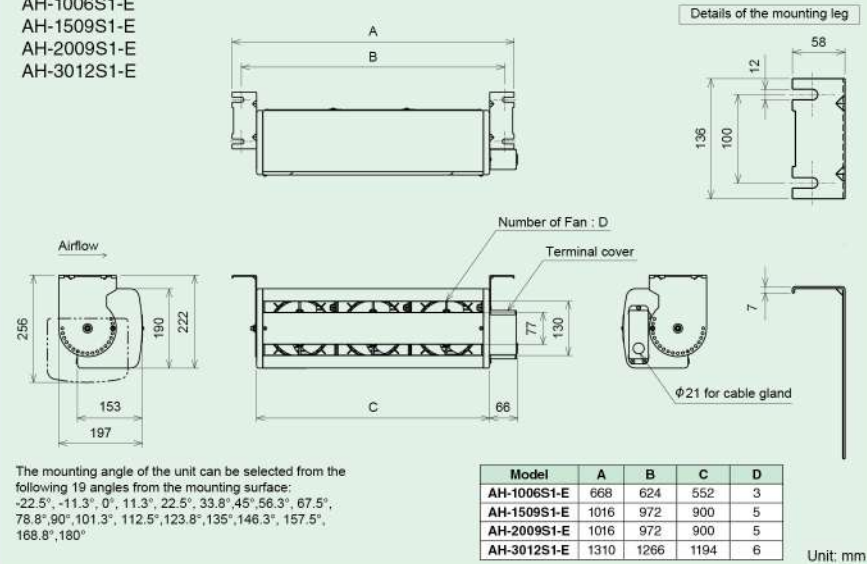




**AH-1006S1-E**  
**AH-1509S1-E**  
**AH-2009S1-E**  
**AH-3012S1-E**

\*Operating conditions: Ambient temperature of -10°C to +45°C, relative humidity of 90% or less at normal temperature. Use outside of this range may result in burning, deformation, irregular rotation, or damage.  
 \*Do not install the unit in places where oily smoke or dust is constantly generated, or where the unit may be exposed to corrosive gas or seawater.  
 \*Do not install the unit within 30cm of a sprinkler.  
 \*Where there is a fire alarm, install the unit so that the nozzles are more than 1.5m away from the sensors of the alarm.

■ **Dimensions**  
 AH-1006S1-E  
 AH-1509S1-E  
 AH-2009S1-E  
 AH-3012S1-E



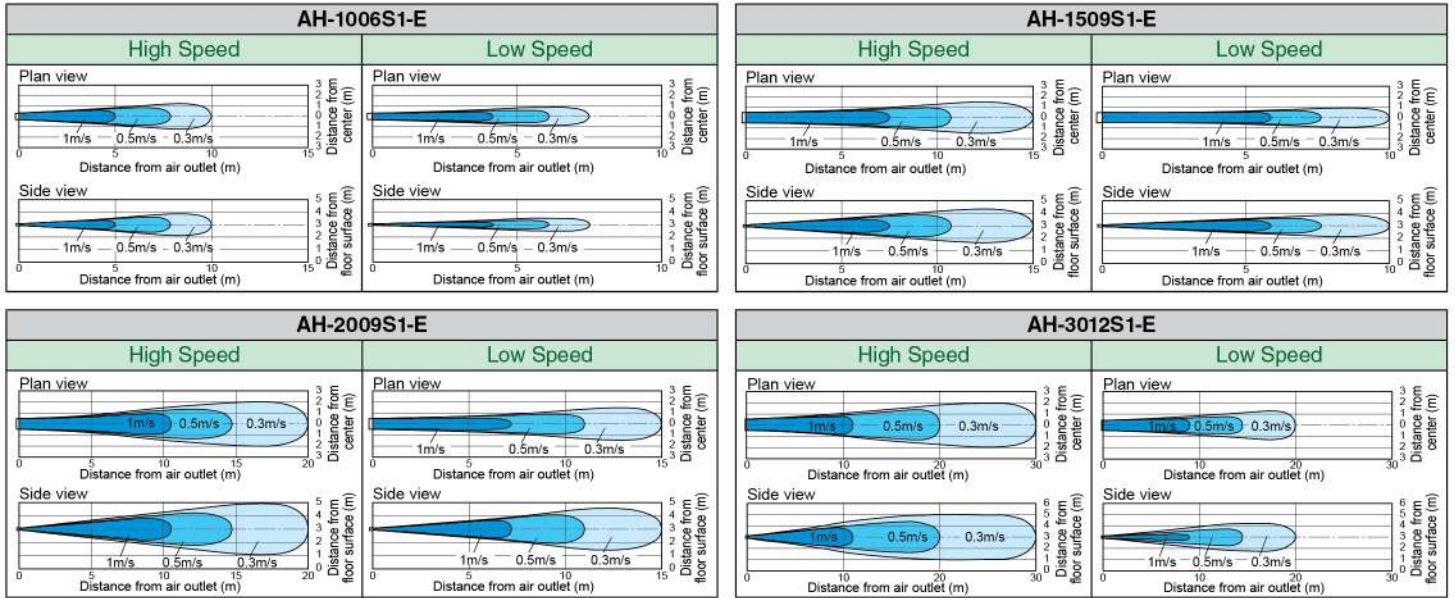
Suited for



■ **Specifications**

Model	Power Supply	Fan Speed	Power Consumption [W]	Current [A]	Airflow Rate [m <sup>3</sup> /h]	Air Velocity [m/sec]	Noise [dB]	Weight [kg]
AH-1006S1-E	Single-phase 50/60Hz 220-240/220V	High	32-36 / 38	0.15-0.16 / 0.18	740-790 / 700	7.5-8.0 / 7.1	42-43 / 41	7
		Low	28-33 / 31	0.13-0.14 / 0.15	600-650 / 520	6.0-6.6 / 5.2	37-39 / 33	
AH-1509S1-E		High	54-61 / 69	0.25-0.26 / 0.31	1260-1340 / 1220	7.6-8.1 / 7.4	44.5-46 / 44	10.5
		Low	48-57 / 53	0.22-0.24 / 0.24	910-1100 / 820	5.5-6.6 / 4.9	38-41 / 35	
AH-2009S1-E		High	80-96 / 102	0.41-0.49 / 0.47	1450-1470 / 1640	8.7-8.9 / 9.9	47-47.5 / 50	11
		Low	71-80 / 77	0.34-0.35 / 0.36	1200-1250 / 1060	7.2-7.5 / 6.4	43.5-45.5 / 40	
AH-3012S1-E		High	96-114 / 125	0.45-0.53 / 0.60	1740-1760 / 1950	7.8-7.9 / 8.8	47.5-48.5 / 51	13
		Low	84-96 / 95	0.38-0.40 / 0.43	1460-1600 / 1220	6.6-7.2 / 5.5	46-47 / 42	

**Air Velocity Distribution**



The printed color of the products may differ slightly from the actual products.  
 The above specifications are subject to change without notice due to continuous improvement.

**MITSUBISHI ELECTRIC CORPORATION**

HEAD OFFICE : TOKYO BLDG., 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN  
[www.MitsubishiElectric.com](http://www.MitsubishiElectric.com)