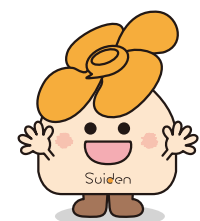


# Suiden



**Suiden Co.,Ltd**

**Suiden International sales department +81 (0) 6-6772-0850**

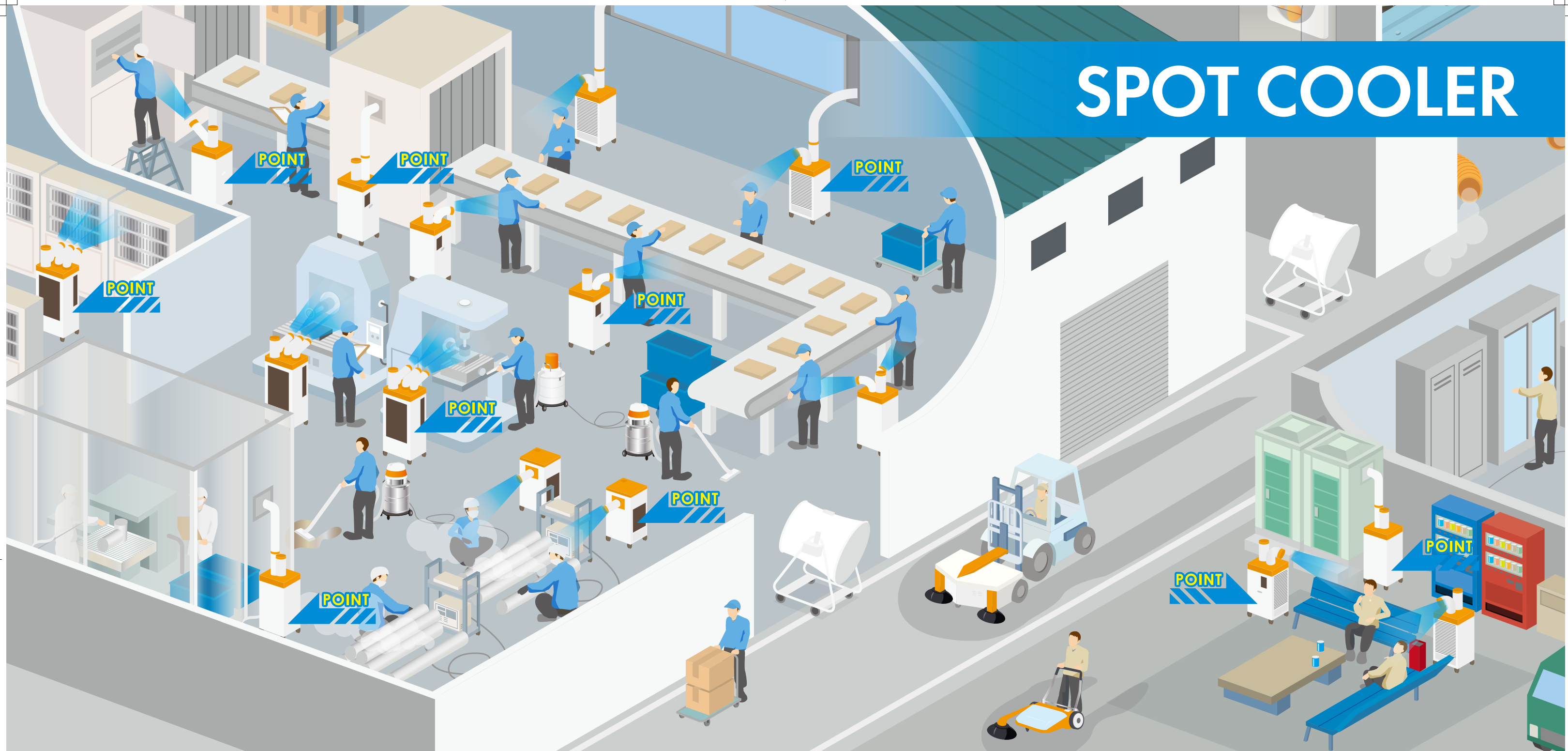
<https://www.suiden.com/english/>

# Suiden

**GENERAL CATALOG**



株式会社 **スイデン**  
<https://www.suiden.com>

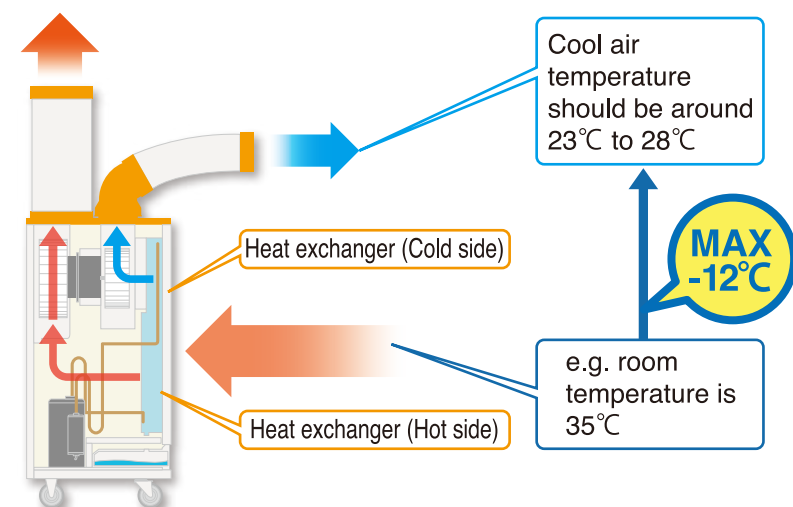


# SPOT COOLER

## Suiden spot coolers are used in various places and purposes

### Mechanism of spot cooler

Spot cooler is compressor-based refrigerant system that uses air to exchange heat, in the same way as a car or typical household air conditioner. With this type of system, the air is dehumidified as it is cooled. The unit collects water condensed from the heat exchanger (Cold side) which is fundamentally from the cooled air, and produces hot air from heat exchanger (Hot side). This system is totally different from evaporative air coolers sometimes called swamp air conditioners do not have a compressor or heat exchangers.



### Customer reviews



After bought Suiden Spot cooler, our working condition has drastically been improved so many workers are comfortable working in their sites now hence the rate of people leaving their jobs (Turnover) has been decreased.



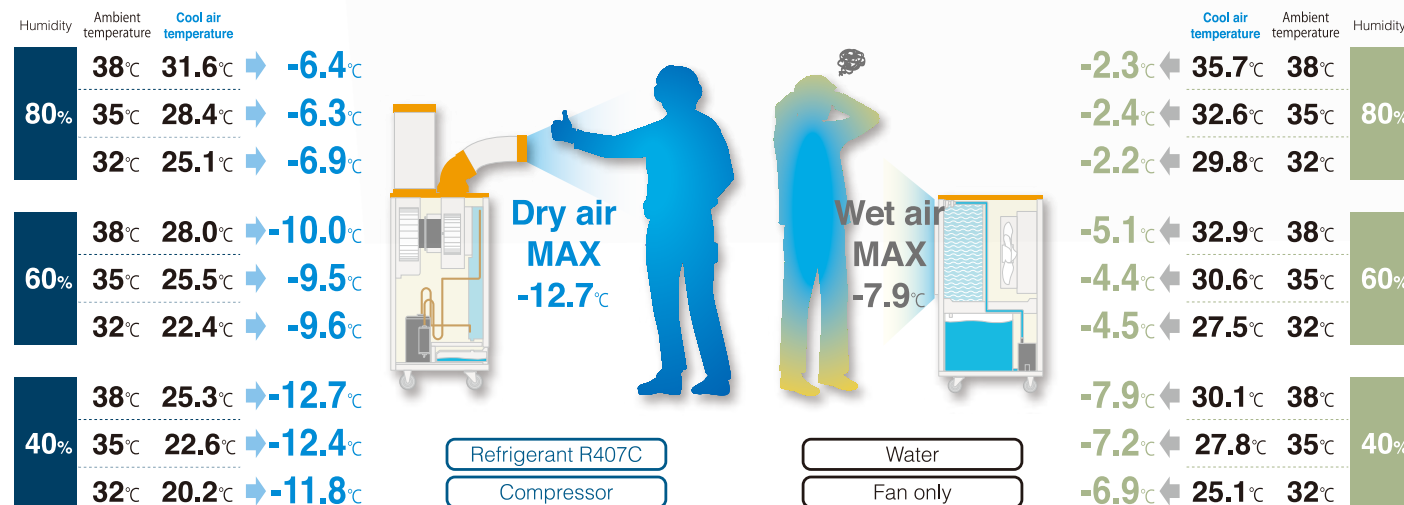
After purchased Suiden Spot cooler, our workers seems more alive and better in their health so the manufacturing efficiency and productivity have greatly been improved.



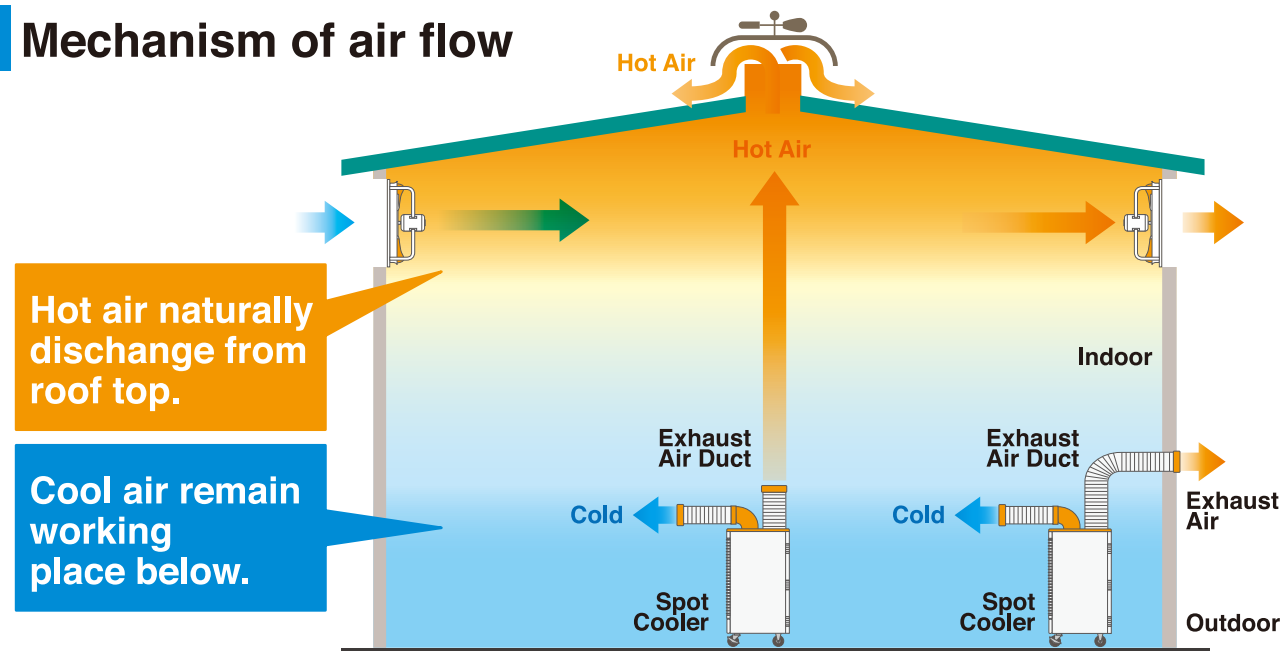
# SPOT COOLER

## Performance comparison for spot cooler and evaporative air cooler

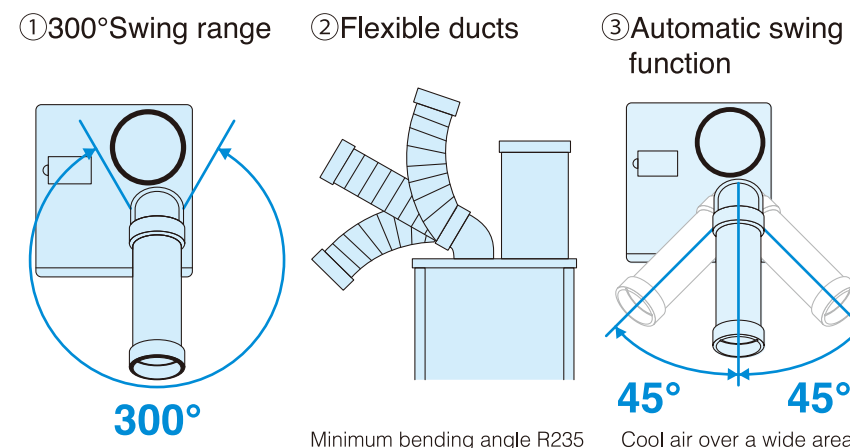
These data are selected based on typical climate in South-east Asia (Temperature & Humidity).  
\*These data are collected in environmental test room at Suiden facility.



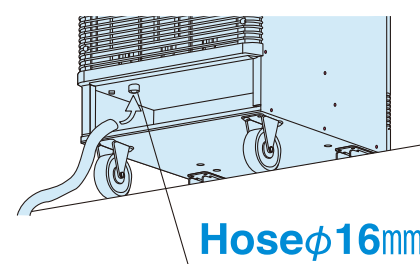
## Mechanism of air flow



## Adjustable cool air duct



## Direct Drainage function



\*Hose is NOT in our optional products.

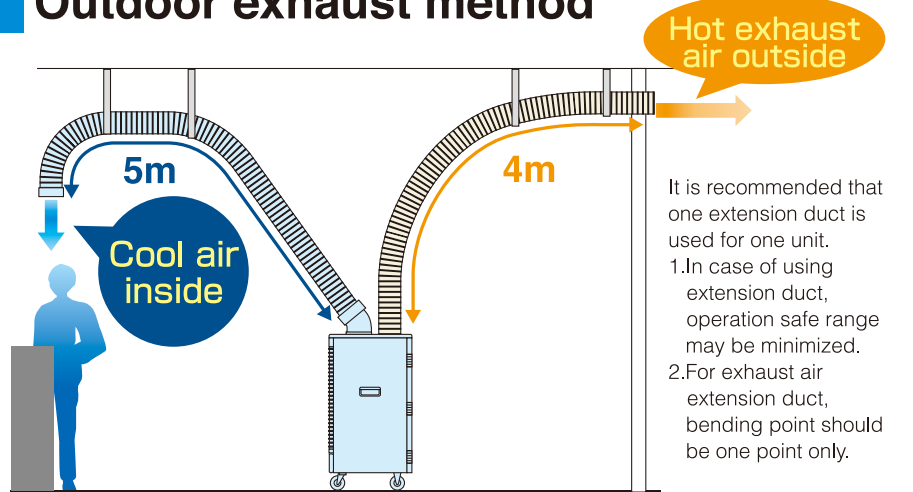
## Power cable

The power cable is 2 meters long (VCTFK 1.0Sq x 2 cores x 2m)

Power cable length nominal cross-sectional area.

≤ 8m	1.5mm <sup>2</sup>
≤ 14m	2.5mm <sup>2</sup>
≤ 22m	4.0mm <sup>2</sup>

## Outdoor exhaust method



## Environmental friendly refrigerant R407C

- No ozone depleting potential (Reduced global warming potential). (GHG index : R407C → 1500, R22 → 1700)
- Non-combustible refrigerant. (New propane refrigerant is flammable)

## Exhaust Air Duct

- ① Aligning the attachment guide marker.
- ② The cool air duct extends up to 550mm (±20mm).
- ③ The exhaust air duct extends up to 550mm (±20mm).

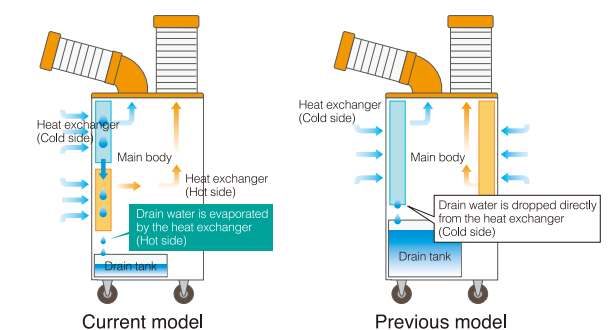


Note: The both ducts can extend up to 550mm but the dimensional tolerance is ±20mm by individual difference.

## Mini-drain tank

Comparing to the previous model, drain water amount is 18 times less.

Around 90% down



Condition: 35°C humidity 60%

	Drain amount (cc/h)	Tank capacity
Previous model	1800	20L
Current model	100	5L

\*In a rain season (e.g. 30°C humidity 80%), drain amount may be twice or three times more compared to a dry season.  
\*The data above is measured in a brand new condition so drain water amount may be changed by various factors such as heat exchanger is covered by oil, dust, etc.

# SPOT COOLER

## Single duct spot coolers

Single phase 220V 50Hz  
R407C Refrigerant

For One Person

- SS-22DG-8B Automatic swivel
- SS-22EG-8B No automatic swivel

Model number	SS-22DG-8B	SS-22EG-8B
Automatic swivel	Yes	No
Power supply	Single phase 220V	
Cooling capacity(50Hz)	2.2kW / 7500BTU	
Power consumption(50Hz)	0.8kW	
Refrigerant	R407C	
Net weight	39 kg	
Drain tank capacity	5L(Mini drain)	
Power cable and plug	Cable:2m / Electric plug not included	
Dimensions(mm)	W390 x D430 x H808	
Operation safety range	25°C(50%) - 45°C(40%)	

- Light and portable air cooler with one cool air duct for one person, workstation or machine.
- Very space efficient. Can be placed directly against walls or other objects on three sides.
- The automatic swivel function of SS-22DG-8B provides a very wide and smooth cooling effect.



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## Single duct spot cooler

Single phase 220V 50Hz  
R407C Refrigerant

For One Person

- SS-22LA-8B

Model number	SS-22LA-8B
Automatic swivel	No
Power supply	Single phase 220V
Cooling capacity(50Hz)	2.2kW / 7500BTU
Power consumption(50Hz)	0.85kW
Refrigerant	R407C
Net weight	35 kg
Drain tank capacity	5L(Mini drain)
Power cable and plug	Cable: 2m/ Electric plug not included
Dimensions(mm)	W354xD412xH1041(Not including duct)
Operation safety range	25°C (50%) - 45°C (40%)

- Light and portable air cooler with one cool air duct for one person, workstation or machine.
- Very space efficient. Can be placed directly against walls or other objects on two sides.



- Louver model. Can be used with cool air duct as the picture shown right here.

※Cool air duct is for this model is optional parts.



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## Two ducts spot coolers

Single phase 220V 50Hz  
R407C Refrigerant

For Two People

- SS-40DG-8B Automatic swivel
- SS-40EG-8B No automatic swivel

Model number	SS-40DG-8B	SS-40EG-8B
Automatic swivel	Yes	No
Power supply	Single phase 220V	
Cooling capacity(50Hz)	4.0 kW / 13500 BTU	
Power consumption(50Hz)	1.90 kW	
Refrigerant	R407C	
Net weight	73kg	
Drain tank capacity	8 L (Mini drain)	
Power cable and plug	Cable: 2 m / Electric plug not included	
Dimensions(mm)	W 520 x D 470 x H 1120	
Operation safety range	25°C (50%) - 45°C (40%)	

- Portable cooler with two cool air duct outlets for two people or two workstations.
- Very space efficient. Can be placed directly against walls or other objects on three sides.
- With the automatic swivel function of SS-40DG-8B both ducts smoothly swing in a 90° angle, providing a pleasant cooling effect for your working area.



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## Ceiling type spot coolers

Single phase 100V and 3 phase 200V  
R407C Refrigerant

Perfect for Cramped Work Areas

- SS-20CJ-1
- SS-20CJ-3

Model number	SS-20CJ-1	SS-20CJ-3
Power supply	Single phase 100V	3 phase 200V
Cooling capacity(50Hz)	1.7kW / 5800BTU	1.6kW / 5500BTU
Power consumption(50Hz)	940W	880W
Refrigerant	R407C	
Compressor safety devices	■Overheat relay ■Fan protecting thermostat	■Overheat relay ■Fan protecting thermostat ■Reverse-phase protection relay
Net weight	38 kg	
Power cable	4m	Not included
Dimensions(mm)	W440 x D488 x H427	
Operation safety range	25°C (50%) - 45°C (40%)	

- Perfect for cramped work areas that do not have any free space on the floor.
- Can be installed in the ceiling, on the wall, on a pillar or on a stand.
- The cool air duct can be connected in three possible places which gives great flexibility.
- Is controlled from the ground via wired remote that is delivered with 4m power cable.



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## Three ducts spot cooler

Single phase 220V 50Hz  
R407C Refrigerant

For Three People

- SS-56EG2-8B

Model number	SS-56EG2-8B
Automatic swivel	No
Power supply	Single phase 220V
Cooling capacity(50Hz)	5.6 kW / 19000 BTU
Power consumption(50Hz)	2.8 kW
Refrigerant	R407C
Net weight	90kg
Drain tank capacity	20 L
Power cable and plug	Cable:2m/ Electric plug not included
Dimensions(mm)	W 490 x D 600 x H 1120
Operation safety range	25°C (50%) - 45°C (40%)

- 19,000 BTU of portable cooling power. The three cool air outlet ducts make it perfect for cooling three people or three workstations.
- Direct all the duct outlets in the same direction for amplified cooling effect.
- Space efficient design. Can be placed directly against walls on two sides.



Made in China

Stock in China

## Spot Cooler Accessories

1	2	3	4	5	6
Standard Cool Air Duct	Standard Exhaust Air Duct	Cool Air Extension Duct	Exhaust Air Extension Duct	Duct Band	Standard Dust Filter
7	8	9	10	11	12
Heavy Duty Dust Filter	Oil Mist Filter	Cool Air Duct Elbow	Suspension Hooks	Cool Air Branch Duct	Cool Air Duct Shutter

Accessory	Applicable models	Measurements
1 Standard Cool Air Duct	SS-22, SS-40, SS-56	ø114 x 400mm
2 Standard Exhaust Air Duct	SS-22	ø175 x 400mm
	SS-40	ø200 x 360mm
	SS-56	ø250 x 360mm
3 Cool Air Extension Duct	SS-22, SS-40, SS-56	ø125 x 5m
4 Exhaust Air Extension duct	SS-22	ø175 x 4m
	SS-40	ø200 x 4m
	SS-56	ø250 x 4m
5 Duct Band	SS-22, SS-40, SS-56	ø125#, ø175, ø200, ø250
	SS-22	575 x 324mm
	SS-40	800 x 454mm
6 Standard Dust Filter	SS-56 ( Large )	720 x 424mm
	SS-56 ( Small )	495 x 282mm
	SS-22	580 x 500mm
	SS-40	770 x 480mm
7 Heavy Duty Dust Filter	SS-56 ( Large )	750 x 570mm
	SS-56 ( Small )	500 x 330mm
	SS-22	575 x 324mm
	SS-40	800 x 454mm
8 Oil Mist Filter	SS-56 ( Large )	717 x 424mm
	SS-56 ( Small )	500 x 280mm
9 Cool Air Duct Elbow	SS-22, SS-40, SS-56	different shape for each model
10 Suspension Hooks	SS-22	—
11 Cool Air Branch Duct	SS-22EG-8B	e90x2, L 500mm
12 Cool Air Duct Shutter	SS-40, SS-56	For cool air duct

※For cool air extension duct SS-22 does not include SS-22LA-8B.



# Company profile

## Sales activities



**We meet our customer's needs at sales offices organized throughout Japan.**

Knowing our customer is the first thing we do for sales activities. With pride and confidence as a leading manufacturer of general equipment for a working environment, we provide practical products and useful information from the customer's point of view. Another important role for us is to gather information that is helpful in improving our products as well as meeting the needs of the customers. We will provide a rich variety of our unique products that are developed with a new viewpoint under a thorough quality control.

## Product planning and development



**We are making efforts to plan and develop the products that may save energy, maximize efficiency, reduce noise, and contribute to solving the environmental problems. Our pursuit for better product development never ends.**

Our vital mission of the product development department is to develop a product that guarantees the satisfaction of our customers. Based on the information gathered by the sales department, we have been developing a variety of products while making the most of our experience and know-how. Making the maximum use of unfettered thinking, we have achieved an innovative designing for the products and their practicality to meet the customer's needs. Having a strong sense of purpose, we will continue our challenge to develop new products in corporation with the manufacturing factories.

## Manufacturing activities



**We take pride and delight in manufacturing products that may be used safely by the customers for long periods of time.**

In the manufacturing factories, we are capable of manufacturing products with high durability and quality under a thorough quality control. A global network of the factories enabled us to reduce the production cost and to develop unique products of ours in rich variety. In corporation with the product development section, we have always been working on the development of new products. Through building a prototype and conduct a variety of test of it, we will make persistent effort to provide our customers with the developed products of Suiden.

## Warehouse and forwarding activities



**We are making efforts to high efficiency of distribution not only to the domestic market in Japan but also to global market places.**

In all distribution centers of Suiden, we are capable of managing product distribution under a thorough quality control. A global network of Suiden distribution activities enabled us to reduce the distribution cost and to cope with variety of customer demands. In corporation with the distribution department, we have always been working on the highest efficiency of distribution for our customers on a global scale.

# The global Network of Suiden

**We have established the manufacturing factories not only in Japan but also overseas. We also opened our sales offices throughout Japan and Thailand to meet the customer's needs.**

### Dongguan Suiden Electrical Appliance Co.,Ltd



This factory is growing rapidly by increasing its capacity to manufacture a variety of overseas products such as spot cooler, vacuum cleaner, and some dust collector.

### Taiwan Suiden Co.,Ltd



This factory manufactures industrial fans and motors, latter of which are supplied to other factories.

### Suiden (Thailand) Co.,Ltd.



This is a sales office in charge of selling the products to the Thai market only.

### Tottori factory



This is the main manufacturing factory in Japan for the Suiden products. It mainly manufactures vacuum cleaners, hot-air dryers, and spot coolers for Japanese market.

### Nara office / warehouse



This facility is in charge of product planning, product development, product inspection, and die making. Nara office is also headquarters for production division that controls the production system globally including quality inspection.

### Kyoto Products Distribution Center



This is a computer-based distribution center that takes charge of the management of the products manufactured overseas and forwarding products to overseas markets.