

Evaporative Air Cooler  
**RKF**  
*series*  
 506α-A·406α-E

Deliver  
gentle coolness

Delivers energy savings while combating  
the effects of heat stress.

Nature inspired, Eco-Friendly evaporative cooler.



RKF506α-A

RKF406α-E



Made in  
Japan

Cools areas wider and farther out

Provides cool air efficiently and without heat exhaust

Extended operation with easy maintenance

7 times cheaper to run than a spot air conditioner

**Shizuoka Seiki**

<https://www.shizuoka-seiki.co.jp/english/>

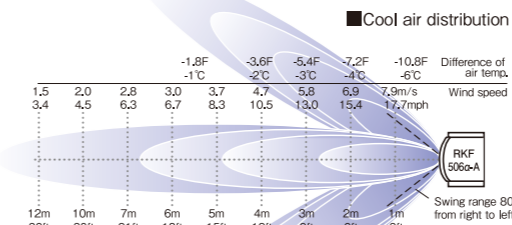
**RKF** *series* Specification

**RKF 506α-A**

Overwhelming  
feeling of  
coolness,  
large amount  
of air



For 4-6  
people

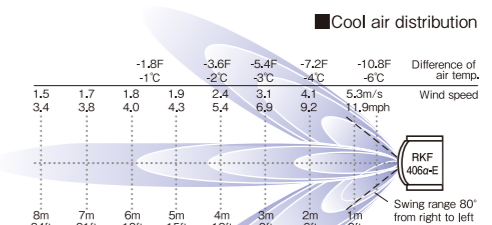


**RKF 406α-E**

Popular  
standard  
class



For 2-4  
people



The cold wind distribution map is measured under conditions without wind and trouble.  
Power cord length 3 m (all formats)

Model	RKF 506α-A		RKF 406α-E	
	50Hz	60Hz	50Hz	60Hz
Power source	110-120V		220-230V	
Power consumption(W)	335	510	175	245
Cooling capacity *1(kW)	7.2	8.6	3.5	4.0
Air flow(Max) *2	130m <sup>3</sup> /min., 4,600CFM	150m <sup>3</sup> /min., 5,300CFM	105m <sup>3</sup> /min., 3,700CFM	116m <sup>3</sup> /min., 4,100CFM
Amount of water evaporation *1	10.2 L/hr, 2.7gallons/hr	12.2 L/hr, 3.2 gallons/hr	5 L/hr, 1.3gallons/hr	5.6 L/hr, 1.5 gallons/hr
Tank capacity	50 liters, 13.2gallons			
Continuous operating time *1(Hrs.)	4.8	4.0	10.0	8.9
Water supply	Water tank with automatic shutoff			
Timer operation	1・4・8 hours			
Safety devices	Fuse, Water shortage detection, Motor overheat protection			
Operation noise(dB(A))	65	68	59	63
Dimensions(HxWxD)	1,565x673x658 mm, 61.6x26.5x25.9 inch		1,367x550x563 mm, 53.8x21.7x22.2 inch	
Dry weight	74kg, 163 lbs		51kg, 112.3 lbs	

**Evaporative Air Cooler** Periodic replacement parts

Parts Name	Parts Number	Model	Role
Cooling element RKF406α-E	50812-201007	RKF406α-E	Evaporate water and create cool wind ▲Cooling element
Cooling element RKF506α-A	50813-201018	RKF506α-A	
Air filter RKF406α-E	50816-201018	RKF406α-E	Take the dirt of the intake air ▲Air filter
Air filter RKF506α-A	50813-201019	RKF506α-A	
Water filter	50805-201005	RKF406α-E RKF506α-A	Take the dirt of the circulating water ▲Water filter



Caution

\*1 The above specification is for the inlet air condition at 30°C(86°F) / 50% relative humidity. Air flow measurement by JIS C 9601 Fan air volume calculation method.  
 ○After every operation, stop the cooler by Auto-stop operation in order to dry the cooling element. ○The drying operation lasts for about 20-40 minutes. Thereafter, operation stops automatically. ○When used in a narrow closed space, the humidity rises and the cooling performance can not be demonstrated. ○Operating ambient temperature is 5°C(41°F) ~ 45°C(113°F).

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 24020003C



# Evaporative Air Cooler RKF 506α-A·406α-E

5°C (9°F) cooler than ambient temperature

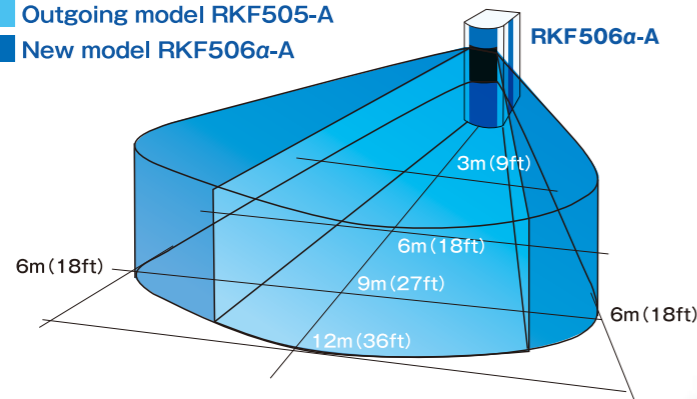
## 150% More Effective Cooling!

(Compared to previous model)



**1** 150% More effective cooling!  
Wider cooling area with an automatically swinging louver.  
(Compared to previous model)

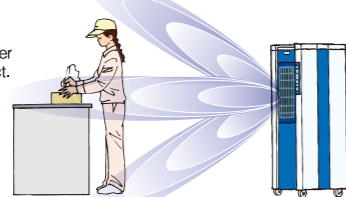
Outgoing model RKF505-A  
New model RKF506α-A



Cool area with wind speeds 1.1m/s or higher

**RKF 506α-A** In the area of 6m (18ft) left and right 9m (27ft) ahead  
**RKF 406α-E** In the area of 3m (9ft) left and right 6m (18ft) ahead

Wind speed 3.1m/s ahead 3m (RKF 406)  
Up and down swing louver deliver more cooling effect.



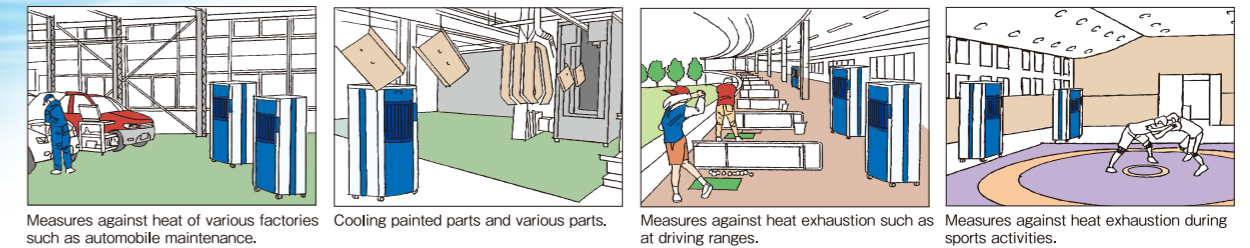
### Adjustable intensity

Select between high, middle, or low intensity with a convenient one touch button.



## Great success in various markets according to size and application.

An efficient way to combat heat exhaustion and cool parts during manufacturing.



## Comparison of power consumption

When compared to a Two-port spot air conditioner

2 ports type Spot air conditioner (designed for two)

1.72kW

85%

RKF406α-E (For two to four)

0.245kW (60Hz) 85% Reduction in Energy and Cost!



CO2 reduction



Economical

Low consumption contributes to CO2 reduction. Save on power bills.

### Safety and Easy control

Cool air outlet is covered with mesh guard to prevent possible injury.



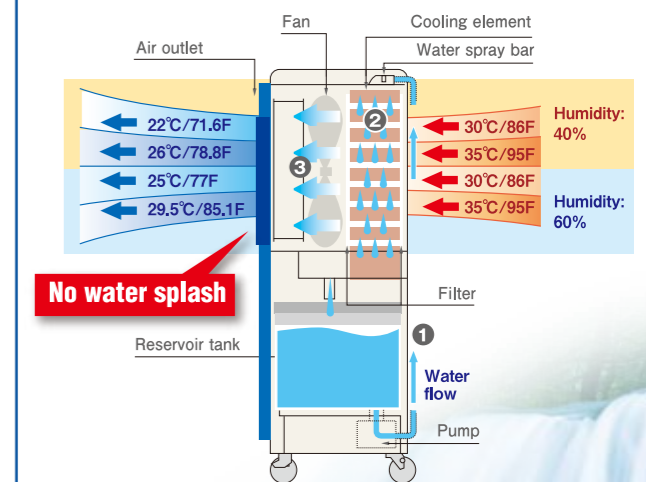
Easy handling: Wheels make moving cooler just as easy.

### Built-in off timer sets as default.



OFF Timer Automatically turns off from 1, 4, and 8 hours, Saving More Energy, and cutting cost.

### Cooling principle



No water splash

- Water in tank is pumped up and distributed evenly onto the cooling element.
- Evaporation occurs in the cooling element which causes actual temperature of the air to decrease.
- Large fan distributes the cooled air farther away.

## 2 Supplying water becomes much easier!

There are three ways to supply water.

### Simply pull out the tank lid to be used as a funnel.

- Slide out the lid of water tank and use it as a water supply tray.



The edge of the tank lid is designed to support weight during fills.

### Two ways to connect a hose to the water tank

- Hose can be routed through the tank inlet port on the top of the tank.
- For autonomous start/stop, connect hose to auto-supply valve.



## 3 Simple and Easy Maintenance.

### Water tank can be cleaned with little effort.

Circulating water could collect dust and debris, thus periodic cleaning of the tank is necessary.



Remove the water supply quick connect fitting. Pull out water tank. Wipe off and clean water tank through wide opening of water tank.

### Water refreshener tablet included with unit

Water refreshener tablet suppresses unpleasant odors from the water for up to 30 days.



Place water refreshener tablet into a tank filter bag. Water refreshener tablet RKF506α-A

### Added new feature for alpha model.

Water tray was added to prevent drips when the tank is detached.



NEW

### Maintenance notification features

The cooler automatically notifies the user to perform any maintenance by manufacturer's recommendation. NEW

### Easy replacement of cooling element

Periodic replacement of the cooling element is necessary for clean operation. No tools are required for this operation.

A Phillips-head screwdriver is required only on the RKF406α-E.



### Maintenance note:

The manufacturer suggests changing the cooling element every 1-2 years for extended clean operation.

