

RKF 503·403

Energy-saving / Comfortable / Earth-friendly

Evaporative air cooler Made in Japan

for workplaces such as factories and warehouses

for cooling mechanical equipment and products

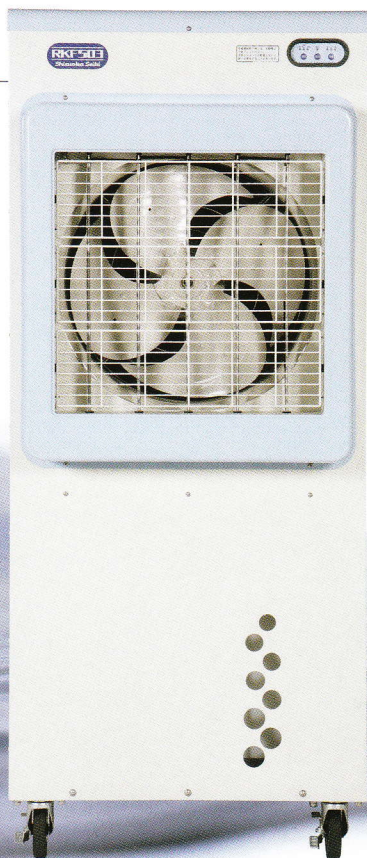
for indoor or outdoor events

for cooling down athletes

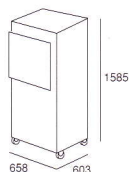


RKF

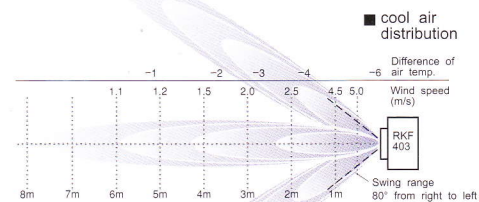
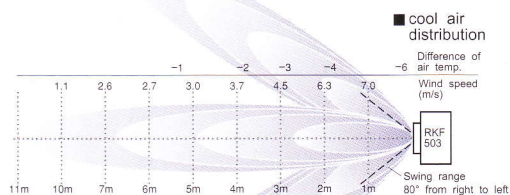
series



Exceptionally cool /
high airflow
RKF 503



Standard model
RKF 403



The higher ambient temperature is the more effective RKF series work

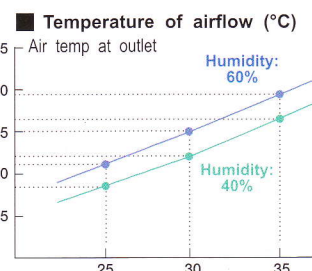
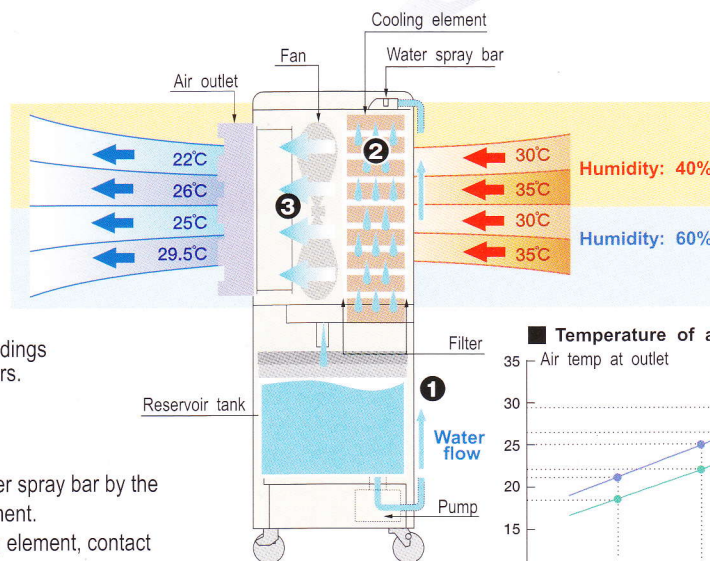
The cooling efficiency of RKF depends on ambient temperature and humidity. More cooling effect can be expected if temperature is higher and humidity is lower.

Supplemental cooling device

Reduce temperatures in air conditioned buildings by supplementing energy saving RKF coolers.

■ Mechanism

- 1 Water in reservoir tank is moved to the water spray bar by the pump and then sprayed on the cooling element.
- 2 The sprayed water runs through the cooling element, contact warm air and evaporates. Then the evaporation cools air.



RKF series Evaporative air cooler

RKF 03series
503·403

Evaporative air cooler

RKF can be used in any space size

When dry and warm air contact water, water will evaporate. Then the air lose its heat and the temperature decrease.

RKF series adopt this natural principle and are products which pursue its performance, usability, coolness and comfort.

Economic efficiency

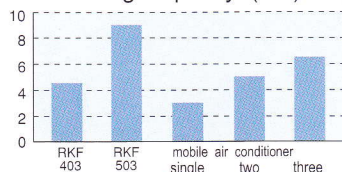
Less power consumption

Power consumption of RKF is very little because it creates cool air by natural principle. Therefore, RKF series can save it operation cost drastically comparing with typical air conditioner.

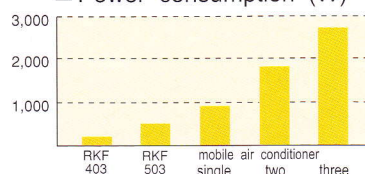
Power consumption per hour

■ RKF503	390W (230V 50Hz)
	520W (120V 60Hz)
■ RKF403	230W (230V 50Hz)
	290W (120V 60Hz)

Cooling capacity (kW)



Power consumption (W)



■ Comparison of power consumption between RKF403 & typical mobile air conditioner



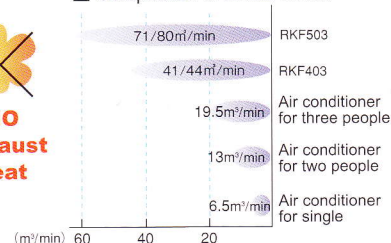
No exhaust heat

Comfortable cool air

RKF series produce comfortable and natural cool air and its huge airflow carries a long way. RKF never emit exhaust heat unlike air conditioner because RKF isn't equipped compressor.



Comparison of airflow (m³/min)



Earth-friendly product

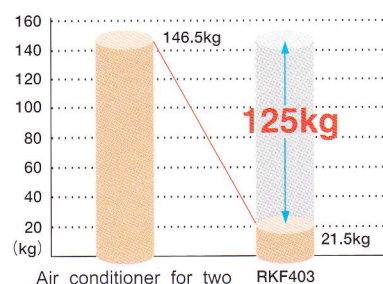
Contributing to prevent global warming

Because of less power consumption, RKF is energy-saving product. It can achieve CO2 reduction. In addition, RKF doesn't have a refrigerant gas such as a flon.

Global greenhouse gas (GHG) emission per month

■ RKF403	21.5kg
■ RKF503	44.0kg

Comparison of GHG emission per month between RKF403 and air conditioner



Variable wind direction

Auto-swing mechanism enable wind to blow in the range of 80 degrees to right or left. In addition, able to direct the wind in 30 degrees vertically by louver.

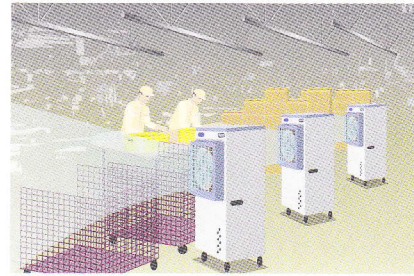


Easy transport

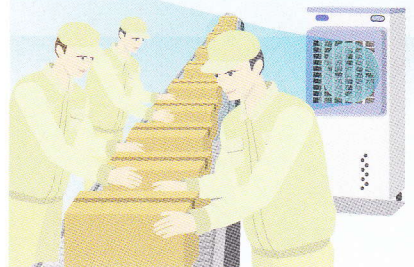
Equipped with casters for easy moving.



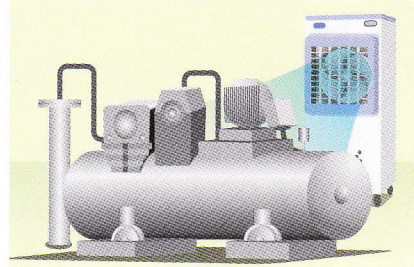
Application



At production line



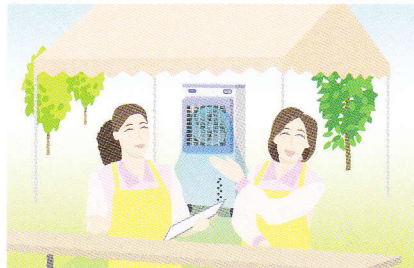
At ware house



Cooling machineries or products



Cooling down athletes



Outdoor events

Adjustable speeds

Easy touch button selector for high, medium or low air volumes.



Specifications

Model number	RKF403		RKF503	
	230V 50Hz	120V 60Hz	230V 50Hz	120V 60Hz
Cooling capacity *1	4.0kW	4.7kW	8.2kW	9.3kW
Dimensions (mm)	H1,382×W543×D521		H1,585×W658×D603	
Power source	230V 50Hz	120V 60Hz	230V 50Hz	120V 60Hz
Power consumption	230W	290W	390W	520 W
Air flow (MAX)	41m ³ /min	44m ³ /min	71m ³ /min	80m ³ /min
Amt. of water evaporation *1	5.7ℓ/h	6.5ℓ/h	11.2ℓ/h	13.3ℓ/h
Tank capacity	50ℓ		50ℓ	
Cont. operating time *1	8.0hours	7.0hours	4.5hours	3.5hours
Water feeding system	Water tank (automatic water supply system)		Water tank (automatic water supply system)	
Safety devices	Overload protection, Water shortage detection, Motor overheat protection		Overload protection, Water shortage detection, Motor overheat protection	
Operation noise	59dB (A)	62dB (A)	70dB (A)	74dB (A)
Fan diameter	400mm		450mm	
Dry weight	46kg		75kg	
Wide direction/volume	Vertical hand motion louver Horizontal auto-louver		Vertical hand motion louver Horizontal auto-louver	

*1 The above specifications are derived when the temperature of air at inlet is 30°C and its relative humidity is 50%.



Caution

Set a "Auto-stop" to stop operation in order to dry the cooling element, then drying operation starts for 20 minutes and operation stop completely. RKF can not exercise its cooling performance in a closed small room because humidity increase.

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