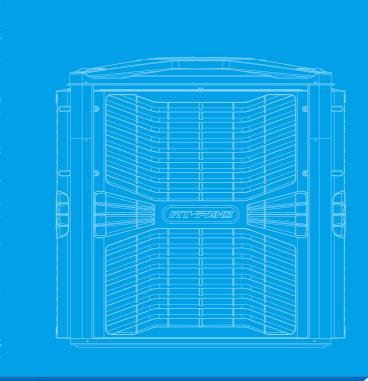
Save Energy, Stay Cool.



KOOL AIR INTERNATIONAL CO., LTD

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GUANGDONG RUITAI VENTILATION AND COOLING EQUIPMENT CO., LTD 16th Floor, Building 1, Guangda We Valley Phase 3, Songshan Lake High-tech Industrial Development Zone, Dongguan, Guangdong, China Tel: +86 2228 2409 Hotline: 400-8877 422



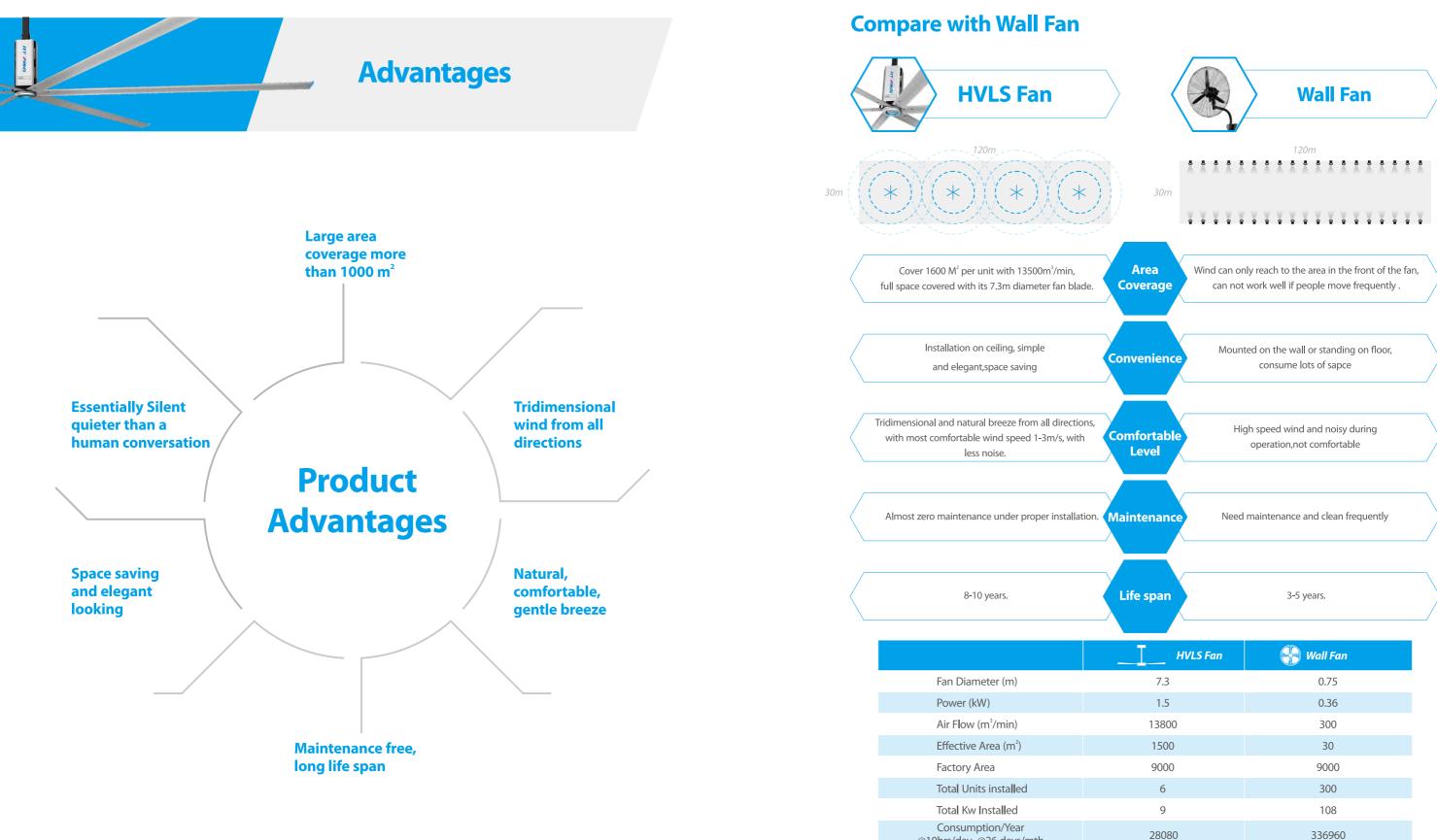
COMBO HVLS Fan & Air Cooler





than **4 meters**

HVLS Fan can be installed in any **BIG SPACE** which is higher



@10hrs/day @26 days/mth

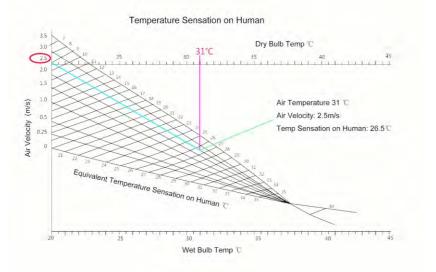
Product Introduction Advantages

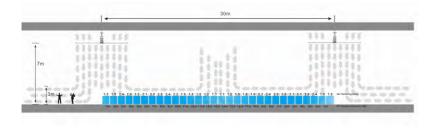
Functions-HVLS Fan

Application

Wind Chill Effect

The air passes over human skin (Similar to a fan created effect) thereby causing a lower temperature sensation.







Air exchange with outside fresh air rapidly through the window or roof ventilator, reducing the turbid air and providing people a comfortable environment

Dehumidification

HVLS fan can accelerate the air mixing of whole space which helps to distribute and absorb the odours, smoke and humidity very well, thus to improve the quality of air and provide a fresh, arid and safe environment

	RH Value							
Normal RH	30%	40%	50%	60%	70%	80%		
RH with HVLS Fan Running	27%	35%	43%	50%	58%	65%		
RH Decreased By No.	3%	5%	7%	10%	12%	15%		
RH Decreased By %	10.00%	12.50%	14.00%	16.67%	17.14%	18.75%		

THEFT



Factory

Workshop



Warehouse



Metro Station



Gym



Product Introduction Application

As the leading brand in HVLS fans, RTFANS has a complete product portfolio. With 3M to 7.3M in diameter, our products have a wide application range and remarkable effect, as well as proven superb quality.



Logistic Center



Waiting Room



Restaurant



Manufacturing



Airport



Garage



Dairy Farm

The Core Technology

Fan Blade

- High strength aircraft aluminum alloy: AA6063T6511, PVFD processed on surface.
- Patented airfoil design, and special reinforcing rib support system which increases the strength of fan blade and avoids the sagging of fan tail and fatigue loss of connecting components.
- Customized fan blade color



Driving Device

- PMSM (Permanent Magnet Synchronous Motor) technology with high efficiency and long service time.
- Compact and light design, no space limitation and easy to install.
- Direct drive without gear and lubrication oil replace, Essentially silent and maintenance free.



Driving Device

- German imported "NORD" coaxial bevel wheel decelerator with diamter of axle 40mm, to decrease radial force
- German imported "Simrit" double oil seal design, more durable and reliable
- "Shell" brand top class "Omala" S4 lubrication oil, Zero maintenance for over 20000 hours
- IE2 high efficient motor with imported "SKF-VL" bearing, save more 5~10% than IE1



Controller

- Denmark imported "DANFOSS" VFD(Variable Frequency Driver) inverter
- IP55 motor protection grade and NEMA 1 standard control box
- "Schneider" brand electrical sets, with safety protection module inside which will interrupt the output automatically in case of some accidents.

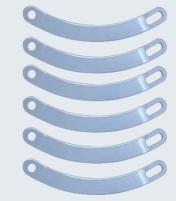
Hub

- Innovative double chassis design, more durable and steady
- Imported aeronautic aluminum alloy (Aa7075)
- Forged by 1000T machine with 570Mpa extension
- strength
- T6 heat processing





Safety Measures





Installation Kit

- Particular no-skip flute design and locknut to prevent any accident of installation kit
- Adjustable standard clip device without the need to change the structure of building

Cardan Joint

• Unique cardan joint design, working as a human beings' joint, this allows the fan to find its own vertical position no matter what the slope of the building, and helps to decrease the shocking of fan during running

Fasteners

• German DIN933 Industrial Bolt and DIN125A locknut with high strength 8.8 grade, the practical stress it could endure is 10 times than normal



Certificate



Safety Lock

The safety lock structure to reconnect all the fan blades an integrated structure and prevent any single blade falling.



Product Series —Industrial series specifications







SN	Model	Fan Dia. (m/ft)	Motor Power (KW/HP)	RPM	Current (A) 380V/220V	Air Flow (m³/min)	Weight (KG)	Application Area (SQM.)	Noise (dBA)
1	RTF-CF-7E	7. 3/24	1. 5/2. 0	20-53	3.35/5.8	13, 800	125	1, 800	43
2	RTF-CF-6E	6. 1/20	1. 5/2. 0	20-58	3.35/5.8	12,000	115	1, 380	43
3	RTF-CF-5E	5. 5/18	1. 5/2. 0	20-63	3.35/5.8	10, 500	110	1, 050	43





Target Applications:Industrial Area:Workshop / Logistics warehousePublic Area:Car station / Hospital / School Auditorium / ChurchService Area:Exhibition center / 4S store / Hotel / Canteen / Supermarket / Gym





SN	Model	Fan Dia. (m/ft)	Motor Power (KW)	RPM	Current (A) 380V/220V	Air Flow (m³/min)	Weight (KG)	Application Area (SQM.)	Noise (dBA)
1	RTF-DF-7E	7.3/24	1.2	20-53	2.5/4.3	13, 800	115	1,800	39
2	RTF-DF-6E	6. 1/20	0.85	20-58	1.4/2.4	12,000	105	1, 380	39
3	RTF-DF-5E	5. 5/18	0.65	20-63	1.6/2.7	10, 500	100	1, 050	39



Product Series Commercial Series Specification

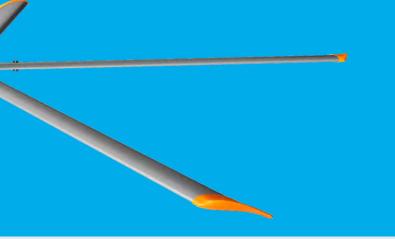








SN	Model	Fan Dia. (m/ft)	Motor Power (KW/HP)	RPM	Current (A) 380V/220V	Air Flow (m³/min)	Weight (KG)	Application Area (SQM.)	Noise (dBA)
1	RTF-SF-4E	4.0/13	0.55	40-102	1.52/2.63	8,800	50	450	40
2	RTF-SF-3E	3.0/10	0.55	40-102	1.52/2.63	6,500	45	350	40

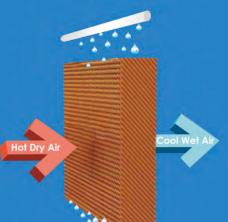


VENTILATION COOLING SOLUTION - Evaporative Air Cooler



Cooling Principle

As schematically shown, when the cooler is working, water is pumped from the tank to the water distributor, and distributed evenly to the evaporative cooling pads, then go back to the tank. Meanwhile, the outside hot air is drawn through the wetted cooling pads and filtered and reduced in temperature before delivering to the user space.





How does evaporative air cooler work?

Filtered and cooled by an evaporative air cooler, the outdoor fresh air is continuously sent into the indoor space through the air duct and air supply outlets. With the continuous supply of fresh air, the indoor space is in a positive pressure condition, thus the original hot air containing odor and dust will be emitted out of the room, resulting in a cool, ventilated, clean and comfortable environment. Suitable exhaust area and effective exhaust are essential for satisfactory performance of any evaporative air cooling system

Cooling Effect Data Sheet

	Relative Humidity								
Amb. Temp	20%	30%	40%	50%	60%	70%	80%	90%	
20	12	13	14.5	15.5	16.5	17.5	18.5	19.2	
25	16	17	18.5	20	21	22	23	24	
30	19.5	21	22.5	24	25	26	28	28.9	
35	23	25	26.5	28.5	29	30	32.5	33.7	
40	25.6	28.1	30.4	32.3	33.9	This zone is no	ot applicable		
45	29.2	32	34.4	This zone is not applicable as in reality when the temperature is relatively high, RH is predominantly lower than the supply air temperatu					
50	32.7	35.8			relatively high, KH i	s predominantly lo	wer than the suppl	iy air temperature	

With the wind-chill effect, the effective temperature for thermal human comfort is 1~2°C lower than the Supply Air Temperature

Power consumption comparison between three cooling alternatives.

Cooling	Туре	Evaporative Air Cooler	Air Conditioning	Ventilation Fan	
Equipment	Capacity	18000 m³/hr	400000 BTU/hr	40000 m³/hr	
	kw	1.1 kw	54 kw	1.1kw	
	Area(m ²)	1000	1000	1000	
Workspace	Effective Height (m)	4	4	4	
	Air Change per hour	30	Recirculating	30	
	Total Units Insalled	10	2	8	
	Total KW insalled (kw)	11	108	8.8	
Electrical Energy consumed	Electrical Units Consumed @10hrs/days @26day/mth	34320 kwh per year	336960 kwh per year	27456 kwh per year	
consumed	Cost conparison with reference to AC	10.1%	100%	8%	
Effects of va	rious cooling methods	Pushes out hot, taste air and ventilates with Cool Clean & Fresh Air.	Circulates air inside only It is ineffective in heat generating space	Only moves ambient air but offers no relief as temperature rises.	

Remark:Figures base on 1000m² wordspace area

Parameter

Parameter

Model: RTF-20 & RTF-25 Series

RTF-20& 25 high-end series are professional strong plastic structured models with axial fan, which needs to be installed with air ducting system. Fixed installation model is appropriate to be installed on solid places such as outside wall, grounds, concrete or Zinc-steel structured roof.



Factories

Supermarket

School & Church

Entertainment Centers



Model		RTF-20A	RTF-20B	RTF-20C	RTF-25A	RTF-25C
Discharge Type		Bottom	Side	Тор	Bottom	Тор
Fan Type		Axial	Axial	Axial	Axial	Axial
Max airflow	$m^{\scriptscriptstyle 3}/h$	20000	20000	20000	25000	25000
Voltage/Hertz/Phase	\//⊔≂/Db	220-240V/50Hz/1P	220-240V/50Hz/1P	220-240V/50Hz/1P	220-240V/50Hz/1P	220-240V/50Hz/1P
voltage/ment2/mase	V/F1Z/F11	380-415V/50Hz/3P	380-415V/50Hz/3P	380-415V/50Hz/3P	380-415V/50Hz/3P	380-415V/50Hz/3P
Power consumption	KW	1.1	1.1	1.1	1.5	1.5
Evaporative Capacity	L/h	65	65	65	75	75
Sound Pressure Level @1m	dB(A)	≪68	≪68	≪68	≤71	≤71
Water Tank Capacity	L	25L	35L	35L	25L	35L
Air outlet Dimensions	mm	670*670	670*670	730*730	670*670	730*730
Unit size	mm	1120*1120*1030	1120*1120*1030	1120*1120*1075	1120*1120*1250	1120*1120*1300
Net Weight	Kg	60	57	60	79	79

Model: RTF-30 Series RTF-25BL/35BL/45BL/60BL Centrifugal

RTF-30 Series are popular stainless steel structured models with axial fan. RTF-25BL/35BL/45BL/60BL are popular stainless steel structured models with centrifugal fan. Which need to be installed with air ducting system. Fixed installation model is appropriate to be installed solid places such as outside wall, grounds, concrete or Zinc-steel structured roof



Workshops **Factories**

Supermarket

School & Church

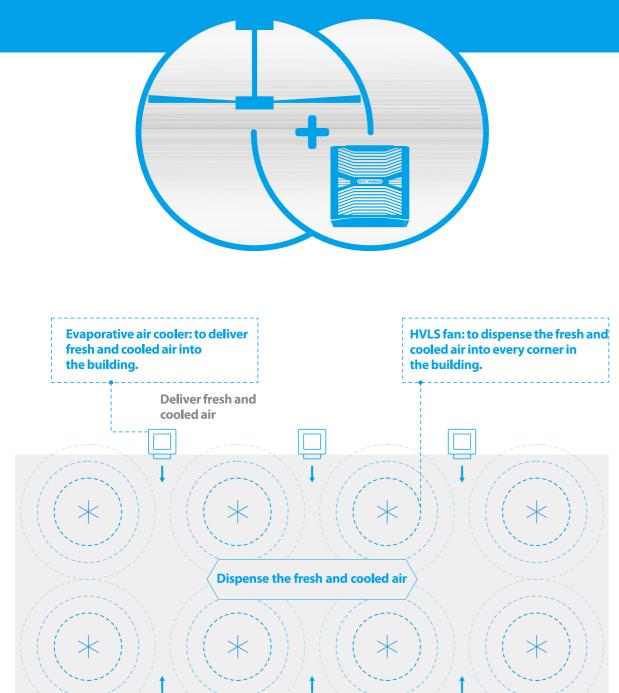
Entertainment Centers

Model		RTF-30A	RTF-30B	RTF-25BL	RTF-35BL	RTF-45/60BL
Discharge Type		Bottom	Side	Side	Side	Side
Fan Type		Axial	Axial	Centrifugal	Centrifugal	Centrifugal
Max airflow	m³/h	30000	30000m	25000	35000	45000/60000
Voltage/Hertz/Phase	V/Hz/Ph	380-415V/50Hz/3P	380-415V/50Hz/3P	380-415V/50Hz/3P	380-415V/50Hz/3P	380-415V/50Hz/3P
Power consumption	Kw	2.2	2.2	5.5	7.5	11/15.5
Evaporative Capacity	L/h	112	112	117	220	260/380
Sound Pressure Level @1m	dB(A)	78	78	82	84	86/89
Water Tank Capacity	L	65	65	65	80	100
Air outlet Dimensions	mm	800*800	800*800	620*570	782*700	862*770/926*834
Unit size	mm	1470*1470*1350	1470*1470*1350	1470*1490*1400	1770*1770*1440	2090*1970*1700
Net Weight	Kg	170	180	300	450	585/650





VALUED VENTILATION COOLING SOLUTION -Fan & Cooler Combo



F

Big Space Ventilation & Cooling Expert ---About Us

With 18 years' experience in the market, Kool Air International Co., Ltd, has become an industry leader in evaporative cooling technology and also an expert in big space ventilation and cooling. Our brand "RTFANS" is the most popular in HVLS fan and Evaporative air cooling field, Kool Air aims to be your perfect solution provider on air processing with full range of evaporative cooling and ventilation products including evaporative air coolers, cooling pads, HVLS fans, for household, commercial, industrial as well as agricultural use.

Kool Air aim to create a green and eco-friendly concept ventilation and cooling as global warming is a major concern to the world at current. Its products have resulted in energy efficiency thus reducing cost significantly for commercial and industrial professionals to optimize usage of energy in an intelligent manner. By adopting this concept, Kool Air will continuously pursue research and development programs to manufacture quality and competitive products.

Today, more than ever, Kool Air can be your natural choice on air processing field, as it can be used wherever we go, it is related to our daily life.





Case Study

























Case Study

Valued Customer

