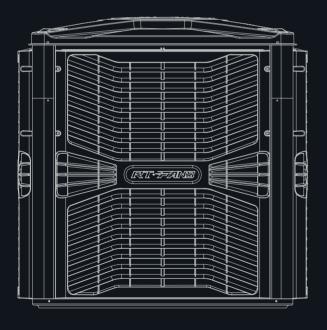


BIG SPACE

Ventilation & Cooling Solution Leader

COMBO HVLS Fan & Air Cooler









Warehousing Logistic



Public Space



Commercial Spa



Animal Husbandr









HVLS Fan Advantages

Large area coverage at low power consumption Essentially Silent quieter than a **Tridimensional** wind from all human conversation directions **Product Advantages** Space saving and elegant Natural, Comfortable, **Gentle Breeze** looking **Maintenance Free,** Long life span

Compare with Wall Fan



HVLS Fan



Wall Fan

Cover 1,500m² per unit with 15,500m³/min, full space covered with its 7.3m diameter fan blade.

Area Coverage Wind can only reach to the area in the front of the fan, can not work well if people move frequently.

Installation on ceiling, simple and elegant, space saving

Convenience

Mounted on the wall or standing on floor, consume lots of space.

Tridimensional and natural breeze from all directions, with most comfortable wind speed 1-3m/s, with less noise.

Comfortable Level High speed wind and noisy during operation, not comfortable.

Almost zero maintenance under proper installation.

Maintenance

Need maintenance and clean frequently.

10-15 years

Life span

3-5 years

	HVLS Fan	Wall Fan
Fan Diameter (m)	7.3	0.75
Power (kW)	1.5	0.36
Air Flow (m³/min)	15,500	300
Effective Area (m²)	1,500	30
Factory Area (m²)	9,000	9,000
Total Units Installed	6	300
Total Kw Installed	9	108
Consumption/Year @10hrs/day @26 days/mth	28,080	336,960

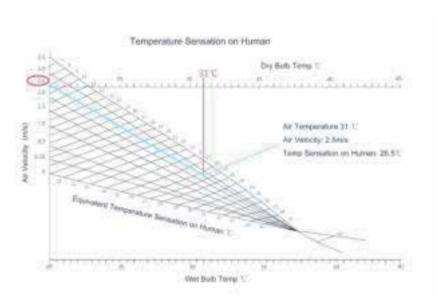
Remark: Figures base on 9000m² workspace area

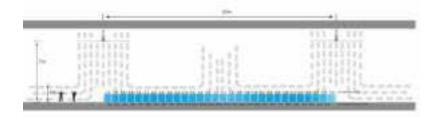


Functions-HVLS Fan

Wind Chill Effect

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





Natural Ventilation

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%	

Application

As the leading brand in HVLS fans and Evaporative Air coolers, RTFANS has a complete product portfolio, the diameter of the HVLS fan is 2.7M to 7.3M, the air volume of the air cooler is 6,000m³/h to 60,000m³/h. Our products have a wide application range and remarkable effect, as well as proven superb quality.



Factory



Workshop



Manufacturing



Warehouse



Logistic Center



Airport



Metro Station



Waiting Room



Garage



Gym



Restaurant



Dairy Farm

The core Technology



Motor & Reduction Gears

Customized By Germany Nord

- German "Nord" customized coaxial bevel reduction gears with diameter of axle 40mm.
- German "Simrit" double oil seal design, durable and reliable.
- "Shell" top class "Omala" S4 lubrication oil, zero maintenance for over 20,000 hours.
- IE3 high efficiency motor with imported "SKF-VL" bearing, save energy by 10-15% than IE1 motor.



PMSM Motor

High efficiency Direct Drive Motor

- High efficiency PMSM (permanent magnet direct drive) motor with high efficiency and long service time.
- Inner rotor motor, better heat-dissipation performance and higher insulation protection Ip64.
- Plug-in automatic temperature protection to avoid any risk of demagnetization.
- Benefit from inner rotor structure, Multi-point installation can improve the stress of the fan motor, more safe and reliable.
- Compact and light weight design, no space limitation and easy to install.





Fan Blade

Aircraft Aluminum Alloy AA6063T6511

- Adopt High strength aircraft aluminum alloy: AA6063T6511, PVFD surface coating.
- Patented airfoil design, and special reinforcing rib supporting system, increase the strength and flexibility.
- Inner equipped steel cable design to prevent fan blade falling.



Hub Wheel

Patented Anti-Falling Device: 202220632562.3

- Innovative double chassis design, more safe and steady.
- Adopt high strength aircraft aluminum alloy: AA6063T6511.
- Forged by 1000T machine with 570Mpa extension strength.
- T6 heat processing.

The core Technology



Blade Holder | Aircraft Aluminum Alloy AA7075

- Adopt Aeronautic Aluminum Alloy(AA7075)
- · Adopt high pressure forging technology with better mechanical property, higher strength and toughness.
- With T6 thermal treatment process & CNC precision machining, 40 times strength test.



Cardan Joint

Soft connection between Fan & Building

- Unique Cardan joint design, used for HVLS fan balance when it installs at a slope building structure.
- Soft connection between the building structure and the HVLS fan, working as a human beings' joint, to decrease the shocking of a fan during running.





VFD Controller

Denmark Danfoss

- Denmark "DANFOSS" VFD inverter, with stepless speed regulation.
- Ip55 protection grade and NEMA 1 standard control box.
- "Schneider" brand electrical sets, with safety protection module inside.





VFD Controller | RTFANS Exclusive Design

- RTFANS Exclusive Design Split-type Controller for commercial HVLS fan.
- USA high-end TI Chip, high output torque and better anti-electromagnetic Interference, lower electromagnetic noise.
- Stepless speed regulation, Time display, Timer On/Off, Power-off memory function, Working time display, etc.
- Muti-Safety protection, Open-phase, Over-current, Lock-rotor overload, Over-voltage, Under voltage, Over Temperature Protection, etc.

King Series

Industrial HVLS fan

Applicable Height: 6-20 Meters







*VFD controller





Model	Fan Dia. (m/ft)	Air Flow (m³/min)	Motor Power (KW/HP)	Current (A) 220V/380V	RPM	Application Area (SQM.)	Noise (dBA)	Weight (KG)
RTF-CF-7EEX	7.3/24	15,500	1.5/2.0	5.8/3.55	20-53	1,800	43	125
RTF-CF-6EEX	6.1/20	14,000	1.5/2.0	5.8/3.55	20-58	1,380	43	110
RTF-CF-5EEX	5.5/18	12,800	1.5/2.0	5.8/3.55	20-63	1,050	43	105

Paragon Series

Industrial HVLS fan

Applicable Height: 6-12 Meters







*VFD controller





Model	Fan Dia. (m/ft)	Air Flow (m³/min)	Motor Power (KW/HP)	Current (A) 220V/380V	RPM	Application Area (SQM.)	Noise (dBA)	Weight (KG)
RTF-FF-7EEX	7.3/24	13,800	1.1/1.5	4.1/2.4	20-53	1,600	42	115
RTF-FF-6EEX	6.1/20	12,000	1.1/1.5	4.1/2.4	20-58	1,200	42	105
RTF-FF-5EEX	5.5/18	10,500	1.1/1.5	4.1/2.4	20-63	850	42	100

Virtue Series

Commercial HVLS fan

Applicable Height: 4-7 Meters





*VFD controller





Model	Fan Dia. (m/ft)	Air Flow (m³/min)	Motor Power (KW)	Current (A) 220V/380V	RPM	Application Area (SQM.)	Noise (dBA)	Weight (KG)
RTF-SF-5EEX	4.7/16	9,000	0.55	2.2/1.3	40-80	550	40	55
RTF-SF-4EEX	4.0/13	8,000	0.55	2.2/1.3	40-102	450	40	50
RTF-SF-3EEX	3.3/11	6,500	0.55	2.2/1.3	40-102	350	40	45

Charm I Series

PMSM HVLS fan

Applicable Height: 6-20 Meters





*VFD controller





Model	Fan Dia. (m/ft)	Air Flow (m³/min)	Motor Power (KW/HP)	Current (A) 220V/380V	RPM	Application Area (SQM.)	Noise (dBA)	Weight (KG)
RTF-DF1-7EEX	7.3/24	15,500	1.2/1.6	4.3/2.5	20-53	1,800	39	115
RTF-DF1-6EEX	6.1/20	14,000	1.2/1.6	4.3/2.5	20-58	1,380	39	105
RTF-DF1-5EEX	5.5/18	12,800	1.2/1.6	4.3/2.5	20-63	1,050	39	100

Charm II Series

PMSM HVLS fan

Applicable Height: 6-12 Meters





*VFD controller





Model	Fan Dia. (m/ft)	Air Flow (m³/min)	Motor Power (KW/HP)	Current (A) 220V/380V	RPM	Application Area (SQM.)	Noise (dBA)	Weight (KG)
RTF-DF2-7EEX	7.3/24	13,800	1.2/1.6	4.7/2.7	20-53	1,600	38	110
RTF-DF2-6EEX	6.1/20	12,000	1.2/1.6	3.5/2.0	20-58	1,200	38	100
RTF-DF2-5EEX	5.5/18	10,500	1.2/1.6	3.5/2.0	20-63	850	38	95

Grace Series

Commercial PMSM HVLS fan

Applicable Height: 3.5-6 Meters





*VFD controller





Model	Fan Dia. (m/ft)	Air Flow (m³/min)	Motor Power (KW)	Current (A) 110V/220V	RPM	Application Area (SQM.)	Noise (dBA)	Weight (KG)
RTF-YF-4EEX	4.0/13	6,800	0.5	3.4/2.0	30-80	400	36	37
RTF-YF-3EEX	3.3/11	5,800	0.3	2.2/1.3	30-100	300	36	30
RTF-YF-2EEX	2.7/9	4,800	0.3	1.7/0.9	30-100	200	36	28

Application(HVLS fan)



Factory



Logistics Center



Workshop



Warehouse



Distribution Center



Church & Sport Hall

Application(HVLS fan)



Shopping Mall



Garage



School Hall



Restaurant & Hotel



Exhibition & Show Room



Aircraft Maintenance

Valued Customers





















































About Us

Kool Air International Development Limited., with the brand name RTFANS, is a professional manufacturer and exporter of industrial and commercial ventilation and cooling products in China. Our factory is located in Dongguan City, China, which is a national high-tech enterprise.

Since our establishment in 2003, working as an engineering company providing industrial ventilation and cooling solutions, we have focused on providing our customers with quality and energy-efficient ventilation and cooling equipment. So far, our products have been exported to more than 70 countries and regions: Japan, South Korea, Thailand, Vietnam, Malaysia, Philippines, India, Australia, Spain, the United States, Mexico, and so on.

When RTFANS was first established, it mainly sold and installed industrial air coolers to factory owners. Later it moved into manufacturing and introduced HVLS fan products to the evaporative cooling system in 2010 and started combining the two into one system(called the "Fan and cooler Combo"). After more than ten years of practice, the "fan & cooler combo" system has become the most energy-saving and environmentally friendly ventilation and cooling solution for large spaces.

As a member of energy-saving and environmental protection enterprises, we aim to bring better air to customers with less cost and energy. We are proud to be in this business, not only because we keep satisfying our customers with high-quality products and services, but also because this business brings social value to the world and benefits future generations.





Save Energy, Stay Cool.

KOOL AIR INTERNATIONAL DEVELOPMENT LIMITED

Room 2008, 20/F, Landmark North, 39 Lung Sum AVE., Sheung Shui, N.T., Hong Kong.

Tel: +852 6065 7819 E-mail: info@koolairint.com

Website: www.koolairint.com / www.rtfans.com

GUANGDONG RUITAI VENTILATION AND COOLING EQUIPMENT CO., LTD

16th Floor, Building 1,GuangdaWe Valley Phase 3, Songshan Lake High-tech Industrial Development Zone, Dongguan, Guangdong, China
Tel: +86 2228 2409 Hotline: 400-8877 422



PT Clarus Tata Graha

 Jalan Lapangan Bola No. 9D Kebon Jeruk, Jakarta Barat 11530 Indonesia

c +62 21 3878 2120

+62 852 1000 0880

(f) (in ▶ @claruscorp (f) clarus.id