

# Sole agent for KOLOWA ventilation fan





Factory / Warehouse Ventilation Biggest Roof Top Fiberglass Exhaust Fan

Natural / Turbine Ventilator

- Low Electricity Consumption
- Lowest KW Per CFM
- · Low RPM, Low Noise
- · Fiberglass, Long Life, Non Corrosion
- · No Electricity Charges
- No Motor
- Superb Performance
- · Full Stainless Steel, Long Life





PLASTIC FACTORY-Design, Install, Commission & Refurbish Process Cooling and Air Conditioning systems

We offer Professional & quality service conforming to international standards at competative prices, providing you with the highest level of value for money

# SF-118/190/240/288 Industrial HVLS Ceiling Fan

Electricity consumption:2~5.0A Speed: 10-60RPM(Variable Speed)



1 Set of 190" HVLS Fan=Efficiency of 8 sets 48" exhaust cone fan



(Save electricity 88% Save energy fee of 7 sets 48" exhaust cone fan)

#### LR55 FRP Exhaust Cone Fan



Size: 146x146x60 cm

HP: 2HP

Blade: 50" 3-Blades(Nylon+Fiber)

Capacity: 45,000CMH

Opening Required: 140x140 cm

**PVC Shutter** 

# TYPE SF-118 SF-190 SF-240 SF-288 SIZES 3M 4.8M 6.1M 7.3M







**NEW TYPE**MSF-90
Movable HVLS Fan



## RSF-155 Road HVLS Fan



### NEW KV55 EXHAUST FAN



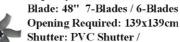
Sizes:146x146x58cm Material quality:FRP HP: 1 HP 40,000 CMH 2 HP 45,000 CMH Blade:50"6-Blades Opening Required:140x140cm Galvanized propeller

#### LFS54-7D FRP Shutter Fan

FS54-6D FRP Connecting Rod Shutter Fan

\*

Sizes:148x148x45cm HP:1.5HP RPM:500 Material quality:FRP Weight:72kg Capacity:40,000CMH / 23,557CFM



**Connecting Rod Shutter** 

## 14"Solar Ventilating Fan

**New Type** 

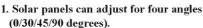


Model NO.: SF-14R / SF-14S

Sizes:53x53x25cm

(When solar panel is 0 degrees)
Blade:14" Weight:17 kgs
Motor: DC 24V RPM:1,750
Solar panel power:20W/18V

Capacity:3,315CMH



2. Nature power ventilator (Solar only).

# KOLOWA COOLING SYSTEM ELECTRIC CONSUMPTION

Factory Dimension: 40M x 60M x 4M=9,600M3

40M x 60M=2,400M2

Fan Model:LR54-3DS FRP Belt Less Exhaust Cone Fan Specification:1.1Kw/Hr. / 45,000CMH / 220V/60HZ / 3phase Comparison of KOLOWA Ventilation Cooling System over Ceiling fan and Air-conditioned unit

	Ceiling fan	Aircon	KOLOWA
Function Cooling	Blowing	Cooling	Blowing & Cooling
Kw/unit	0.4Kw	1HP=0.746Kw	1.1Kw
Covered area	5 sq.mts	10 sq.mts	100 sq.mts
No. of units per 2,400 sq. mts	480	240	24
Cost/ Kw /hr.	USD 0.20c	USD 0.20c	USD 0.20c
Daily consume for 10 hours of use	USD 384.00	USD 358.08	USD 52.80
Monthly consume for 30days of use	USD 11,520.00	USD 10,742.40	USD 1,584.00
Yearly Consume for 360 days of use	USD 138,240.00	USD 128,908.80	USD 19,008.00

#### **BLDC FAN**

SF-14S



Sizes: 147x147x60cm HP: 1HP 40,000CMH Blade: 48" 7-Blades Opening Required: 140x140cm

SAVING ENERGY, SINGLE PHASE

# SD-14 / SDP-14 14" Ceiling Fan





SDP-14 Function
Sterilization +
Deodorization

Power:53W/28W

3/5 Variable speed

#### ELECTRIC CONSUMPTION:

1.Ceiling Fan: USD 138,240.00-USD 19,008.00 = USD 119,232.00(savings/yr). 2.Air-condition: USD 128,908.80-USD 19,008.00 = USD 109,900.8(savings/yr).

Summary of Cooling System Materials and Installation Cost:

24units of Fans & Cooling Pads Materials & Installation @ USD3,700/unit=USD88,800 (total cost) Note: Excluded of Technical consultant & Shipment Cost.



Model No. MF20-6A Sizes: 76 x 76 x 15cm

Weight: 26kgs HP: 1/2 HP RPM: 1200

Blade: 20"Aluminum Alloy Capacity: 4,150CMH/ 2,444CFM



Model No. LG32-5A Galvanized Steel Fan Sizes: 91.5x91.5x30cm Weight: 49 kgs RPM: 660 HP: 1/2 HP Blade: 28" Galvanized Steel Capacity: 10,000CMH / 5,889CFM



Model No. LG42-5D Galvanized Steel Fan Sizes: 107.5x107.5x30cm Weight: 56 kgs RPM: 500 HP: 1 HP (Direct Drive) Blade: 36" Galvanized Steel Capacity: 18,000CMH/ 10,600CFM

VL: 70 Feet VW: 25 Feet



Model No. LGS42-6A Weight: 54 kgs Shutter Fan Sizes: 107.5x107.5x30cm HP: 1/2 HP RPM: 600 Blade: 36" Galvanized Steel (Aluminum Alloy Rim) Capacity: 18,000CMH / 10.600CFM

Opening Required: 110x110cm



Model No. LGS54-6A Exhaust Shutter Fan Sizes: 137.5x137.5x45cm Weight: 87 kgs RPM: 390 HP 1 HP Blade: 48" Galvanized Steel or Stainless Steel Capacity: 33,000CMH 19,434CFM



Model No. LG66-3A Sizes: 167x167x60cm Weight: 134 kgs HP: 2HP 59,500CMH/ 35,041CFM 3HP 67,500CMH/ 39,752CFM Blade: 60" Aluminum Alloy



Model No. GS-42 Connecting Rod Shutter Fan Sizes: 107.5x107.5x32cm Weight: 75 kgs RPM: 500 HP: 1 HP Blade: 36" Galvanized Steel or Stainless Steel Aluminum Connecting Rod Shutte Capacity: 18,000CMH / 10,600CFM



Model No. GS-54 Connecting Rod Shutter Fan Sizes: 137.5x137.5x47cm Weight: 98 kgs HP: 1.5HP RPM: 500 Blade: 48" Galvanized Steel or Stainless Steel Capacity: 33,000~42,000CMH 19,434~24,734CFM Aluminum Connecting Rod Shutter



Model No. SF24-6D Sizes: 74x31x74cm Weight: 24.5 kgs HP: 1/2 HP RPM: 860 Blade: 24" Aluminum Alloy Capacity: 7,000CMH/ 4.123CFM Net: Stainless Steel net



Model No. KGW-A24 Sizes 80.5 x 80.5 x 35cm Weight: 33.5 kgs HP: 1/2 HP RPM: 860 Blade: 24" Aluminum Alloy Opening Required: 74.5x74.5cn Capacity: 7,000CMH / 4 123CFM With PVC Shutter and Stainles



Model No. LFS54-3DS 48" FRP Shutter Fan Sizes: 137.5x137.5x38cm Weight: 80kgs HP: 1 HP 33,000CMH / 19.434CFM 2 HP 45,000CMH 26,501CFM



Model No. KF-20 / KF-24 FRP Roof Ventilator Sizes: 122x94 (60,64)cm Weight: 28.5 kgs HP: 1/2 HP RPM: 1100 Capacity: 5,400CMH/ 3.180CFM Blade: 20" Aluminum Alloy

24'Coating Propeller

13

Model No. KF-36 36"Roof Mounted Exhaust Fan Sizes: 120x152 (96,55)cm Weight: 60 kgs RPM: 800 HP: 3/4 HP(60Hz) / 1HP(50Hz) Blade: 36" Stainless Steel Capacity: 17,000CMH/ 10.011CFM



18

Model No. KF-48 FRP Roof Ventilator Sizes: 239.6x160 (94,70)cm Weight: 117 kgs HP: 2 HP Capacity: 45,000CMH / 26,501CFM Blade: 48" SMC or Aluminum Propeller

Steel net



FRP Roof Ventilator (Two Door) Size: 240x161x(67.123)cm Weight: 105kgs HP: 2 HP Blade: 48" SMC Propeller Capacity: 46,500CMH/ 27.385CFM



Model No. NEW KF-48 FRP Roof Ventilator Size: 200x159x(H96/58.5)cn Weight: 117kgs HP: 2 HP Capacity: 45,000CMH / 26,501CFM Blade: 48" SMC or

Aluminum Propeller

Model No. DF-18P Variable Speed Water Cooling Fan

Voltage:220V Sizes: 110x102 x 197 cm Kw:11Kw Weight: 120 kgs Noise:55~65dB Capacity: 8,700~18,800CMH / 5.123~11.071CFM



New Type Model No. CF-36 Cooling Fan Sizes: 141x70x168cm Motor: DC Brushless Blade: 36" 3- Blades Volatge: 110/220V Noise: <72dB Capacity: 28,000CMH



Model No. DF-8P2 3-Speeds Water Cooling Fan Voltage: 110 V/220 V Sizes: 83 x 45 x 138 cm Kw:0.58Kw Weight: 46 kgs Noise: 56dB Capacity: 8,000CMH



Model No. KT-24000 Kw:1.1Kw Voltage:110V/220V Size: 112x72x180cm Noise: 68dB Capacity: 22,000CMH

Application Area: 120-180M<sup>2</sup>

21

Model No. LR42-6A FRP Exhaust Cone Fan Sizes: 114x114x80cm Weight: 54 kgs Blade: 36" Galvanized Steel Capacity: 20,000CMH / HP: 1/2 HP RPM: 660 11,778CFM Opening Required: 106x106cm



Model No. LR54-3AS FRP Exhaust Cone Fan Sizes: 146x146x80cm Weight: 79 kgs HP: 1.5 HP RPM: 630 Blade: 48" SMC Propeller Capacity: 45,000CMH / 26,501CFM The driving belt is adjustable automatically by a stainles steel spring.

Opening Required: 140x140cm

23

Model No.SE54-6D Size: 139x139cm (With hanging hook) Propeller: 48" GI Capacity: 40,000CMH/ 23.557CFM HP: 1.5 HP



24

Model No. LR54-2P FRP Exhaust Cone Fan Sizes: 146x146x80cm Weight: 72 kgs Blade: 48" SMC or AluminumPropeller

HP: 2 HP Capacity: 46,500CMH / 27.385CFM

25

Model No. LR54-7D FRP Exhaust Cone Fan Sizes: 146x146x80cm Weight: 82 kgs RPM: 500 2 HP Blade: 48" 7-Blades Capacity: 34,000~42,000CMH/ 20,023~24,734CFM Opening Required: 140x140cm



Model No. ACP-24 Movable Fan Sizes: 70x80x66cm Weight: 70 kgs HP: 2 HP Blade: 24" Aluminum Alloy Capacity: 20,000CMH / 11.778CFM



Model No. ACP-54 Movable Fan Sizes: 171x105x180cm Weight: 124 kgs Blade: 48" Aluminum or SMC Propeller HP: 2 HP Capacity: 46,500CMH /





29

Model No. EL-54 FRP Elbow For LR54-3DS Size: 30°, 60°, 90° Also have Elbow for LR42-6A Weight(For 54"): 30°: 12kgs 60°: 20kgs 90°: 38kgs

Weight(For 42"): 30°: 10kgs 60°: 15kgs 90°: 28kgs

30

Model No. RB-54 FRP Roof Base For LR54-3DS Alsc have Roof Base for LR42-6A. Weight(For 54"): 48kgs Weight(For 42"): 27kgs



31 Model No. WF-10 Cooling Pads

Sizes: 150x30x10cm 150x60x10cm 150x60x15cm 180x30x10cm 180x60x10cm 180x60x15cm 200 x60x15cm

27,385CFM



33

Model No. LR42-7D FRP Exhaust Cone Fan Sizes: 114x114x80cm Weight: 60 kgs HP: 2HP RPM: 500 Blade: 36" 7-Blades Capacity: 28,000CMH/ 16,489CFM Opening Required: 106x106cm

Model No. LR60-3D FRP Exhaust Cone Fan Sizes: 162 x 162 x 92cm HP: 3HP RPM: 600 Blade: 52" Aluminum Alloy Capacity: 59,000CMH / 34,746CFM Opening Required:153x153cm



Fan Exhaust Cone Fan Sizes: 168x168x102cm HP: 1-3/4 HP RPM: 500 Blade: 54" Galvanized Steel Capacity: 51,500CMH / 30.329CFM Opening Required: 159x159cm



Model No. LR42-5D FRP Exhaust Cone Fan Sizes: 114x114x80cm Weight: 58 kgs HP: 1HP RPM: 500 Blade: 36" Galvanized Steel Capacity: 18,000CMH / 10,600CFM Opening Required: 106x106cm

37

FRP Exhaust Fan Size: 128x128x61cm Materoal quality: FRP HP: 1HP/2HP 500rpm Blade: 42" 7-Blades Propeller Capacity: 38,000CMH / 22,379CFM Opening Required: 120x120cn

Model No. LR46-7D



Model No. ACP-42 Movable Fan Sizes: 141x90x143cm HP: 2 HP/630rpm Weight: 112 kgs Blade: 36" Galvanized Steel Capacity: 35,000CMH / 20,612CFM



Model No. PR-36 Movable Fan Sizes: 125x80x132cm Blade: 36" 7-Blades HP: 1-2HP Capacity: 35,000CMH 20,612CFM

Model No. RF-42

Round Hanging Fan Size: 117X117X41cm Blade: 42" 6-Blades, 7-Blades HP: 1HP

Capacity: 33,000CMH 19.434CFM

# System - Theory , Flow Chart & Performan

Types(Simulation-Installation) Illustration of Installation Ventilation Efficiency With the best effect of reducing the temperature Factory in Changhua County Cooling pads ventilation System Cooling pad-WF-10 54\* FREEXHAUST CONE FAN MININE CO. C. 28.5 0 Horizontal ventilation system Longitudinal ventilation system Cooling pad LR54-3DS 54"FRP EXHAUST FAN Inlet

#### Cooling pads, Ventilation System

The method of cooling is done by installing a system of wet cardboard, through the use of evaporating cooling, Wind Chill Effect, and negative pressure ventilation to easily rid the house of odor and stagnant air, and maintain more consistent house temperatures.

- 1. After installation, the combined systems effectively exhaust high temperature air to reduce the house temperature(32~65° C) sharply and maintain it at the most comfortable condition, that is between 25-32° C. You may find an increase in production efficiency.
- 2. It effectively improves the factory ventilation by 95~99%.

#### The most economic type









#### **Negative Pressure Ventilation System**

The theory of air exchange and air distribution remove odor and stagnant air out of the house, and hung in windows or doorways to brings fresh air in. The speed of air flow per second, number of air change per hour, the amount of fresh air to be brought in can be accurately controlled.

1. (Fig. 3-1) Wall mounted negative pressure ventilation system This is the best negative pressure ventilation system. It effectively improves the factory ventilation efficiency by up to 90~97%.

#### 2. (Fig. 3-2) Wall mounted negative pressure ventilation system (Elbow type)

To prevent from exhausting the hot air to the neighbors, wall mounted negative pressure ventilation(Elbow type) is a good solution to allow the hot air to be discharged either upward or downward. This is also an environment-friendly ventilation system. It effectively improves the factory ventilation efficiency by 85-95%.

#### 3. (Fig. 4-1) Roof mounted negative pressure ventilation system In case a wall mounted negative pressure ventilation system is not applicable, then roof mounted negative pressure ventilation system is specially designed for roof mounted applications. First of all, build a base, then install the FRP exhaust fan to solve the problem once and forever. The roof mounted exhaust fan extracts the contaminated or grease laden air out of the roof. This is also

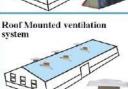
# an environment-friendly ventilation system. 4. (Fig. 4-2) Negative pressure ventilation system

#### The FRP exhaust fan shown in Fig. 4-1 is molded in one piece. It offers the characteristics of dependability, durability, good looks and is water and typhoon proof. However, FRP costs a lot more. An exhaust fan made of C type steel should be a pricewise choice. However, the exhaust fan made of C type steel is not as durable as that of FRP. The painted plates may crack and cause leaking after several years of use. To ensure that the system will function properly, maintenance and care are absolutely necessary.

### **Roof Mounted Ventilation System**









#### **Roof Mounted Forced Ventilation System**

The external air is drawn in by mechanical systems. One doesn't have to concern himself with how hard the wind is blowing and from what direction. The operating efficiency depends on the height of the building.

It effectively improves the ventilation efficiency by 50~90%.

# We offer cooling pad, negative pressure ventilation system for all kinds of plant:





To make sure the best quality of KOLOWA Fan, you may choose order KOLOWA Fan with our logo of KOLOWA(LR54-3DS) from local agent.

#### LR54-3DS 48" FRP EXHAUST CONE FAN



Sizes: 146x146x80cm Weight: 72 kgs HP: 2 HP

Blade: 48" SMC or Aluminum Propeller

Capacity: 46,500CMH 27,385CFM

1. DIRECT RUN, WITHOUT BELT.

2. CAN USE 10-20 YEARS, NO NEED TO MAINTENANCE.

3. ALUMINUM ALLOY HUSK MOTOR.

4. CAN EXTRA USE REGULATOR. TO REGULATE SPEED.

SMC Propeller is correspond to EU RoHS Standard.



Email: pecollc@gmail.com Web: www.prestoae.com

PO Box: 6510, Sharjah-UAE. Mob: +9715 05693691 Tel: +9716 5321002