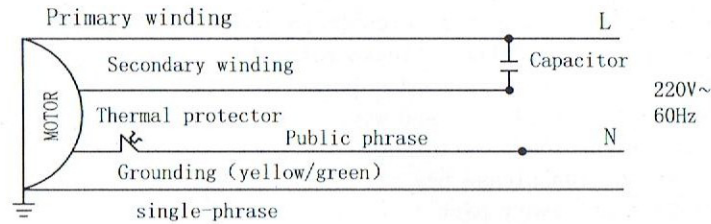
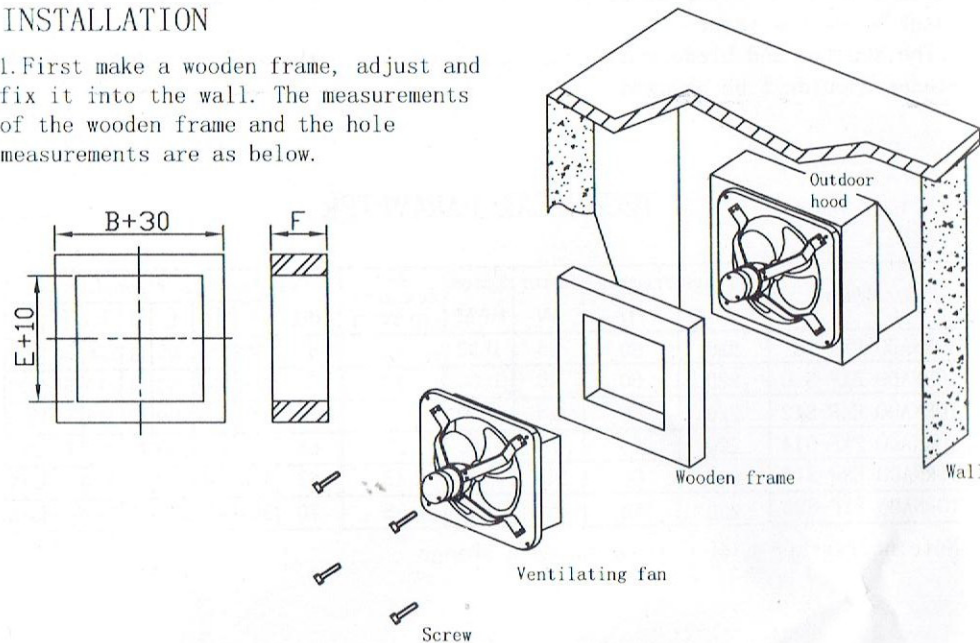


## WIRING DRAWING



## INSTALLATION

1. First make a wooden frame, adjust and fix it into the wall. The measurements of the wooden frame and the hole measurements are as below.



2. Fit the ventilating fan into the wooden frame and secure it with 4 screws.
3. The distance between grounding and the ventilating fan is more than 2.3m.

## QUALITY GUARANTEE

1. Under normal operation, any breakdown caused by quality can be exchanged or fixed within one year (base on sale date).
2. Our products have permanent maintenance. Material and repairing will be charged after "Guarantee period".
3. In the following cases, guarantee is not applicable:
  - A. Breakdown not caused by installation, reconstruction, repair of our company.
  - B. Natural disaster fire and other wrong operation.
  - C. Validity without stamp of the seller and the indicated year.



## SQUARE VENTILATING FAN (W/Shutter)

## OPERATION INSTRUCTIONS

For after-sales service:

Berton's Place #46 Sta. Rosa Street Barangay  
Manresa Quezon City, Philippines.  
Tel Nos. 8282-5049; 8282-5098  
Mobile Nos. : 0908-8908597; 0917-3079188  
Email: iwata@colentco.com, iwata2@colentco.com,  
iwata3@colentco.com  
sales\_mktg@colentco.com  
Website: www.colentco.com

Please read this manual carefully before  
operating the fan




## FEATURES AND APPLICATION

1. Optimized design, elaborate make, good and graceful-looking.
2. The motor adopts high quality bearing and excellent design, which makes the motor low noise and long service life.
3. The fan has such characteristics as safe and smooth running with about air volume, low noise, low temperature rise and low power consumption.
4. It is suitable for the ventilating in the factory, household, office hotel and public place of entertainment.

## OPERATING INSTRUCTION

1. Please mount the fan according to the mounting scheme. Before mounting, please check carefully all parts supplied for damage caused during the transport.
2. Do not install the fan places where temperature is over 40°C or the altitude is higher than 1,000 m.
3. The fan must use the voltage and frequency specified on the nameplate. It isn't suitable to use the fan in the too moist or corrosive surrounding.
4. Rotate the blade before using, ensure the blade is in good order and no touch to the frame. After electrification, check the blade swerve, the right swerve is that the blade is rotating directly. If the swerve is wrong, it can lead to loose of the tighten screws, even cause heavy accident.
5. If the fan install the place that congronts the strong wind, please add one cover.
6. When socket is used in power supply, the socket should meet the IEC335-1 standard; when power supply is from direct charging, a polarity switch should be installed with contact gap not less than 3mm on the charging line.
7. The cord with yellow and green colors is grounding cord.

## CAUTIONS

1. To avoid causing an accident, don't touch the blades with your hand or a hard staff before the fan is stopped.
2. When the fan occurs such as exceptional noise, smoking, stopping removing please cut off the power. The fan must be returned to our factory or be replaced by special repair service authorized by us.
3. Type Y attachment - Damaged supply cords to be replaced by the manufacturer, service agent or similarly qualified person to avoid hazard.
4. Don't use the three-prong plug with a two-prong socket.
5. Expecting in the maintaining range stipulated by the user manual, do not apart or exchange the fan.
6. Please be noted to our remark: "INDOOR USE ONLY!"   $t_a 40^\circ\text{C}$

## MAINTENANCES

1. The fan must be cleaned periodically to keep clean and attractive.
2. When cleaning the fan, first please cut off the power and stop the blade.
3. Removing the fan from the wooden frame, wash the dirt away with a soft cloth, wet by soap water or alcohol and wipe with a dry cloth. Don't use gasoline or any liquid etching the plastic and painting.
4. When clean the fan, please pay attentions to the below Points:
  - A. Try not to apart every part to clean.
  - B. Don't make the motor or the other electric part to be directly exposed to water or excess vapor.
  - C. The shutter and blade should not be impacted and the angle of shutter or blades shouldn't be changed.

## TECHNICAL PARAMETER

Model	Voltage V	Frequency Hz	Power W	Speed RPM	Air delivery m <sup>3</sup> /min	Noise dB	Mounting dimensions (mm)							
							A	B	C	D	E	F	H	
TORNADO EXF-S8	220	60	35	1600	13	53	294	255	200	11	236	50	175	
TORNADO EXF-S10	220	60	40	1600	14	55	318	285	250	11	270	55	200	
TORNADO EXF-S12	220	60	45	1600	18	58	376	349	300	12	338	54	200	
TORNADO EXF-S14	220	60	75	1600	38	65	453	415	350	12	398	60	220	
TORNADO EXF-S16	220	60	145	1600	48	67	480	438	400	12	424	48	267	
TORNADO EXF-S20	220	60	350	1600	95	70	605	479	500	15	525	65	335	

Note: no farther notice if above data change

## OUTER STRUCTURE

