Operating Instruction Manual for Portable Ventilator

1. General Description:

The Ventilation Fan adopts die-cast aluminum alloy blade with gradual twisted airfoil cross section. It features high wind flow and wind pressure. The motor housing adopts aluminum alloy structure,which favors heat elimination and reduction of the overall weight of the machine. The fan can be equipped with two kinds of foot rests, one is the fixed rest and the other is the movable rest. The fan also equipped with fire retardant flexible tube, with two kinds of length, namely 5m and 10m.The fan is portable type, which can be easily moved.

The GS and CE certificate has been obtained for the fan.

2. Uses of the fan:

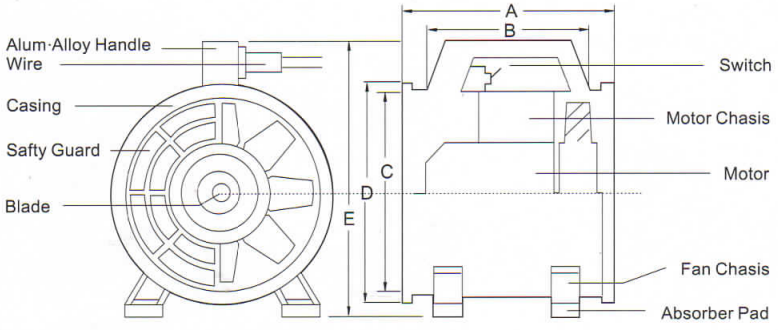
The fan is suitable for air extraction, dust collection, fresh air supply in such locations as underground warehouses, tunnels, chemical labs, ships, cabins ,and etc.

3. Main technical data:

blade Diameter (mm)	Voltage (v)	Frequency (Hz)	Phase	Pole	Power (W)	Rotation Speed (r/min)	Wind rate (m^3/min)	Static pressure (Pa)	Weight (kg)
200	36	50	3	2P	150	2800	25	245	9
200	110	50/60	1	2P	150	2800/3400	25/35	245/410	9
200	220~240	50/60	1	2P	150	2800/3400	25/35	245/410	9
200	380	50/60	3	2P	150	2800/3400	25/35	245/410	9
250	36	50	3	2P	320	2800	43	294	12
250	110	50/60	1	2P	320	2800/3400	43/53	294/441	12
250	220~240	50/60	1	2P	320	2800/3400	43/53	294/441	12
250	380	50/60	3	2P	320	2800/3400	43/53	294/441	12
300	36	50	3	2P	520	2800	60	343	14
300	110	50/60	1	2P	520	2800/3400	60/70	343/490	14
300	220~240	50/60	1	2P	520	2800/3400	60/70	343/490	14
300	380	50/60	3	2P	520	2800/3400	60/70	343/490	14
400	36	50	3	2P	1200	2800	90	410	25
400	220~240	50	1	2P	1200	2800	90	410	25
400	380	50	3	2P	1200	2800	90	410	25
450	36	50	3	2P	1700	2800	125	520	27
450	220~240	50	1	2P	1700	2800	125	520	27
450	380	50	3	2P	1700	2800	125	520	27

Note: The fan can have several voltage designs for different operational requirements. The fan should be operated in the voltage stipulated in its nameplate.

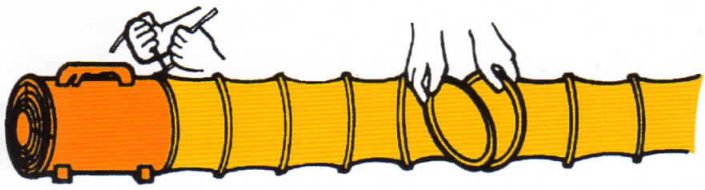
4. External dimensions:



Specification	A	B	C	D	E
200	290	248	200	220	295
250	290	248	250	270	350
300	358	248	300	320	405
400	465	205	410	435	470
450	460	205	450	480	520

5. Connection method for flexible tube:

The flexible tube is adopted for the fan, the connection method is shown as following diagram. First adapt the tube to the wind discharge port of the ventilator and then fix the connection part with string.The connected tubes should not more than two.



6. Matters for attention:

(1) Prior to power on, please ensure that the voltage of power supply should conform to the voltage stipulated in the nameplate, to prevent the motor from being damaged.

(2) The ventilator should be grounded properly, except for those that use 3-phase 36V- power supply.

(3) The product is not the waterproof type, it can only be used indoors.

(4) As the socket is used for power connection , the standard plug that meets the safety regulations should be used for the power cord of the fan . As the power cord of the fan is directly connected with the power supply circuit , a full - pole power switch with the contact spacing of at least 3mm should be mounted on the circuit.

(5) While operating, the product should not be adjusted or moved.

(6) While the blade is rotating, no object should be inserted into the protection net, otherwise severe consequence will occur.

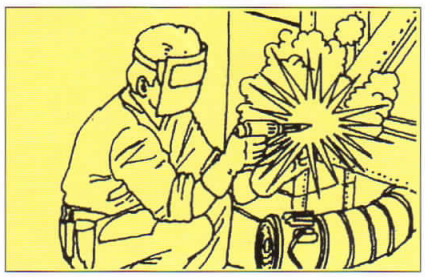
(7) Please ensure the wind pipe unblocked, do not block the inlet and outlet of the wind pipe.

(8) Please turn off the machine immediately in case of any abnormal noise or other abnormal situation while the fan is running. Please contact professional personnel for maintenance.

(9) The ambient temperature for the product should not be higher than +40℃. Please do not use the product in the environment of high temperature or high humidity, or in the place where the explosive or flammable substances, dust or gas are stored.

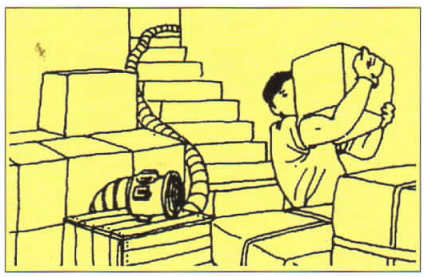
7. Maintenance and Warranty

While not in use,the ventilator should be wiped, properly packed and placed in a clean and ventilating place, so as to avoid being damaged.

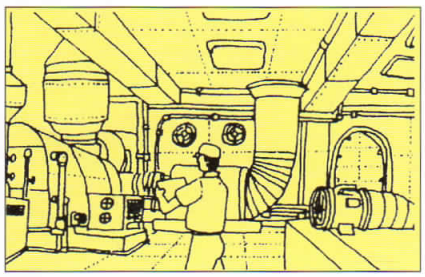


■ Electric Soldering

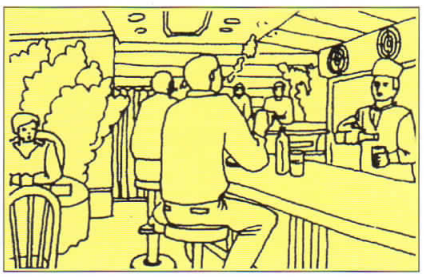
■ Tunnel (mining)



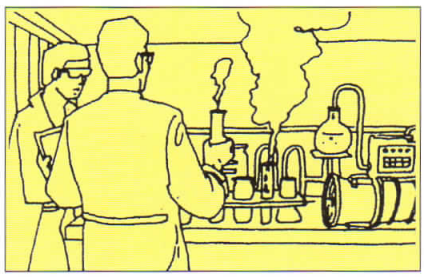
■ Basement Ventilation



■ Ships (waste gas exhausted out of hold)



■ Smoking



■ Chemical laboratory