

Thank you very much for your order of ComSat ring blower.

Please read this operational manual carefully for safety and high efficiency during application.

Application

RB series can be served in various fields, such as air supply for incinerator, gas furnace, the transferring of the small particles, die casting machine, plating bath, make artificial manure with the fermentative animal muck, the instant noodle processing production line, to supply the air to the farming pool, bottle washer, transfer the rice hull, dry up the paper of the printer, clean tanker, automatic knitter, medical bathtub, mold cleaner, dry up the electronic plate with the air. And also it can be used for air suction, such as in printing machine, punching machine, food processed machine, welding machine, etc.

Features

For the purpose of breakdown reduction and power saving, there is a direct proportion between its pressure and electric current. Please enlarge the section area of inlet and outlet as much as possible.

- I If air sending is under the water, the depth of water should be under 70% of the maximum pressure value showed in nameplate.
- I If it is used under pressure, the exhaust temperature is normally 10°C higher than constant temperature due to air friction, therefore, used a steel pipe over 1M long for cooling if necessary.

Inspection before use

Upon receipt blower, please check the following items:

- I Make sure that electric voltage and frequency must meet the requirement on the nameplate.
- I Check if any damage or deformation was made during transportation.

Storage

For long storage or suspension of application, please note the following items:

- I Safekeeping under original packing: Keep in a room of small variance temperature and dry spot.
- I Safekeeping under installation: Cover the entire blower with sealer of plastic cloth to prevent from penetration of moisture and foreign substance.
- I To prevent rust of bearing, be sure to operate blower for 15 seconds or rotate by hand of 10 rounds once every two months.

Installation

Installation site:

- I Ambient temperature should be 10-40°C and humidity should not large than 70%.
- I Select site with good ventilation and less dust and humidity
- I Please use umbrella when installation is made on an open space.

Methods of installation:

- I Blower should be installed in a leveling foundation or base with screws fix. If the base is uneven, the blower stand may be deformed during fixing of screw. And it would cause additional vibration or noise.

- I According the picture, Blower is normally designed to make bearing on axial leveling position. But when suction inlet is upward, the weight of impeller and rotor shaft are added on one side bearing to enlarge over load and thus reducing life of bearing.

- I Installation of a large filter on the inlet end to prevent something sucked into it and cause damage. Since the gaps between the impeller and the body are only 0.5~1mm.

- I Distance between motor's fan cover and the wall should be more than 30mm.

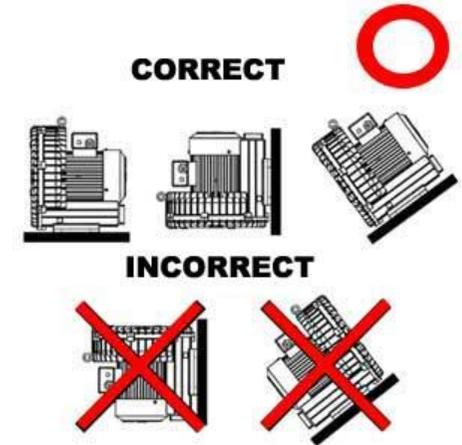
Piping

- I Try to connect pipes directly on blower in conformity as possible and must be without applying any tension of the blower.
- I Please do not add any weight of pipes on flange of blower.
- I Please use the flexible joint to conduct hot air to avoid the effect of thermal expansion.
- I Please avoid sudden shrinkage, enlargement or bending etc.
- I The area of the air outlet may not smaller than the 50% of the area of the outlet of the blower.

We suggest that there should be two blowers for alternative use when you should operate the blower for 24 hours so as to prolong the lifespan.

Wiring

- I Voltage variance should be kept within $\pm 5\%$ of a rated voltage, +10% is sometime used,
- I Select enough thickness of electric wire according to horse power of motor and electric working methods in accordance with European Union Safety information can be obtained from such as: EN60204-1 ; EN60034 ; EN292 ; EN294 ; IEE
- I Check direction of rotation: Turn on the switch for a while (twinkling) after completion of line connecting, check its rotation direction should be the same with the arrow on blower indicated.
For 3 phase motor, If rotation direction is worn, just replace any 2 lines of 3 electric wires. Single phase motors have a setting rotation already.
- I Grounding: Please install earth lines to prevent from electric leakage accident.





Ring Blower RB Series

Operational manual

Operation

Please don't operate blower under outlet nearly closed to avoid overload. A filter shall be installed on the inlet pipe to avoid small article into the blower.

Avoid turn switch on and off repeatedly as leading overheat of motor.

(1) Maximum frequency must be kept within frequency as indicated and within rated amperage.

(2) Minimum frequency must be kept over 40 Hz, and within a rated amperage.

Specification list and Diagrams

Dimension in mm,

Model	Power kW / HP	A	Max mmAq	Max m3/min	Max V kpa	kg	L	L1	L2	L3	W	W1	W2	H	H1	I/O Size
RB5	0.37 /0.5	0.8	800	1	6	10	245	178	200	85	248	54	85	255	38	1.25"X1.25"
RB7.5	0.55/0.75	1.1	1200	1.4	8	12	267	178	200	85	285	54	85	270	38	1.25"X1.25"
RB10	0.75/1	1.4	1300	1.9	9	18	300	195	216	100	290	80	95	321	51	1.5"X1.5"
RB15	1.1/1.5	2.2	1600	2.9	10	21	300	195	216	100	290	80	95	321	51	1.5"X1.5"
RB20	1.5/2	5.4	1800	4.1	13	32	339	240	270	110	391	106	130	355	51	2"X2"
RB30	2.2/3	7.9	2300	5.5	17	39	386	240	270	110	400	106	130	383	51	2"X2"
RB40	3/4.0	11	2800	5.3	23	50	411	280	335	135	415	87	185	439	85	2"X2"
RB50	3.7/5.0	13	2700	6.3	23	58	421	265	315	110	465	117	165	431	56	2"X2"
RB75	5.5/7.5	17	2800	9.5	20	87	534	280	330	130	575	207	170	532	68	2.5"X2.5"
RB100	7.5/10	25	4000	12.5	20	98	500	365	-	145	590	-	280	515	77	3"X3"
RB150	11/15	33	3900	16	29	125	650	440	-	180	630	-	240	660	110	4"X4"
RB200	15/20	48	4200	20	30	146	650	440	-	180	630	-	240	660	110	4"X4"

