



# **OPERATING INSTRUCTIONS**

## **GENERAL PURPOSE INLINE EXHAUST FANS**

### **RI SERIES:**

RI-150C  
RI-200C  
RI-250C  
RI-500C  
RI-700C  
RI-900C



Before using this unit, please read these instructions carefully.



**AIR SPECIALTIES LTD.**

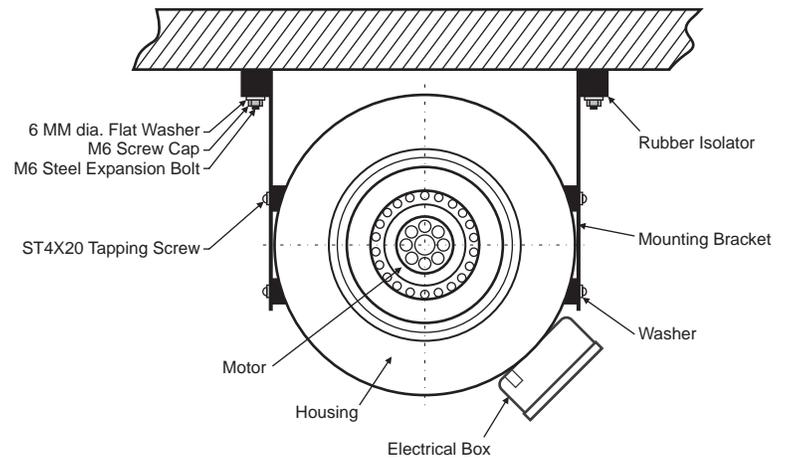
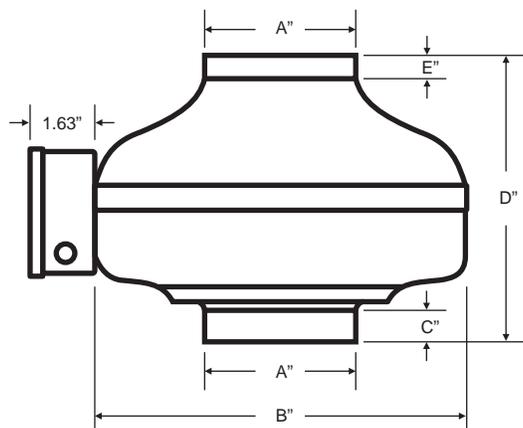
Toll Free: 1.866.890.6457  
1.800.810.3473

## STRUCTURE

General Purpose Inline Exhaust Fan mainly includes housing, motorized backward curved impeller and electrical box.

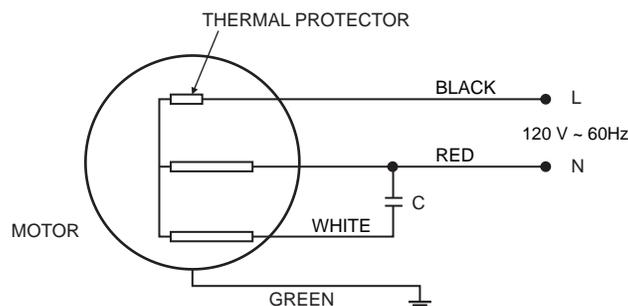
- Housing:** Formed and tooled by quality deep-strech cold rolling steel. Plastic injection and strong rusty resistance surface. Computerized fluid-channel design, it makes high efficiency for the impeller. The outlet and inlet at the same diameter and standard design makes it easy to install, maintain and clean.
- Impeller diameters:** 190 mm, 220 mm & 250 mm are available. Backward- curved impeller matches well with the housing to maximize the airflow, efficiency and minimize the noise level.  
The impeller and motor are directly pressed so that impeller could be driven by motor for small duct fan's cubage, stable performance, high efficiency and durability.
- Electrical Box:** Made of steel, quality fire-proof, safety for usage & easy to disassemble.

## DIMENSION DRAWING

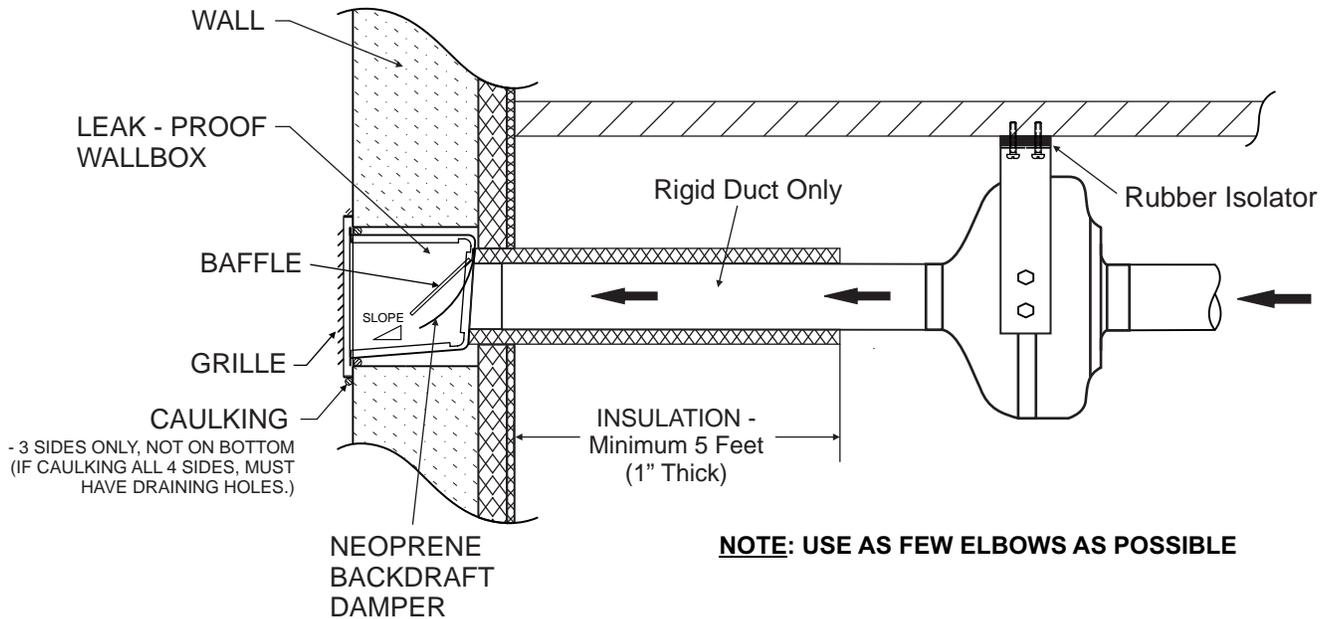


MODEL	A''	B''	C''	D''	E''
RI-150C	3.875	9.53	0.79	7.32	0.59
RI-200C	4.875	9.57	0.98	7.44	0.87
RI-250C	5.875	10.67	0.79	7.60	0.79
RI-500C	7.875	13.58	1.07	8.98	1.14
RI-700C	9.875	13.58	1.07	8.98	1.14
RI-900C	11.875	15.75	1.07	10.20	1.14

## WIRING DIAGRAM



## **INSTALLATION & OPERATION**



## **WARNING**

### **TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY, PLEASE OBSERVE THE FOLLOWING:**

1. Installation of these units and the corresponding electrical wiring must be done by a qualified person and be in accordance with all municipal and national codes and standards, including those related to fire rated construction.
2. Use this units only for intended applications and in the manner indicated by the manufacturer. If you have any questions please contact the manufacturer at the address or telephone number listed here in the manual.
3. Before wiring, servicing or cleaning the units, switch power off at the service panel and lock it. If service panel is unlocked others could turn the power on unexpectedly and cause fatal electric shock to the installer or service person.
4. When cutting or drilling into wall or ceiling, make sure that you do not damage electrical wiring and other hidden utilities.
5. Always vent units to the outdoors, NOT into unventilated spaces such as garages, attics, crawl spaces, etc. Use roof cap, wall cap or wall box.
6. The Fan blade must be checked at least twice annually for dust accumulation.
7. All Fans should have a backdraft damper at outlet.

**CAUTION:** 1. These units are not to be used to exhaust hazardous or explosive gases.  
2. To avoid damage to motor and impeller, keep construction materials such as dry wall spray, construction dust, construction debris, etc. off from power units and ducts leading to units.

## **MAINTENANCE & REPAIR**

We recommend inspection of the impeller every six months if the fan is operated continuously. Internal insulation or dust may be wiped clean with a dry cloth. Strong detergents or cleaning liquid must not be used for cleaning the fan. If in the condition of heavy dust, it's suggested to clean up at times to prevent duct affecting it operation.

Easy to disassemble. The motor and impeller could be cleaned up by removing plastic/steel clamp, suspender, connecting box and then unscrewing the four pieces bolts on the housing.

## **RATINGS**

<b>MODEL</b>	<b>Power (W)</b>	<b>Current (A)</b>	<b>Airflow (CFM)</b>	<b>Rotation (rpm)</b>	<b>Sones</b>	<b>Insulation Class</b>
RI-150C	92	0.80	141	2450	2.7	F
RI-200C	102	0.86	194	2420	3.0	F
RI-250C	105	0.88	264	2620	3.5	F
RI-500C	235	2.03	558	2530	4.1	F
RI-700C	220	1.88	676	2660	5.5	F
RI-900C	210	1.80	882	2730	4.9	F

**NOTE:** Rated voltage and frequency are stated as per rating label.

## **NOTICE**

This unit is not intended for use by person (Including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the unit by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the unit.