Centrifugal Power Roof Ventilators

TYPE CRBCA - BELTDRIVE
TYPE CRBA - BELTDRIVE
TYPE CRDA - DIRECT DRIVE
# TABLE OF CONTENTS

## BELT DRIVE FANS

### CRBA / CRBCA
- Dimensional Data ........................................... 3
- Fan Description - CRBCA ................................. 4
- ILG's "C-Drive" ................................................. 5
- Fan Description - CRBA ...................................... 6
- Performance - 06-10 ......................................... 7
- Performance - 12 .............................................. 8
- Performance - 13 .............................................. 9
- Performance - 15 ............................................. 10
- Performance - 16 ............................................ 11
- Performance - 18 ............................................ 12
- Performance - 20 ............................................ 13
- Performance - 24 ............................................ 14
- Performance - 30 ............................................ 15
- Performance - 36 ............................................ 16
- Performance - 44 ............................................ 17
- Performance - 52 ............................................ 18

## DIRECT DRIVE FANS

### CRDA
- Dimensional Data ........................................... 3
- Fan Description ............................................... 19
- Performance - 06-10 ........................................ 20
- Performance - 12-13 ....................................... 21
- Performance - 15-20 ...................................... 22
- Installation & Accessories ............................... 23
- Specification Checklist .................................. 24

Sizes 06 to 24
Flow rates from 185 to 10,328 CFM
and 2" Static Pressure

Sizes 30 to 52
Flow rates from 3,187 to 43,962 CFM
and 2" Static Pressure

Sizes 06 to 20
Flow rates from 162 to 5,130 CFM
and 1" Static Pressure
CRBCA AND CRBA

Factory-wired disconnect switch is an available option.

Belt drive with adjustable motor pulley for flexibility to match operating requirements.

Hinged motor bracket with tensioning bolt(s) facilitates maintenance of belt tension.

CRDA

Factory-wired disconnect device for standard motors.

Direct-drive assembly reduces maintenance and operating costs.

Variable speed control available on some models.

CRBCA, CRBA AND CRDA VENTILATOR, ROOF CURB AND DAMPER DIMENSIONS

<table>
<thead>
<tr>
<th>Unit</th>
<th>Ventilator Dimensions</th>
<th>Roof Curb and Damper Dimensions</th>
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<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
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<tr>
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<td>18</td>
<td>23 1/8</td>
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<td>61 3/4</td>
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CRBCA
Belt Drive Centrifugal Power Roof Ventilators

Applications
The CRBCA units are quiet, dependable power roof ventilators recommended for a wide range of general exhaust applications where low and medium ranges of air volume and pressure are specified. Applications include virtually all types of light manufacturing, commercial and institutional buildings such as shopping centers, hospitals, schools, hotels, office and apartment buildings, warehouses, airports, bus terminals and many others.

CRBCA units are specified where a roof-mounted location is desired to eliminate interference with other equipment or activities in the building. They permit the direct upward venting of air. CRBCA units may be used with or without ducts.

The advantages of a CRBCA belt-drive over a direct-drive roof ventilator include quieter operation and adjustable performance to meet operating needs.

Construction
CRBCA models feature a housing of durable spun aluminum for optimum weather protection. The overlapping deep-spun venturi minimizes air turbulence and increases efficiency.

The aluminum centrifugal wheel is a non-overloading, backward-inclined type, selected for low noise levels. Backplate fins draw cool air through the motor compartment. The wheel is secured to the machined aluminum “C-Drive” disc, and computer balanced on state-of-the-art equipment.

Neoprene vibration isolators to reduce noise and wear, and 1/2” galvanized mesh birdscreen are both standard.

Drive Mechanism
The belt driven CRBCA utilizes a unique bearing/shaft arrangement that has been designated the “C-Drive”. This “C-Drive” is patterned after American Coolair’s unique static shaft drive design that has been in existence for over eighty years, serving the general ventilation markets with reliable propeller products. This type of drive uses a captured bearing arrangement inside a cast aluminum disc assembly locked to a short, large diameter shaft. The shaft is held stationary and the centrifugal wheel/disc assembly rotates on the shaft instead of the entire assembly rotating.

As a result of reduction of radial loading of the bearings, the calculated L10 bearing life exceeds 1,000,000 hours or an average bearing life of 5,000,000 hours. Most other manufacturers’ turning shaft drive designs result in cataloged average bearing life of 150,000-200,000 hours. Additionally, the machined surface of the “C-Drive” provides a rigid backplate for the centrifugal wheel. Electrical connections on the end of the motor face upwards making field connections rapid and simple. This compact drive assembly provides more room in the motor compartment area and the single bolt, V-belt adjustment makes for a very serviceable unit.

Motors
The standard motor for CRBCA models is open drip-proof construction, and located out of the airstream. Totally enclosed, energy efficient, two-speed and explosion-proof motors may also be available. All motor brands are recognized and serviced nationwide. Motor enclosure may affect UL Listing.

Guide Specifications
Power Roof Ventilators shall be of the CRBCA centrifugal type as manufactured by ILG Industries of American Coolair Corporation (individual models to be listed in fan schedule). Units shall meet UL Standard 705 and shall bear the AMCA Certified Ratings Seal for air and sound performance. Base and venturi inlet shall be one piece heavy gauge spun aluminum or galvanized steel, with wheel and venturi overlapping for efficient operation. Motor compartment cover shall be heavy gauge aluminum construction and easily removable for access to motor and drive.

Drive construction shall be of the ILG “C-Drive” design consisting of static shaft/bearing arrangement mounted in a machined cast aluminum disc assembly. The disc assembly shall be mounted onto the backplate of the centrifugal wheel. The centrifugal wheel shall be heavy gauge aluminum with backward-inclined, non-overloading blades and be computer balanced.

Bearings shall have a calculated L10 bearing life in excess of 1,000,000 hours.

Motor shall be open drip-proof construction, NEMA design B with minimum service factor of 1.15. Adjustable motor pulley shall be provided to allow for field adjustment and system balance. Motor shall be mounted on a hinged steel mounting bracket, utilizing a belt tensioning bolt. Motor shall be mounted with the shaft down to allow easy access to the electrical wiring terminal board/circuit box.

(Mounted and wired disconnect switch, backdraft damper, epoxy coating, roof curb and other accessories shall be listed in the fan schedule.)
ILG's "C-Drive"

Available Exclusively on CRBCA Units Sizes 06 - 24

Features:
- Static Shaft
- Permanently Sealed and Lubricated Ball Bearings
- V-Belt Groove
- Machined Surface to mount centrifugal wheel
- Cast Aluminum Hub machined to close tolerances
CRBA
Belt Drive Centrifugal Power Roof Ventilators

Applications
The CRBA units are quiet, dependable power roof ventilators recommended for a wide range of general exhaust applications where medium and high ranges of air volume and pressure are specified. Applications include virtually all types of light manufacturing, commercial and institutional buildings such as shopping centers, hospitals, schools, hotels, office and apartment buildings, warehouses, airports, bus terminals and many others.

CRBA units are specified where a roof-mounted location is desired to eliminate interference with other equipment or activities in the building. They permit the direct upward venting of air. CRBA units may be used with or without ducts.

The advantages of a CRBA belt-drive over a direct-drive roof ventilator include quieter operation and adjustable performance to suit operating needs and availability of larger volume units.

Construction
CRBA models feature a housing of durable spun aluminum for optimum weather protection. The overlapping deep-spun venturi minimizes air turbulence and increases efficiency.

The aluminum centrifugal wheel is a non-overloading, backward-inclined type, selected for low noise levels. Backplate fins draw cool air through the motor compartment. The wheel is secured to the machined aluminum hub, and computer balanced on state-of-the-art equipment.

Neoprene vibration isolators to reduce noise and wear, and 1/2" galvanize mesh birdscreen are both standard.

Drive Mechanism
The belt driven CRBA utilizes a standard V-belt drive design with variable pitch cast iron pulley for adjusting fan speed. Drive shaft is turned, ground and polished. Motor support is adjustable for proper tensioning.

Bearings
Heavy duty pillow-block ball bearings with cast iron housing are self-aligning and relubricable.

Motors
The standard motor for CRBA models is open drip-proof construction, located out of the airstream. Totally enclosed, energy efficient, two-speed and explosion-proof motors may also be available. All motor brands are recognized and serviced nationwide. Motor enclosure may affect UL Listing.

Guide Specifications
Power Roof Ventilators shall be of the CRBA centrifugal type as manufactured by ILG Industries of American Coolair Corporation (individual models to be listed in fan schedule). Units shall meet UL Standard 705 and shall bear the AMCA Certified Ratings Seal for air and sound performance. Base and venturi inlet shall be one piece heavy gauge spun aluminum or galvanized steel, with wheel and venturi overlapping for efficient operation. Motor compartment cover shall be heavy gauge aluminum construction and easily removable for access to motor and drive.

Drive mechanism shall incorporate a V-belt drive with cast iron motor pulley. Drive shaft shall be turned, ground and polished. The centrifugal wheel shall be heavy gauge aluminum with backward-inclined, non-overloading blades and be computer balanced.

Bearings shall be self-aligning and have fittings for relubrication.

Motor shall be open drip-proof construction, NEMA design B with minimum service factor of 1.15. Adjustable motor pulley shall be provided to allow for field adjustment and system balance. Motor shall be mounted on a hinged steel mounting bracket, utilizing belt tensioning bolt(s). (Mounted and wired disconnect switch, backdraft damper, epoxy coating, roof curb and other accessories shall be listed in the fan schedule.)
## CRBCA / CRBA 06-10 Performance Data

### CRBCA06 / CRBA06

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Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudestness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for Installation Type A: free inlet hemispherical sone levels.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
## CRBCA12 / CRBA12 Performance Data

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<td>1/4 H</td>
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<td>4.60</td>
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<td>5.20</td>
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<td>0.08</td>
<td>6.40</td>
<td>5.80</td>
</tr>
<tr>
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<td>16.30</td>
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<td>0.38</td>
<td>21.40</td>
<td>20.80</td>
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</table>

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.
The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.
Values shown are for Installation Type A: free inlet hemispherical sone levels.
## CRBCA13 / CRBA13 Performance Data

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<td>RPM</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>0.00 0.125 0.250 0.375 0.500 0.750 1.00 1.25 1.50 2.00</td>
<td>1/4 1/3 1/2 3/4</td>
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<td>1,977 1,907 1,828 1,741 1,653 1,466 1,236</td>
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<td>0.26 12.9 0.28 13.0 0.29 12.1 0.31 11.7 0.32 11.5 0.34 11.1 0.33 10.8</td>
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<td>2,119 2,054 1,983 1,904 1,821 1,654 1,217</td>
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<tr>
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<td>2,401 2,344 2,283 2,217 2,146 2,000 1,850 1,680 1,480</td>
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<td>0.55 19.4 0.57 19.8 0.60 19.3 0.62 18.5 0.64 18.0 0.66 17.5 0.70 17.4 0.71 16.8 0.71 16.7</td>
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<td>2,613 2,561 2,506 2,447 2,385 2,251 2,117 1,975 1,815</td>
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<td>2,684 2,634 2,581 2,524 2,463 2,334 2,204 2,068 1,918 1,546</td>
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Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of apertures (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudest values in hemispherical sound in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for Installation Type A: free inlet hemispherical sound levels.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
## CRBCA15 / CRBA15 Performance Data

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Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (BHP) does not include transmission losses. Bearing losses are included. The sound ratings shown are loudness values in hemispherical zones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
## CRBCA16 / CRBA16 Performance Data

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### RPM Range

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Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.
### CRBBA18 / CRBBA18 Performance Data

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Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).
Power rating (BHP) does not include transmission losses. Bearing losses are included.
The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.
Values shown are for Installation Type A: free inlet hemispherical sone levels.

**RPM**
## CRBCA20 / CRBA20 Performance Data

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Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for Installation Type A: free inlet hemispherical sone levels.
## CRBCA24 / CRBA24 Performance Data

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Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of aperturizations (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.
The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for installation Type A: free inlet hemispherical sone levels.

**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**
## CRBA30 Performance Data

### CFM at Static Pressure

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### Performance Data

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (BHP) does not include transmission losses. Bearing losses are included. Values shown are for installation Type A: free inlet hemispherical sone levels.
# CRBA36 Performance Data

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Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power rating (BHP) does not include transmission losses. Bearing losses are included.

The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301.

Values shown are for Installation Type A: free inlet hemispherical sone levels.
### CRBA44 Performance Data

#### CFM at Static Pressure

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**Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories).**

**Power rating (BHP) does not include transmission losses. Bearing losses are included.**

**The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels.**

---

**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

17
## CRBA52 Performance Data

### CFM at Static Pressure

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</table>

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (BHP) does not include transmission losses. Bearing losses are included. The sound ratings shown are loudness values in hemispherical tones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical tone levels.
CRDA
Direct Drive Centrifugal Power Roof Ventilators

Applications
The CRDA units are quiet, dependable power roof ventilators recommended for a wide range of general exhaust applications where low and medium ranges of air volume and pressure are specified. Applications include virtually all types of light manufacturing, commercial and institutional buildings such as shopping centers, hospitals, schools, hotels, office and apartment buildings, warehouses, airports, bus terminals and many others.

CRDA units are specified where a roof-mounted location is desired to eliminate interference with other equipment or activities in the building. They permit the direct upward venting of air. CRDA units may be used with or without ducts.

The advantages of a CRDA direct-drive over a belt-drive roof ventilator include lower maintenance requirements, reduced risk of lower performance levels as a result of loosened belts, and lower operating costs.

Construction
CRDA models feature a housing of durable spun aluminum for optimum weather protection. The overlapping deep-spun venturi minimizes air turbulence and increases efficiency.

The aluminum centrifugal wheel is a non-overloading, backward-inclined type, selected for low noise levels. Backplate fins draw cool air through the motor compartment. The wheel is secured to the machined aluminum hub, and computer balanced on state-of-the-art equipment. The hub features a line bore, which eliminates the need for bushings.

Neoprene vibration isolators to reduce noise and wear, 1/2" galvanize mesh birdscreen and factory wired disconnect device are all standard features.

Drive Mechanism
CRDA models have all the advantages of a direct drive assembly. There are no belts, bearings or pulleys to consume power or require maintenance.

Motors
The standard motor for most CRDA models is open drip-proof construction and located out of the airstream. Totally enclosed, energy efficient, two-speed and explosion-proof motors may also be available. All motor brands are recognized and serviced nationwide. Motor enclosure may affect UL Listing.

Guide Specifications
Power Roof Ventilators shall be of the CRDA centrifugal type as manufactured by ILG Industries of American Coolair Corporation (individual models to be listed in fan schedule). Units shall meet UL Standard 705 and shall bear the AMCA Certified Ratings Seal for air and sound performance. Base and venturi inlet shall be one piece heavy gauge spun galvanized steel, with wheel and venturi overlapping for efficient operation. Motor compartment cover shall be heavy gauge spun aluminum construction and easily removable for access to motor and drive.

Drive mechanism shall be of the direct-drive design. The line bore hub shall be mounted onto the backplate of the centrifugal wheel. The centrifugal wheel shall be heavy gauge aluminum with backward-inclined, non-overloading blades and be computer balanced.

Motor shall be open construction, NEMA design B. Optional variable speed control on some models allows for field adjustment and system balance. Motor shall be mounted with the shaft down to allow easy access to the electrical terminal board/circuit box.

(Backdraft damper, epoxy coating, roof curb and other accessories shall be listed in the fan schedule.)
# CRDA06 - CRDA10 Performance Data

### CRDA06

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</table>

Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. AMCA Certified Ratings apply to the CRDA Roof Ventilator constant speed fans and not variable speed fans.

20

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
### CRDA12 - CRDA13 Performance Data

#### CRDA12

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Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. * - These models are not compatible with variable speed control. AMCA Certified Ratings apply to the CRDA Roof Ventilator constant speed fans and not variable speed fans. ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
# CRDA15 - CRDA 20 Performance Data

## CRDA15

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*Performance shown is for Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels.

* These models are not compatible with variable speed control.

AMCA Certified Ratings apply to the CRDA Roof Ventilator constant speed fans and not variable speed fans.

22 ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
Installation
Most models are shipped fully assembled and ready for installation. Always inspect equipment for transit damage before accepting delivery to assure a valid claim. Special handling and storage procedures are required if unit is to remain idle for a long time prior to installation.

Placement
All belt-driven units must be accessibly installed for maintenance and servicing of belts, bearings, motors and pulleys. Horizontal operation only is recommended to assure satisfactory damper operation.

Mounting
Satisfactory operation of roof ventilators requires mounting on adequately designed and constructed roof curbs. Prefabricated curbs for convenience in installation are available from ILG. Install with base of unit horizontal. Provide adequate caulking, flashing or other weatherproofing means.

Inspection
Check centrifugal wheel for free rotation.
Check belt for proper tension (CRBCA & CRBA).
Check bearings for proper and secure locking to drive shaft (CRBA).
Check motor and fan sheave faces for proper alignment (CRBCA & CRBA).
Check circuit phase, voltage and wiring connection against that shown on motor nameplate.
Check direction of fan rotation for proper air flow.
After one week of operation, check belt for proper tension (CRBCA & CRBA).

Maintenance
Units should be checked monthly for the first two or three months and periodically thereafter. Units should be cleaned periodically and checked for eroded parts which should be replaced to avoid structural damage and possible failure. Proper lubrication is the most important maintenance requirement. Fan bearings should be lubricated based on usage and operating conditions. Motor bearings should be lubricated according to the motor manufacturer's instructions.

Adjustment of Variable Pitch Pulley and Belt (CRBCA & CRBA)
Variable pitch pulley may be adjusted within catalog RPM range to alter performance without motor overload. Pulley alignment and belt tension should be adjusted if necessary. Inspection every 6 to 12 months is recommended.

Options & Accessories
Prefabricated Roof Curbs
Insulated roof curbs with weather-resistant continuous welded construction are available for convenience in installation for both insulated and non-insulated roof decks.

Special Motors
Two-speed, totally enclosed, energy efficient and explosion-proof motors for hazardous locations may be available for many models. Motor requirements may affect UL Listing.

Backdraft Dampers
Gravity or motor operated backdraft dampers are available. They are aluminum construction and designed for installation in prefabricated roof curbs.

Safety Disconnects
Safety disconnects cut power to motor for servicing of unit. A disconnect device is standard on all CRBA units and an option for CRBA and CRBCA units. It may be shipped loose for field installation or factory mounted and wired.

Protective Coatings
Fan units are not recommended for exhausting air of a corrosive nature. However, special protective coatings are available where units may be exposed to corrosive exterior conditions. Parts requiring painting are processed through the American Coolair five-stage pretreatment system prior to the application of any coatings to insure maximum finish adhesion. These parts use a thermosetting epoxy powder paint with an average thickness of 3 mils and baked at 400°F to a smooth, hard continuous finish. Consult your ILG Industries representative for available coatings.

Roof Handle
Aluminum handle facilitates removal of roof.

WARNING CAUTION
Do not install fan with moving parts within 8 feet of floor or grade level without a guard that complies with OSHA regulations. Do not use unless electrical wiring complies with all applicable codes. Do not wire without providing for a power source disconnect at the fan itself. Do not service except by a qualified maintenance technician and only after disconnecting the power source. Failure to observe these precautions can result in serious injury or death.

To convert air performance (CFM and SP) and power (BHP) to metric units, multiply CFM x .000472 to obtain cubic meters per second (m³/s). Multiply SP x 248.36 to obtain pascals (Pa). Multiply BHP x .7457 to obtain kilowatts (kW).

Example: 3904 CFM x .000472 = 1.8427 m³/s
0.125 SP x 248.36 = 31.05 Pa
0.886 BHP x .7457 = 0.661 kW
CRBCA Specification Checklist

General exhaust units for low to medium air volumes in commercial, institutional and light manufacturing buildings. Centrifugal design with advantages of compact, attractive appearance, quiet operation and performance against higher static pressures. Variable pitch belt drive allows for speed adjustment. Hinged motor bracket with belt tensioning bolt. Weatherproof heavy duty aluminum housing and motor compartment cover resist corrosion and maintain appearance. Deep-spun, overlapping, one-piece venturi minimizes noise, reduces air turbulence and improves efficiency. "C-Drive" design provides a calculated L10 bearing life in excess of 1,000,000 hours with its unique radial loading elimination design. Aluminum centrifugal wheel is quiet, non-overloading, backward-inclined design and is computer balanced. Standard open drip-proof motor is out of the airstream for protection. The motor's electrical connection terminal board is up for easy and convenient electrical connection and servicing. Positively cooled motor compartment with forced air ventilation system extends motor life. UL Label (UL 705) for general ventilation. Conduit raceway for ease in connecting to power supply. AMCA Seal assures certified rating of air and sound performance. Birdscreen prevents entry of birds or other potentially damaging objects. Heavy duty neoprene isolators eliminate metal-to-metal contact, reducing vibration and sound.

CRBA Specification Checklist

Units provide general exhaust of medium or high air volumes in commercial, institutional and light manufacturing buildings. Centrifugal design has advantages of compact, attractive appearance, quiet operation and performance against higher static pressures. Variable pitch belt drive allows for speed adjustment. Hinged motor bracket with belt tensioning bolt(s). Weatherproof heavy duty aluminum housing and motor compartment cover resist corrosion and maintain appearance. Deep-spun, overlapping, one-piece venturi minimizes noise, reduces air turbulence and improves efficiency. Centrifugal wheel is quiet, non-overloading, backward-inclined design and is computer balanced. Standard open drip-proof motor is out of the airstream for protection. The motor is mounted with the shaft up for convenient access to the variable pitch cast iron motor pulley. Motor compartment is cooled by a forced air ventilation system, extending motor life. UL Label (UL 705) for general ventilation. Conduit raceway allows for ease in connecting to power supply. AMCA Seal assures certified rating of air and sound performance. Birdscreen prevents entry of birds or other potentially damaging objects. Heavy duty neoprene isolators eliminate metal-to-metal contact, reducing vibration and sound. Heavy duty pillow-block bearings with cast iron housing are self-aligning and relubricable.

CRDA Specification Checklist

General exhaust units for low to medium air volumes in commercial, institutional and light manufacturing buildings. Centrifugal design with advantages of compact, attractive appearance, quiet operation and performance against higher static pressures. Spun aluminum housing for durable weather protection and attractive appearance. Direct-drive advantages of minimal maintenance and operating costs. Deep-spun, overlapping, one-piece venturi minimizes noise, reduces air turbulence and improves efficiency. Aluminum centrifugal wheel is quiet, non-overloading, backward-inclined design and is computer balanced. Standard open motor is out of the airstream for protection. The motor's electrical connection terminal board is up for easy and convenient electrical connection and servicing. Positively cooled motor compartment with forced air ventilation system extends motor life. UL Label (UL 705) for general ventilation. Safety disconnect device enables cut-off of power to unit for servicing. Birdscreen prevents entry of birds or other potentially damaging objects. Factory run and tested prior to shipment for dependable operation. AMCA Seal assures certified rating of air and sound performance.

Limited Warranty

In the sale of its products, American Coolair Corporation agrees to correct, by repairs or replacement, any defects in workmanship or material that may develop under proper and normal use during the period of one year from the date of shipment from the factory. Any product or part proving, upon American Coolair's examination, to be defective within limited warranty period will be repaired or replaced, at American Coolair's option, f.o.b. factory, without charge. Deterioration or wear caused by chemicals, abrasive action or excessive heat shall not constitute defects. Motors are guaranteed only to the extent of the manufacturer's warranty. American Coolair's limited warranty does not apply to any of its products or parts that have been subject to accidental damage, misuse by the user, unauthorized alterations, improper installation or electrical wiring, or lack of proper lubrication or other service requirements as established by American Coolair. Repairs or replacements provided under the above terms shall constitute fulfillment of all American Coolair's obligations with respect to limited warranty. THE LIMITED WARRANTY STATED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING WITHOUT LIMITATION THAT OF MERCHANTABILITY AND FITNESS. NO LIABILITY FOR REINSTALLATION COST OR FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY NATURE IS ASSUMED OR SHALL BE IMPOSED UPON AMERICAN COOLAIR.

REPRESENTED BY:

AMERICAN COOLAIR CORPORATION

VANE AXIAL FANS – TUBE AXIAL FANS – PROPELLER FANS – POWER ROOF VENTILATORS – CENTRIFUGAL VENTILATORS

MEMBER OF AMCA

Form No. 725-15-4 (December, 2008)