There are many locations in a home where air movement may be necessary:

**Duct Boosting**

**Bathroom Exhaust**

**Kitchen Exhaust**

**Additional Applications**

- Dryer boosting
- Garage ventilation
- Attic ventilation
- Whole house ventilation
- Crawl space ventilation
- General kitchen exhaust
- Basement kitchens, washrooms
- Apartments/townhouses
- Indoor pool ventilation
HOME VENTILATION SOLUTIONS

How to size a Range Hood Exhaust Fan

The following recommendations follow minimum guidelines published by the Home Ventilating Institute (HVI):

Wall Mounted Range Hood:
- 100 cfm per foot of hood width (36” range would require a minimum 300 cfm)

Island Style Range Hood:
- 150 cfm per foot of hood width (36” range would require a minimum 450 cfm)

Note: Local building codes, as well as any recommendations provided by the range and range hood manufacturers, should be consulted before making a fan selection.

RANGE HOOD EXHAUST

HOW WELL DOES YOUR RESIDENTIAL RANGE HOOD EXHAUST PERFORM?

Whether one is an active parent on the go, or a gourmet chef moonlighting at a day job, the kitchen is the heart of a home. The household congregates there for breakfast, reviews daily activities, and enjoys family dinners. All too often, kitchens can be marred by smoke and odors due to an inefficient range hood.

In-line duct fans are a simple solution for an inefficient residential range hood. In-line duct fans can be used as a principle exhaust fan or as a booster fan to improve the efficiency of an existing residential range hood. These fans may be speed controlled with an independent speed controller, or by tying into an existing range hood controller.

AXC in-line duct fans and EXT external mount duct fans are ideal for range hood exhaust.

WHAT IF A RANGEHOOD ISN’T AN OPTION?

Not every home or remodel is suited for a rangehood to ventilate the kitchen. Homeowners can still evacuate the smoke and odor produced from cooking, with the same quiet and efficient exhaust fans used in rangehood ventilation. Continental Fan recommends using ceiling grilles combined with an AXC in-line duct fan or EXT external mount fan and a variable speed control. Ceiling grilles can be installed directly over the area you want to target, so when in use the fumes will not linger around the house.

FAN OPTIONS & ACCESSORIES

AXC In-Line Duct Fans
EXT External Mount Duct Fans
SA Sound Attenuator
BDD Backdraft Dampers
AXC IN-LINE DUCT FANS

AXC In-Line Duct Fans are designed for residential, commercial and industrial ventilation applications. The quiet and efficient backward-curved impeller is capable of developing significant pressure, and the in-line configuration simplifies installation, saving time and money!

**Design Features**

- Heavy gauge, drawn steel housing with baked epoxy finish
- 120V operation, other voltages available
- Easy to install - mounting brackets included
- May be mounted in any position
- Fans may be used to supply or exhaust air
- Suitable for air temperatures up to 140 F / 60 C
- Energy efficient - speed controllable (optional solid state speed control)
- Optional pre-wired with 120V power cord (AXC-C)
- Exceptionally quiet and efficient BC centrifugal motorized impeller
- External rotor motor design results in superior motor cooling and durability
- Permanently lubricated ball bearing motor for maintenance-free operation
- Automatic reset thermal overload protection
- Fan and motor are precision balanced for quiet and vibration-free operation
- Easily accessible, external junction box with pre-wired capacitor
- Available to fit duct sizes 4" - 14"; airflow capacities to 1,400 cfm

![AXC Duct Fan Image]

**FAN OPTIONS**

**Accessories**

**Controls**

**Grilles**

### AIRFLOW PERFORMANCE (CFM)

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FOR PRE-WIRED WITH 120V POWER CORD, ADD - C TO MODEL.

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*DO NOT USE FOR CONSTRUCTION
CONSULT FACTORY FOR CERTIFIED PRINTS

AXC models 100A through 300B are cULus listed
AXC models 355A and 355B are CSA listed to both US and Canadian standards

Products are HVI certified for airflow and power at 0.2" SP. HVI currently does not have a standard in place for testing the sound of a remote mounted fan. Many factors, such as ducting and fan location, can contribute to sound levels. Generally, a remote mounted fan should be quieter than a typical ceiling mounted fan.

www.continentalfan.com
EXT EXTERNAL MOUNT DUCT FANS

EXT External Mount Duct Fans offer the perfect solution when space restrictions prevent the use of in-line duct fans. EXT fans provide a simple through-the-wall solution, and can be mounted on the exterior of a building to allow for easy access to the fan. EXT fans utilize quiet and energy efficient backward-curved centrifugal impellers.

**Design Features**
- Heavy gauge, galvanized steel housing with baked epoxy finish
- 120V operation
- May be mounted on the exterior of a building
- Enclosed motor housing for dust & lint
- Suitable for air temperatures up to 140 F / 60 C
- Energy efficient - speed controllable (optional solid state speed control)
- Rugged construction for long life
- Built-in backdraft damper
- Exceptionally quiet and efficient BC centrifugal motorized impeller
- External rotor motor design results in superior motor cooling and durability
- Permanently lubricated ball bearing motor for maintenance-free operation
- Automatic reset thermal overload protection
- Fan and motor are precision balanced for quiet and vibration-free operation
- Pre-wired capacitor
- Available to fit duct sizes in 4", 6", & 8"; airflow capacities to 445 cfm

**FAN OPTIONS**

**AIRFLOW PERFORMANCE (CFM)**

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*DO NOT USE FOR CONSTRUCTION  CONSULT FACTORY FOR CERTIFIED PRINTS
GRILLES

Adjustable Ventilation Grilles
GR adjustable ventilation grilles are designed for ceiling or wall applications. The fully adjustable ventilation grilles are easy to install and adjust. GR grilles are ideal for use with in-line fans.

- GR100 Adjustable Grille 4", Collar
- GR150 Adjustable Grille 6", Collar
- GR200 Adjustable Grille 8", Collar
- GR100-6PK Adjustable Grille 4", Collar - 6 pcs
- GR150-6PK Adjustable Grille 6", Collar - 6 pcs

AeroGrille Ventilation Grilles
AeroGrilles feature quality construction and allow for whisper quiet airflow. Designed for use with either in-line or external mount duct fans, they fit a standard 6" duct.

- AG150 AeroGrille 6"
- AG150-C AeroGrille 6", Collar
- AG150-CD AeroGrille 6", Collar, Damper

Retro Ventilation Grilles
Square or round retro supply and exhaust grilles are ideal for use with in-line duct fans.

- RTR678 Round Grille, 6"-7"-8", Stepped Collar
- RTS678 Square Grille, 6"-7"-8", Stepped Collar

Decorative Ventilation Grilles
These attractive grilles are designed for use with non-lighted versions of AeroFan bathroom fans.

- TGRRD90 Grille TBF90, Round Silver/Chrome
- TGRRD120 Grille TBF120, Round Silver/Chrome
- TGRSQ90 Grille TBF90, Square Silver/Chrome
- TGRSQ120 Grille TBF120, Square Silver/Chrome
- TGRCH90 Grille TBF90, Rectangular Silver/Chrome
- TGRCH120 Grille TBF120, Rectangular Silver/Chrome

SUPPLY & EXHAUST GRILLES
Enhance your bathroom décor with Continental Fan’s attractive ventilation grilles. These sleek and attractive grilles compliment any bathroom interior and maximize your fan’s performance.
**Fan Controls**

**Variable Speed Controls (Solid State)**
VSC3 and VSC9 variable speed controls are designed for AC motors.

- VSC3 Variable Speed Control - 3 amp - 3 Wire
- VSC9 Variable Speed Control - 9 amp - 3 Wire

**Digital Timers**
Time control auto shut off, in preset intervals, allows for proper ventilation and energy savings. The red LED indication light remains lit until the unit shuts off.

- DT60 Digital Timer 10 - 20 - 30 - 60 Minutes

**Spring Wound Timer**
Spring wound timer provides energy savings by limiting the “on-time” of the fan, up to 60 minutes. CT timers are easily installed in a standard electrical box. Cover plate not included.

- CT100V Spring Wound Timer 0 - 1 Hour

**On/Off Switch (w/Pilot Light)**
The neon light is ON when the switch is in the ON position. 15Amp, 120V Single Pole/AC Switch. Cover plate not included.

- PLS120V ON/OFF Switch w/Pilot Light

**Thermostat**
The TST120V thermostat is suitable for direct connection with any resistance heating element or unit heater.

- TST120V Line Voltage Thermostat, 120V

**Dehumidistat (for Humidity Control)**
Wall mounted DHS dehumidistat allows for “problem” areas to be targeted for ventilation. Regulates relative humidity from 20% to 80% RH (8% RH Maximum Differential).

- DHS120V Dehumidistat

**Current Sensor (Solid State)**
The CS120VAF current sensor provides a compact, low cost method of detecting AC current. It is ideal for ON/OFF sensing of remote equipment.

- CS120AF Current Sensor, 120V, Solid State

**Pressure Switch (with Time Delay)**
Designed for HVAC or Energy Management applications, PST120V pressure switch is an airflow proving switch with an electronic cycle timing board.

- PST120V Pressure Switch w/Time Delay

**Auto Transformer**
TF auto transformer allows for voltage to be regulated to 60V & 90V increments. Channel frame mounting and metal end shells make for a simple installation.

- TF120V Auto Transformer - 90/60V
## Fan Accessories

### Flexible Insulated Duct

UL listed 181 class 1 air duct, wrapped with R4.2 insulation and black polyethylene cover. Ideal for long run applications for HVAC, bathroom and general venting applications.

- FL100: Flexible Insulated 4” Duct - 12.5’ Length
- FL100-25: Flexible Insulated 4” Duct - 25’ Length
- FL125: Flexible Insulated 5” Duct - 25’ Length
- FL150: Flexible Insulated 6” Duct - 25’ Length
- FL200: Flexible Insulated 8” Duct - 25’ Length
- FL250: Flexible Insulated 10” Duct - 25’ Length
- FL300: Flexible Insulated 12” Duct - 25’ Length

### Mounting Clamps for Rigid Duct

MC mounting clamps are designed for use with rigid duct. The foam neoprene layer creates an air tight and solid installation for in-line duct fans.

- MC100: Mounting Clamps for Rigid 4” Duct (2pc)
- MC125: Mounting Clamps for Rigid 5” Duct (2pc)
- MC150: Mounting Clamps for Rigid 6” Duct (2pc)
- MC200: Mounting Clamps for Rigid 8” Duct (2pc)
- MC250: Mounting Clamps for Rigid 10” Duct (2pc)
- MC300: Mounting Clamps for Rigid 12” Duct (2pc)
- MC355: Mounting Clamps for Rigid 14” Duct (2pc)

### Gear Clamps for Flexible Duct

GC stainless steel gear clamps are an easy and effective way to connect an in-line duct fan to flexible insulated duct and other auxiliary pieces.

- GC150: Gear Clamp for 4” - 6” Duct, Stainless Steel
- GC200: Gear Clamp for 5.5” - 8.5” Duct, Stainless Steel

### Duct Reducers/Increasers

DRI duct reducers/increasers are used to transition a duct from a larger or smaller size. Available in 28 Ga.

- DRI-04-03: Duct Reducer/Inreater, 4” - 3” Duct, Plastic
- DRI-06-04: Duct Reducer/Inreater, 6” - 4” Duct, Galvanized
- DRI-08-06: Duct Reducer/Inreater, 8” - 6” Duct, Galvanized
- DRI-10-08: Duct Reducer/Inreater, 10” - 8” Duct, Galvanized
- DRI-12-10: Duct Reducer/Inreater, 12” - 10” Duct, Galvanized
- DRI-14-12: Duct Reducer/Inreater, 14” - 12” Duct, Galvanized

### Wye Fittings

WYE fittings provide an airtight branch fitting. The crimp and bead edging ensures an easy connection. Available in 28 Ga.

- WYE-04: Y-Fitting, 4”x4”x4” Duct
- WYE-06: Y-Fitting, 6”x6”x6” Duct
- WYE-08: Y-Fitting, 8”x8”x8” Duct
Fan Accessories

Guards
PG guards are used in various applications. Utilize a PG guard as a grille, or mount it directly on the outlet/inlet of a fan to allow for a safe installation.

- PG100 Guard, 4" Duct
- PG125 Guard, 5" Duct
- PG150 Guard, 6" Duct
- PG200 Guard, 8" Duct
- PG250 Guard, 10" Duct
- PG300 Guard, 12" Duct

Sound Attenuators
SA sound attenuators are designed to reduce fan noise traveling along ventilation ducts. They may be used in either supply or exhaust ducts.

- SA100 Sound Attenuator, 4" Duct
- SA150 Sound Attenuator, 6" Duct
- SA200 Sound Attenuator, 8" Duct
- SA250 Sound Attenuator, 10" Duct
- SA300 Sound Attenuator, 12.4" Duct
- SA400 Sound Attenuator, 16" Duct

Louvered Shutters (with Tail Piece)
LS louvered shutters are designed as plastic molded vent hoods. The weather resistant louvered construction prevents wind and rain from entering the vent.

- LS100-4W Louvered Shutter, 4" Duct
- LS150-6W Louvered Shutter, 6" Duct

Roof & Wall Caps
Black plastic roof caps include damper, screen, and collar. Aluminum wall caps include spring controlled damper.

- RC100 Roof Cap, 4" Duct, Black Plastic
- RC150 Roof Cap, 6" Duct, Black Plastic
- RC200 Roof Cap, 8" Duct, Black Plastic
- WC100 Wall Cap, 4" Duct, Aluminum, Reducer 4" - 3"
- WC150 Wall Cap, 6" Duct, Aluminum
- WC200 Wall Cap, 8" Duct, Aluminum

Lint Trap
LT100 lint traps offer a simple solution for reducing maintenance associated with dryer vents. The one-piece door with screen slides easily into place, without having to fuss with flimsy springs or clips. Its versatile design allows for either wall or ceiling mount installation.

- LT100 Lint Trap for Dryer, 4" Duct
**BDD BACKDRAFT DAMPERS**

**Spring Loaded Dampers**
- Neoprene damper seal to minimize air leakage
- Steel housing, aluminum butterfly damper blades
- Gasket designed to withstand temperatures from -22°F to 180°F
- Requires from 0.04 to 0.08 in. wg pressure to open
- Simple installation in any position - entire assembly inserts into duct
- Exterior foam gasket assures a tight seal against duct
- 4", 5", 6" & 8" sizes include stamped metal sleeve with center pin / post designs
- 10" & 12" sizes include rolled metal sleeve with center post design

**Gravity Operated Dampers**
- Low air leakage design
- Galvanized steel housing, aluminum butterfly damper blades
- Gravity operated closure
- Install in horizontal or vertical (upblast only) position
- Suitable for supply or exhaust applications
- Available in 7", 14" & 16" sizes

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### SPRING LOADED DAMPERS

- **4", 5", 6" & 8"**
  - Dimensions in inches:
    - BDD100: A=1.8, B=2.0, C=4 (Nominal), Gauge 20
    - BDD125: A=2.0, B=2.5, C=5 (Nominal), Gauge 20
    - BDD150: A=2.5, B=3.0, C=6 (Nominal), Gauge 20
    - BDD200: A=2.8, B=3.8, C=8 (Nominal), Gauge 20
    - BDD250: A=4.8, B=6.0, C=10 (Nominal), Gauge 20
    - BDD300: A=6.3, B=6.8, C=12 (Nominal), Gauge 20

- **10" & 12"**
  - Dimensions in inches:
    - BDD175: A=7.0, B=7 (Nominal), Gauge 28
    - BDD355: A=12.0, B=14 (Nominal), Gauge 24
    - BDD400: A=14.0, B=16 (Nominal), Gauge 22

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**CONSULT FACTORY FOR CERTIFIED PRINTS**

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**AIRFLOW PERFORMANCE (CFM)**

- Graph showing airflow performance (CFM) vs. pressure (in. wg) for different models.

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**DIMENSIONS IN INCHES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C (Nominal)</th>
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*DO NOT USE FOR CONSTRUCTION

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