

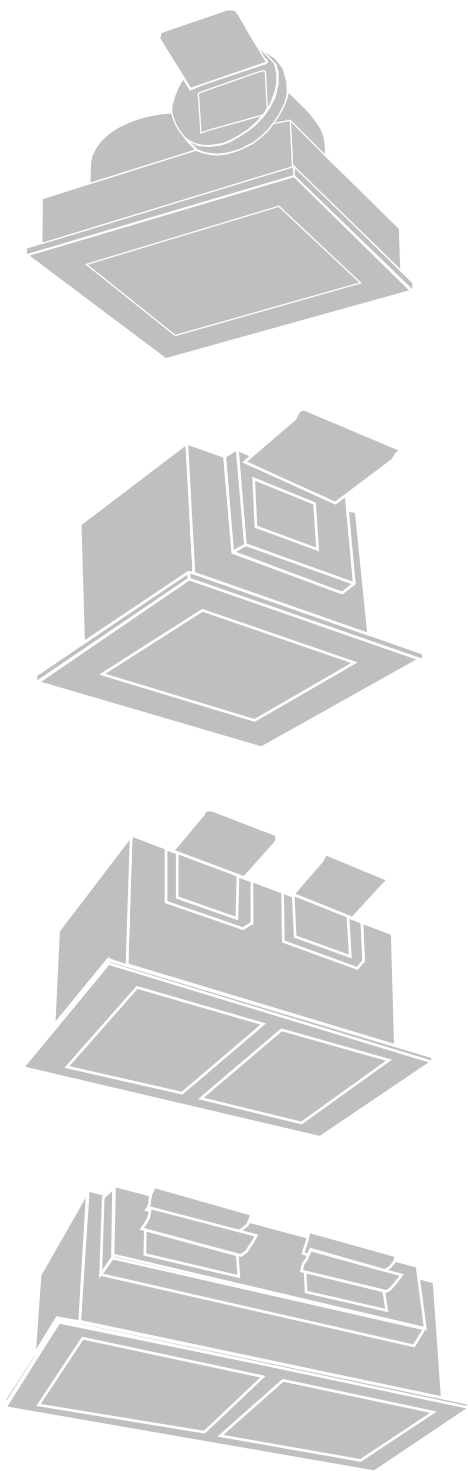
GEMINI



COOK

GEMINI

Ceiling and Inline Fans

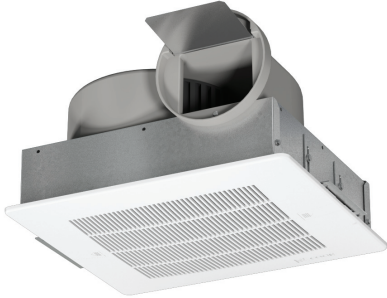


	Page
Introduction	2
Construction Features	3
Specifications and Dimension Data	
GC 122 - 184	4
GC 220 - 960	5
GC 1000 - 2000	6
GN 122 - 184	7
GN 220 - 960	8
GN 1000 - 2000	9
Accessories	10-14
Typical Installations	15
Performance Data	
GC 122 - 2000	16-17
GN 122 - 2000	18-19
Other Available Products	20

INTRODUCTION

Loren Cook Gemini fans provide maximum performance, durability, and ease of installation in a wide variety of ceiling and inline clean air exhaust applications. Gemini fans are easily field convertible from ceiling to inline or inline to ceiling depending on the installation needs. All units are tested in Cook's AMCA registered laboratory in accordance with AMCA Standards and are licensed to bear the AMCA Certified Ratings Seal. All Gemini units are listed by Underwriters Laboratory (UL 705) and UL listed for Canada (cUL 705). For optional UL listings, refer to page 10 of this catalog or contact the factory for more details.

Gemini 122 - 184



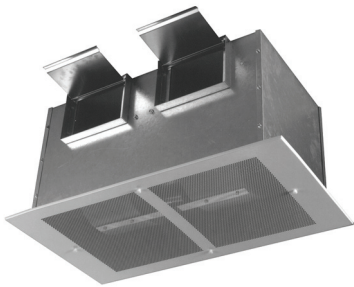
- Performance ranges from 50 to 250 CFM, with static pressure from 0 to 1 inch.
- Eight different performance ranges are available using four different two-speed motors all in one fan size.
- Fans sized to exceed mechanical code applications of 75 CFM per water closet in small public washrooms.

Gemini 220 - 740



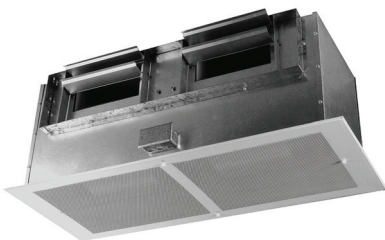
- Performance ranges from 75 to 850 CFM, with static pressure from 0 to 7/8 inches.
- The Gemini 200-700 series fans are single scroll fans.

Gemini 822 - 960



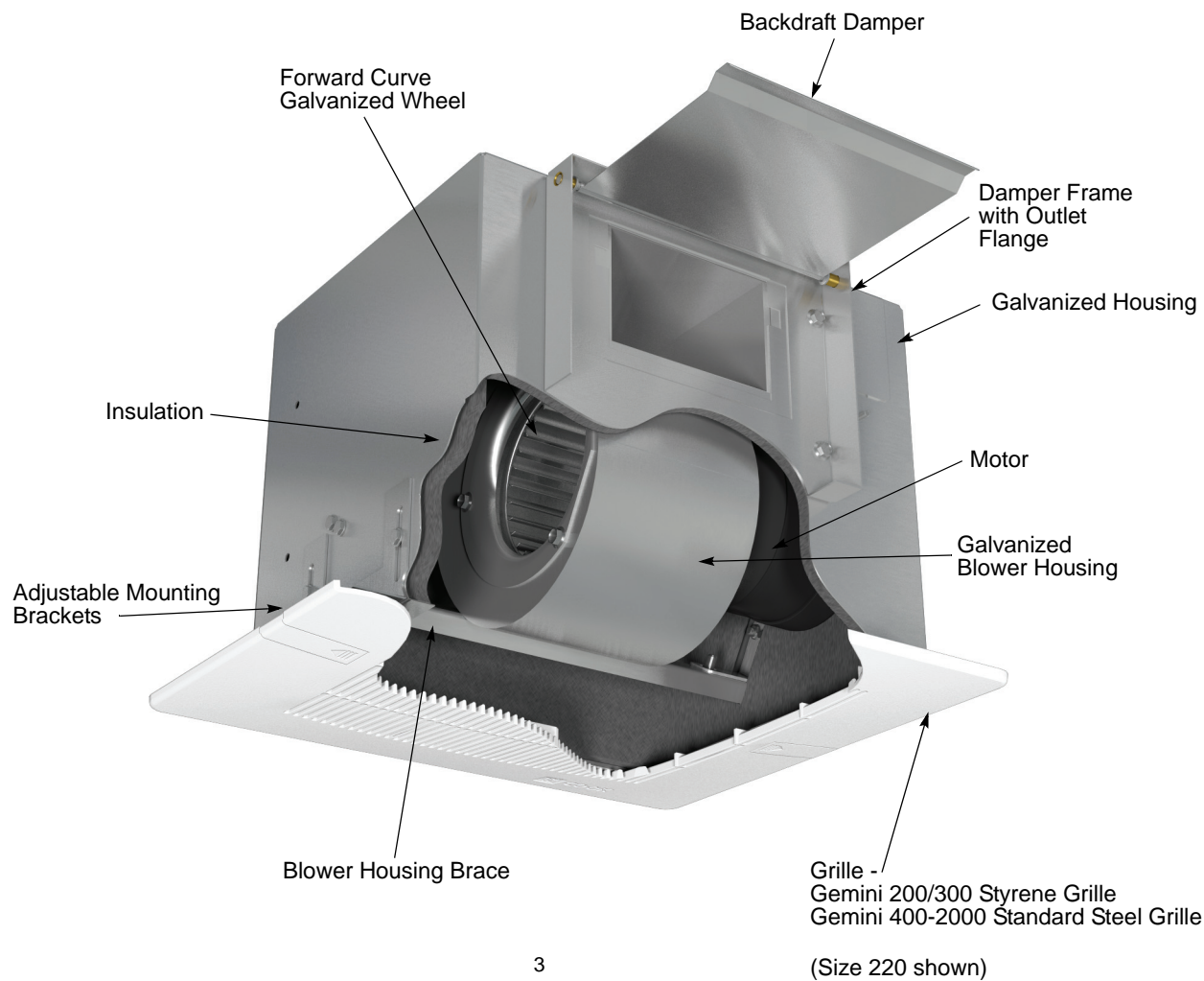
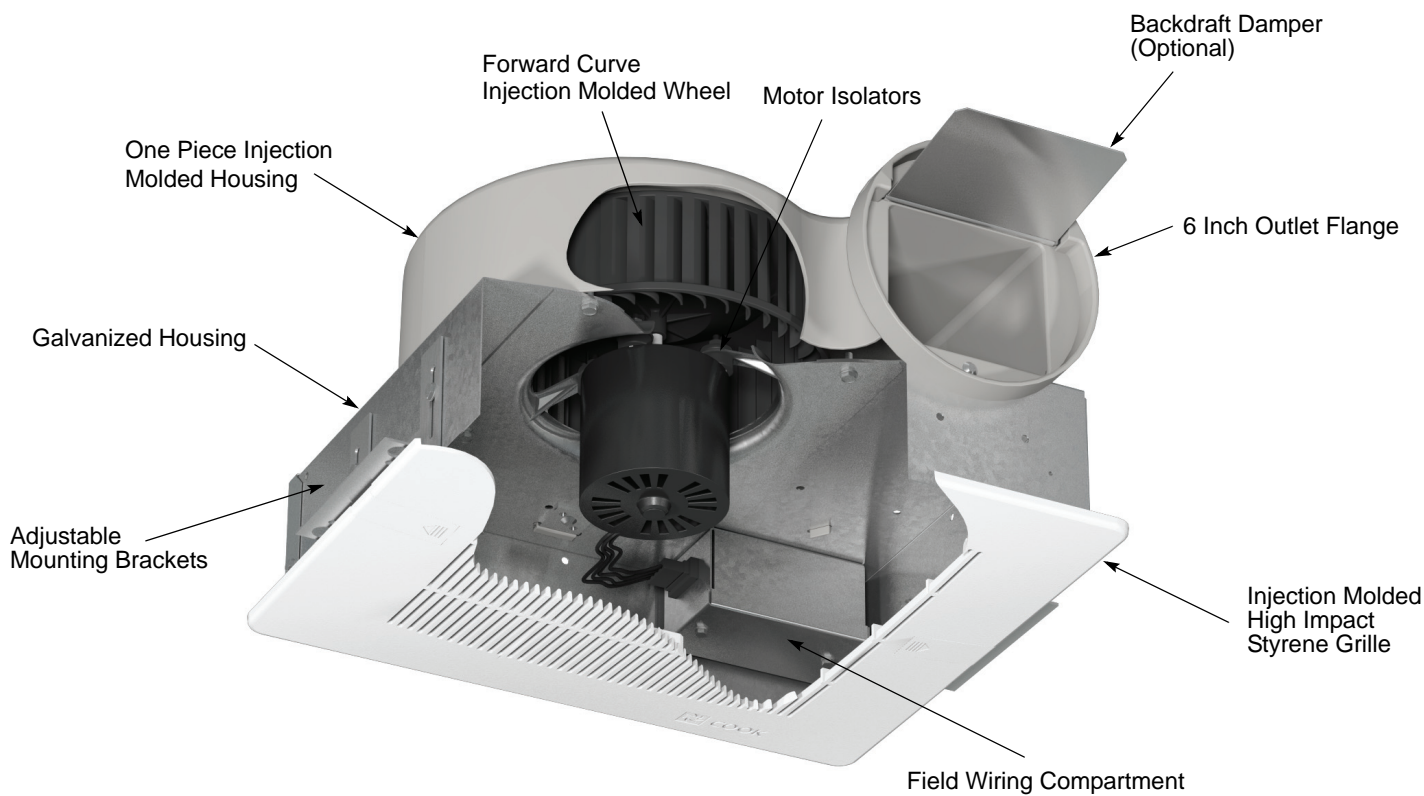
- Performance ranges from 680 to 1800 CFM, with static pressure from 0 to 5/8 inches.
- The Gemini 800-900 series fans are double scroll fans.

Gemini 1000 - 2000

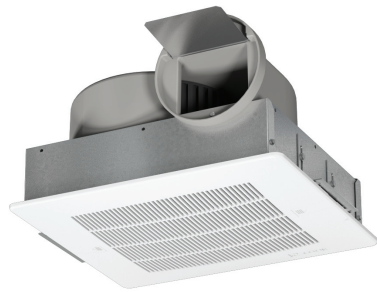



- Performance ranges from 1030 to 3470 CFM, with static pressure from 1/10 to 7/8 inches.
- The Gemini 1000-2000 series fans are double scroll fans.
- Motors are single speed.
- Motors available in single or three phase.


CONSTRUCTION FEATURES



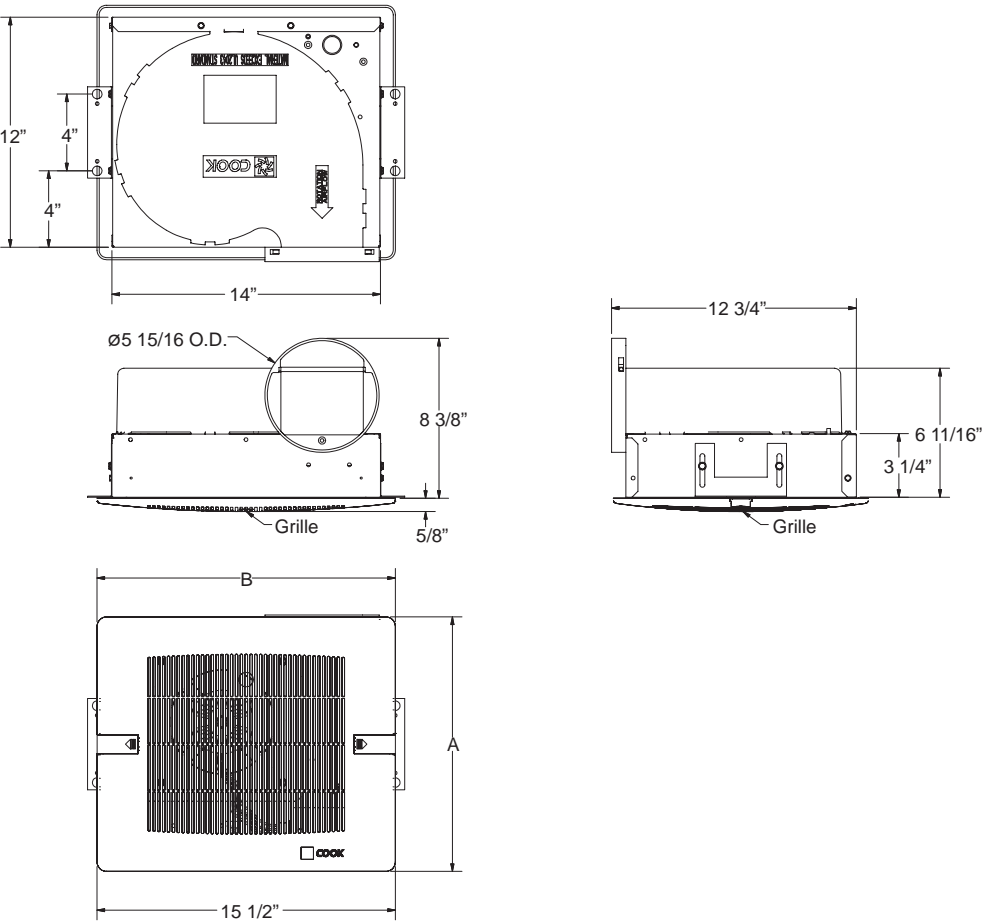
Ceiling Fans



 Loren Cook Company certifies that the Gemini GC 122-184 are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311, and comply with requirements of the AMCA Certified Ratings Program.

 Type Gemini GC 122-184 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).

- Description** - Fan shall be ceiling mounted, direct driven, centrifugal exhaust fan.
- Certifications** - Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705) or UL Laboratories (UL 507) and UL listed for Canada (cUL 507). Fan shall bear the AMCA Certified Ratings Seal for sound and air performance.
- Construction** - Fan wheel housing and integral outlet duct collar shall be injection molded from a specially engineered resin exceeding UL requirements for smoke and heat generation. The outlet duct shall have provision for an aluminum backdraft damper with continuous aluminum hinge rod. The inlet box shall be minimum 22 gauge galvanized steel. Motor shall be isolation mounted to a one piece galvanized stamped steel integral motor mount/inlet. A field wiring compartment with disconnect receptacle shall be standard. To accommodate different ceiling thickness, an adjustable prepunched mounting bracket shall be provided. A white, non-yellowing, high impact styrene injection molded grille shall be provided as standard. Unit shall be designed with provision for field conversion from ceiling to inline. Unit shall be shipped in ISTA Certified Transit Tested Packaging.
- Wheel** - Wheel shall be centrifugal forward curved type, injection molded of polypropylene resin. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.
- Motor** - Motor shall be open drip proof type with permanently lubricated sealed bearings and include impedance or thermal overload protection and disconnect plug. Motor shall be furnished at the specified voltage.
- Product** - Fan shall be model Gemini GC 122-184 as manufactured by Loren Cook Company of Springfield, Missouri.



GC 122-184 Dimension Data

Grille Material	A	B	Unit Size	Approx. Ship-Wt. Lbs.
Plastic	13-1/4	15-1/2	122/124	13
Steel	13-1/2	15-1/2	142/144	15
Aluminum	13-3/4	15-1/2	162/164	15
			182/184	16

All dimensions in inches.

Description - Fan shall be ceiling, wall, or inline mounted, direct drive, centrifugal exhaust fan.

Certifications - Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for sound and air performance.

Construction - Fan housing shall be minimum 20 gauge galvanized steel and acoustically insulated. Blower and motor assembly shall be mounted to a minimum 14 gauge reinforcing channel and shall be easily removable from the housing. Motor shall be mounted on vibration isolators. Unit shall be supplied with integral wiring box and disconnect receptacle shall be standard. Discharge position shall be convertible from right angle to straight through by moving interchangeable panels. The outlet duct collar shall include a reinforced aluminum damper with continuous aluminum hinge rod and nylon bushings. To accommodate different ceiling thickness, an adjustable prepunched mounting bracket shall be provided. A white, non-yellowing, high impact styrene injection molded grille shall be provided as standard on 200 and 300 series. A powder painted white steel grille shall be provided as standard on 800-900 series. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel - Wheel shall be centrifugal forward curved type, constructed of galvanized steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

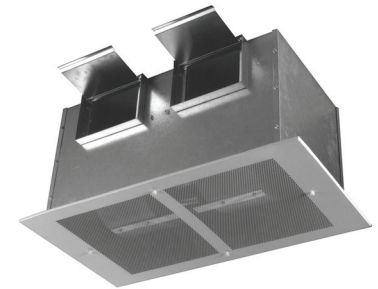
Motor - Motor shall be open drip proof type with permanently lubricated sealed bearings, built-in thermal overload protection and disconnect plug. Motor shall be furnished at the specified voltage.

Product - Fan shall be model Gemini GC 220-960 as manufactured by Loren Cook Company of Springfield, Missouri.

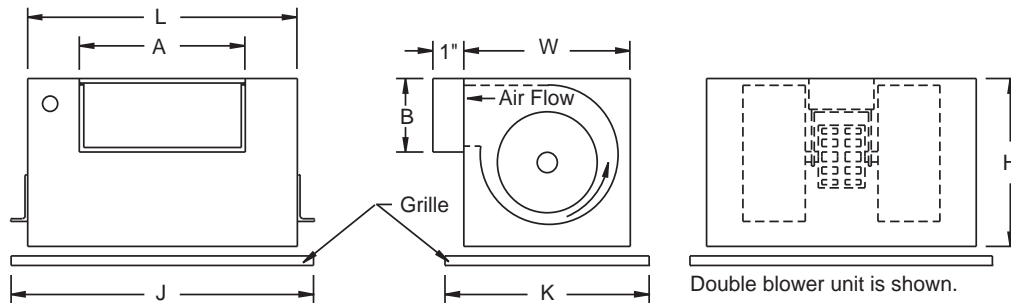
Ceiling Fans



GC 220 - 740



GC 822 - 960



Double blower unit is shown.



Loren Cook Company certifies that the Gemini GC 220-960 are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311, and comply with requirements of the AMCA Certified Ratings Program.

GC 220-960 Dimension Data

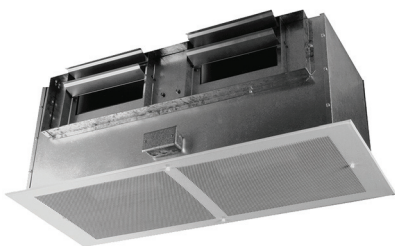
Model GC	Housing			Outlet		Plastic Grille		Steel Grille		Deluxe Aluminum Grille		Approx. Ship-Wt. Lbs.
	L	W	H	A	B	J	K	J	K	J	K	
220, 240	12-3/8	9-3/4	9-3/4	8	6	15-1/2	13-1/4	16-3/8	13-5/8	14-1/4	11	22
320, 340	12-3/8	10-3/4	10-3/4	8	6					14-1/4	12-1/4	25
420	17	11-7/8	11-7/8	8	6	-	-	21	14-1/4	18-3/4	13-3/4	30
520	17	11-7/8	11-7/8	8	6			21	14-1/4	18-3/4	13-3/4	32
620, 640	17	11-7/8	11-7/8	10-1/2	4-3/4			21	14-1/4	18-3/4	13-3/4	35
720, 740	17	11-7/8	11-7/8	10-1/2	4-3/4			21	14-1/4	18-3/4	13-3/4	36
822, 842, 862	27	14-11/16	14-11/16	20	6			31-3/8	17-1/8	28-3/4	16-1/4	74
920, 940, 960	31	14-11/16	14-11/16	24-1/4	6			35-1/8	17-1/8	32-3/4	16-1/4	86

All dimensions in inches.



Type Gemini GC 220-960 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).

Ceiling Fans

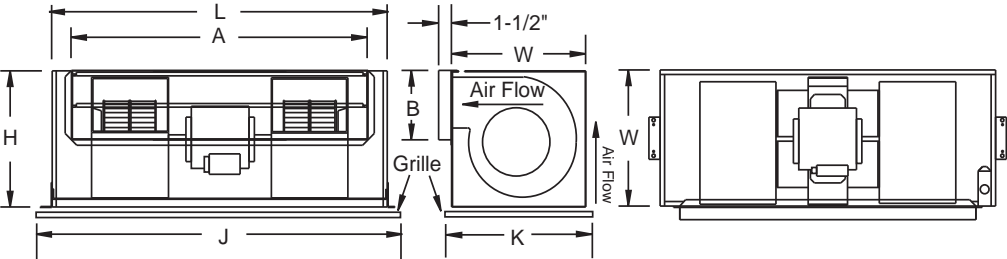


Loren Cook Company certifies that the Gemini 1000 and 2000 series are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



Type Gemini GC 1000 and 2000 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).

- Description** - Fan shall be ceiling, wall, or inline mounted, direct drive, centrifugal exhaust fan.
- Certifications** - Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for air performance.
- Construction** - Fan housing shall be minimum 20 gauge galvanized steel and acoustically insulated. Blower and motor assembly shall be mounted to a minimum 14 gauge reinforcing channel. Motor shall be resiliently mounted. Unit shall be supplied with integral wiring box. Discharge position shall be convertible from right angle to straight through by moving interchangeable panels. The outlet duct collar shall include reinforced aluminum dampers with continuous aluminum hinge rods and nylon bushings. To accommodate different ceiling thickness, an adjustable pre-punched mounting bracket shall be provided. A powder painted white steel grille shall be provided as standard. Unit shall be shipped in ISTA Certified Transit Tested Packaging.
- Wheel** - Wheels shall be twin DWDI centrifugal forward curved type, constructed of galvanized steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.
- Motor** - Motor shall be totally enclosed type with permanently lubricated sealed bearings and built-in thermal overload protection. Motor shall be furnished at the specified voltage and phase.
- Product** - Fan shall be model GC 1000 and GC 2000 as manufactured by Loren Cook Company of Springfield, Missouri.



GC 1000-2000 Dimension Data

Model GC	Housing			Outlet		Standard Grille		Deluxe Aluminum Grille		Approx. Ship Wt. Lbs.
	L	W	H	A	B	J	K	J	K	
GC-1000	38-1/8	15-1/4	15-1/4	33-11/16	7-11/16	42-3/8	17-1/8	38-3/4	15-3/4	125
GC-2000	45-7/16	16-5/8	16-5/8	41-1/8	9-5/8	49-1/2	18-1/2	45-3/4	17-1/4	165

All dimensions in inches.

Inline Fans

Description - Fan shall be inline mounted, direct drive, centrifugal exhaust fan.

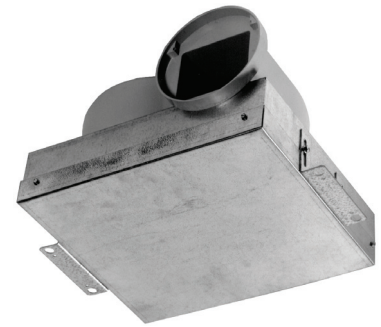
Certifications - Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for sound and air performance.

Construction - Fan wheel housing and integral outlet duct collar shall be injection molded from a specially engineered resin exceeding UL requirements for smoke and heat generation. The outlet duct shall have provision for an aluminum backdraft damper with continuous aluminum hinge rod. The inlet box shall be minimum 22 gauge galvanized steel. Motor shall be isolation mounted to a one piece galvanized stamped steel integral motor mount/inlet. A field wiring compartment with disconnect receptacle shall be standard. To accommodate different mounting positions, an adjustable prepunched mounting bracket shall be provided. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel - Wheel shall be centrifugal forward curved type, injection molded of polypropylene resin. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor - Motor shall be open drip proof type with permanently lubricated sealed bearings and include impedance or thermal overload protection and disconnect plug. Motor shall be furnished at the specified voltage and phase.

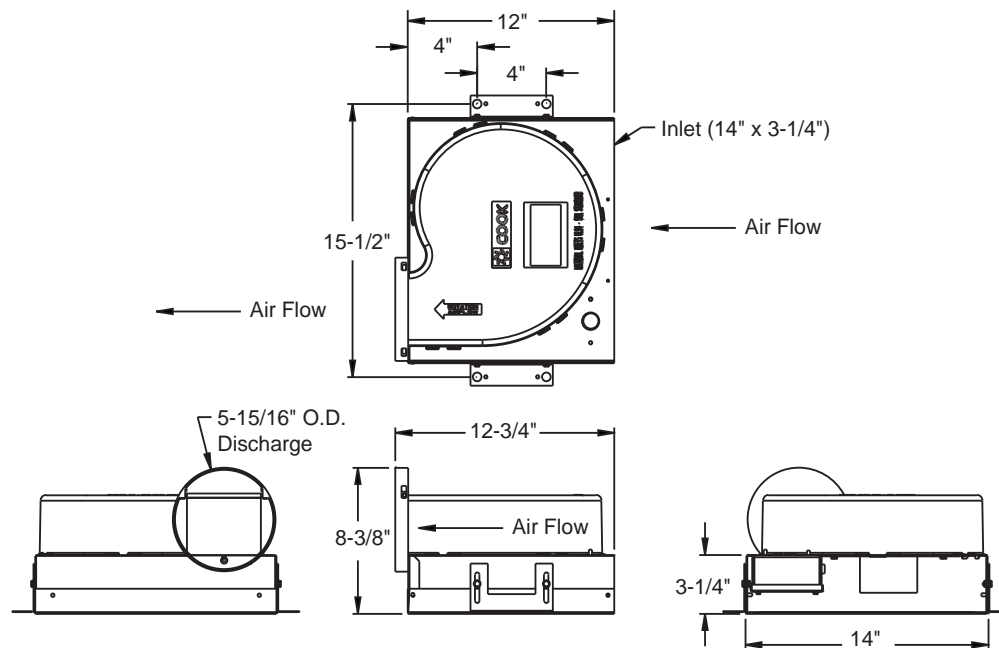
Product - Fan shall be model Gemini GN 122-184 as manufactured by Loren Cook Company of Springfield, Missouri.



Loren Cook Company certifies that the Gemini GN 122-184 are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311, and comply with requirements of the AMCA Certified Ratings Program.



Type Gemini GN 122-184 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).

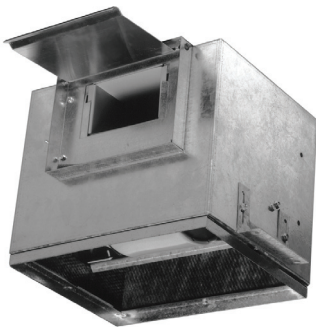


GN 122-184

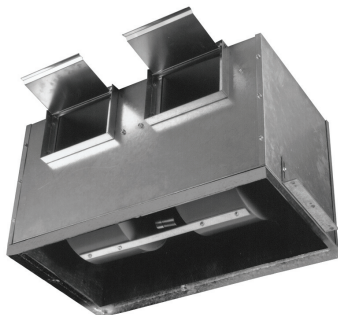
Model GN	Approx. Ship-Wt. Lbs.
GN-122/GN-124	15
GN-142/GN-144	15
GN-162/GN-164	16
GN-182/GN-184	16

GN 220-960 Specifications and Dimension Data

Inline Fans



GN 220-740



GN 822-960



Loren Cook Company certifies that the Gemini GN 220-960 are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with requirements of the AMCA Certified Ratings Program.

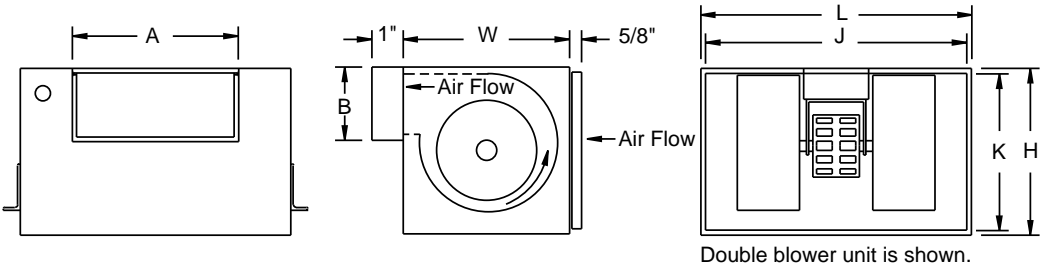


Type Gemini GN 220-960 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ ZACT).



Type Gemini GN 220-960 is available with UL 1995 & cUL 1995 listing (Heating and Cooling Equipment-Fan Unit), when installed with inlet and outlet duct.

- Description** - Fan shall be inline mounted, direct drive, centrifugal exhaust fan.
- Certifications** - Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for air performance.
- Construction** - Fan housing shall be minimum 20 gauge galvanized steel and acoustically insulated. Blower and motor assembly shall be mounted to a minimum 14 gauge reinforcing channel and shall be easily removable from the housing. Motor shall be mounted on vibration isolators. Unit shall be supplied with integral wiring box and receptacle and disconnect receptacle shall be standard. Discharge position shall be convertible from right angle to straight through by moving interchangeable panels. The outlet duct collar shall include a reinforced aluminum damper with continuous aluminum hinge rod and nylon bushings. To accommodate different mounting positions, an adjustable prepunched mounting bracket shall be provided. Unit shall be shipped in ISTA Certified Transit Tested Packaging.
- Wheel** - Wheel shall be centrifugal forward curved type, constructed of galvanized steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.
- Motor** - Motor shall be open drip proof type with permanently lubricated sealed bearings and built-in thermal overload protection and disconnect plug. Motor shall be furnished at the specified voltage and phase.
- Product** - Fan shall be model Gemini GN 220-960 as manufactured by Loren Cook Company of Springfield, Missouri.



GN 220-960 Dimension Data

Model GN	Housing			Outlet		Inlet Collar		Approx. Ship-Wt. Lbs.
	L	W	H	A	B	J	K	
220, 240	12-3/8	9-3/4	9-3/4	8	6	12-5/16	9-11/16	22
320, 340	12-3/8	10-3/4	10-3/4	8	6	12-5/16	10-11/16	25
420	17	11-7/8	11-7/8	8	6	16-15/16	11-15/16	30
520	17	11-7/8	11-7/8	8	6	16-15/16	11-15/16	32
620, 640	17	11-7/8	11-7/8	10-1/2	4-3/4	16-15/16	11-15/16	35
720, 740	17	11-7/8	11-7/8	10-1/2	4-3/4	16-15/16	11-15/16	36
822, 842, 862	27	14-11/16	14-11/16	20	6	27	14-1/2	74
920, 940, 960	31	14-11/16	14-11/16	24-1/4	6	31	14-1/2	86

All dimensions in inches.

Description - Fan shall be inline mounted, direct drive, centrifugal exhaust fan.

Certifications - Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for air performance.

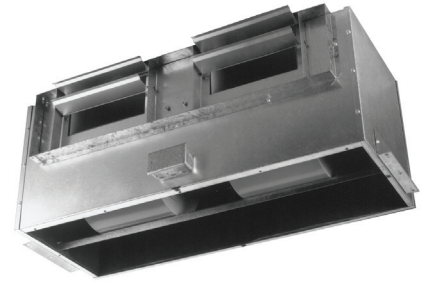
Construction - Fan wheel housing shall be minimum 20 gauge galvanized steel and acoustically insulated. Blower and motor assembly shall be mounted to a minimum 14 gauge reinforcing channel. Motor shall be resiliently mounted. Unit shall be supplied with integral wiring box. Discharge position shall be field convertible from straight through, inline configuration to right angle configuration by moving interchangeable panels. The outlet duct collar shall include reinforced aluminum dampers with continuous aluminum hinge rods and nylon bushings. To accommodate different ceiling thickness, an adjustable pre-punched mounting bracket shall be provided. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel - Wheels shall be twin DWDI centrifugal forward curved type, constructed of galvanized steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor - Motor shall be totally enclosed type with permanently lubricated sealed bearings and built-in thermal overload protection. Motor shall be furnished at the specified voltage and phase.

Product - Fan shall be model Gemini GN 1000 or GN 2000 as manufactured by Loren Cook Company of Springfield, Missouri.

Inline Fans



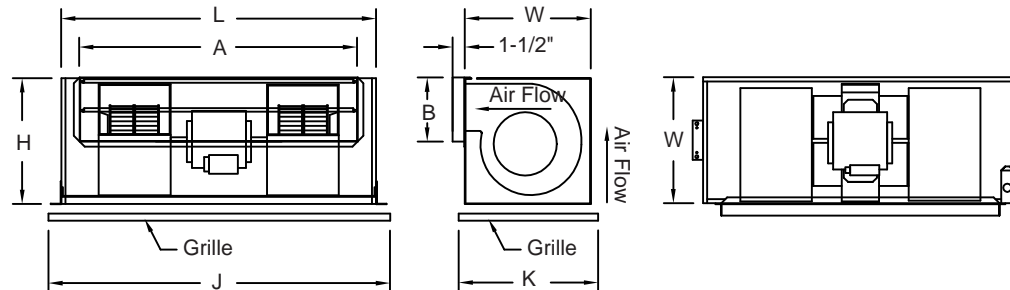
Loren Cook Company certifies that the Gemini 1000 and 2000 series are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



Type Gemini GN 1000-2000 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).



Type Gemini GN 1000-2000 is available with UL 1995 & cUL 1995 listing (Heating and Cooling Equipment-Fan Unit), when installed with inlet and outlet duct.



GN 1000-2000

Model GN	Housing			Outlet		Standard Grille		Approx. Ship-Wt. Lbs.
	L	W	H	A	B	J	K	
GN-1000	38-1/8	15-1/4	15-1/4	33-11/16	7-11/16	42-3/8	17-1/8	125
GN-2000	45-7/16	16-5/8	16-5/8	41-1/8	9-5/8	49-1/2	18-1/2	165

All dimensions in inches.

ACCESSORIES

Fan Speed Control



Models
122 - 862

Models
920 - 2000

Cook's FSC is a variable speed controller which can offer excellent energy conservation and lower sound levels when 100 percent of a direct drive fan operating capacity is not required. The FSC employs solid state circuitry for long life and dependability. The FSC is available only on 115V and 230V shaded pole or permanent split capacitor direct drive motors and is not available on 1140 RPM and 1725 RPM motors. The FSC is normally shipped loose for field installation. Optional pre-wiring is available.

Motion Sensor



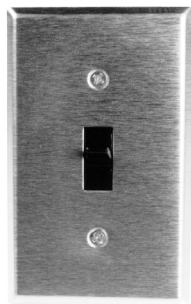
Wall



Ceiling

The wall or ceiling mount passive infrared motion sensor will automatically turn on the fan when the room is occupied. Each of the sensors feature an adjustable time delay of 20 seconds to 30 minutes allowing the fan to continue to run after the room is no longer occupied up to the chosen setting. With this accessory, energy and air demands of the building will be reduced. The sensor must be installed in a 2x4 handy box and should be mounted within the line-of sight of the occupant. Maximum sensor coverage is 1200 square feet. Shipped loose for field installation.

Time Delay Switch



The time delay switch operates both the fan and room light. Moving the switch to the "on" position turns the light & fan on immediately. Both light and fan stay on until the switch is moved to the "off" position. When the switch is moved to the "off" position, power to the light is immediately ceased and the fan will power down 1 to 60 minutes dependent upon the adjustable delay.

277 Volt Transformer



The 277 Volt Transformer is available for the Gemini 220 - 960 series. This step-down transformer allows for the operation of a Gemini fan from a 277 volt source. It is shipped loose for field installation.

Motors

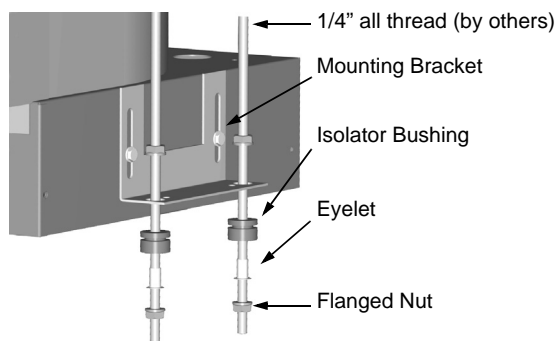
The Gemini fans can be specified to meet different line voltages. The Gemini 100 series is available in standard 115-volt. Contact factory for other voltages available. The Gemini 200-900 series are available in standard 115-volt or optional 220/240 volt. The Gemini 1000 and 2000 are available in single-phase 115/208-230 volt or three-phase 208-230/460.

UL Listing

Gemini 100 series is available with UL 507 listing (Electrical Fans) and with cUL 507 listing for Canada. UL 507 units are suitable for use over tub and showers when installed in a GFCI protected branch circuit.

Gemini 200 through 2000 series units are available with UL 1995 listing (Heating & Cooling Equipment) and cUL 1995 listing for Canada. When a Gemini 200 - 2000 unit is supplying a separate modular cooling or heating source then UL 1995 listing may be required by local code.

Gemini Hanging Isolator Kit



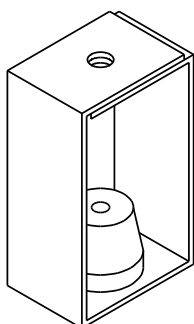
GIK before assembly

The Gemini Hanging Isolator Kit is used for Gemini ceiling and inline units 122 through 740. Bushings are made of resilient thermoplastic. The bushings and eyelets are sized to be used with common 1/4" x 20 all thread. Standard Gemini mounting brackets easily accommodate the isolator bushings. Flanged nuts eliminate the need for additional washers and provide for a more simplified field assembly.

GIK Data

Gemini Series	Rated Load
122-740	160 lbs.

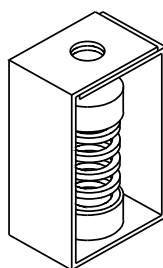
Rubber In Shear Isolator



RIS Data

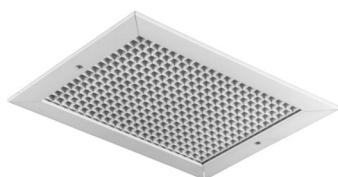
Unit	Rated Load
RC 75	75 lbs.

Spring Isolator - Ceiling Mounted



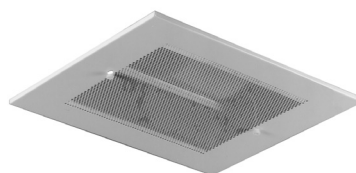
Unit	Rated Load (lbs.)	Spring Rate (lbs./in.)
SC-35	35	23
SC-70	70	51

Deluxe Aluminum Grille



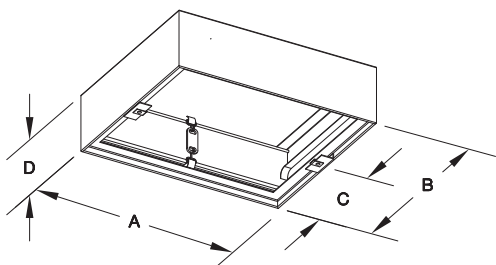
Loren Cook Company offers aluminum grilles for Gemini fans in an attractive, architectural style. These grilles are available in painted white or aluminum finish. The deluxe aluminum grille is not available on GC-1000 or GC-2000 units.

Steel Grille



A painted steel grille is available for the 100, 200, and 300 series fan whenever a steel grille is desired for cosmetic reasons.

Ceiling Radiation Damper

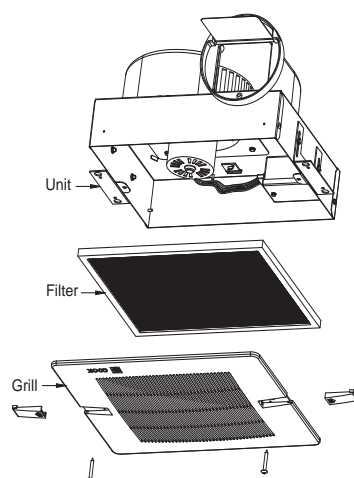


Ceiling Radiation Damper Dimension Data

Gemini Series	Model No.	A	B	C	D
122-184	CRD1	14-1/2	12-3/8	6-3/16	4-3/16
220-240	CRD2	12-5/8	10-1/8	5-1/16	4-3/16
320-340	CRD3	12-5/8	11-1/8	5-9/16	4-3/16
420-740	CRD4	17-5/8	12-1/4	6-1/8	4-3/16

All dimensions in inches. Weights in lbs.

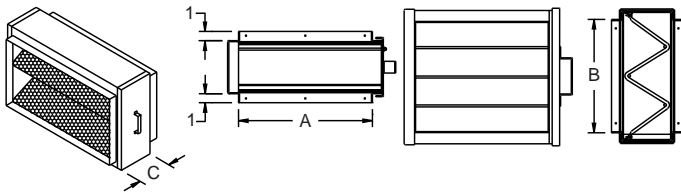
Unit Filter



The grille mounted unit filter is a washable aluminum mesh filter which is placed between the grille and the unit. This filter reduces the accumulation of dirt build-up on the motor and the fan wheel. Dirt build-up on the motor can cause the motor to overheat and fail. Dirt build-up on the fan wheel can reduce performance and cause imbalance which leads to higher noise levels.

ACCESSORIES

Filter Box



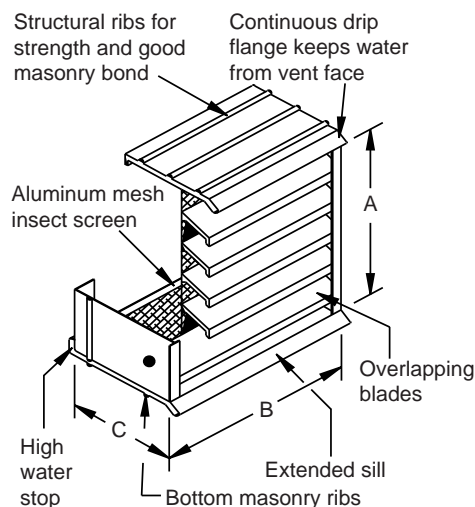
The Gemini Filter Box can be mounted either directly before the Gemini N-Line fan or remotely in the duct work. The Gemini filter box features a removable filter drawer and a washable filter media. The Gemini filter box is constructed of corrosion resistant galvanized steel. Other filter media is available by consulting the factory.

Filter Box Dimension Data

Gemini Series	Filter Unit	A	B	C
220, 240	GFB-200	12-1/16	9-7/16	5
320, 340	GFB-300	12-1/16	10-7/16	5
420-740	GFB-400 - GFB-700	16-11/16	11-11/16	6
822, 842, 862	GFB-800	26-3/4	14-1/4	6
920, 940, 960	GFB-900	30-3/4	14-1/4	6
1000	GFB-1000	37-11/16	14-1/4	6
2000	GFB-2000	45-3/16	15-7/8	6

All dimensions in inches.

Brick Vent



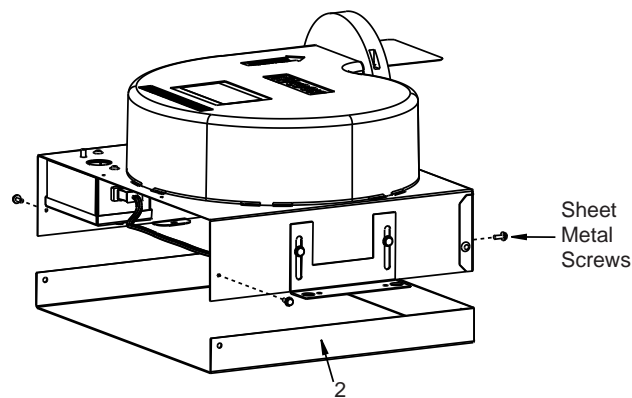
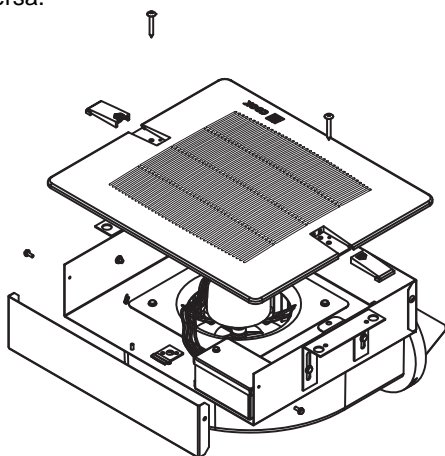
Brick Vent Dimension Data

Gemini Series	Model No.	A	B	C
122-184	BV1	4-3/4	16-1/2	4
220-420	BV2	4-3/4	16-1/2	4
520-720	BV5	7-3/4	16-1/2	4
822-1000	BV8	24	24	2
2000	BV20	30	30	2

All dimensions in inches. Frame and blades are constructed from .125" thick materials. Designed for maximum protection against water entering building with 4" deep frame and 45 degree blades. The vents come standard with clear anodized finish.

Conversion Kits

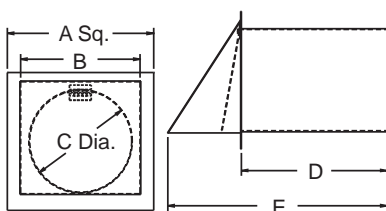
The Gemini Conversion Kits include all the necessary components to field convert a Gemini 100 series fan from a ceiling to inline installation, or vice versa.



Inline to Ceiling Conversion Kit Parts List	
Quantity	Description
1	Inlet Box End Plate
2	Grille Screw Clips
2	Grille Screws
1	Grille

Ceiling to Inline Conversion Kit Parts List	
Quantity	Description
1	Inline Cover Panel

Round Duct Wall Cap with Damper

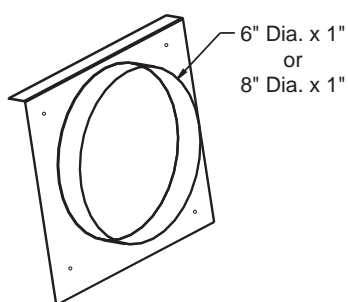


Round Duct Wall Cap w/ Damper Dimension Data

Size	Gemini Series	Model No.	A Sq.	B	C Dia.	D	E
6	122-340	WCR6-Alum.	8	7	6	8-1/2	12-3/4
8	220-520	WCR8-Alum.	10	9	8	8-1/2	14-1/4

All dimensions in inches. Standard construction features - Corrosion resistant aluminum with integral aluminum backdraft damper.

Round Duct Adapter



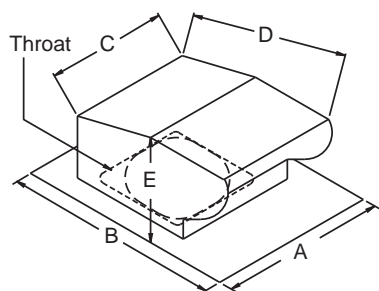
The Gemini 200-500 can be field converted from a rectangular outlet to a round outlet by removing the rectangular damper frame and replacing it with the round duct adaptor.

Round Duct Adapter Dimension Data

Gemini Series	Model No.	Duct Diameter
200-300	RDA-6	6
200-500	RDA-8	8

All dimensions in inches.

Roof Jack



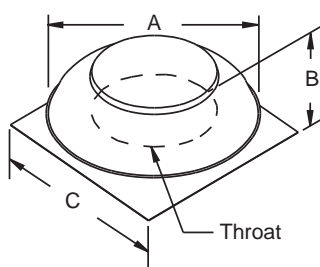
Roof Jack Dimension Data

Gemini Series	Model No.	A	B	C	D	E	Throat Size
122-184	RJR100	14-1/4	18-3/4	10-3/8	14-1/2	6-1/2	6 Dia.
220-520	RJ200	14-1/4	18-3/4	10-3/8	14-1/2	6-1/2	10-1/4 X 10-3/4

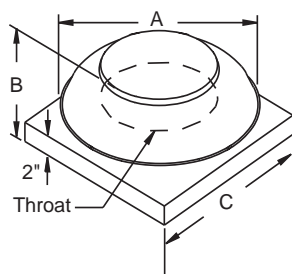
All dimensions in inches.

Standard Construction Features - Corrosion resistant galvanized steel with black baked enamel finish, 1/2" birdscreen. Optional Roof Jack Adapter is available for the RJ200. The Roof Jack Adapter is a transition from the Gemini Fan to the Roof Jack. The RJR100 has an integral 6 inch round adapter for ease of installation of duct.

Roof Cap



Roof Cap - Flat Base



Roof Cap - Curb Mount

Roof Cap Dimension Data

Gemini Series	Model No.	Type	A	B	C	Throat Dia.
122-520	PR8	Curb Mount	18-1/4	10-1/8	18	8-19/32
	PR8F	Flat Base	18-1/4	8-1/8	18	8-19/32
620-740	PR12	Curb Mount	28-1/4	10-5/16	20	12-1/2
	PR12F	Flat Base	28-1/4	8-5/16	20	12-1/2
822-960	PR16	Curb Mount	28-1/4	12-5/8	28	16-1/2
	PR16F	Flat Base	28-1/4	10-5/8	28	16-1/2
1000-2000	PR20	Curb Mount	36-1/2	13-5/8	32	20-1/2
	PR20F	Flat Base	36-1/2	11-5/8	32	20-1/2

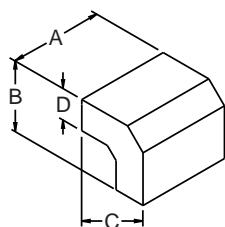
All dimensions in inches.

Standard Construction Features - All aluminum construction, anti-backdraft flange. Available with optional birdscreen.

PR8F, PR12F and PR20F mount directly on the roof with integral flashing. PR8, PR12, PR16 and PR20 are curb mount.

ACCESSORIES

Eave Elbow

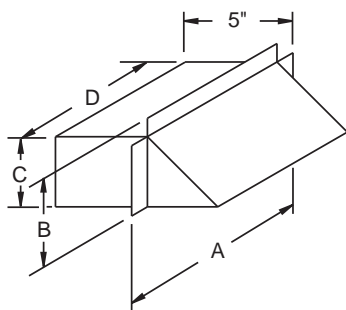


Eave Elbow Dimension Data

Gemini Series	Type	Model No.	A	B	C	D
220-520	Short Eave	SE 2	8-1/8	12-1/4	12-1/4	6-1/8
220-520	Long Eave	LE 2	8-1/8	15-1/2	14	6-1/8

All dimensions in inches.

Wall Cap

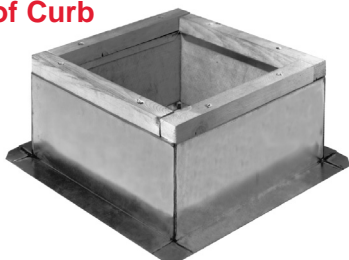


Wall Cap Dimension Data

Gemini Series	Model No.		A	B	C	D
	Galv.	Alum.				
220-520	WCG-2	WCA-2	10-5/16	7-3/16	6-3/8	8-5/16
620-740	WCG-6	WCA-6	12-13/16	6	5	10-13/16
822-860	WCG-8	WCA-8	22-5/16	7-3/16	6-3/16	20-5/16
920-960	WCG-9	WCA-9	26-9/16	7-15/16	6-15/16	24-9/16

All dimensions in inches. Standard Construction Features - Corrosion resistant galvanized steel or aluminum, 1/2" birdscreen.

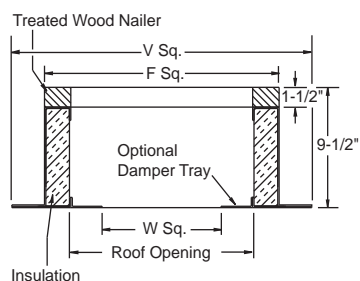
Roof Curb



Roof Curb Dimension Data

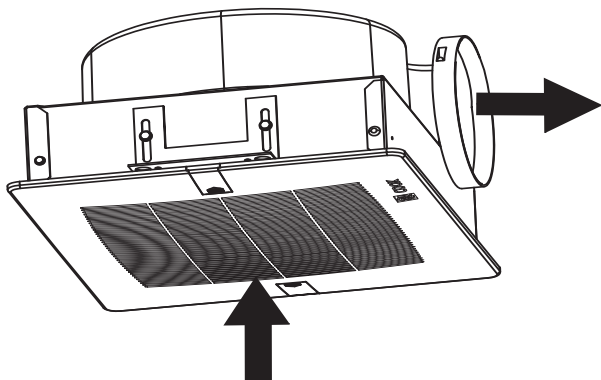
Roof Cap Model No.	Curb Catalog Number		F Sq.	V Sq.	W Sq.	Roof Opening
	Galv.	Alum.				
PR8	RCG-16	RCA-16	16-1/2	20-1/2	9-3/4	13-1/2
PR8F						
PR12						
PR12F	RCG-18	RCA-18	18-1/2	22-1/2	11-3/4	15-1/2
PR16						
PR16F						
PR20	RCG-30	RCA-30	30-1/2	34-1/2	23-3/4	27-1/2
PR20F						

All dimensions in inches. Gravity dampers are not recommended with the Gemini fans. Motorized dampers are available, by consulting factory. Sound curbs available. Contact factory for dimensions.

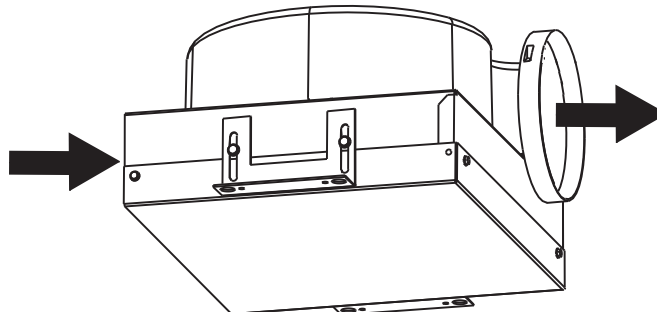


Gemini GC 100 Series

The Gemini GC 100 series fans can be installed as a standard ceiling installation or as an inline installation. The fan can be converted in the field from a standard ceiling construction to an inline construction. Airflow is illustrated by the black arrows.



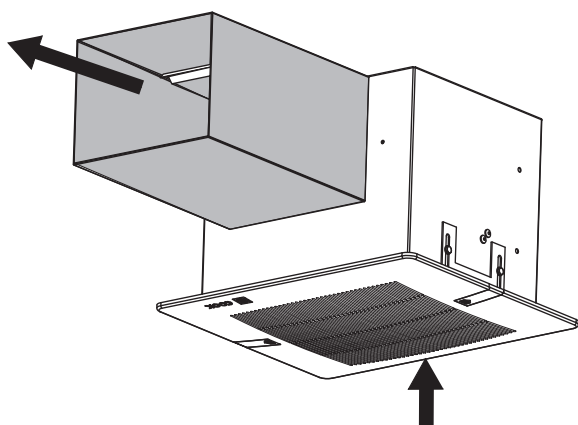
Standard Ceiling Installation



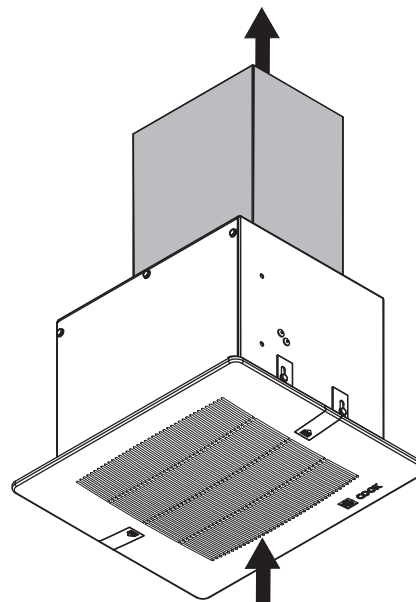
Standard Inline Installation

Gemini 200 - 2000 Ceiling and Inline Series

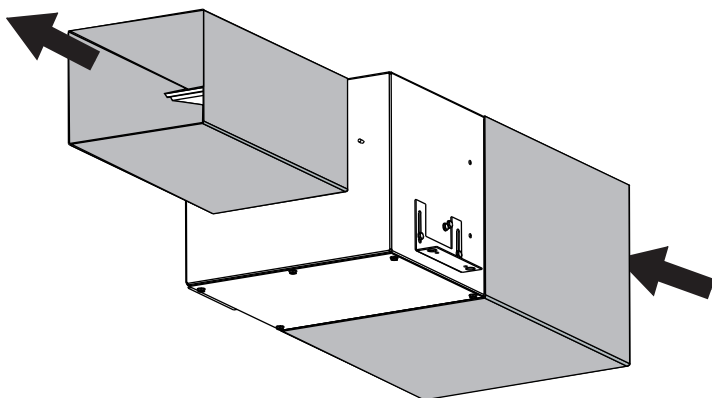
The Gemini 200 - 2000 ceiling and inline series of fans can be installed as a standard ceiling installation or as an inline installation. The fan can be converted in the field from a standard ceiling construction to an inline construction. Airflow is illustrated by the black arrows. Shaded areas illustrate ductwork furnished by the installer.



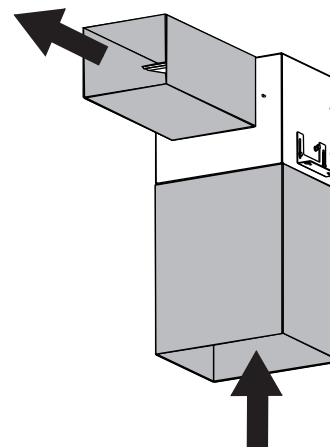
Standard Ceiling Installation



Alternate Ceiling Installation



Standard Inline Installation



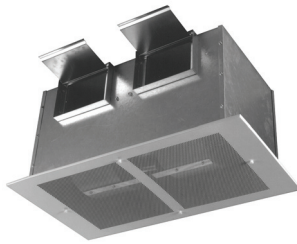
Alternate Inline Installation



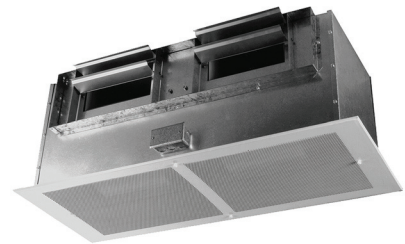
GC 122-184



GC 220-740

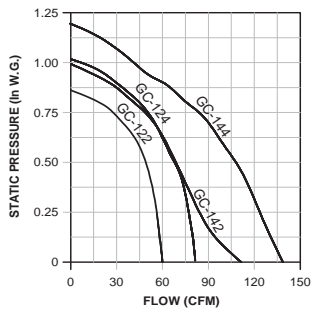


GC 822-960

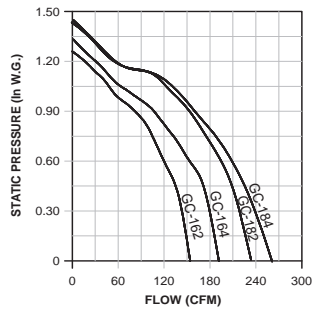


GC 1000-2000

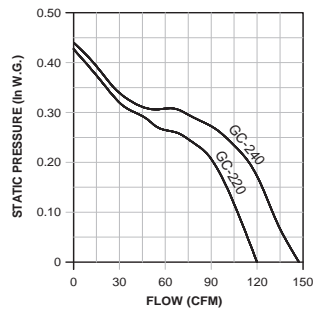
GC 122-144



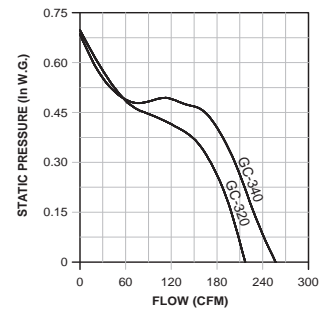
GC 162-184



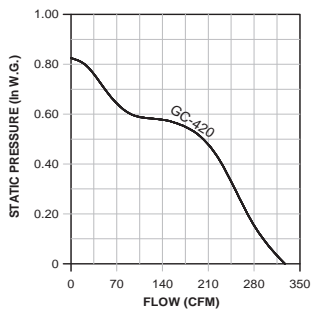
GC 220-240



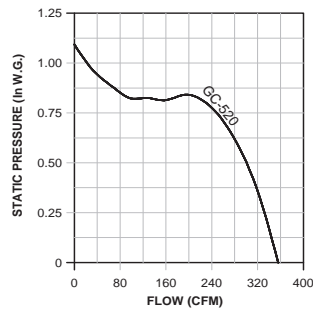
GC 320-340



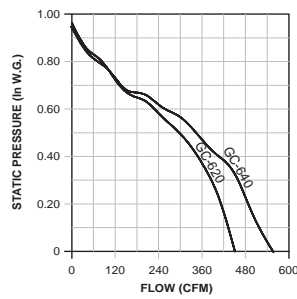
GC 420



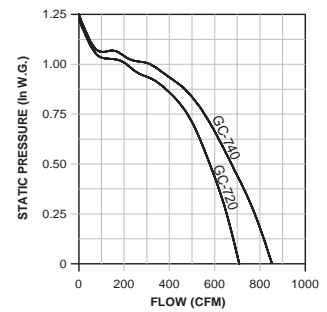
GC 520



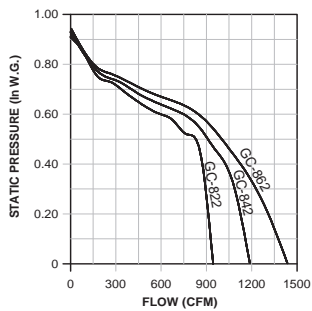
GC 620-640



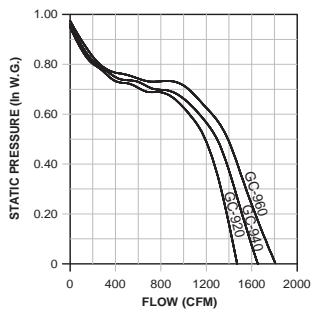
GC 720-740



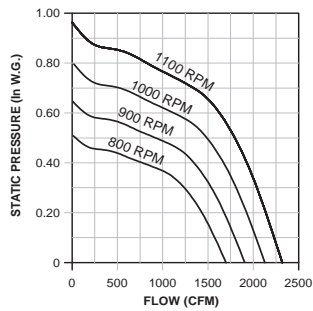
GC 822-842



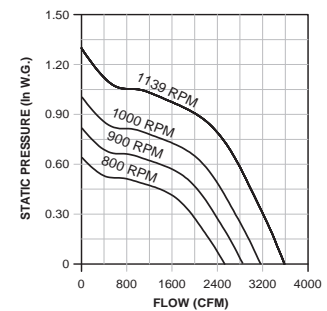
GC 920-960



GC 1000



GC 2000



GC 122 - 184

Model GC	Max. Watts	RPM	HVI Sones†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GC-122	50	800	0.7	60	1.0	59	1.1	58	1.1	56	1.3	53	2.0	49	2.7	42	3.5	28	4.4				
GC-124	64	900	1.1	81	1.5	80	1.6	79	1.6	77	1.7	73	2.1	67	2.7	59	3.3	49	4.2	32	5.2		
GC-142	59	1000	1.1	111	1.6	97	1.7	94	1.7	84	1.9	76	2.2	68	2.7	60	3.4	48	4.5	30	5.7		
GC-144	98	1100	2.0	139	2.8	133	2.9	131	2.9	124	3.0	117	3.2	108	3.4	97	3.7	84	4.2	65	4.8	42	5.5
GC-162	103	1200	2.5	154	3.3	151	3.4	150	3.4	145	3.6	140	3.7	131	3.8	117	4.0	105	4.1	87	4.8	56	5.5
GC-164	145	1300	4.0	190	4.9	186	4.8	185	4.8	180	4.7	174	4.7	166	4.7	148	4.7	131	4.7	110	5.1	78	5.5
GC-182	185	1400	5.5	232	6.9	227	6.9	226	6.8	219	6.8	212	6.7	203	6.6	189	6.5	173	6.4	155	6.3	130	6.2
GC-184	220	1500	6.0	262	7.7	255	7.6	253	7.5	244	7.4	234	7.2	222	7.1	207	6.9	189	6.6	166	6.3	143	6.1

Performance shown is for Installation Type B: Free inlet, ducted outlet. Performance ratings for GC-122 through GC-184 include the effects of inlet grille in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type B: Free inlet hemispherical sone levels. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.

GC 220 - 960

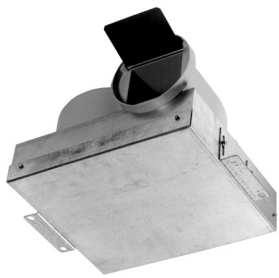
Model GC	Max. Watts/BHP	RPM	HVI Sones†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GC-220	39	1050	0.8	120	1.2	107	1.2	104	1.1	73	1.3												
GC-240	65	1200	1.3	147	2.2	130	1.9	126	1.9	99	1.5												
GC-320	75	1365	3.0	217	4.4	205	4.1	202	4.1	182	3.8	148	3.3										
GC-340	135	1610	3.5	257	4.9	237	4.5	232	4.4	212	4.3	187	4.1										
GC-420	170	1145	3.5	327	5.3	294	4.3	287	4.0	260	3.4	236	2.9	202	2.7								
GC-520	172	1205	4.5	356	5.9	347	5.7	344	5.7	332	5.5	318	5.1	301	4.6	279	4.3	249	4.0				
GC-620	233	960	2.5	451	3.7	433	3.3	428	3.3	400	3.3	359	3.3	297	3.6								
GC-640	351	1075	3.5	559	4.6	520	4.3	512	4.3	476	4.1	429	4.0	346	3.9								
GC-720	301	1375	5.5	709	6.7	687	6.6	682	6.6	653	6.6	619	6.3	578	6.1	535	5.9	480	5.7	385	5.4		
GC-740	374	1625	7.0	852	8.7	823	8.3	815	8.3	775	7.9	727	7.5	672	7.1	616	6.3	552	5.6	463	5.0	303	4.4
GC-822	293	910	3.5	944	4.4	929	4.6	925	4.7	904	5.0	879	4.9	830	4.8								
GC-842	380	974	5.0	1187	6.1	1157	6.2	1149	6.2	1106	6.4	1043	5.9	905	5.5	637	4.7						
GC-862	450	1098	7.0	1433	8.5	1371	8.2	1355	8.2	1266	7.8	1149	6.9	995	6.1	775	5.3						
GC-920	0.28 HP	925	6.0	1471	7.6	1427	7.4	1415	7.3	1356	7.5	1286	7.7	1190	8.1	1003	8.5						
GC-940	0.38 HP	1040	7.5	1653	9.2	1582	8.8	1565	8.8	1481	8.6	1400	8.4	1293	8.6	1089	8.7						
GC-960	0.48 HP	1112	8.0	1807	10.3	1716	9.7	1694	9.6	1588	9.1	1491	8.7	1386	8.6	1197	8.5						

Performance shown is for Installation Type B: Free inlet, ducted outlet. Performance ratings for GC-220 through GC-960 include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type B: Free inlet hemispherical sone levels. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.

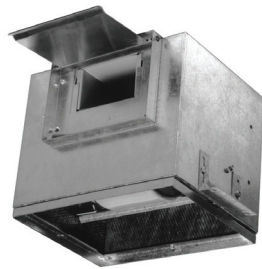
GC 1000 - 2000

Model GC	Max. BHP	RPM	HVI Sones†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GC1000	0.58	1100	6.5	-	-	2230	7.8	2207	7.8	2090	7.6	1958	7.1	1796	6.7	1575	6.6	1090	6.6				
	0.43	*1000	5.0	-	-	2010	6.4	1985	6.4	1852	6.1	1692	5.6	1470	5.4								
	0.32	*900	4.0	-	-	1788	5.2	1759	5.1	1604	4.7	1391	4.3	905	4.2								
	0.22	*800	3.0	-	-	1562	3.9	1529	3.9	1334	3.2	946	3.1										
GC2000	1.18	1140	9.0	-	-	3472	10.9	3441	10.9	3282	10.8	3105	10.6	2925	10.4	2736	10.2	2503	10.0	2147	9.9	1431	9.7
	0.80	*1000	7.0	-	-	3014	8.8	2978	8.7	2787	8.6	2582	8.3	2364	8.1	2064	7.9	1408	7.7				
	0.58	*900	6.0	-	-	2683	7.5	2642	7.5	2421	7.3	2190	6.9	1878	6.7	1115	6.5						
	0.41	*800	5.0	-	-	2347	6.3	2299	6.3	2045	5.9	1739	5.6										

Performance ratings for GC-1000 and GC-2000 is for Installation Type B: Free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The AMCA Certified Ratings Seal applies to air performance ratings only. *GC 1000 and GC 2000 RPM shown with optional FSC. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.



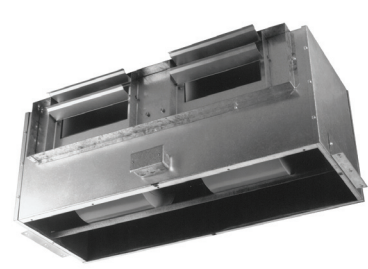
GN 122-184



GN 220-740

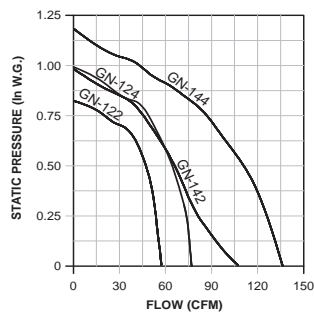


GN 822-960

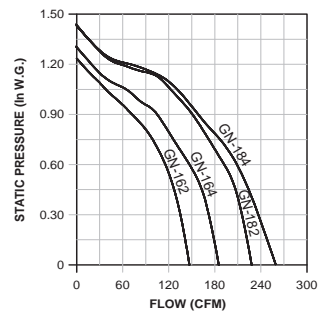


GN 1000-2000

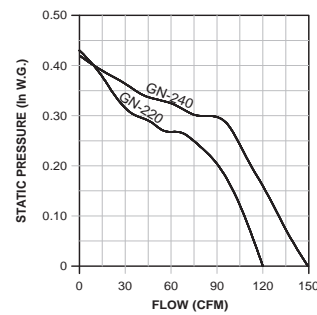
GN 122-144



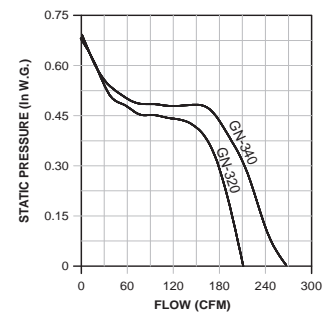
GN 162-184



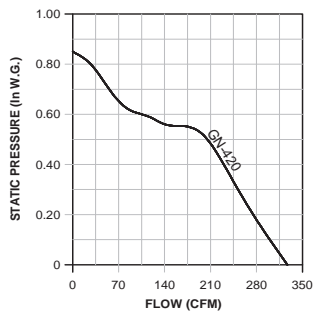
GN 220-240



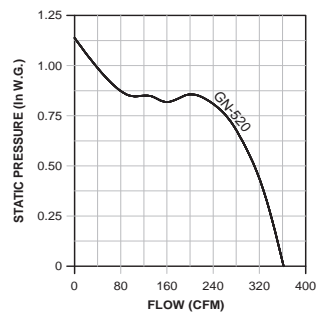
GN 320-340



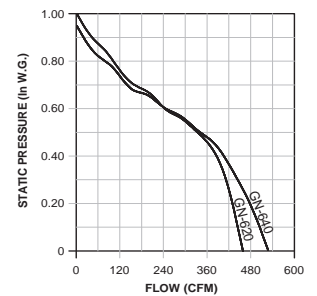
GN 420



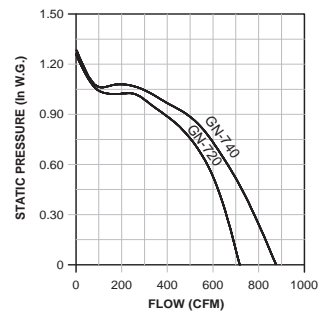
GN 520



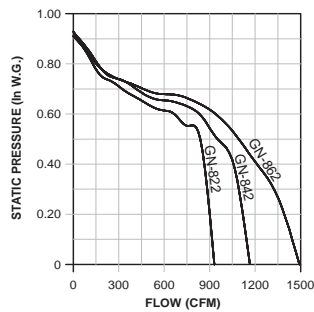
GN 620-640



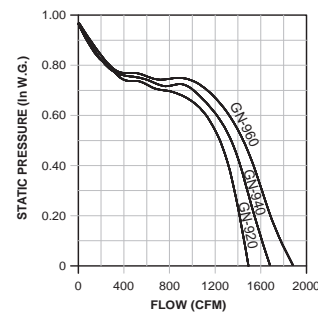
GN 720-740



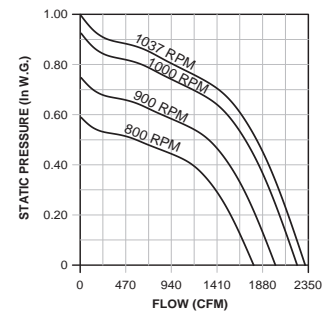
GN 822-862



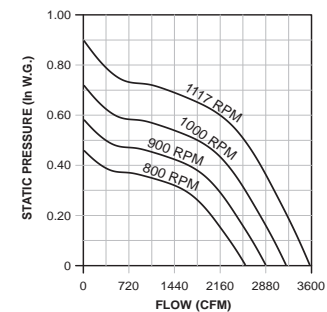
GN 920-960



GN 1000



GN 2000



GN 122 - 184

Model GN	Max. Watts	RPM	HVI Sones†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GN-122	49	800	0.3	57	0.4	56	0.6	55	0.6	53	0.8	51	1.2	47	1.7	40	2.5						
GN-124	65	900	0.5	77	0.7	76	0.9	76	0.9	74	1.1	70	1.4	64	1.7	57	2.7	49	4.2				
GN-142	58	1000	0.6	107	0.9	95	1.0	92	1.0	81	1.3	73	1.5	65	1.8	56	2.2	45	2.9				
GN-144	100	1100	1.5	136	1.9	132	2.0	131	2.0	126	2.2	119	2.3	110	2.5	99	2.7	86	3.2	67	3.8	42	4.6
GN-162	102	1200	1.5	147	1.9	143	2.1	142	2.1	137	2.3	132	2.4	124	2.5	113	2.7	99	3.0	78	3.3	50	3.7
GN-164	142	1300	2.5	186	3.0	182	3.1	181	3.1	175	3.1	169	3.2	160	3.2	144	3.2	127	3.3	110	3.6	78	3.8
GN-182	189	1400	4.5	228	6.0	224	5.7	223	5.7	218	5.3	212	5.1	203	4.9	189	4.7	172	4.5	155	4.3	132	4.2
GN-184	224	1500	5.0	260	6.4	253	6.2	251	6.1	241	5.8	231	5.4	220	5.1	206	4.8	187	4.7	163	4.5	141	4.4

Performance shown is for Installation Type D: Ducted inlet, ducted outlet. Performance ratings for GN-122 through GN-184 do not include the effects of appurtenances in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type D: Ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.

GN 220 - 960

Model GN	Max. Watts/ BHP	RPM	HVI Sones†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GN-220	40	1050	1.0	120	1.3	108	1.5	104	1.5	75	2.3												
GN-240	54	1260	1.5	149	2.4	130	2.2	126	2.3	103	2.3												
GN-320	77	1360	1.5	212	2.3	202	2.3	200	2.1	186	2.0	165	2.3										
GN-340	137	1625	2.5	266	3.6	241	3.3	237	3.2	220	2.8	194	2.4										
GN-420	172	1075	1.4	327	2.8	300	2.0	294	1.9	263	1.4	236	1.3	205	1.2								
GN-520	171	1200	2.5	362	3.7	354	3.5	351	3.5	340	3.2	327	2.9	311	2.6	291	2.4	262	2.3				
GN-620	245	950	1.0	459	1.7	445	1.5	441	1.4	421	1.2	394	1.2	334	1.3								
GN-640	350	1000	1.1	526	1.8	502	1.6	496	1.6	459	1.4	413	1.3	336	1.5								
GN-720	323	1325	2.5	717	3.7	698	3.6	693	3.6	669	3.5	641	3.3	608	3.0	565	2.9	504	2.8	411	2.7	288	2.6
GN-740	398	1600	4.0	873	5.4	842	5.2	834	5.2	794	4.9	751	4.6	703	4.3	648	3.8	587	3.4	504	3.1	353	2.7
GN-822	309	904	2.0	931	2.6	916	2.7	912	2.7	892	2.9	870	2.9	838	3.1								
GN-842	387	976	3.0	1160	3.8	1138	3.8	1132	3.8	1102	3.8	1063	3.7	942	3.7	752	3.0						
GN-862	490	1082	4.5	1492	5.6	1445	5.4	1432	5.4	1362	5.1	1244	4.6	1092	4.0	880	3.2						
GN-920	0.28 HP	900	3.0	1493	4.1	1454	3.9	1444	4.0	1392	4.3	1332	4.6	1242	4.9	1076	5.3						
GN-940	0.38 HP	1000	4.0	1679	5.3	1608	5.2	1591	5.2	1511	5.1	1433	5.3	1336	5.4	1164	5.6						
GN-960	0.50 HP	1105	5.0	1875	6.5	1765	6.2	1741	6.1	1638	5.9	1547	5.7	1436	5.8	1272	5.9						

Performance shown is for Installation Type D: Ducted inlet, ducted outlet. Performance ratings for GN-220 through GN-960 include the effects of a backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type D: Ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction. Ratings are based on insulated inlet duct. The AMCA Certified Ratings Seal applies to air performance ratings only. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.

GN 1000 - 2000

Model GN	Max. BHP	RPM	HVI Sones†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GN1000	0.58	1100	6.5	-	-	2230	7.8	2207	7.8	2090	7.6	1958	7.1	1796	6.7	1575	6.6	1090	6.6				
GN1000	0.43	*1000	5.0	-	-	2010	6.4	1985	6.4	1852	6.1	1692	5.6	1470	5.4								
GN1000	0.32	*900	4.0	-	-	1788	5.2	1759	5.1	1604	4.7	1391	4.3	905	4.2								
GN1000	0.22	*800	3.0	-	-	1562	3.9	1529	3.9	1334	3.2	946	3.1										
GN2000	1.18	1140	9.0	-	-	3472	10.9	3441	10.9	3282	10.8	3105	10.6	2925	10.4	2736	10.2	2503	10.0	2147	9.9	1431	9.7
GN2000	0.80	*1000	7.0	-	-	3014	8.8	2978	8.7	2787	8.6	2582	8.3	2364	8.1	2064	7.9	1408	7.7				
GN2000	0.58	*900	6.0	-	-	2683	7.5	2642	7.5	2421	7.3	2190	6.9	1878	6.7	1115	6.5						
GN2000	0.41	*800	5.0	-	-	2347	6.3	2299	6.3	2045	5.9	1739	5.6										

Performance ratings for GN-1000 and GN-2000 is for Installation Type B: Free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The AMCA Certified Ratings Seal applies to air performance ratings only. *GN 1000 and GN 2000 RPM shown with optional FSC. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.



LOREN COOK COMPANY

2015 E. DALE STREET
SPRINGFIELD, MO 65803-4637

417.869.6474

FAX 417.862.3820

lorencook.com