



CONFINED SPACE – BLOWERS

OVERVIEW

Stemar has a wide variety of blowers sized 8" to 26" (848 to 9,570 CFM) mainly used for confined space ventilation. Smaller axial blowers come with a convenient "all in one" option for smaller confined spaces, like manholes. Larger axial blowers come housed in 16 gauge cold rolled steel for longevity and durability. Centrifugal blowers are available for when a higher air velocity is needed to push air flow through a multiple lengths of ducting hose.

Ventilation is a core competent of confined space safety. Proper ventilation mitigates danger from low oxygen levels, high CO2 levels, and other toxic materials, fumes, and vapors. Lack of proper ventilation can result in serious injury or death.

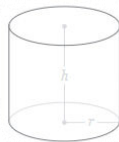
The metric used for ventilation is ACH, *Air Changes per Hour*: how many times will the air in the confined space be completely exchanged with fresh air per hour.

Stemar recommends an exchange rate of at least 20 ACH, which equates to one complete air exchange every 3 minutes.

Solve for volume ~

$$V = \pi r^2 h$$

(for manholes)



The formula to calculate ACH is as follows:

$$\text{ACH} = (\text{CFM} \times 60) / \text{Volume (V) of Confined Space (in cubic feet)}$$



**PICTURED MODELS
ARE KEPT IN STOCK:
LOS ANGELES, CA
RENT, BUY, REPAIR**

**CALL US TODAY:
800-992-0100**



CONFINED SPACE – BLOWERS SPECIFICATIONS

8" PLASTIC BLOWER "ALL IN ONE"

Compact-ability is King!

Our second generation 8" blower utilizes a quick-connect clipping system allowing one to quickly attach the ducting and canister, tool-free, to either the input side for powerful extraction or the output side for ventilation.

Designed to work independently – or with the canister and ducting, the WHIRL GEN-2 is a breeze to set-up and break down as it eliminates the need for a separate duct storage containment device.

WHIRL GEN-2 FEATURES:

- Weighs only 16 lbs. (7kg)
- CFM rating of 848 (24 m³/min).
- Stackable (increases capacity, reduced storage space).
- Canister w/ 25' duct attaches "tool-free" to unit.
- Connect up to 50 feet (15 m) of straight duct.

DIMENSIONS

Fan Type	Axial Blower/Extractor
Size	8" diameter (203 mm)
Weight	16 lbs. (7 kg)
Height	14" (356 mm)
Length	13" (330 mm)
Width	13" (330 mm)

MOTOR SPECIFICATIONS

Voltage	AC 115V
Phase	Single
Frequency	60 Hz
Electric Motor	1/3 hp
Current (amps)	2.4
R.P.M.	3450
Max. S.P.	1.8"

AIR FLOW RATES

	CFM	m ³ /min.
Free Air	848	24

8" WHIRL GEN-2

STEMAR Rental

Class No.

N/A

STEMAR Sales

Item No.

BLOWER113



FOR USE IN NON-EXPLOSIVE ENVIRONMENTS ONLY



C.H. HANSON
Since 1866 • Tools for Generations™



CONFINED SPACE – BLOWERS

SPECIFICATIONS

8" METAL BLOWER "ALL IN ONE"

ALLEGRO®
I N D U S T R I E S

GENERAL DESCRIPTION:

High output from a compact axial blower, designed for easy use and storage without sacrificing airflow.

CONSTRUCTION:

- Epoxy powder coated in "safety orange"
- Flange on intake
- 18 gauge cold rolled steel housing
- 14-gauge steel enclosed panel to protect electrical components
- Welded motor mount construction
- Steel/chrome plated grill
- Handle made of 3-ply rubber belting and equipped with 4 feet

MOTOR:

HP: 1/3 HP
 Certifications: UL Recognized, CSA Certified
 Voltage/Hz: 120V AC, 60Hz Single Phase
 RPM: 3200
 Current Draw: 3.0A
 Cord: 6' (1.82 m) AWG 16/3 SJTW 105C 300V neoprene medium duty
 Switch/Plug: Inline ON/OFF, integrated on cord, NEMA 5-15P 125V



FAN:

- Glass reinforced polypropylene (PPG) six blade fan with aluminum hub
- Moving fan mounted 1 5/8" (4.12 cm) from grill for safety, 5/16" (0.79 cm) grill gap

DUCTING:

- Retractable, non-collapsible design
- Single-ply, PVC coated, vinyl and polyester materials, temp. resistant up to 180° F (82.2° C)
- Yellow color with black weather-strip and integrated nylon straps
- Class 1 hard drawn spring steel wire helix that meets ASTM 227 specs

BLOWER DIMENSIONS:

Length In (cm)	Width In (cm)	Height In (cm)	Weight Lbs (Kg)
14" (35.5)	13 5/8" (34.6)	15" (38.1)	19 (8.6)
28" (71.1)	13 5/8" (34.6)	15" (38.1)	32 (14.5)
36" (91.4)	13 5/8" (34.6)	15" (38.1)	40 (18.1)

FLOW RATES: (CFM calculated using 15' (4.57 m) of 8" (20.3 cm) ducting):

Free Air CFM (m³/hr)	One 90° Bend CFM (m³/hr)	Two 90° Bend CFM (m³/hr)
1275 (2166.23)	661 (1123.04)	582 (988.82)



CONFINED SPACE – BLOWERS *SPECIFICATIONS*

8" RADIAL BLOWER 115V



AIR FLOW RATES

CONFIGURATION	ACFM 15 FT DUCT
Free Air	1277.4 CFM (35.7 CMM)
One 90° Bend	738 CFM (20.7 CMM)
Two 90° Bend	578.8 CFM (16.2 CMM)

8" EP8 115V

STEMAR Rental
Class No.

8612

STEMAR Sales
Item No.

BLOWER105

Designed to accommodate most nonhazardous confined space ventilation requirements where the use of a electric motor is desirable or required. Heavy duty, cast aluminum blower housing for exceptional resistance to damage. Convenient carry handle while on the jobsite. MultiVane type blower wheel delivers higher flow rates at increased static pressures. Air flow rates are certified by an independent laboratory. Utilizes nonhazardous location-type ducts in 15 and 25 foot (4.6 and 7.4 m) lengths. Less ventilation duct.

FEATURES

- Cast aluminum blower construction
- Rugged sheet metal frame
- Protected switch and fuse
- Heavy-duty protective screens

SPECIFICATIONS

Operating Environments	Nonhazardous type locations
Electric Motor	1/3HP, (23kw), 115 VAC, 60 Hz, single speed
Nominal Diameter	8 inches (203 mm)
Housing Construction	Cast aluminum
Fan Construction	Steel MultiVane
Dimensions	18-1/4" (464 mm) L x 14-1/2" (268 mm) W x 19-3/4" (502 mm) H
Weight	53 lbs (24 kg)



**VENTILATION
NONHAZARDOUS LOCATION**



Blower / Ducting Hoses are
rented/sold separately:
Stemar Rental Class No. 8617
Stemar Sales Item No. BLOWER201



CONFINED SPACE – BLOWERS *SPECIFICATIONS*

8" GAS BLOWER - HONDA / BRIGGS



VENTILATION

NONHAZARDOUS LOCATION



AIR FLOW RATES

CONFIGURATION	ACFM 15 FT DUCT
Free Air	1561.6 CFM (44.2 CMM)
One 90° Bend	1178.1 CFM (33.3 CMM)
Two 90° Bend	1066.2 CFM (30.2 CMM)

8" GP8 / GP8H

STEMAR Rental
Class No.

8611

STEMAR Sales
Item No.

BLOWER110

BLOWER115

Designed to accommodate most nonhazardous confined space ventilation requirements where the use of a gasoline engine is desirable or required. Heavy duty, cast aluminum blower housing for exceptional resistance to damage. Convenient carry handle while on the jobsite. Cast impeller-type blower wheel delivers higher flow rates at increased static pressures. Spring mounted frame assembly reduces engine vibrations. Air flow rates are certified by an independent laboratory. Utilizes nonhazardous location-type ducts in 15 and 25 foot (4.6 and 7.4 m) lengths. Less ventilation duct.

FEATURES

- Cast aluminum construction
- Rugged spring mounted frame
- Adjustable speed control
- Heavy-duty protective screens

SPECIFICATIONS

Operating Environments	Nonhazardous type locations
Engine	3.5 HP (2.4kw), Honda, GX120, 4-Stroke, RPM: 3600, speed control: manual.
Nominal Diameter	8 inch (203 mm)
Housing Construction	Cast aluminum
Fan Construction	Cast aluminum
Mounting Type	Spring anti-vibration
Dimensions	Height: 20-1/2 inch (521 mm) Length: 18 inch (457 mm) Width: 16-1/4 inch (413 mm)
Weight	56 lbs (25 kg)



Blower / Ducting Hoses are
rented/sold separately:



Stemar Rental Class No. 8617

Stemar Sales Item No. BLOWER201





CONFINED SPACE – BLOWERS SPECIFICATIONS

12" BLOWER USA 115V

Industrial Ventilator

The Next Generation.

Ideal for use in confined space areas that require the toughest ventilator around. The newly designed VELOCITY will handle your most demanding industrial needs.

Regardless of your industry or application (shipyard, water restoration, manufacturing, underground utility work, or tank purging). VELOCITY will outperform similar ventilators in the industry.

VELOCITY Features:

- Weighs only 32 lbs (15 kg).
- CFM rating of 2518 (72 m³/min).
- Stackable (increases capacity, reduces storage space).
- Connect up to 125' (38 m) of straight duct.

DIMENSIONS

Fan Type	Axial Blower/Extractor
Size (diameter)	12" (305 mm)
Weight	32 lbs. (15 kg)
Height	21" (533 mm)
Length	19" (483 mm)
Width	15" (381 mm)



MOTOR SPECIFICATIONS

Voltage	AC 115V	AC 230V
Phase	Single	Single
Electric Motor	1 hp (.75 kW)	1 hp (.75 kW)
Frequency	50/60 Hz	50 Hz
Current (amps)	8.0/5.7	4.2
R.P.M.	2800/3300	2850
Max. S.P.	3"	2.5" (68 mm/Aq)

**FOR USE IN NON-EXPLOSIVE
ENVIRONMENTS ONLY**



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12" VELOCITY *USA*

STEMAR Rental

Class No.

8613

STEMAR Sales

Item No.

BLOWER106



Available in 115V (83003) and 230V (83004). This unit can be customized with your company color and logo. Ask us for details.





CONFINED SPACE – BLOWERS *SPECIFICATIONS*

16" STORM PLUS BLOWER 115V

Structural Drying & High Capacity Ventilator

Maximum airflow for hard to reach areas.

DUCTABLE!

The STORM PLUS utilizes a full 1 hp motor thus creating a much higher static pressure. This unit is designed to move large volumes of air through ducting for those hard to reach areas such as attics or crawl spaces.

STORM PLUS Features:

- Full 1 hp motor.
- Ductable.
- Dual wall, high-density polyethylene shell.

16" STORM-PLUS

STEMAR Rental

Class No.

8610

STEMAR Sales

Item No.

BLOWER108

AIR FLOW RATES

	CFM	m ³ /min.
Free Air	3648	103

DIMENSIONS

Fan Type	Blower/Extractor
Size	16" diameter (407 mm)
Weight	40 lbs (18 kg)
Height	22" (559 mm)
Length	20" (508 mm)
Width	16" (407 mm)

MOTOR SPECIFICATIONS

Voltage	AC 115V
Phase	Single
Frequency	60 Hz
Electric Motor	1 hp
Current (amps)	9
R.P.M.	3450
Max. S.P.	1.6"



FOR USE IN NON-EXPLOSIVE ENVIRONMENTS ONLY



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CONFINED SPACE – BLOWERS

SPECIFICATIONS

20" AXIAL BLOWER - METAL

ALLEGRO®
I N D U S T R I E S

CONSTRUCTION:

Intended for large confined spaces this 20" (50.8 cm) blower can be used for ventilating or extricating air. Certified to CSA Standard C22.2 No.113.

- Complete unit epoxy powder coated in orange
- Interchangeable flange for intake or exhaust side mounting
- 16 gauge cold rolled steel housing
- 3/16" (0.476 cm) steel bolted motor base
- Integrated carrying handles
- Steel/chrome plated grill
- Equipped with four rubber feet

MOTOR:

HP: ½ HP
Certifications: UL Recognized, CSA Certified
Voltage/Hz: 115V AC, 60 Hz, Single Phase
Max RPM: 1725
Current Draw: 7.2A
Cord: 25' (7.62 m) 16/3 AWG, SJTW 90C 300V
Plug: NEMA 5-15 (Grounded three-prong)

FAN:

- Glass reinforced Polypropylene (PPG) three blade fan, with aluminum hub
- Moving fan mounted 1 5/8" (4.12 cm) from grill for safety, grill gap-5/16" (0.79 cm)

DUCTING: (Optional)

- Retractable, non-collapsible design
- Single-ply, PVC coated, vinyl and polyester materials, temperature resistant up to 180°F (82.2°C)
- Yellow color with black weather-strip and integrated nylon straps
- Class 1 hard drawn spring steel wire helix that meets ASTM 227 specs

BLOWER DIMENSIONS:

Length In. (cm)	Width In. (cm)	Height In. (cm)	Weight Lbs. (Kg)
19" (48.2 cm)	22" (55.8 cm)	22 ½" (57.1 cm)	56 lbs (25.4 kg)

FLOW RATES: (CFM calculated using 15' (4.75 m) of 20" (50.8 cm) ducting)

Free Air CFM (m³/hr)	One 90° Bend CFM (m³/hr)	Two 90° Bends CFM (m³/hr)
4650 (7900.39)	3150 (5351.88)	2950 (5012.08)

20" AXIAL BLOWER

STEMAR Rental

Class No.

8614

STEMAR Sales

Item No.

BLOWER112





CONFINED SPACE – BLOWERS

SPECIFICATIONS

ALLEGRO[®]
I N D U S T R I E S



26" AXIAL BLOWER

STEMAR Rental

Class No.

9000

STEMAR Sales

Item No.

BLOWER111

GENERAL DESCRIPTION:

Our largest Ventilation Blower features a high powered motor providing the highest CFM output of any of our blowers. It is ideally suited for large confined spaces such as paper mills, tank purging or utility sites that require a maximum amount of output.

CONSTRUCTION:

- Complete unit epoxy powder coated in "safety orange"
- Interchangeable flange for intake/exhaust side mounting
- 16 gauge cold rolled steel housing
- 3/16" (0.476 cm) motor base
- Bolted motor mount construction
- Integrated carrying handles
- Steel/zinc plated grill
- Equipped with four rubber feet
- On/off switch box mounted to chassis



VENTILATION

NONHAZARDOUS LOCATION

MOTOR:

HP: 2 HP, Single Phase, Thermally Protected
Volts: 115/230VAC, 60 Hz
Max RPM: 1725
Amps: 18.5A (115VAC), 9.3A (230VAC)
Cord: 12' (3.66 m) 12/3 AWG, SJOOW Neoprene 300V medium duty
Plug: NEMA 5-30P or NEMA 6-30P (Twist Lock type)

FAN:

- Glass reinforced polypropylene (PPG) three blade fan with aluminum hub
- Moving fan mounted 3" (7.62 cm) from grill for safety, grill gap-5/16" (0.79 cm)



BLOWER DIMENSIONS:

Length	Width	Height	Weight
19" (48.3 cm)	28" (71.1 cm)	28 ½" (72.4 cm)	105 lbs. (47.6 kg)

FLOW RATES: (CFM calculated using 15' (4.75 cm) of 26" (66.04 cm) ducting)

Free Air CFM (m³/hr)	One 90° Bend CFM (m³/hr)	Two 90° Bends CFM (m³/hr)
9570 (16,259.52)	8610 (14,628.47)	7750 (13,167.33)



BLOWER HOSES & COUPLERS

SPECIFICATIONS



BLOWER HOSES

SIZE x LENGTH	STEMAR Rental Class No.	STEMAR Sales Item No.
8"x25'	8617	BLOWER201
12"x25'	8619	BLOWER203
12"x50'	-	BLOWER202
16"x25'	8624	BLOWER204
20"x25'	8626	BLLOWER208
26"x25'	9001	BLOWER207

SPECIFICATIONS

	STANDARD	REFERENCE
Tensile Strength	Warp 125/Fill 110	FED STD 191-5100
Tear Strength	Warp 41/Fill 36	FED STD 191-5513
Temperature Range	-20°F to +180°F (-29°C to +82°C)	
Flame Resistance	California T-19; UL94VO; UL94VTM-0; NFPA 701	
Ozone Protection	Inherently resistant to deterioration	
Operating Environment	Nonhazardous Type Locations	
Nominal Diameters	8 inches (203 mm) and 12 inches (305 mm)	

FEATURES

- Heavy Duty Construction
- Spiral Wire Reinforcement
- High Retraction Ratio
Minimizes Storage Size
- Attach Strap and Nylon
Ring End Cuffs

STEMAR BLOWER / DUCTING HOSES

Available in 25' lengths for each model, our ducting is made of flexible, light duty vinyl woven polyester.

Each duct easily expands and retracts and is designed to handle large volumes of air at relatively low pressure.

STEMAR's ducting is flame-retardant and connects easily to the ventilators for both positive and/or negative airflow.



DUCT COUPLERS

When connecting one piece of duct to the next, use these galvanized corrosion resistant couplers to achieve any length desired.