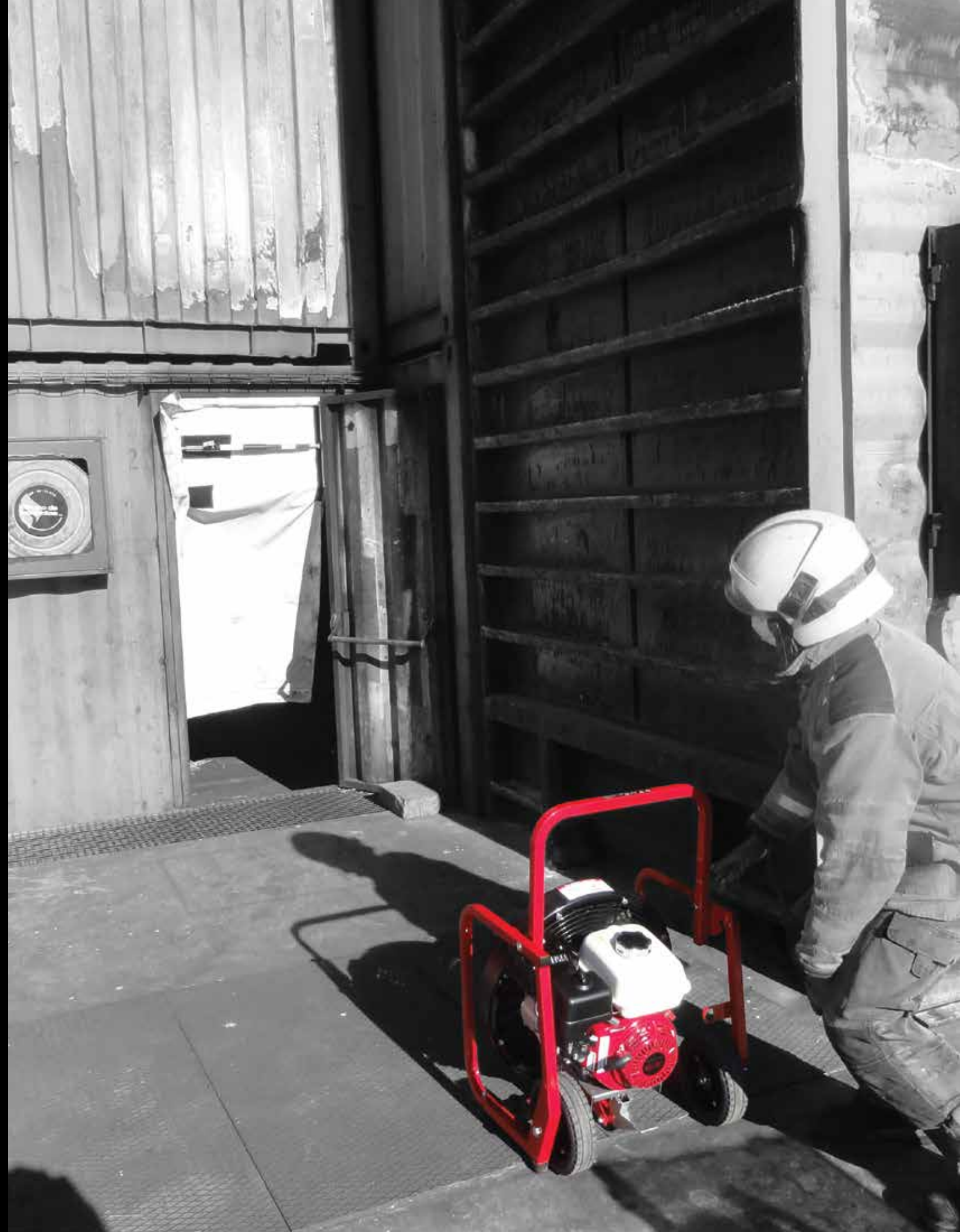




RAMFAN[®]
VENTILATORS
2016 Master Catalog



«ABOUT US

For more than 20 years, Euramco Safety has served customers in the production of equipment used in some of the most dangerous environments on earth. You will find our equipment in potentially explosive atmospheres where flammable gases, vapors, mists, and dusts exist. Given a source of ignition, these substances can detonate and destroy life and property in seconds. Our fans can be found at the doorsteps of buildings on fire. Firefighters, using the latest ventilation techniques, deploy our fans to safely control the flow path and eject smoke from the buildings. You will find our products at confined spaces, which by design have limited openings for entry and exit with unfavorable natural ventilation which could contain or produce dangerous air contaminants.

We take the hazards of these situations seriously and make your safety a priority. We have established processes in manufacturing, quality management, logistics and after sales service to help ensure the safety and satisfaction of firefighters, roughnecks, military, construction workers and all others using our equipment in dangerous environments.

MANUFACTURING

Euramco Safety's global headquarters is located in Spring Valley, CA, and operates manufacturing and distribution facilities in Contern, Luxembourg, Ningbo, China, and Dubai Logistics City, Dubai, UAE. Our company, rooted deeply in pump and turbine support services for the US Navy, was founded on principles of precision engineering, manufacturing expertise, and technical service competency.

Our engineering teams apply their collective experiences to ensure quality, performance and value is designed into every component on the bill of materials.

QUALITY MANAGEMENT

The quality systems of this facility have been registered by UL to the ISO 9001: 2008 Standards since 2004. With twelve consecutive audits successfully completed since, our team has evolved into a well-tuned machine where continuous product and process improvement, throughout all of our global locations, are embedded in our operational culture.

Our Quality Management Process covers the entire supply chain for all critical components, and is certified by DQS. This is a critical part of our commitment to our customers operating in hazardous locations, where our attention to precise detail is critical to the safety of their teams and their facility.

LOGISTICS

We use proprietary algorithms automating internal product movement between production and distribution centers, optimizing inventory levels to nominal demand, by region.

We have regionalized customer service contact points to better serve our customers.

AFTER-SALES SERVICE

We offer an extended warranty on products, not because we have to but because we believe in the quality of our products and stand behind them.

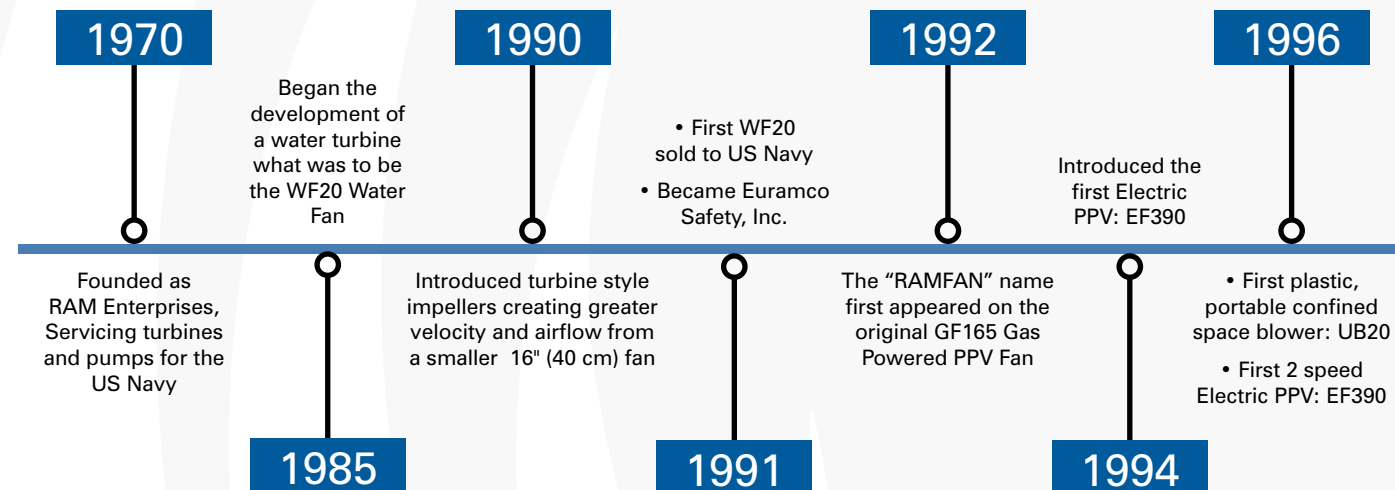
Field service engineers are available to help discuss how our products you purchased can be used. Competent sales engineers are ready to support via phone, email or live messaging. Whether you are a first time customer or still using our reliable fans sold over 20 years ago, we've always sought to provide the best service.

TOGETHER WE'LL ACHIEVE MORE

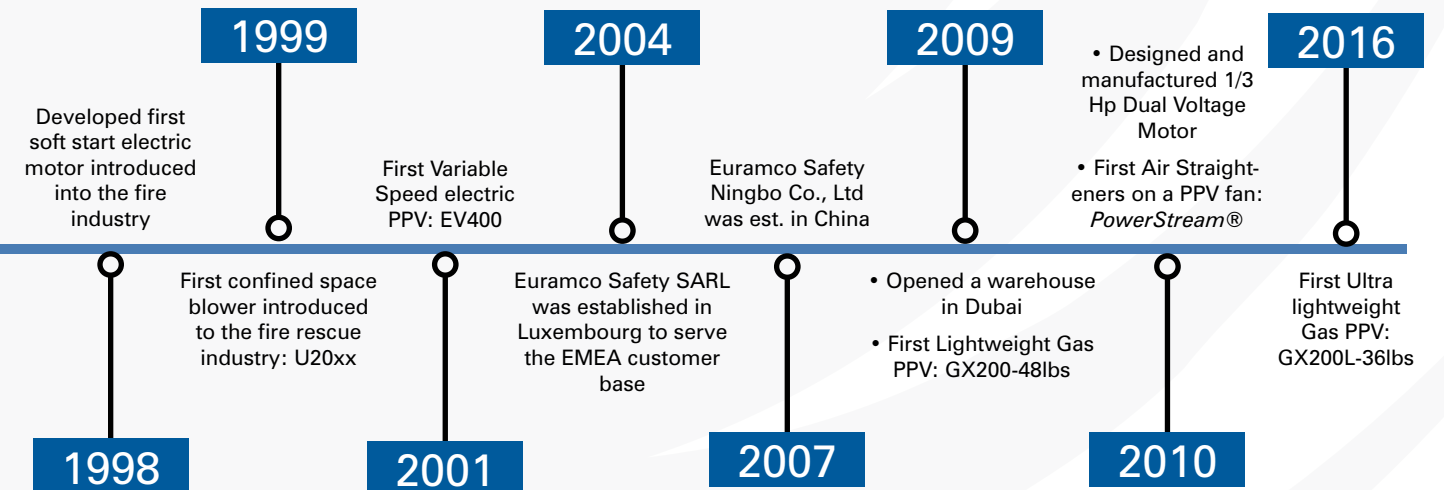
Our strong foundation is built on your trust in us. We've rewarded your trust by continually introducing innovative technologies that focus on user safety while strengthening our core capabilities. You can count on us to always find a way to improve and advance the industries we are in. We look forward to working with you for years to come.



Innovators in PPV



Technology | Time Line





Sales and Customer Service

Technical Assistance

Our Customer Service Support and Engineers are available to assist you with any set-up, operation or application inquiries during our hours of operation. Operation manuals are also included in product packages. For assistance please contact Customer Service or email theteam@euramcosafety.com.

Placing Your Order

Contact our Customer Service Department if you need help with placing your order.

For prompt, accurate ordering please be able to provide the following:

- A Purchase Order or letter with the company name or logo, address & approval signature. Purchase Orders must include a P.O. #, Bill To Address, Ship To Address, Model #, Order #, quantity of each products ordered and shipping method.

Purchase Orders can be received by
Fax: +1 (619) 670-7345 or
Email: theteam@euramcosafety.com

- A confirmation will follow all orders placed.

AMERICA

Hours of Operation

M-F 8:30 a.m. – 5:00 p.m. PST

Toll Free 1 (800) 472-6326
 Phone +1 (619) 670-9590
 Fax +1 (619) 670-7345

CHINA

Hours of Operation

M-F 8:30 a.m. – 5:00 p.m.

Phone +86-574-87979390
 Fax +86-574-87979391

EUROPE – LUXEMBOURG

Hours of Operation

M-F 9:00 a.m. – 5:00 p.m.

Phone +352-26008055
 Fax +352-26008056

MIDDLE EAST – DUBAI (Jebel Ali FTZ)

Hours of Operation

M-F 4:30 a.m. – 1:00 p.m.

Phone +1 (619) 670-9590 x114
 Fax +1 (619) 670-7345

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<https://www.youtube.com/user/euramcosafety1>

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 Image Disclaimer: We operate a policy of continuous product development. Images are used for illustration purposes only and may not be the latest version of the product.



8



INDUSTRIAL WORKPLACE Electric



32



HAZARDOUS WORKPLACE Electric | Air



68



FIRE RESCUE Gas | Electric | Water



130



MARINE/MILITARY Water



GX200L
Ultra Lightweight PPV

RAMFAN® GX200 Series set the bar again for the world's lightest PPV fan. The new "L" model, GX200L, designed for one-handed carry up staircases, weighs in at only 36 lbs (16 kg)! This is a full 12 lbs lighter than its bigger brother, with the full roll-cage, GX200. The new RAMFAN GX200L simplifies everything, while compromising nothing. Pre-tilted configuration allows you to simply set the fan back until the airstream is aimed where you want. Equipped with the Honda GXH50, this unit will address weight, airflow and CO emission targets for your department. 36 lbs (16 kg), 12,800 cfm (21,794 m³/hr) and CARB-certified with emissions so light it will barely register on CO meters due to its small displacement engine.

Page 96 »

2nd Generation Flow Straightening
Enhanced FlowPath™ Control

The *PowerStream*® flow straighteners, standard equipment on EX and GX models, was the first flow straightening technology on PPV fans, increasing flow velocity and allowing more flexible setback positioning. Drawing on our nearly half century of experience in specialized rotational machinery, our engineering team has further refined the flow characteristics and efficiency of our *PowerStream*-equipped blowers by reducing boundary layer friction. We developed a secondary layer of flow, an outer friction-reducing layer, to more efficiently deliver the central mass volume flow needed to control the FlowPath™ deeper into the structure.

Pages 106-111 »



UB20xx Housing
More Durable than Ever

The **UB20xx Hazardous Location Ventilator** has undergone a housing redesign to make a very durable product that is much tougher and user friendly. The new PC/ABS housing on the UB20xx increases durability, conductivity, and flame resistance. It is a dramatic evolution of the original, and most trusted, hazardous location fan in industry into an even safer solution for small confined spaces where ignitable gases are likely to be present. All components are certified, and the whole unit is certified as equipment for portable use in Zoned and Classified hazardous areas to various international standards.

Page 46 »



New Duct Adapter/Reducer!
Multi-Mission Capability for EX/GX Models

New Adapter/Reducer allows your 18" (46cm) GX/EX blowers to be used with standard ECKO Flex 16" duct. Mounting points integrated into the outer shroud do not interfere with airflow during normal PPV ops. During ducted ops, 100% of the airflow is captured to create a high-pressure flow, reducing friction loss through the length of the duct.

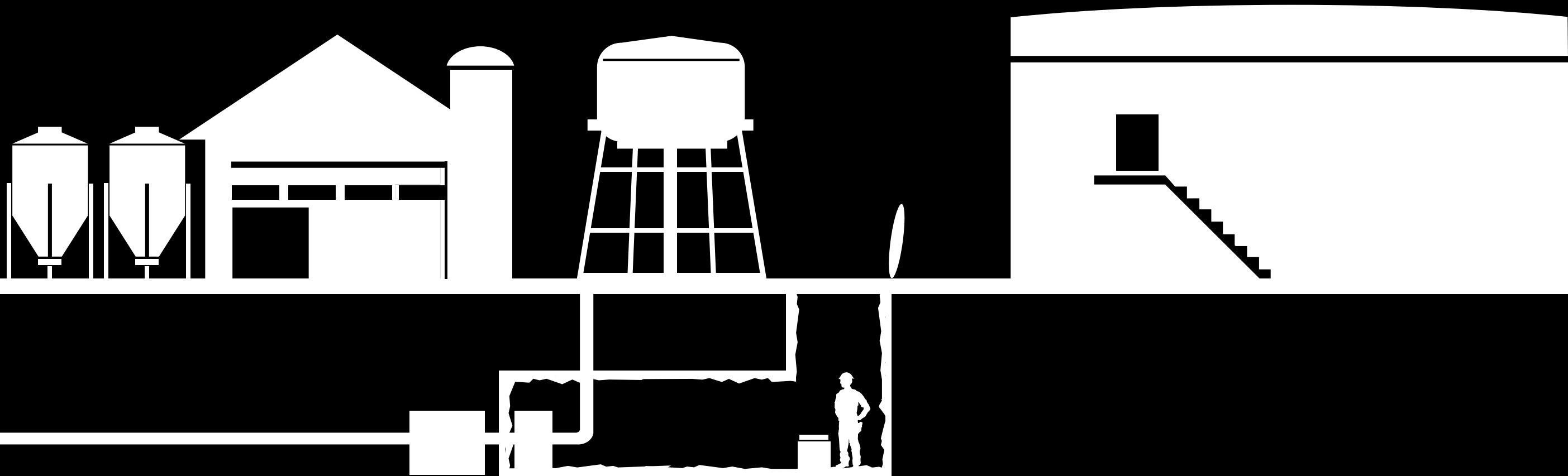
Pages 106-111 »

Doorbar and Hanger Kit
New, Lightweight Design

Best value available. Our **new Doorbar and Hanger Kit** is easier to use, install and carry. The new adjustable straps on the hangers allow you to position the fan with less lateral movement and greater range of height. Straps connect to the fan when not in use providing a handy carrying strap. The extended feet on the doorbar fit snug in the door jam for quick, easy set-up.

Page 139 »





Applications

- Manholes
- Tanks
- Vats
- Silos
- Utility Vaults
- Tents/Shelters
- Factories
- Aircraft
- Rail Cars
- Tunnels
- Crawl Spaces
- Other

«Fan Size vs Flow

Ducted Fans

ORDINARY USE FANS

HAZARDOUS LOCATION FANS

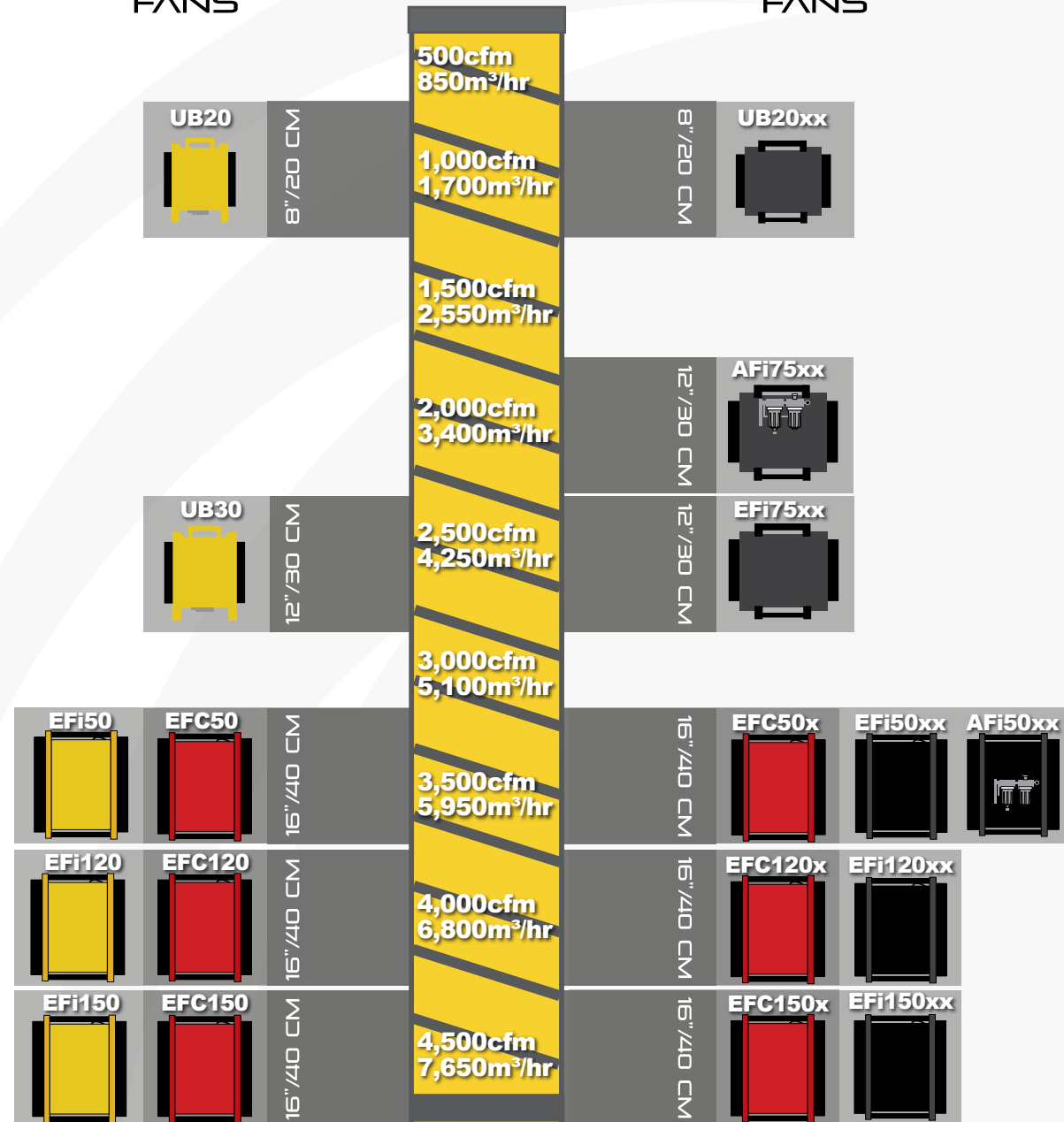


Illustration represent approximate airflow for the fans. Please view product pages for details.

«How To Order

Standard configurations located on product pages. Customization options below.

Voltage

115V

230V

Cable Lengths

Standard

Additional lengths available upon request

Plug Types

15A NEMA 5-15P

20A NEMA 5-20P

15A NEMA Twistlock L5-15P

20A NEMA Twistlock L5-20P

Standard

16A HD Schuko, Heavy Duty

20A NEMA Twistlock-L6-20P

15A NEMA 615P

Pigtail Adapter 5-15P to L5-20R

Additional Plugs available upon request. Please contact Customer Service with country of operations. Plug must meet voltage and amperage requirements of the fan.

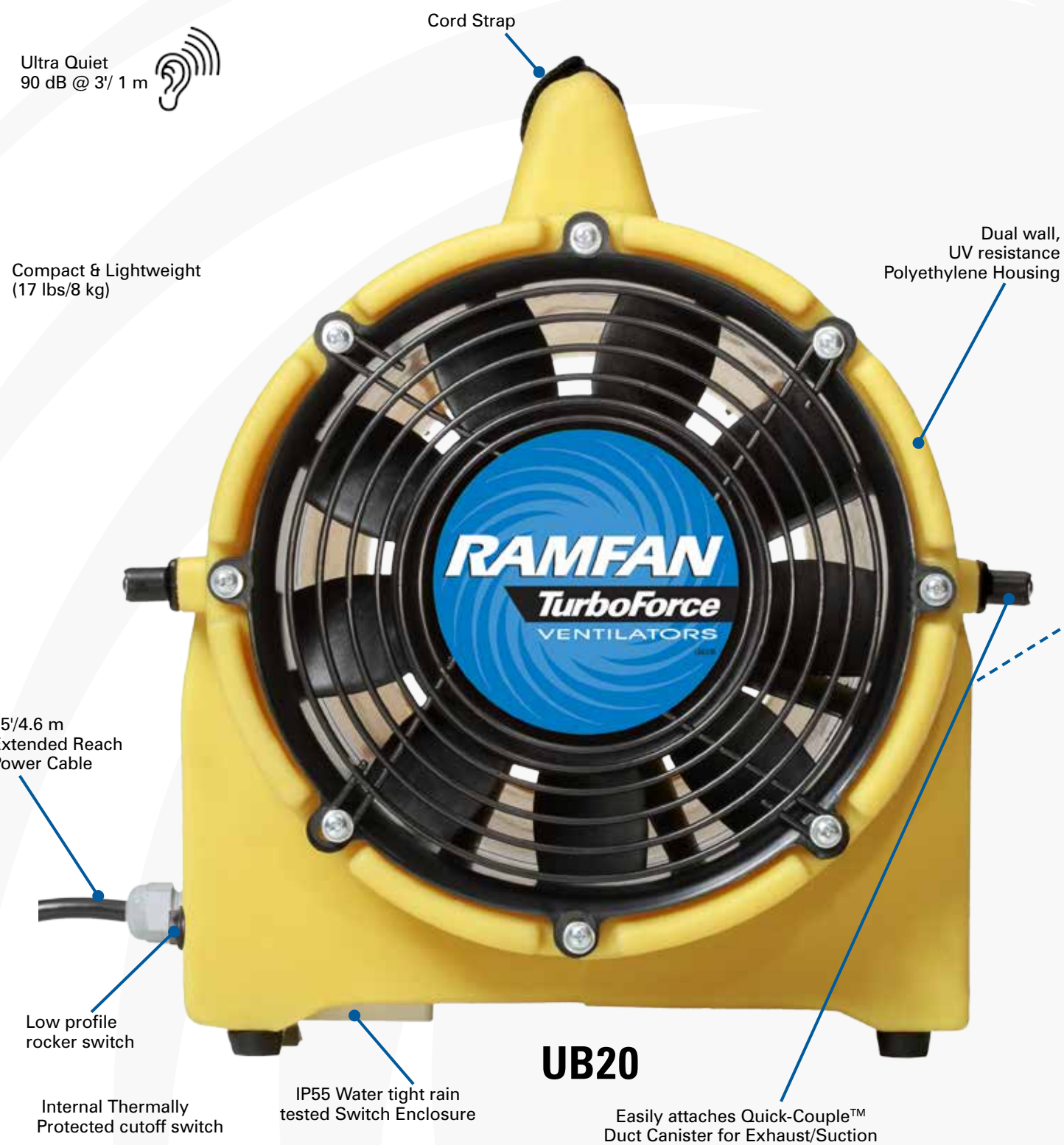
Place Your Order

For prompt, accurate ordering please be able to provide the following:

- A Purchase Order or letter with the company name or logo, address & approval signature. Purchase Orders must include a P.O. #, Bill To Address, Ship To Address (can't be a P.O. box), Model #, Order #, quantity of each products ordered and shipping method.
- A confirmation will follow all orders placed.

Purchase Orders can be received by
 Fax: +1 (619) 670-7345 or Email: theteam@euramcosafety.com

«RAMFAN® 8" (20 cm) Blower/Exhauster



RAMFAN® combines high performance turbofan design with high strength polymers to create a line of rugged, portable turbo blowers. The UB-Line is ideal for general use, confined space ventilation and delivers the highest airflow in it's class. The double-wall, polyethylene casing is light-weight, corrosion and chemical resistant and handles the bumps and falls of any job site.

The 8"/20 cm UB20 turbo blower is at the heart of the RAMFAN industrial ventilation systems that provide you with the complete solution for common confined space ventilation applications. The multi-purpose blower and exhauster delivers powerful airflow in a compact and lightweight package.

COMMONLY EQUIPPED



Fan

+



Quick-Couple™
Duct Canister

+



Duct

MAXIMUM SAFETY



UB20xx
Refer to page 46



RAMFAN UB20 | Blower/Exhauster

MOTOR TYPE
Thermally Protected Motor

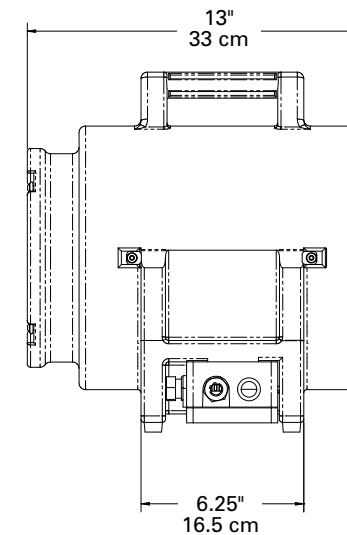
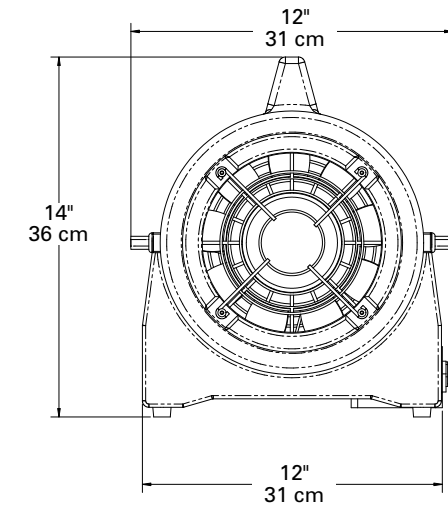
FAN CASING
Double-walled polyethylene

CABLE LENGTHS
AC: 15'/4.6m, 16AWG/1.5mm²
DC: 15'/4.6m, 12AWG

PLUG TYPES
AC: 15A NEMA 5-15P
AC: 16A Schuko
DC: SMH SB Connector for battery clips



UB20 12VDC



«Specifications

	UB20		
Motor	0.33 Hp (0.25 kW)		0.25 Hp (0.19 kW)
Power	115V, 1 ϕ , 50/60Hz	230V, 1 ϕ , 50/60Hz	12VDC
Amps (start/run)	9.5A / 2.5A	4.8A / 1.3A	11.5A
AIRFLOW			
Free Air	980 cfm (1,666 m ³ /hr)	819 cfm (1,392 m ³ /hr)	862 cfm (1,465 m ³ /hr)
Through Duct			
15'/4.6 m w/ one 90° turn:	789 cfm (1,341 m ³ /hr)	659 cfm (1,120 m ³ /hr)	695 cfm (1,181 m ³ /hr)
15'/4.6 m w/ two 90° turns:	666 cfm (1,132 m ³ /hr)	558 cfm (948 m ³ /hr)	586 cfm (996 m ³ /hr)
25'/7.6 m w/ one 90° turn:	722 cfm (1,227 m ³ /hr)	603 cfm (1,025 m ³ /hr)	635 cfm (1,079 m ³ /hr)
25'/7.6 m w/ two 90° turns:	614 cfm (1,044 m ³ /hr)	510 cfm (867 m ³ /hr)	537 cfm (912 m ³ /hr)
Dimensions (h/w/d)	14 x 12 x 13 in (36 x 31 x 33 cm)		
Weight	17 lbs (8 kg)		
Duct Adapter	1		
Noise	74 dB @ 3' (1 m)		

«Ordering information

RAMFAN UB20

UB20 (115V)
Order# **ED7002**
Ships as 115V

Order# **ED7015** - 115V UB20 w/
Quick-Couple™ Canister and 15'/4.6 m duct
Order# **ED7025** - 115V UB20 w/
Quick-Couple™ Canister and 25'/7.6 m duct

UB20 (230V)
Order# **ED8002**
NSN: 4940-01-559-9190
Ships as 230V

Order# **ED8015** - 230V UB20 w/ Quick-
Couple™ Canister and 15'/4.6 m duct
Order# **ED8025** - 230V UB20 w/ Quick-
Couple™ Canister and 25'/7.6 m duct

UB20 (12VDC)
Order# **ED9002**
Ships as 12V DC with 15'/4.6 m battery
jumper cables included
Order# **ED9015** - 12V DC UB20 w/ Quick-
Couple™ Canister and 15'/4.6 m duct
Order# **ED9025** - 12V DC UB20 w/ Quick-
Couple™ Canister and 25'/7.6 m duct

IMPA Code: ED7002 - 591406

«Certifications & Approvals

Motor Part Number EM-F.33-115/230V



* AC Motors Only

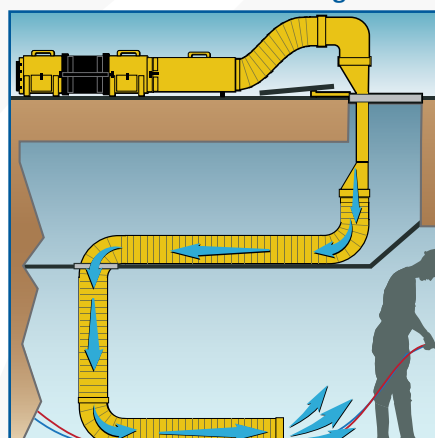


8" (20 cm) Blower/Exhauster

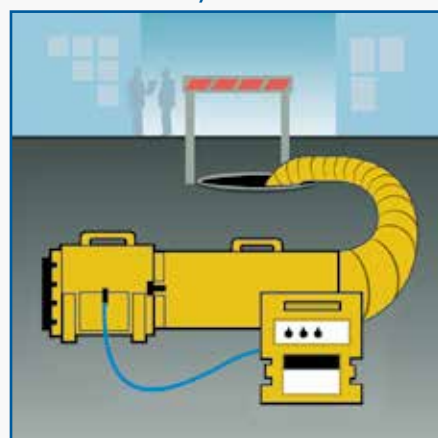


Ventilation System Applications

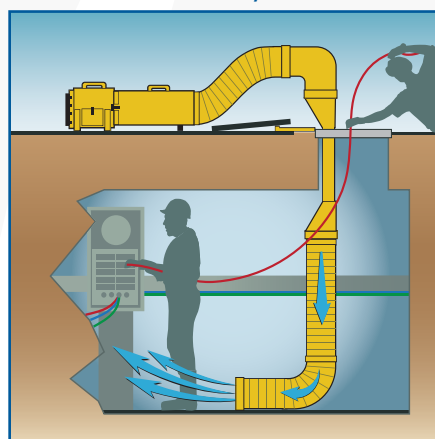
Extended Duct Length



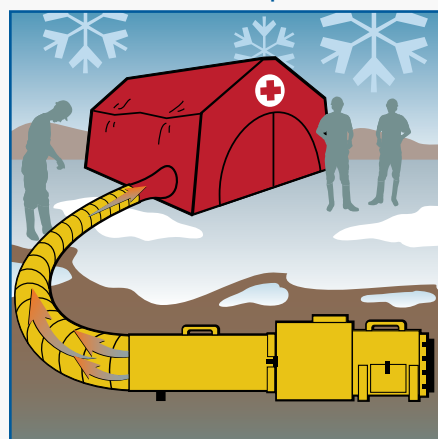
Battery Powered



Manhole Entry Device*



Cold Weather Operations



* UB30 Compatible with Reducer Accessory.



« UB20 M.E.D.™ Ventilation System Manhole Entry Device

The M.E.D.™ allows workers to enter and exit small man-size openings while maintaining continuous ventilation. Without such a device, duct fills the manhole opening, preventing rapid entry and exit. Tightly integrated into the UB-Line of confined space ventilation equipment, the RAMFAN® M.E.D.™ system is quick to assemble and the new swiveling elbow makes duct alignment easy.

« Battery Pak System UB20 (12V DC) with Pak & Charger

RAMFAN Battery Pak with dual high-low speed control to quickly purge the area then maintain fresh air for the entire work shift. Power fan for 2.5 hours on high setting or extend up to 8 hours on low setting. Built in charger to fully recharge in 12 hours. Alternatively, the fan can be powered by a vehicle battery with supplied connectors.

- High-low control enables rapid purge with on high speed and maintaining a safe work space on low speed
- Up to 8 hours continuous operation
- Lightweight and portable



« UB20 Turbo-Couple™

Quickly connect two or more RAMFAN UB20 axial blowers in series increases airflow up to 50% when blowing through long and windy duct runs. Long, windy duct runs need more power and pressure to deliver sufficient airflow, a costly proposition. The Turbo-Couple™ delivers what is needed by quickly joining two or more UB20's in series.





« UB20 In-Line Heating System

Easily connect the UB20 In-Line Heater to heat confined spaces, command centers or rescue shelters for up to 8 hours. Delivers up to 55,000 BTU of safe, warm breathable air.

- **Each Heater System Includes:** UB20, heater w/ propane regulator and connection assembly, duct and remote thermostat
- For tent/shelter or confined space heating
- Airflow can cycle with heat or run continuous for confined space ventilation
- Up to 8 hours continuous operations with standard propane cylinder tank
- Heater attaches quickly and easily to UB20 Blower



AIRFLOW	
Free Air	947 cfm (1,610 m ³ /hr)
Through Duct	
15'/4.6 m w/ no turns	520 cfm (884 m ³ /hr)
15'/4.6 m w/ one 90° turn:	485 cfm (825 m ³ /hr)
15'/4.6 m w/ two 90° turns:	467 cfm (794 m ³ /hr)

« Quick-Couple™ Reversible Canister

Stores and protects attached duct from rips and tears. Quick and easy to attach or detach canister to UB20 to blow or exhaust air from an area. Available with 15' (4.6 m) or 25' (7.6 m) duct lengths.

- 15' (4.6 m) blower w/canister**
14h x 12w x 31.5d in 35.6h x 30.5w x 80d cm
- 25' (7.6 m) blower w/canister**
14h x 12w x 41.5d in 35.6h x 30.5w x 105d cm



« Duct & Carrying Bag

Length Options 15'/4.6 m or 25'/7.6 m | **Diameter** 8"/20 cm
Non-Collapsible reinforced duct is flame retardant. Each duct comes with its own bag.

« Ordering information

UB20 M.E.D.™ System

- Order# **ED7015-MED**
M.E.D. System w/ UB20 (115V)
- Order# **ED8015-MED**
M.E.D. System w/ UB20 (230V)
- Order# **ED9015-MED**
M.E.D. System w/ UB20 (12V DC)

Battery Pak System

- UB20 (12V DC)**
Order# **ED9015-BAT**
UB20 (12V) battery pak & charger (115V), QC Canister with 15'/4.6 m duct
- Order# **ED9015-BATCE**
UB20 (12V) battery pak & charger (230V), QC Canister with 15'/4.6 m duct
- Order# **ED9025-BAT**
UB20 (12V) battery pak & charger (115V), QC Canister with 25'/7.6 m duct
- Order# **ED9025-BATCE**
UB20 (12V) battery pak & charger (230V), QC Canister with 25'/7.6 m duct

Quick-Couple™ Reversible Canister

- UB20 (115V)**
Order# **ED7015** - Blower/Exhauster, w/ Quick-Couple Canister and 15'/4.6 m duct
- Order# **ED7025** - Blower/Exhauster, w/ Quick-Couple Canister and 25'/7.6 m duct
- UB20 (230V)**
Order# **ED8015** - Blower/Exhauster, w/ Quick-Couple Canister and 15'/4.6 m duct
- Order# **ED8025** - Blower/Exhauster, w/ Quick-Couple Canister and 25'/7.6 m duct

UB20 (12V DC)

- Order# **ED9015** - Blower/Exhauster, Battery Clips, w/ Quick-Couple Canister and 15'/4.6 m duct
- Order# **ED9025** - Blower/Exhauster, Battery Clips, w/ Quick-Couple Canister and 25'/4.6 m duct

UB20 Turbo-Couple™ System

- UB20 (115V)**
Order# **ED7000TC** - Blower Exhausters (qty. 2) and Turbo-Couple
- UB20 (230V)**
Order# **ED8000TC** - Blower/Exhausters (qty. 2) and Turbo-Couple

UB20 In-Line Heating System

- Heater System includes: UB20 Blower, Propane Heater, Regulator and Remote Thermostat
- Order# **ED7125-HT** - Heater system w/ 15'/4.6 m duct and carry bag
- Order# **HA01-100HT** - Heater System w/15'/4.6 m duct and Quick-Couple™ canister
- Order# **HA01-125HT** - Heater System w/ 25'/7.6 m duct and Quick-Couple™ canister

Components

- Order# **MED5100** - M.E.D. Vent, Elbow, Mount
- Order# **BPV-12** - Battery Pak with built in charger (115V)
- Order# **BPV-12CE** - Battery Pak with built in charger (230V)
- Order# **ED7004CS** - Quick-Couple Canister w/ 15'/4.6 m duct
- Order# **ED7004CL** - Quick-Couple Canister w/ 25'/7.6 m duct
- Order# **ED7300** - UB20 Turbo-Couple
- Order# **HA01** - 55k BTU Propane Heater with Thermostat and Regulator

Duct

- Order# **FDT-21624046BR** - 15'/4.6 m duct with carry bag
- Order# **FDT-21624076BR** - 25'/7.6 m duct with carry bag

«RAMFAN® 12" (30 cm) Blower/Exhauster



The 12"/30 cm UB30 takes design cues from the UB20 in a larger form. The larger blower/exhauster produces a higher airflow for use in larger confined spaces. The larger the area you are trying to ventilate the more airflow you'll need. The RAMFAN® UB30 has unmatched performance for a fan its size. It is built with a durable housing to withstand industrial workspace environments.

COMMONLY EQUIPPED



Fan

+



Adapter/Reducer
(UB30 connects directly to 12"/30 cm duct or 8"/20 cm duct with adapter)

+



Duct

MAXIMUM SAFETY



EFi75xx
Refer to page 54



RAMFAN UB30

MOTOR TYPE
Thermally Protected Motor

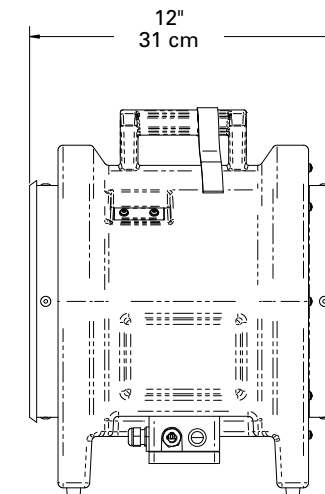
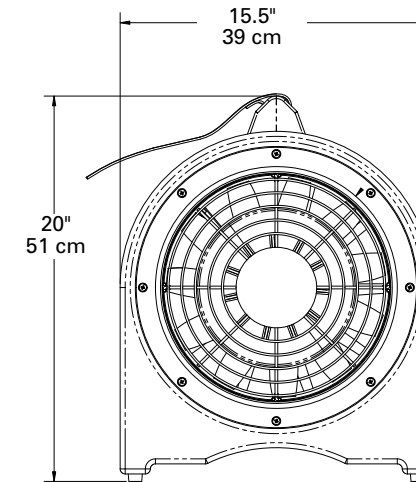
FAN CASING
Double-walled polyethylene

CABLE LENGTHS
15'4.6 m, 16AWG/1.5mm²

PLUG TYPES
115V: 15A NEMA 5-15P
230V: 16A Schuko



US Patent NO. D583,461; D585,972; D588, 537



«Ordering information

RAMFAN UB30

UB30 (115V)
Order# EJ4002
Ships as 115V

UB30 (230V)
Order# EJ8002
Ships as 230V

Accessories

Duct Adapter/Reducer 12"-8"
Order# EC0301

Standard duct with bag
Order# FDT-30534005BB -
16'5 m duct with carry bag
Order# FDT-30534010BB -
33'10 m duct with carry bag

Disposable Duct
Order# FDT-12DISP
100'30 m Disposable Layflat
Polyethylene duct

IMPA Codes:
EJ4002 - 591403
EJ8002 - 591407

«Specifications

	UB30	
Motor	1 Hp (0.8 kW)	
Power	115V, 1 ϕ , 50/60Hz	230V, 1 ϕ , 50/60Hz
Amps (start/run)	33A / 8A	17A / 5A
AIRFLOW		
Free Air	2,420 cfm (4,114 m ³ /hr)	2,017 cfm (3,429 m ³ /hr)
Through Duct		
15'4.6 m w/ no turns	2,250 cfm (3,825 m ³ /hr)	1,650 cfm (2,805 m ³ /hr)
15'4.6 m w/ one 90° turn:	2,050 cfm (3,485 m ³ /hr)	1,500 cfm (2,550 m ³ /hr)
15'4.6 m w/ two 90° turns:	1,875 cfm (3,188 m ³ /hr)	1,376 cfm (2,340 m ³ /hr)
Dimensions (h/w/d)	20 x 15.5 x 12 in (51 x 39 x 31 cm)	
Weight	37 lbs (17 kg)	
Noise	90 dB @ 3' (1 m)	
Duct Adapters	2	

«Certifications & Approvals

Motor Part Number EM-F.62-115/230V

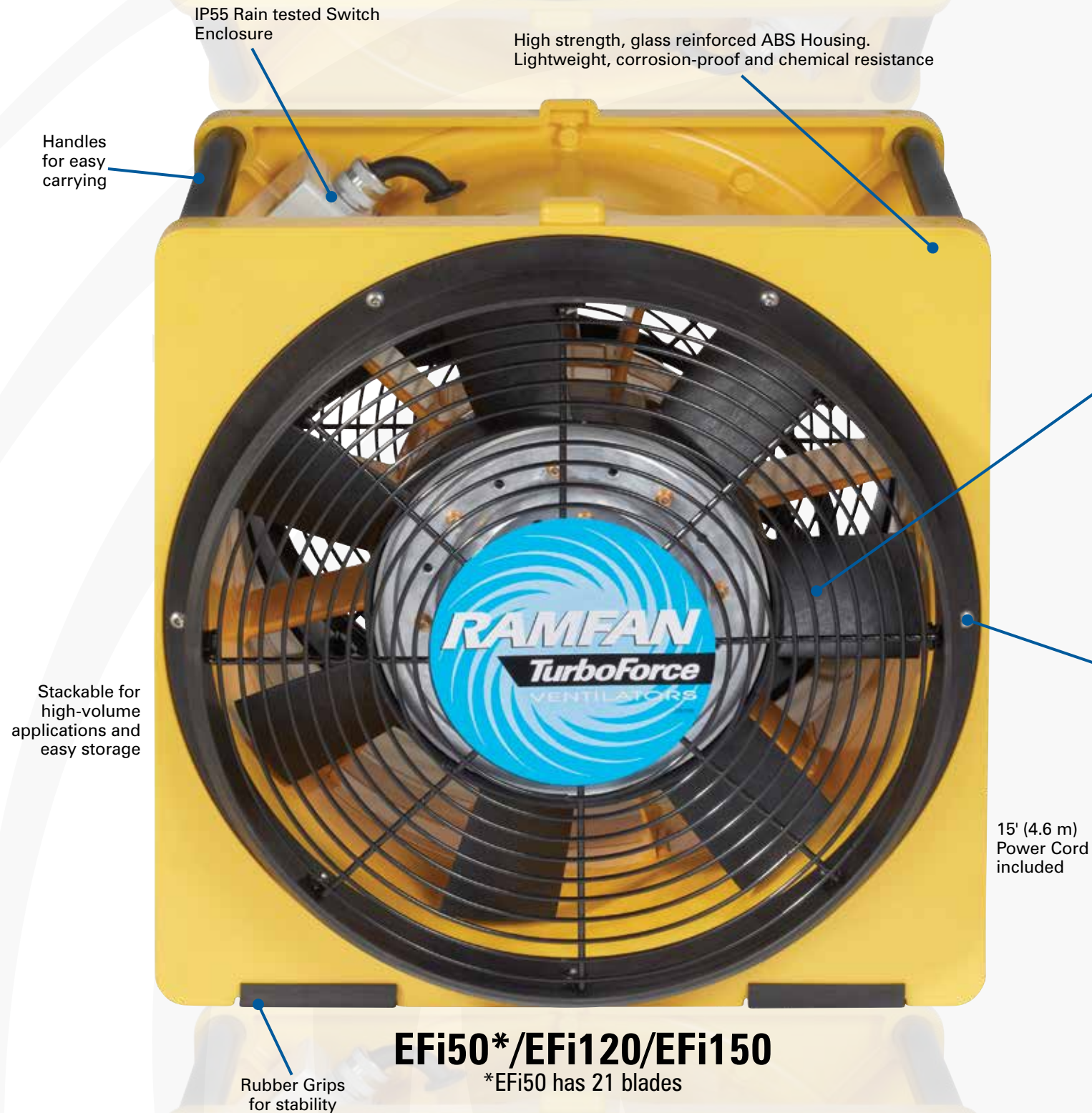


12" (30 cm) Blower/Exhauster

« RAMFAN® 16" (40 cm) High Volume Blower/Exhauster



16" (40 cm) High Volume Blower/Exhauster



The 16"/40 cm blower/exhausters are the largest portable, ducted blowers for high volume air movement. Use the ½ Hp model when you need a high volume, low velocity, somewhat gentler flow; or the 1½ Hp model for higher velocities, increased volumes and reduced purge or cooling times.

Polymer TurboForce™ Impeller for increase shatter resistance and enhanced performance

Integrated Duct Adapters

COMMONLY EQUIPPED



Fan

+



Duct

MAXIMUM SAFETY



EFi50xx/120xx/150xx
Refer to page 58

RAMFAN EFi50/EFi120/EFi150

MOTOR TYPE
Thermally Protected Motor

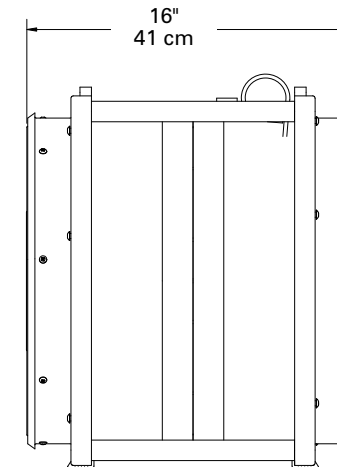
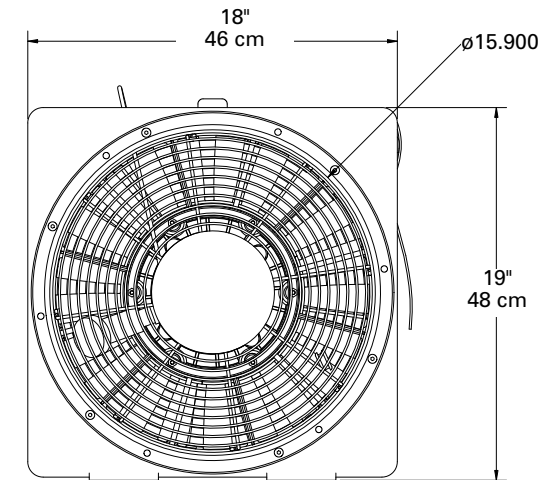
FAN CASING
High Strength, Glass
Reinforced ABS

CABLE LENGTHS

EFi50 (115V/230V): 15'/4.6 m, 14AWG/2.5 mm²
EFi120 (230V): 10'/3 m, 16AWG/1.5mm²
EFi150 (115V/230V): 15'/4.6 m, 14AWG/2.5mm²

PLUG TYPES

EFi50 (115V): 15A NEMA 5-15P
EFi50 (230V) & EFi150 (230V): NEMA Twistlock L6-20P
EFi120 (230V) & EFi150 (230V-CE): 16A Schuko
EFi150 (115V): NEMA Twistlock L5-30P



«Specifications

	EFi50	EFi120	EFi150
Motor	0.5 Hp / 0.37 kW	1.2 Hp / 0.9 kW	1.5 Hp / 1.1 kW
Power	115/230V, 1ø, 50/60Hz	230V, 1ø, 50Hz	115/230V, 1ø, 50/60Hz
Amps: Start	115V: 25A	230V: 27A	115V: 80A
Run	230V: 13A 115V: 6A	230V: 5A	230V: 40A 115V: 15A
AIRFLOW			
Free Air	3,200 cfm (5,440 m ³ /hr)	3,750 cfm (6,375 m ³ /hr)	4,459 cfm (7,580 m ³ /hr)
Through Duct			
15'/4.6 m w/ one 90° turn:	1,934 cfm (3,289 m ³ /hr)	2,700 cfm (4,590 m ³ /hr)	3,179 cfm (5,404 m ³ /hr)
Dimensions (h/w/d)	19 x 18 x 16 in (48 x 46 x 41 cm)		
Weight	46 lbs (21 kg)	53 lbs (24 kg)	55 lbs (25 kg)
Noise	90.2 dB @ 3' (1 m)		
Duct Adapters	2		

«Certifications & Approvals



«Ordering information

RAMFAN EFi50

EFi50 (115V)
Order# **EA8000**
Ships as 115V

EFi50 (230V)
Order# **EA8000-230**
Ships as 230V

RAMFAN EFi120
EFi120 (230V)
Order# **EA8120**
NSN: 4140-01-608-6001
Ships as 230V

RAMFAN EFi150
EFi150 (115V)
Order# **EG8200**
Ships as 115V

EFi150 (230V) Schuko plug
Order# **EG8200-CE**
Ships as 230V

EFi150 (230V) NEMA L5-20P plug
Order# **EG8200-230**
Ships as 230V

Accessories

Layflat Duct
Order# **FDT-1625SME**

Duct Carrying Bags
Order# **BG16**

16" Multi-Purpose Accessory Pack
Order# **BG16LFA**

Disposable Duct
Order# **FDT-16DISP**
16" (40cm) duct, 100' (30.5 m)

Standard Duct
Order#- **FDT-1615BR** - 15'/4.6 m duct with carry bag
Order# **FDT-1625BR** - 25'/7.6 m duct with carry bag

IMPA Codes:
EA8000/ EA8000-230 - 591502



16" (40 cm) High Volume Blower/Exhauster

Durable ducting

The ECKO Flex™ ducting allows great flexibility with several diameters and lengths to allow you to safely ventilate virtually any application. With new and improved construction, our unique standard ducting is available on short lead times with many items held in stock. Every duct purchase comes with its own duct carrying bag to easily transport and store the duct.

Flexible ducting is vitally important in improving safety and working conditions. It can be used to bring fresh air into an area, extract contaminated air, and to direct heated air where it is needed. Using ducting gives you greater flexibility.



ECKO Flex™

This duct system is a result of Euramco Safety's no compromise approach to user safety. Carefully selected materials, robust design and rigorous testing combine to bring you a ducting system second to none. Using a reinforced polymer material with an integrated steel helix wire.

By using the ECKO Flex ducting system you can be sure you are providing a quality duct system that brings great benefits to you and your team. The duct is compatible with several brands of ventilators, including RAMFAN®.

Key Features

- Non-collapsible, reinforced duct
- 8"/20 cm, 12"/30 cm or 16"/40 cm diameters
- Flame retardant
- IMPA codes available for ducting, please call to inquire
- Carrying bag included for storage and transport

«Ordering information

Standard Duct 8"/20 cm x 15'/4.6 m order# FDT-21624046BR	Standard Duct 12"/30 cm x 16'/5 m order# FDT-30534005BB	Standard Duct 16"/40 cm x 15'/4.6 m order# FDT-1615BR	Replacement Duct for Quick-Couple™ Canister 8"/20 cm x 5'/1.5 m order# FDT-0805CB
8"/20 cm x 25'/7.6 m order# FDT-21624076BR	12"/30 cm x 32'/10 m order# FDT30534010BB	16"/40 cm x 25'/7.6 m order# FDT-1625BR	8"/20 cm x 15'/4.6 m order# FDT-0815CR
			8"/20 cm x 25'/7.6 m order# FDT-0825CR



« ECKO//Flex™ REINFORCED DUCT

COMPONENTS

«8"/20 cm Diameter

FDT-21624046BR (15'/4.6 m)

FDT-21624076BR (25'/7.6 m)



Non-collapsible, Reinforced Standard Duct

«12"/30 cm Diameter

FDT-30534005BB (16'/5 m)

FDT-30534010BB (32'/10 m)



Non-collapsible, Reinforced Standard Duct

«16"/40 cm Diameter

FDT-1615BR (15'/4.6 m)

FDT-1625BR (25'/7.6 m)



Non-collapsible, Reinforced Standard Duct

COMPATIBLE WITH:



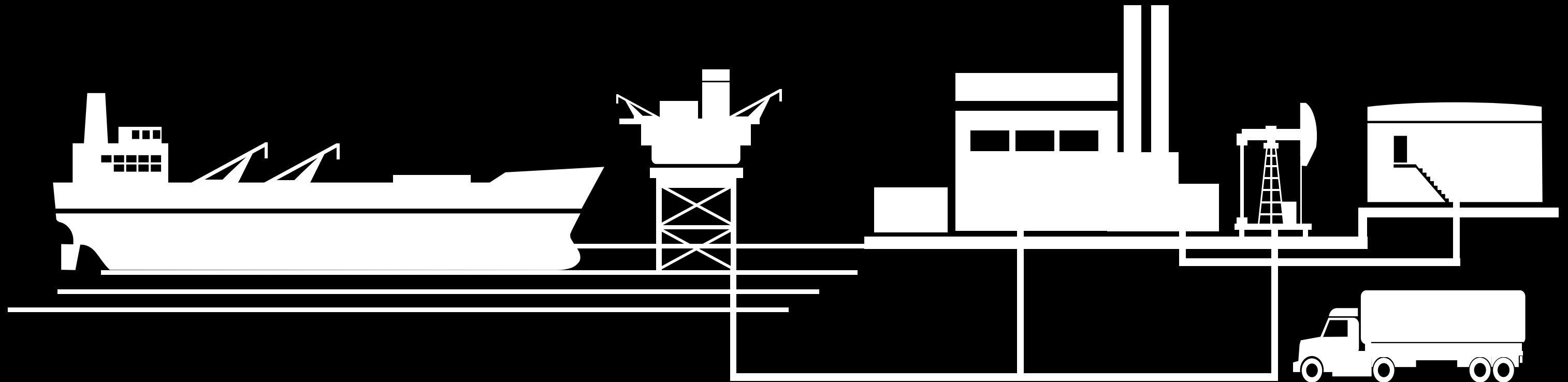
UB20 Portable Fan



UB30 Portable Fan



EFi50/EFi120/EFi150 Portable Fans



Applications

- Shipbuilding and Repair
- Offshore Platforms
- Utilities
- Underground Work
- Chemical Plants
- Manholes
- Vessels and Tanks
- FPSO (Floating Production Storage and Offloading)
- Confined Spaces

RAMFAN CERTIFICATIONS

Worldwide Certified Explosion-Proof Ventilators

Euramco Safety has designed and manufactured a line of fans specifically for use in hazardous atmospheres to meet the standards specified by the ATEX Directive 94/9/EC, IECEx, CE, INMETRO and UL. Our certifications cover the whole unit: the motor, terminal box, power cable, fan blade and labeling.

These Standards apply to all electrical equipment to prevent or minimize potential source of ignition in hazardous gas, dust or vapor atmospheres, to the extent defined in the charts below.

The chart explains the ATEX Identification Numbering System. The highlighted areas specifically apply to the ATEX string seen on Euramco Safety's certified hazardous location fans.

EQUIPMENT GROUP & CATEGORY

Equipment Group	Equipment Category	Protection Level	Hazard Gas	Dust	Use
I - Mining	M1	Very high protection	-	-	Operable in Ex atmosphere
	M2	High protection	-	-	De-energized in Ex atmosphere
II - Industrial (non-Mining)	1	Very high protection	G	-	Zones 0, 1, 2
	2	High protection	G	-	Zones 1, 2
	3	Normal protection	G	-	Zone 2

CLASSIFICATION OF HAZARDOUS AREAS

Area Classification	Zone Criteria (based on frequency and duration)
Zone 0	Potentially Explosive substance present continuously or for long periods > 1000hrs/yr
Zone 1	Potentially Explosive substance likely to be present in normal operation > 10hrs > 1000hrs/yr
Zone 2	Potentially Explosive substance unlikely to be present in normal operation, if it does will only be for short periods < 10hrs/yr

GAS GROUPS

Gas Group	Representative Test Gas
I	Methane (Mining only)
IIA	Propane
IIB	Ethylene
IIC	Hydrogen

Gases are classified according to the ignitability of gas-air mixture. Refer to IEC 60079-20 for classification of common gases and vapors.

Gas Group IIB includes all gases for Group IIA

Certifications:

IECEx UL Certificate #: 13.0062X

EC-Type Examination Certificate #: DEMKO 09 ATEX 0926969X

INMETRO Certificate #: UL-BR 13.0593X

CE Hazardous Location Marking: CE0539

Ingress Protection: IP55



CONDITIONS & SUBDIVISIONS

Flammable Materials	Temporary Behavior of Explosive Atmosphere	Classification of Hazardous Areas	Group as Defined in Directive 94/9/EC	Equipment Category as Defined in Directive 94/9/EC	Equipment Group as Defined in EN 60079-0	Equipment Protection Level (EPL) as Defined in EN 60079-0
Gases/Vapors	is present continuously or for long periods or frequently	Zone 0	II	1G	II	Ga
	arises in normal operation occasionally	Zone 1	II	2G or 1G	II	Gb or Ga
	is not likely to arise in normal operation, or if it does, will persist for a short time only	Zone 2	II	3G or 2G or 1G	II	Gc or Gb or Ga
Dusts	is present in the form of a cloud continuously, or for long periods or frequently	Zone 20	II	1D	III	Da
	occasionally develops into a cloud during normal operation	Zone 21	II	2D or 1D	III	Db or Da
	is not likely to develop into a cloud during normal operation, or if it does, for a short time only	Zone 22	II	3D or 2D or 1D	III	Dc or Db or Da
Methane Carbon Dust	operation where there is a risk of explosion	-	I	M1	I	Ma
	disconnection where there is a risk of explosion	-	I	M2 or M1	I	Mb or Ma

ATEX STRING



Equipment Group II
Equipment Category 2
Hazard G

II 2 G Ex de IIB T6 Gb

Gas Group IIB
Conditions & Subdivisions Gb

Ignition Protection Category Ex de

Temperature Class T6

IGNITION PROTECTION CATEGORIES

Ignition Protection Categories	I.D.	Can Be Used In	Safety Principle
Increased safety	Ex e	Zone 1	No arcs, sparks or hot surfaces
Non-sparking equipment	Ex nA	Zone 2	
Pressurized encapsulation	Ex d	Zone 1	Controls an internal explosion and extinguishes the flame
Sand encapsulation	Ex q	Zone 1	
Enclosed switching device	Ex nC	Zone 2	
Intrinsic safety (special requirements)	Ex ia	Zone 0	Limits the energy of the sparks and the temp. of the surface
Intrinsic safety temperature	Ex ib	Zone 1	
Energy-limiting equipment	Ex nL	Zone 2	
Encapsulation	Ex m	Zone 1	Separates source of ignition from potentially explosive atmosphere
Oil encapsulation	Ex o	Zone 1	
Pressurization	Ex p	Zone 1	
Simplified pressurization	Ex nP	Zone 2	
Vapor-proof housing	Ex nR	Zone 2	

Junction Box
Motor

TEMPERATURE CLASSES

Class	MAXIMUM SURFACE TEMPERATURE					
	T1	T2	T3	T4	T5	T6
	450°C	300°C	200°C	135°C	100°C	85°C
IIA	Acetone Ammoniac Benzene Acetic Acid Ethane Ethyl Acetate Ethyl Chloride Methane Methanol Naphthalene Phenol Propane	i-Amylacetate n-Butane n-Butyl Alcohol	Gasolines Diesel Fuels Heating Oils n-Hexane	Acetyl- dehyde	-	-
IIB	Town gas (lighting gas)	Ethylene Ethylene Oxide	Hydrogen Sulfide	Ethylether	-	-
IIC	Hydrogen	Acetylene	-	-	-	Carbon

Gas Group IIB, Class t6 includes all specifications for Gas Group IIA, Class T1-T6 and Gas Group IIB, T1-T6

Highlighted areas in charts apply to Euramco Safety's ATEX Certification String

«Certification Explained

What is ATEX?

ATEX is the name commonly given to the two European Directives for controlling explosive atmospheres:

- 1) Directive 99/92/EC (also known as 'ATEX 137' or the 'ATEX Workplace Directive') on minimum requirements for improving the health and safety protection of workers potentially at risk from explosive atmospheres. The text of the Directive and the supporting EU produced guidelines are available on the EU-website.
- 2) Directive 94/9/EC (also known as 'ATEX 95' or 'the ATEX Equipment Directive') on the approximation of the laws of Members States concerning equipment and protective systems intended for use in potentially explosive atmospheres. The text of the Directive and EU produced supporting guidelines are available on the EU website.

What is an explosive atmosphere?

Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR), defines an explosive atmosphere as a mixture of dangerous substances with air, under atmospheric conditions, in the form of gases, vapors, mist or dust in which, after ignition has occurred, combustion spreads to the entire unburned mixture.

Atmospheric conditions are commonly referred to as ambient temperatures and pressures. That is to say temperatures of -20°C to 40°C and pressures of 0.8 to 1.1 bar.

Likelihood of Presence: Zone 1

Atmospheres containing acetaldehyde, ethylene, or flammable gas, flammable liquid produced vapor, or combustible liquid-produced vapor mixed with air that may burn or explode, having either maximum experimental safe gap (MESG) values greater than 0.50 mm and less than or equal to 0.90 mm or minimum igniting current ratio (MIC ratio) greater than 0.45 and less than or equal to 0.80. Group IIB is equivalent to Class I, Group C.

Group IIB

The Group defines the type of hazardous material in the surrounding atmosphere. Groups A, B, C, and D are for gases (Class I only).

Group A—Atmospheres containing acetylene.

Group B—Atmospheres containing a flammable gas, flammable liquid-produced vapor, or combustible liquid-produced vapor whose MESG is less than 0.45 mm or MIC ratio is less than 0.40. Typical gases include hydrogen, butadiene, ethylene oxide, propylene oxide, and acrolein.

Temperature Code (T Code)

A mixture of hazardous gases and air may be ignited by coming into contact with a hot surface. The conditions under which a hot surface will ignite a gas depends on surface area, temperature, and the concentration of the gas. The maximum possible surface temperature of equipment is shown in the ATEX Explosion Classification as a "t" Value, ranging from T1 to T6 in order of decreasing value (so T6 is "safer").

T6 <= 85°C/185°F

Ignition Source: Electrical

There are two general sources of ignition, from an electrical source and from a non-electrical source. Examples of specific electrical sources include arcing between contacts of a switch or breakdown between traces on a printed wiring board. Examples of non-electrical sources include the hot surfaces of a brake or electrostatic charging of a non-metallic fluid handling system.

Protection Techniques

Protection Techniques refers to the methods used to protect electrical and non-electrical sources from igniting an explosive atmosphere. These methods are defined in national, regional, and international codes and standards.

Flameproof 'd'

Flameproof, 'd' is a type of protection where the enclosure will withstand an internal explosion of a flammable mixture that has penetrated into the interior, without suffering damage and without causing ignition, through any joints or structural openings in the enclosure, of an external gas atmosphere consisting of one or more of the gases or vapors for which it is designed.

Increased Safety 'e'

Increased Safety, 'e' is a type of protection applied to electrical equipment that does not produce arcs or sparks in normal service and under specified abnormal conditions, in which additional measures are applied so as to give increased security against the possibility of excessive temperatures and of the occurrence of arcs and sparks.

Euramco Hazardous Location Certifications:

ATEX - European Committee for Electromechanical Standardization (CENELEC): EN 60079-1:2014

IECEx - International Electrotechnical Commission (IEC): IEC 60079-1 Ed. 7.0

INMETRO - Brazilian Association of Technical Standards (ABNT): ABNT NBR IEC 60079-1:2009

Equivalent Global Standards:

Canadian Electrical Code (CEC): CAN/CSA-C22.2 NO. 60079-1:11

Japanese Industrial Standards (JIS): JIS C 60079-1:2008

Korean Standards Association (KSA): KS C IEC 60079-1:2012

National Electrical Code (NEC): ANSI/UL 60079-1

Russian State Standards (GOST): GOST IEC 60079-1:2011

South African National Standards (SANS): SANS 60079-1 Ed. 5 (2015)

Standardization Administration of China (SAC): GB 3836.2-2010

Standards Australia/New Zealand (AS/NZS): AS/NZS 60079.1:2007

Bureau of Indian Standards (BIS): BIS IS/IEC 60079-1:2007

«CLASSIFICATION

ATEX Zone Classification

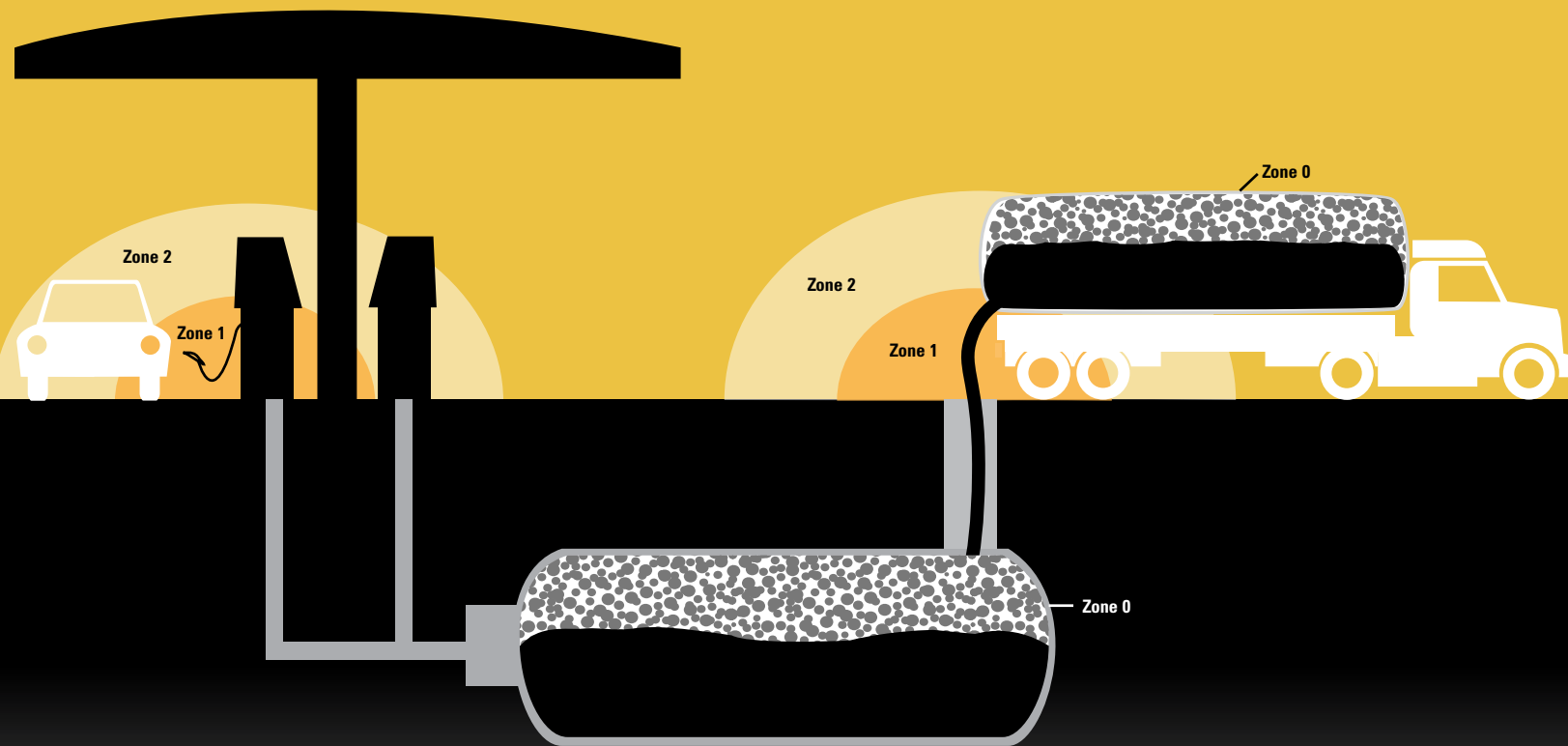
Hazardous areas are classified into zones based on an assessment of the frequency of occurrence and duration of a potentially explosive gas atmosphere. IEC60079-10-1 defines the areas in an explosive atmosphere as:

« Explosive atmosphere: mixture with air, under atmospheric conditions, flammable substances in the form of gas, vapor, dust, fibers, or flyings which, after ignition, permits self-sustaining propagation

« Zone 0: an area in which an explosive gas atmosphere is continuously present, for long periods or frequently.

« Zone 1: an area in which an explosive gas atmosphere is likely to occur in normal operation occasionally.

« Zone 2: area in which an explosive gas atmosphere is not likely to occur in normal operation but, if it does occur, will persist for a short period only.



«Explosion Proof. Certified











Compliance certifications have always been a critical part of our product development strategy, and we were an early adopter of explosion proof certifications for our purpose-built hazardous location air movers.

Today, our commitment to delivering full-unit certified, explosion proof ventilation solutions, remains unmatched, and we continue to build on this foundation by adding new innovative products as well as international certifications to better serve our customers in different regions of the world.

Our ventilators currently hold full-unit hazardous location certifications for ATEX, IECEx and INMetro.

While various standards exist that are in line with IEC 60079 Standard on Explosive Atmospheres, countries use these standards in their regulations in different ways. Some are making the standards mandatory through legislative act, others are making compliance with the standards a means of proving compliance with the essential health and safety requirements laid out in the legislation, while a third group relies heavily on the self-correcting nature of the chain of liability where few mandatory elements of the standard exist.

This provides a challenging global operating environment for a manufacturer, but these barriers are critical to surmount to maximize the safety of the users and facilities in which our equipment operates.

The Industries			
	Shipping and Offshore FPSO		Petroleum and Natural Gas storage and transporters
	Petrochemical		Petroleum and Natural Gas Deliveries
	Chemical		Pharmaceutical
	Aerospace Manufacturing and MRO		Automotive Manufacturing
	Food Product and Beverage		Water and Wastewater

Safety Inspection for Ventilators used in Potentially Explosive Atmospheres

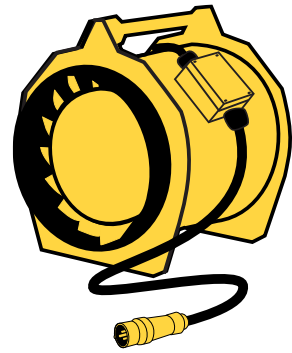
- | | Yes | No |
|---|-------------------------------------|--------------------------|
| 1. Is the equipment certified safe for use in Zone 1 where potentially explosive substances are LIKELY to be present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Is the switch located in flameproof enclosure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Does the equipment have a certified junction box? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Does the equipment have a certified cable gland? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Does the equipment have a certified power cord? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Does the equipment have a certified motor? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Does the equipment use a certified power plug? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Does the equipment have a certified housing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Is the housing flame retardant? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. Is the housing conductive? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11. Does the motor have a thermal cutoff switch? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 12. Does the equipment have the highest temperature class rating(T6)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 13. Is the equipment certified by an independent third party? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 14. Motor certified for use with flexible cable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

«Components

«Equipment Certification vs Motor Only Certification

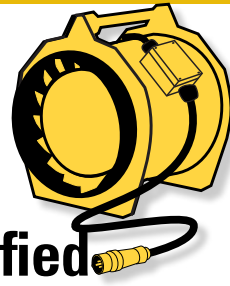
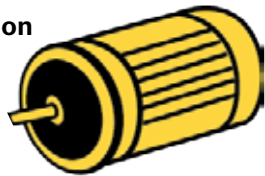
Equipment Certification

requires all components along the electrical path to be designed and constructed to function safely in potentially explosive atmospheres. All aspects and requirements of explosion protection equipment have been fulfilled according to the directive. The equipment is ready for use based on the instructions of the manufacturer and installation requirements.










Motor Only Certification

is one component of the equipment that is certified. It ensures that the motor is designed and constructed for safe use in explosive atmospheres for its intended purpose, which may be portable or fixed. However, the ventilation equipment **is not ready for use** in potentially explosive atmospheres until the whole unit has been certified. It is unsafe because an explosion can still occur from other components used in the equipment!



Whole Unit Certified

Certified Components of the Equipment Certified Ventilators

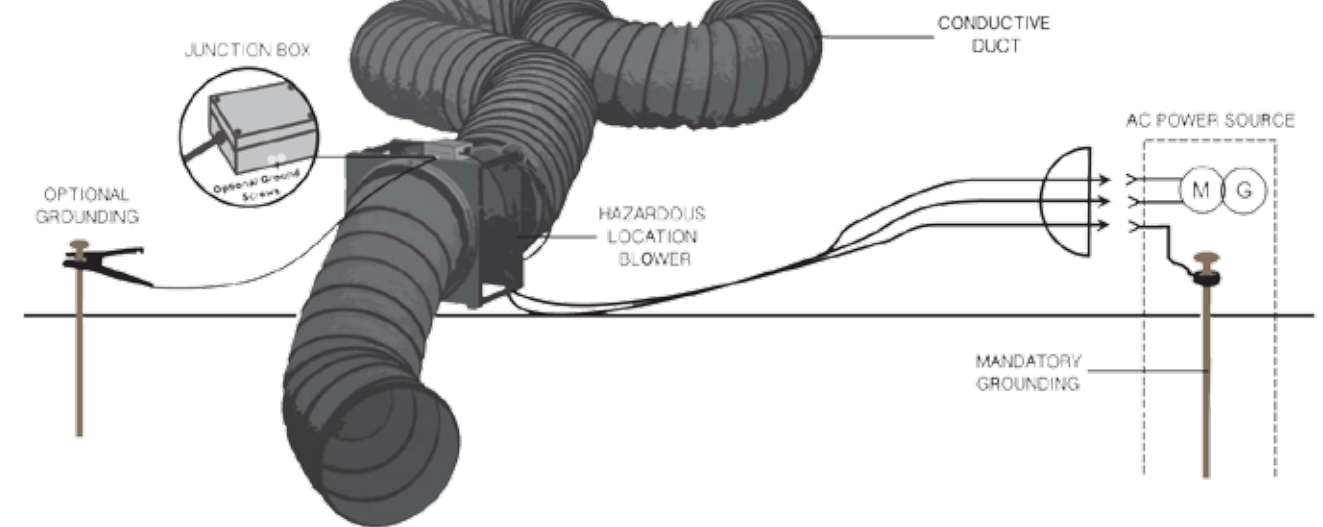
CERTIFIED COMPONENTS	CERTIFICATE NO.
 HOUSING	UL94 V-0 EN-60079-0 Anti-Static
 MOTOR	DEMKO 03 ATEX 134885U DEMKO 03 ATEX 134885U UL-BR 12.0360 U IECEX UL 12.0034U
 JUNCTION BOX	PTB 00 ATEX 1063 Sup 4 IECEX PTB 08.0006 MC, AEX-8502-X
 CABLE GLAND	IECEX BV507.0020X
 POWER CABLE	H07RN-F No. PL/07/200 UL 62 SOOW No. E146118 CSA 22.2 49 SOOW No. 237374 CE 2006/95/EC RoHS EN 2002/95/EC
 POWER PLUG	LCIE 02 ATEX 6068
WHOLE UNIT CERTIFIED	CERTIFICATE NO.
 EQUIPMENT	IECEX UL Certificate #: 13.0062X EC-Type Examination Certificate #: DEMKO 09 ATEX 0926969X INMETRO Certificate #: UL-BR 13.0593X CE Hazardous Location Marking: CE0539 Ingress Protection: IP55



IEC 60079

Ground Set-up

Typical Ground set-up



Our fans are not grounded with grounding cables. They are grounded through the power cord itself, by using statically conductive components throughout, ensuring a continuous statically conductive flow path, from the tip of the duct through the duct adapter, housing, motor, cable, to the grounding lead, to the outlet it's plugged into. Optional grounding screws are located on the junction box if the power source is not grounded.

« Fan Size vs Flow

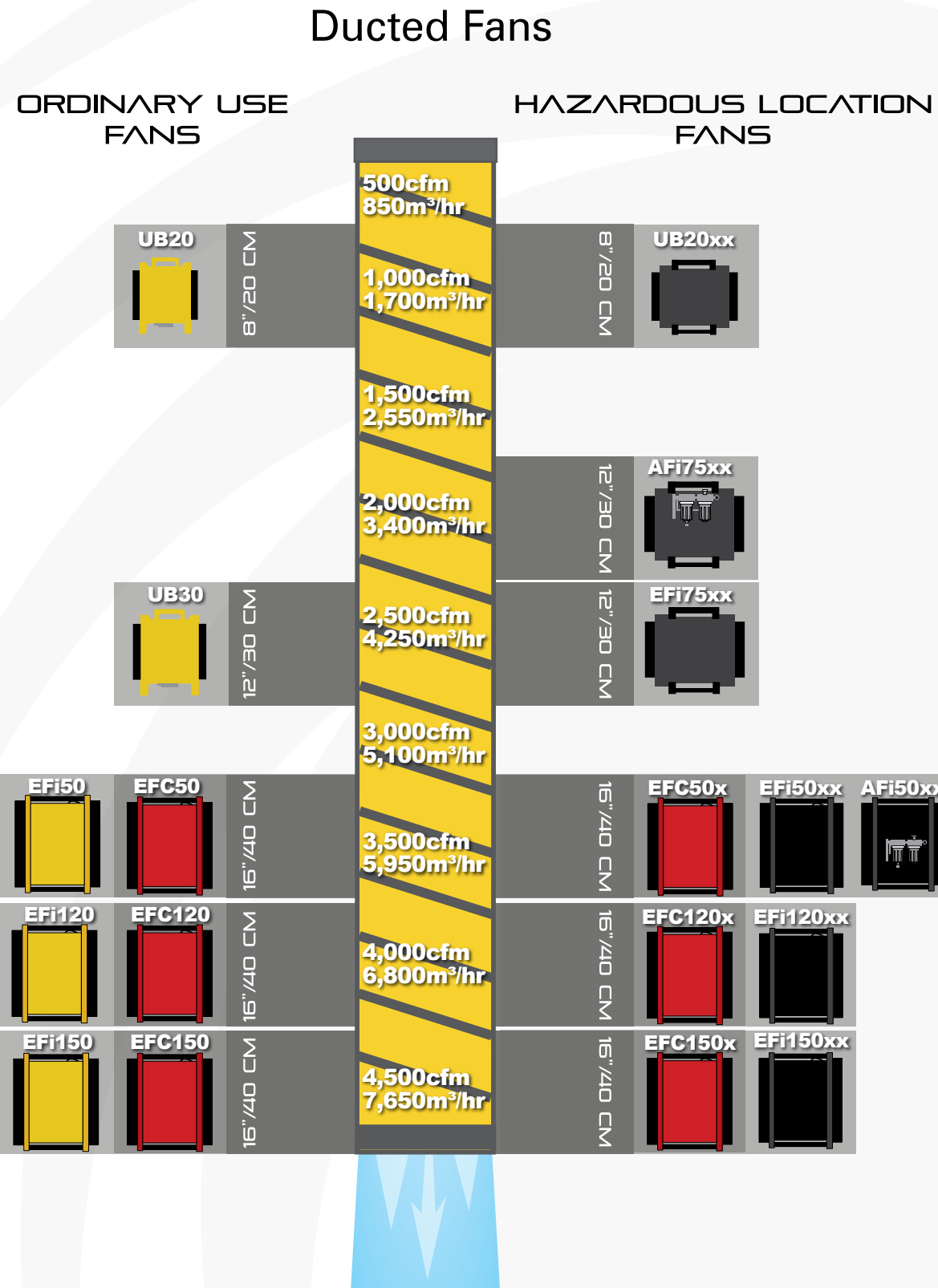


Illustration represent approximate airflow for the fans. Please view product pages for details.

« How To Order Electric Fans

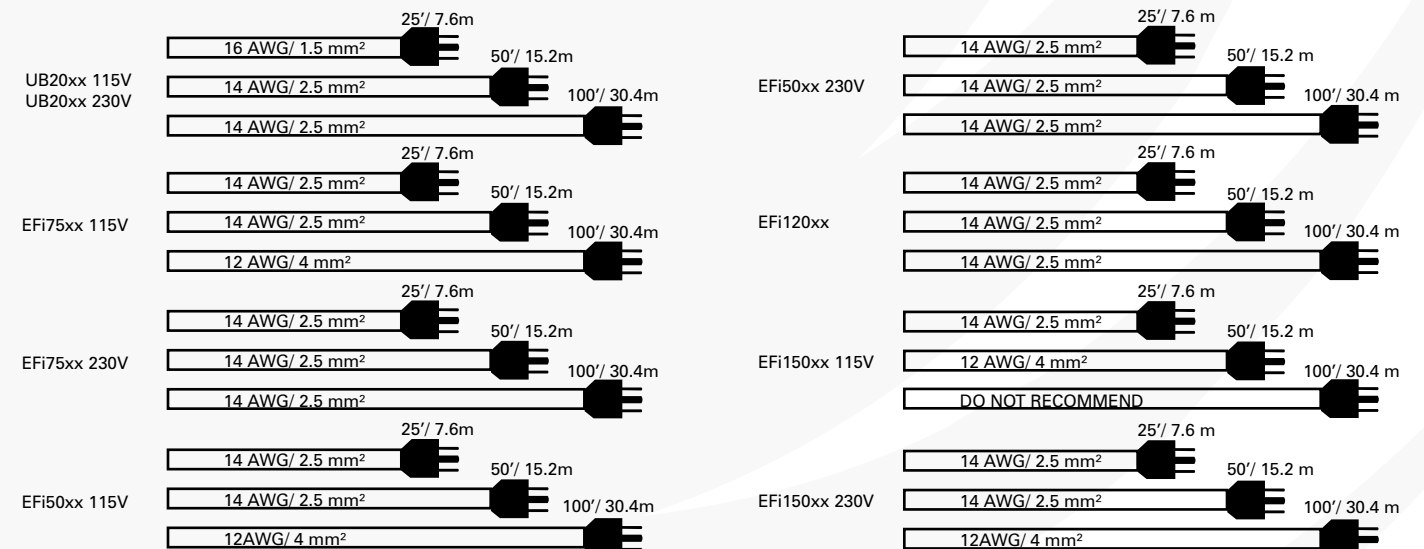
Refer to page 11 for ordering information

Standard configurations located on product pages. Customization options below.

Voltage	Cable Lengths	Plug Types
<input type="checkbox"/> 115V	<input type="checkbox"/> Standard <input type="checkbox"/> 50 ft (15.2 m) <input type="checkbox"/> 100 ft (30.4 m) Additional lengths available upon request	<input type="checkbox"/> Appleton A.T.X. 100/130V <input type="checkbox"/> Killark HazLoc 125V
<input type="checkbox"/> 230V	<input type="checkbox"/> Standard <input type="checkbox"/> 50 ft (15.2 m) <input type="checkbox"/> 100 ft (30.4 m) Additional lengths available upon request	<input type="checkbox"/> Appleton A.T.X. 200/250V <input type="checkbox"/> CEAG ATEX 200/250V <input type="checkbox"/> STAHL ATEX 200/250V Additional Plugs available upon request. Please contact Customer Service with country of operations. Plug must meet voltage and amperage requirements of the fan.


Cable Lengths

WARNING: Do not exceed cable length limitations per cable. Voltage drops occurs along the length of a cable. The longer the cable the greater the drop. Heavier wire, which conducts more electricity, is used to counter the voltage drop. See cable lengths and gauge requirements below. We don't supply cable diameter greater than 12AWG/4 mm².



«RAMFAN® 8" (20 cm) Blower/Exhauster

Whole Unit Certified  II 2 G EX de IIB T6 Gb

Ultra Quiet
74 dB @ 3' / 1 m 

Thermally protected
cutoff switch



2 Integrated Duct adapters

IP55 water tight rain tested switch enclosure

25/7.6 m extended reach power cable

Durable, PC/ABS Anti-static casing is weatherproof, flame retardant and chemical resistant

Compact &
lightweight
(22 lbs/10 kg)

UB20xx

COMMONLY EQUIPPED



Fan

+



Quick-Couple™

+



Duct

+



M.E.D.™
(Manhole Entry Device)



8" (20 cm) Blower/Exhauster

RAMFAN UB20xx

MOTOR TYPE
Totally Encapsulated Air Over
Flame Proof

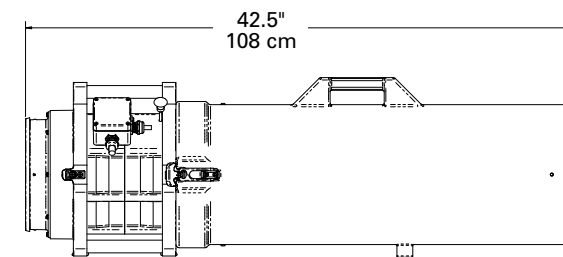
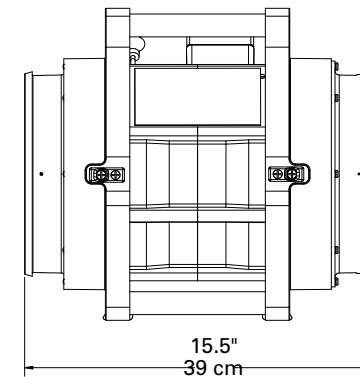
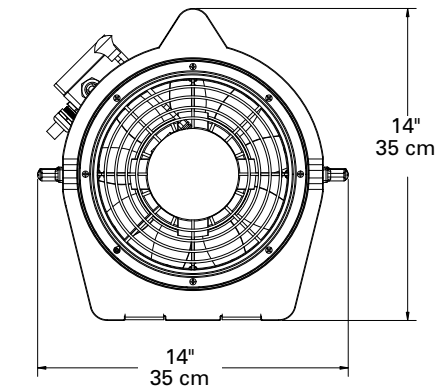
OPERATING TEMPERATURE
-30°C, TO + 40°C

PLUG TYPES
A.T.X. 100/130V
A.T.X. 200/250V

CABLE LENGTH
25'/7.6 m, 16AWG/1.5mm²

FAN CASING
Anti-static Polycarbonate ABS Alloy

RUN TIME
Continuous



«Specifications

	UB20xx	
Motor	0.33 Hp (0.25 kW)	
Power	115V, 1 ϕ , 50/60Hz	230V 1 ϕ , 50/60Hz
Amps (start/run)	7A / 2.3A	7A / 1.2A
AIRFLOW		
Free Air Through Duct	980 cfm (1,666 m ³ /hr)	819 cfm (1,932 m ³ /hr)
15'/4.6 m w/ one 90° turn:	789 cfm (1,341 m ³ /hr)	659 cfm (1,120 m ³ /hr)
15'/4.6 m w/ two 90° turns:	666 cfm (1,132 m ³ /hr)	558 cfm (948 m ³ /hr)
25'/7.6 m w/ one 90° turn:	722 cfm (1,227 m ³ /hr)	603 cfm (1,025 m ³ /hr)
25'/7.6 m w/ two 90° turns:	614 cfm (1,044 m ³ /hr)	510 cfm (867 m ³ /hr)
Dimensions (h/w/d)	14 x 14 x 15.5 in (35 x 35 x 39 cm)	
Weight	27 lbs (12 kg)	
Duct Adapters	2	
Noise	74 dB @ 3' (1 m)	

«Ordering information

RAMFAN UB20xx

UB20xx (115V)

Order# **EF7002**

Ships as 115V

Order# **EF7015** - UB20xx w/
Quick-Couple™ Canister and
15'/4.6 m duct

Order# **EF7025** - UB20xx w/
Quick-Couple™ Canister and
25'/7.6 m duct

UB20xx (230V)

Order# **EF8002**

NSN: 4940-01-603-7098

Ships as 230V

Order# **EF8015** - UB20xx w/
Quick-Couple™ Canister and
15'/4.6 m duct

Order# **EF8025** - UB20xx w/
Quick-Couple™ Canister and
25' /7.6 m duct

Accessories

**Quick-Couple™ Canister w/
15'/4.6 m duct**

Order# **EF7004CS**

**Quick-Couple™ Canister w/
25'/7.6 m duct**

Order# **EF7004CL**

Anti-static duct with bag

6'/1.8 m Order# **FDT-0806CBB**

(replacement duct for canister)
15'/4.6 m Order# **FDT-0815CBB**

25'/7.6 m Order# **FDT-0825CBB**

IMPA Codes:

EF7002 - 591416

EF8002 - 591417



«Certifications & Approvals

Certification String for all models:

Ex II 2 G EX de IIB T6 Gb ILL IEC CE

IECEX UL Certificate #: **13.0062X**

EC-Type Examination Certificate #: **DEMKO 09 ATEX 0926969X**

INMETRO Certificate #: **UL-BR 13.0593X**

CE Hazardous Location Marking: **CE0539**

Ingress Protection: **IP55**

Motor Part Number EM-F.33-60XPEX



RAMFAN UB20xx | M.E.D.™ System Manhole Entry Device



UB20xx M.E.D.™



« Ordering information

RAMFAN UB20xx M.E.D. Systems
UB20xx M.E.D. (115V)
 Order# **EF7015-MEDXX**
 UB20xx M.E.D. with 15'/4.6 m & 5'/1.5 m duct

UB20xx M.E.D. (230V)
 Order# **EF8015-MEDXX**
 UB20xx M.E.D. with 15'/4.6 m & 5'/1.5 m duct

Benefits

- Ventilate without blocking entry
- Maintain airflow while working
- Completely conductive for Hazardous Location
- Operates on 50 Hz or 60 Hz
- Durable to withstand years of use in harsh conditions



«RAMFAN® 12" (30 cm) Blower/Exhauster

EFi75xx
Whole Unit Certified  II 2 G EX de IIB T6 Gb

Static grounding cord

Durable, PC/ABS Anti-static casing is weatherproof, flame retardant and chemical resistant

Pull switch with ignition located in flameproof motor enclosure

IP55 watertight rain tested switch enclosure



Air exhausts outside of duct, not in air stream

Complete w/ filter, motor lubricant, & air control valve

2 Duct Adapters



Thermally protected cutoff switch

25/7.6 cm Extended reach power cord

AFi75xx
Air Driven
(Pneumatic)

EFi75xx
Electric

COMMONLY EQUIPPED



Fan

+



Duct



12" (30 cm) Blower/Exhausters

RAMFAN AFi75xx RAMFAN EFi75xx

MOTOR TYPE
Totally Encapsulated Air
Flame Proof

RUN TIME
Continuous

OPERATING TEMPERATURE
-30°C, T0 + 40°C

FAN CASING
Anti-static Polycarbonate
ABS Alloy

PLUG TYPES for EFi75xx
A.T.X. 100/130V
A.T.X. 200/250V

CABLE LENGTHS
25/7.6 m, 14AWG/ 2.5mm²



AFi75xx



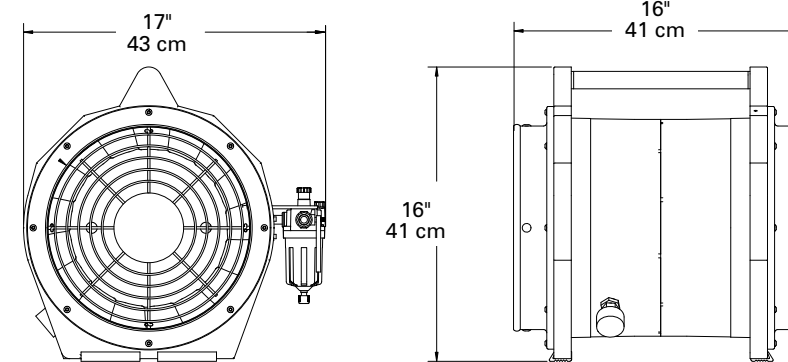
EFi75xx

«Specifications

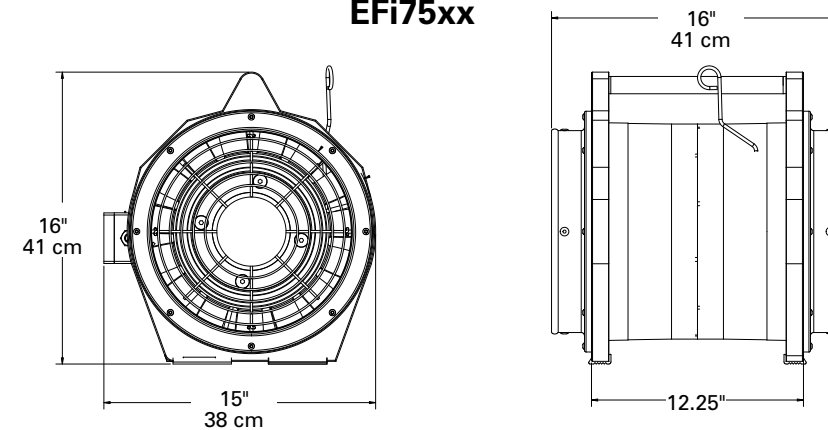
	AFi75xx	EFi75xx
Motor	GAST 4AM-NRV-50C	0.75 Hp (0.56 kW)
Power	-	115/230V, 1 ϕ , 50/60Hz
Amps (start/run)	-	115V (37A / 7.2A), 230V (27A / 3A)
AIRFLOW		
Free Air Through Duct	2,042 cfm (3,471 m ³ /hr (measurement @ 80psig inlet air)	2,500 cfm (4,250 m ³ /hr)
15'/4.6 m w/ one 90° turn:		1,664 cfm (2,829 m ³ /hr)
15'/4.6 m w/ two 90° turns:		1,529 cfm (2,599 m ³ /hr)
Dimensions (h/w/d)	16 x 17 x 16 in (41 x 43 x 41 cm)	16 x 15 x 16 in (41 x 38 x 41 cm)
Weight	38 lbs (15 kg)	44 lbs (20 kg)
Duct Adapters	2	
Noise	89 dB @ 3' (1 m)	
AIR CONSUMPTION AND HORSEPOWER REQUIREMENTS FOR AIR COMPRESSOR*		
Air Pressure (PSIG) Inlet Air	80	-
Air Consumption scfm (m³/hr)	40 (68)	-
Compressor Hp	6.4	-
Induction Ratio	51:1	-

*Values are shown for single-stage piston-type air compressors operating at 85% efficiency, and working on intake air under standard conditions.

AFi75xx



EFi75xx



«Ordering information

RAMFAN AFi75xx
Order# **AB7000**

RAMFAN EFi75xx
Order# **EB7201XX**
Ships as 115V

Order# **EB7201XX-230**
Ships as 230V

Accessories

Anti-static Duct
15'/4.6 m Order# **FDT-1215CBB**
25'/7.6 m Order# **FDT-1225CBB**

Duct Adapter/Reducer 12"-8"
Order# **EC0301**

IMPA Codes:
EB7201xx - 591506, 591418, 591423
EB7201xx-230 - 5911506, 5911419, 591424

AB7000 - 591511, 591425



«Certifications & Approvals

EFi75xx Certification String II 2 G EX de IIB T6 Gb
IECEX UL Certificate #: **13.0062X**
EC-Type Examination Certificate #: **DEMKO 09 ATEX 0926969X**
INMETRO Certificate #: **UL-BR 13.0593X**
CE Hazardous Location Marking: **CE0539**
Ingress Protection: **IP55**
Motor Part Number: EM-F75-60-XPEX

AFi75xx Motor Certification String II 2 GD c T4+1° C < Ta < +40° C



«RAMFAN® 16" (40 cm) Blower/Exhausters

EFi120xx/EFi150xx
Whole Unit Certified  II 2 G EX de IIB T6 Gb

Static grounding cord

Durable, PC/ABS Anti-static casing is weatherproof, flame retardant and chemical resistant

IP55 rain tested switch enclosure

Air exhausts outside of duct, not in airstream

Complete w/ filter, motor lubricant, & air control valve

2 Duct adapters



**AFi50xx
Air Driven**

**EFi50xx*/EFi120xx/EFi150xx
Electrical**

*EFi50xx has 21 blades

COMMONLY EQUIPPED



Fan

+



Duct



16" (40 cm) Blower/Exhausters

RAMFAN AFi50xx RAMFAN EFi50xx/EFi120xx/EFi150xx

MOTOR TYPE
Totally Encapsulated Air Over
Flame Proof

FAN CASING
Anti-static Polycarbonate ABS Alloy

OPERATING TEMPERATURE
-30°C, TO + 40°C

RUN TIME
Continuous

PLUG TYPES for EFixx Series
A.T.X. 100/130V
A.T.X. 200/250V

CABLE LENGTHS
EFi120xx/EFi150xx
25/7.6 m, 14AWG/ 2.5mm²
EFi50xx
30/10 m, 14AWG/ 2.5mm²



AFi50xx

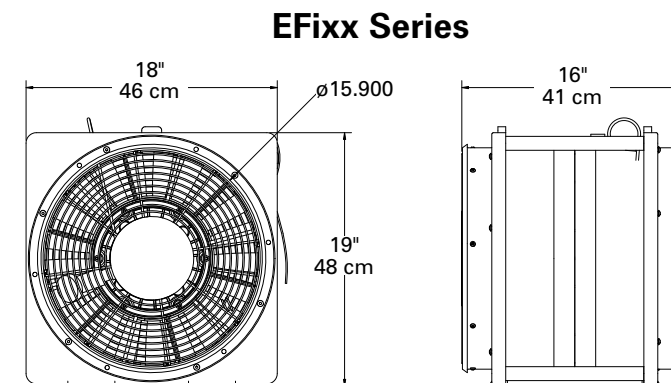
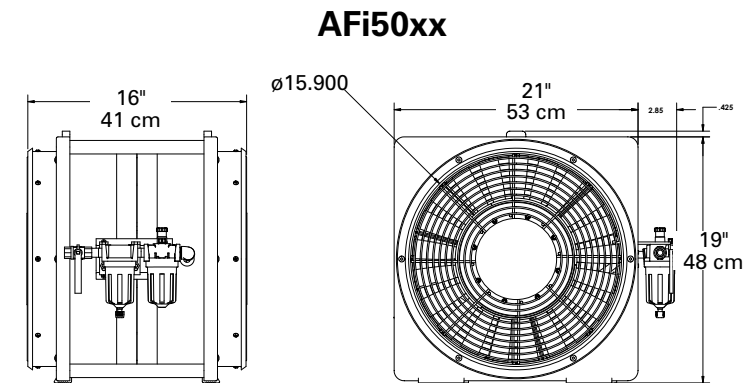


EFixx Series*
*21 blades for EFi50xx

« Specifications

	AFi50xx	EFi50xx	EFi120xx	EFi150xx
Motor	GAST 4AM-NRV-50C	0.5 Hp (0.37 kW)	1.2 Hp (0.9 kW)	1.5 Hp (1.1 kW)
Power	-	115/230V, 1ø, 50/60 Hz	110/240V, 1ø, 50Hz	115/230V, 1ø, 50/60 Hz
Amps start run	-	115V: 21A 230V: 10A 115V: 6A 230V: 3A	110V: 54A 240V: 27A 110V: 10A 240V: 5A	115V: 80A 230V: 40A 115V: 15A 230V: 8A
AIRFLOW				
Free Air Through Duct 15'/4.6 m w/ one 90° turn:	3,200 cfm (5,440 m ³ /hr) (measurement @ 80psig inlet air)	3,200 cfm (5,440 m ³ /hr)	3,750 cfm (6,375 m ³ /hr)	4,459 cfm (7,580 m ³ /hr)
		1,935 cfm (3,289 m ³ /hr)	2,700 cfm (4,590 m ³ /hr)	3,179 cfm (5,404 m ³ /hr)
Dimensions (h/w/d)	19 x 21 x 16 in (48 x 53 x 41 cm)	19 x 18 x 16 in (48 x 46 x 41 cm)		
Weight	43 lbs (20 kg)	49 lbs (22 kg)	55 lbs (25 kg)	61 lbs (28 kg)
Duct Adapters	2			
Noise	89 dB @ 3' (1 m)	90.2 dB @ 3' (1 m)	86.1 dB @ 3' (1 m)	90.2 dB @ 3' (1 m)
AIR CONSUMPTION AND HORSEPOWER REQUIREMENTS FOR AIR COMPRESSOR*				
Air Pressure (PSIG) Inlet Air	80	-	-	-
Air Consumption scfm (m³/hr)	40 (68)	-	-	-
Compressor Hp	6.4	-	-	-
Induction Ratio	80:1	-	-	-

*Values are shown for single-stage piston-type air compressors operating at 85% efficiency, and working on intake air under standard conditions.



« Certifications & Approvals

AFi50xx/EFi50xx/EFi120xx/EFi150xx Approvals

EFi120xx/EFi150xx Approval

Certification String: II 2 G EX de IIB T6 Gb

IECEX UL Certificate #: **13.0062X**

EC-Type Examination Certificate #: **DEMKO 09 ATEX 0926969X**

CE Hazardous Location Marking: **CE0539**

Ingress Protection: **IP55**

EFi150xx Approval

INMETRO Certificate #: **UL-BR 13.0593X**

EFi50xx Motor Approval LISTED Class I-II Group D, E, F, G

EFi50xx Motor Part Number 1131007404

AFi50xx Motor Certification String II 2 GD c T4+1° C < Ta < +40° C

« Ordering information

RAMFAN AFi50xx
Order# **AA7000**

RAMFAN EFi50xx
Order# **EA8000XX**
Ships as 230V
Order# **EA8000XX-110**
Ships as 115V

RAMFAN EFi120xx
Order# **EA8120XX**
Ships as 240V
Order# **EA8120XX-110**
Ships as 110V

RAMFAN EFi150xx
Order# **EG8200XX**
Ships as 115V
Order# **EG8200XX-230**
Ships as 230V

Accessories

Anti-static Duct

15'/4.6 m Order# **FDT-1615CBR**
25'/7.6 m Order# **FDT-1625CBR**

IMPA Codes:

EG8200xx - 5911507

EG8200xx-230 - 591507

AA7000 - 591512, 591426



16" (40 cm) Blower/Exhausters

«RAMFAN® Venturi



Tough and durable
Anti-static polymer housing

Venturi

Fixed standard API openings

Powered by compressed air or Saturated stream

Benefits

- Minimal Maintenance (no moving parts)
- Cylindrical mixing chamber delivers higher induction ratios
- Highly reliable

COMMONLY EQUIPPED

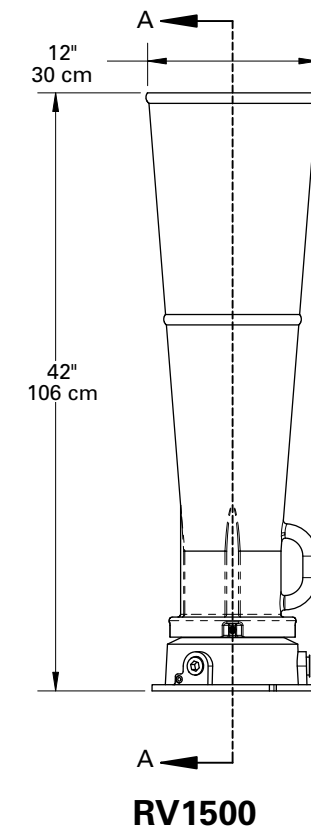
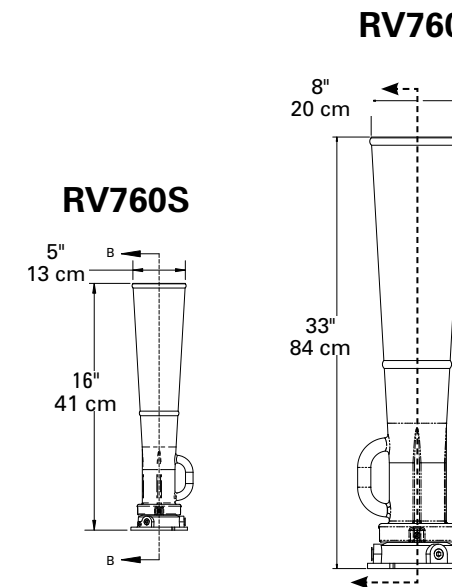


Cone

+



Static Cord



«Specifications

	RV760S	RV760	RV1500
Dimensions (d/h)	5 x 16 in (13 x 41 cm)	8 x 33 in (20 x 84 cm)	12 x 42 in (30x 41 cm)
Weight	5 lbs (2 kg)	6 lbs (3 kg)	19 lbs (9 kg)
Inlet Connection	0.5" (12.7 mm) NPT		1" (25.4 mm) NPT
Flange	API 3"/76.2 mm, (6.56"/167 mm BC)		API 6"/152.4 mm, (6.56"/167 mm BC)
40PSIG INLET AIR			
Free Air	810 cfm (1,377 m ³ /hr)	1,001 cfm (1,702 m ³ /hr)	2,740 cfm (4,658 m ³ /hr)
Air Consumption	22 cfm (37 m ³ /hr)		59 cfm (100 m ³ /hr)
Induction Ratio	37:1	46:1	47:1
80PSIG INLET AIR			
Free Air	1,180 cfm (2,006 m ³ /hr)	1,439 cfm (2,446 m ³ /hr)	3,329 cfm (5,659 m ³ /hr)
Air Consumption	58 cfm (99 m ³ /hr)		124 cfm (211 m ³ /hr)
Induction Ratio	20:1	25:1	27:1
AIR CONSUMPTION AND HORSEPOWER REQUIREMENTS FOR AIR COMPRESSOR*			
Air Pressure (PSIG) Inlet Air	80		
Air Consumption scfm (m³/hr)	58 (99)		124 (211)
Compressor Hp	9.3		19.8

*Values are shown for single-stage piston-type air compressors operating at 85% efficiency, and working on intake air under standard conditions.

«Ordering information

RAMFAN Venturi

RV760S
Order# RV760S

RV760
Order# RV760

RV1500
Order# RV1500

Accessory

Static Cord
Order# AZ-RAC-10



Static Cord



Durable Anti-static ducting

The ECKO Flex™ ducting allows great flexibility with several diameters and lengths to allow you to safely ventilate virtually any application. With new and improved construction, our unique Anti-static ducting is available on short lead times with many items held in stock. Every duct purchase comes with its own duct carrying bag to easily transport and store the duct.

Flexible ducting is vitally important in improving safety and working conditions. It can be used to bring fresh air into an area, extract contaminated air, and be used to direct heated air where it is needed. Using ducting gives you greater flexibility.



This duct system is a result of Euramco Safety's no compromise approach to user safety. Carefully selected materials, robust design and rigorous testing combine to bring you a ducting system second to none. Using an Anti-static reinforced polymer material with an integrated steel helix wire, it has been vigorously tested by an independent laboratory and passed both the anti-static and flammability tests.

By using the ECKO Flex ducting system you can be sure you are providing the safest system for your team. The safer the area and the better the environment the quicker the tasks will get completed. This will enable projects to be finished on time or early. This brings great benefits to you and your team. The duct is compatible with several brands of ventilators, including RAMFAN®.

Key Features

- Anti-static, safely conduct electricity to the ground circuit of the blower
- Non-collapsible, reinforced duct
- 8"/20 cm, 12"/30 cm or 16"/40 cm diameters
- Flame retardant
- Carrying bag included for storage and transport

«Ordering information

Anti-static Duct
8"/20 cm x 15'/4.6 m
order# **FDT-0815CBB**

8"/20 cm x 25'/7.6 m
order# **FDT-0825CBB**

Anti-static Duct
12"/30 cm x 15'/4.6 m
order# **FDT-1215CBB**

12"/30 cm x 25'/7.6 m
order# **FDT-1225CBB**

Anti-static Duct
16"/40 cm x 15'/4.6 m
order# **FDT-1615CBB**

16"/40 cm x 25'/7.6 m
order# **FDT-1625CBB**



« ECKO//Flex™ ANTI-STATIC DUCT

COMPONENTS

« 8"/20 cm Diameter

FDT-0815CBB (15'/4.6 m)

FDT-0825CBB (25'/7.6 m)



Anti-static Duct

COMPATIBLE WITH:



UB20xx Portable Fan

« 12"/30 cm Diameter

FDT-1215CBB (15'/4.6 m)

FDT-1225CBB (25'/7.6 m)



Anti-static Duct



EFi75xx Portable Fan



AFi75xx Portable Fan

« 16"/40 cm Diameter

FDT-1615CBR (15'/4.6 m)

FDT-1625CBR (25'/7.6 m)



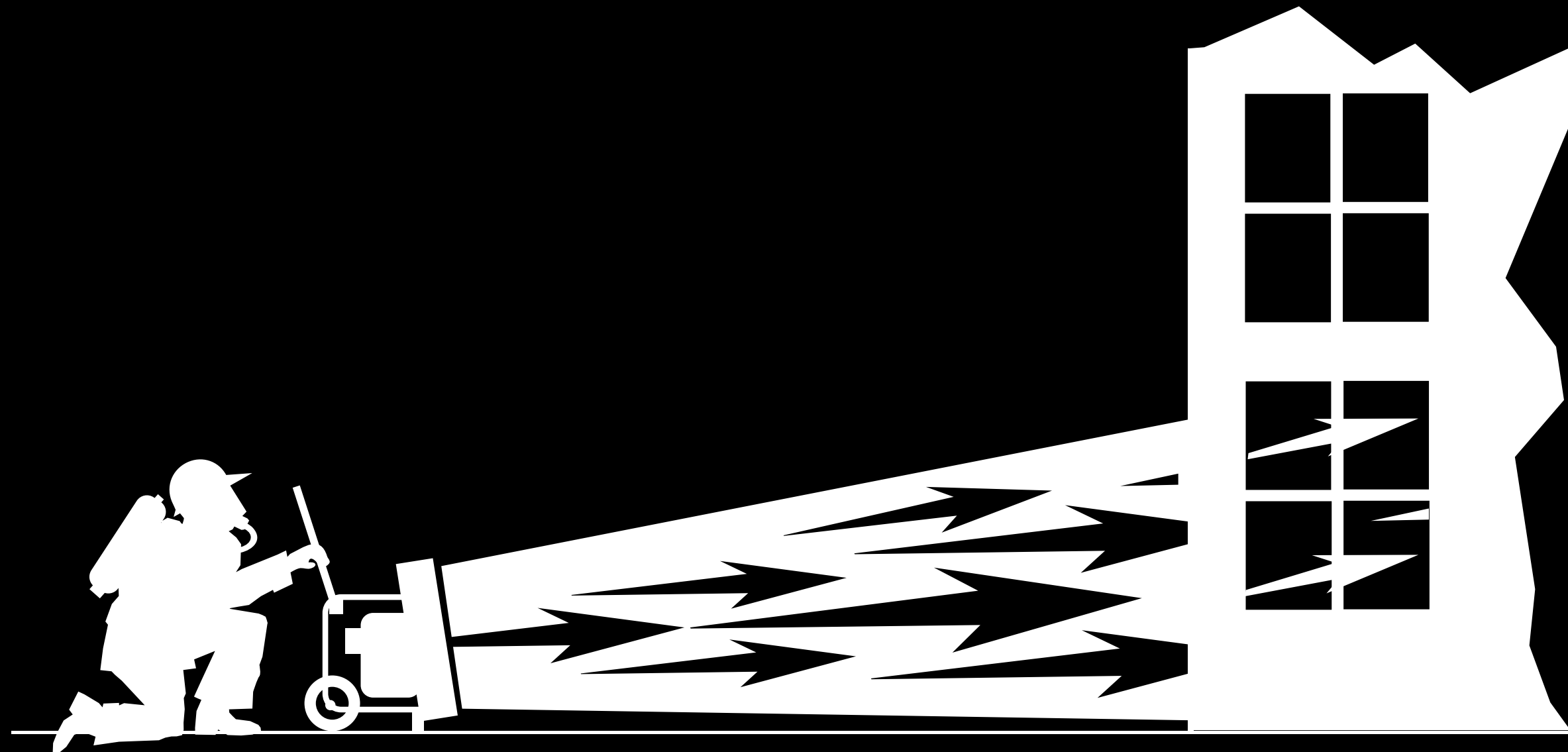
Anti-static Duct



EFi50xx/EFi120xx/EFi150xx Portable Fan

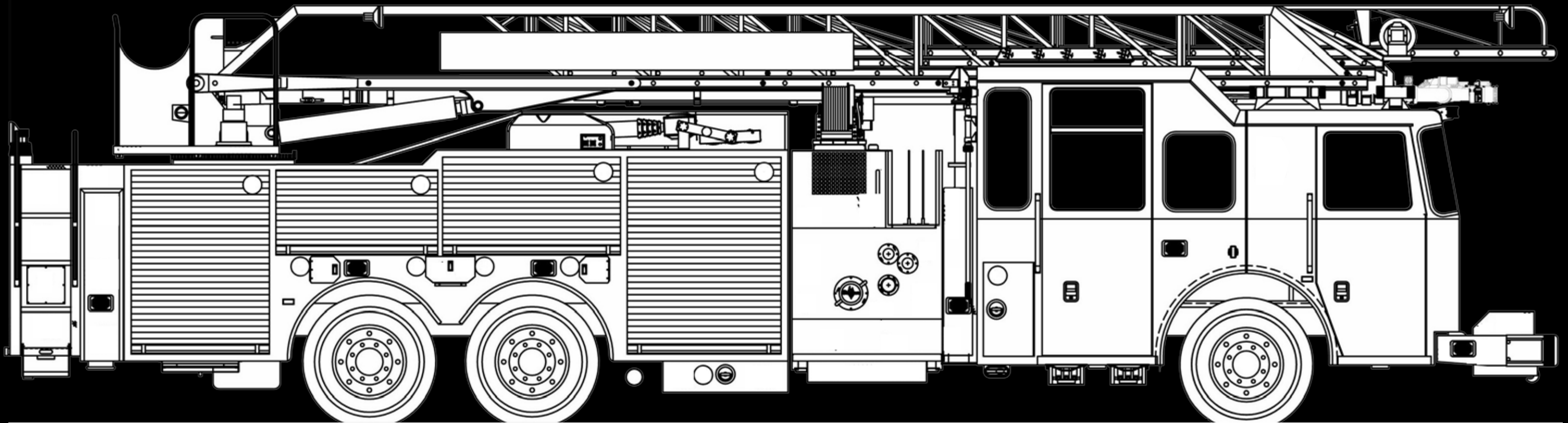


AFi50xx Portable Fan



Applications

- FlowPath™ Control
- Large Structure Ventilation - LSV
- Smoke Ejectors



Fire Apparatus Models

- Aerial - Gas/Electric/Smoke Ejectors
- Tiller - Gas/Electric/Smoke Ejectors
- Hazmat Rescue - Smoke Ejectors/Hazmat Fans
- Heavy Duty Rescue - Electric/Hazmat/Gas Fans
- Pumper - Gas/Electric Fans
- Rescue Pumper - Electric/Hazmat/Gas Fans

«RAMFAN® Fire Rescue Packages



Aerial

AERIAL (Includes: Gas Fan, Electric Fan and Smoke Ejector)



Tiller

TILLER (Includes: Gas Fan, Electric Fan and Smoke Ejector)



«RAMFAN® Fire Rescue Packages



Hazmat Rescue

HAZMAT RESCUE (Includes: Hazmat Fan & Smoke Ejector)



Heavy Duty Rescue

HEAVY DUTY RESCUE (Includes: Hazmat, Electric & Gas Fans)



«RAMFAN® Fire Rescue Packages



Pumper



Rescue Pumper

PUMPER (Includes: Gas & Electric Fans)



RESCUE PUMPER (Includes: Hazmat, Electric & Gas Fans)



«PRODUCT SELECTION GUIDE

1 Choose Power Source

G = Gas
Best Performance
Best Portability

E = Electric
Quick Operation
Clean Atmosphere

W = Water
Intrinsically Safe,
Clean Atmosphere

2 Choose Airflow Type

Ducted

Ducted airflow is used during confined space rescues. Determine if the area contains or has the potential to contain a hazardous or explosive atmosphere. **WARNING:** Potentially explosive environments can be very dangerous. Only equipment that is designed and certified for use in hazardous locations is recommended to ventilate the space. See fan certifications to determine the limits of the fan. The size of the space will determine the of the size fan and duct needed. RAMFAN 8" (20 cm) fans and duct are used in spaces under 2,000 ft³ (57 m³), 12" (30 cm) fans and duct for spaces between 2,000 ft³ (57 m³) to 5,000 ft³ (142 m³), and 16" (40 cm) fans and duct for spaces over 5,000 ft³ (142 m³) and under 10,000 ft³ (285 m³).

F Series/ V Series

Wide stream, lower velocity air flow
Proven designs, setting the standards of PPV since 1992

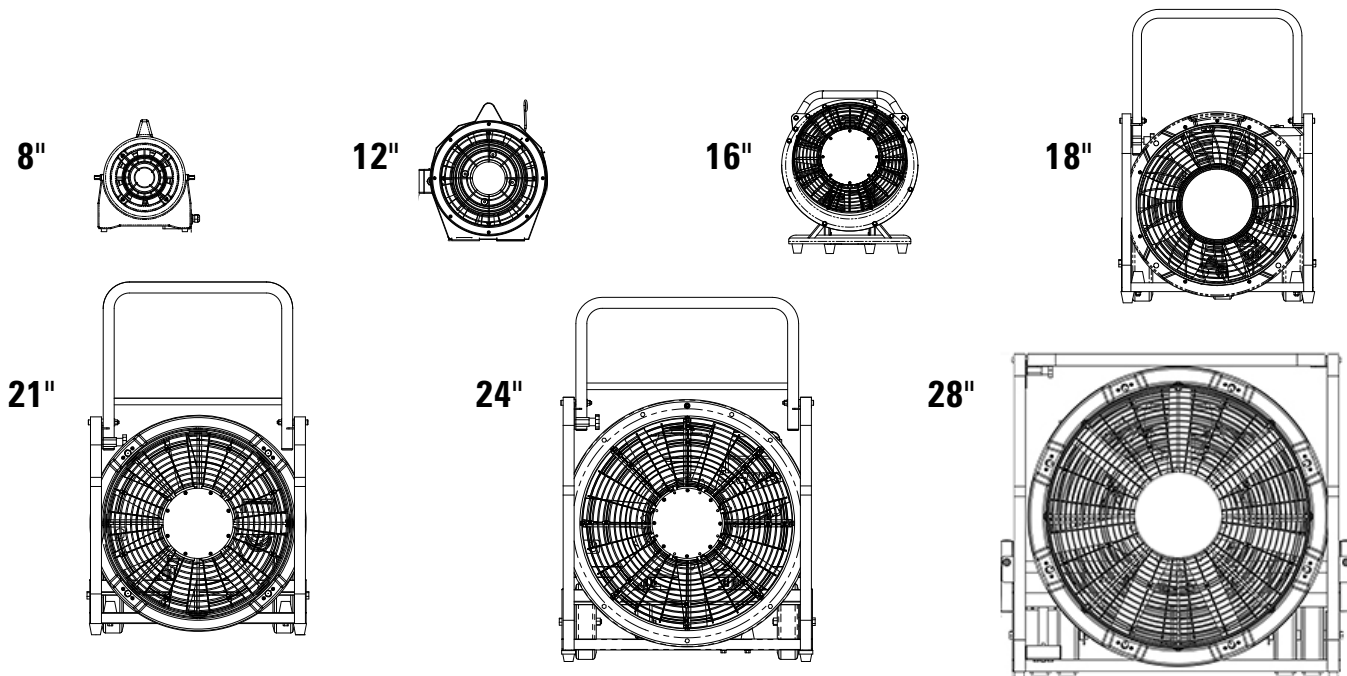
X Series/P Series PowerStream® Fans

PowerStream® equipped blowers provide enhanced FlowPath™ control by straightening the airstream and increasing airflow velocity

Benefits to users:

- 1) Increased flexibility in setback distance
- 2) Simplicity of positioning
- 3) Higher velocity airflow establishes FlowPath™ faster than TurboForce™ fans
- 4) More efficient than TurboForce PPV fans, FlowPath allows use of smaller power source for same performance of larger fans

3 Choose the size of your fan: Diameter




4 Select input power

Choose your Horsepower according to the chart.

5 Choose fan based on environment



 **Confined Spaces**
Safe for use in ordinary locations

 **Structural Ventilation**
Safe for use in ordinary locations

 **Hazardous Locations**
Certified for safe use in Hazardous Locations
Gas, Zone 1, Ethylene, T6

 **Large Structure Ventilations**
Safe for use in ordinary locations

ORDERING MATRIX

		1	2	3	4	5
		Select Power Source	Select Airflow Type	Select Fan Diameter	Select Input Power	Select Environment
Water	Electric	Explosion Proof	Ducted	8" (20 cm)	0.33 Hp (0.25kW)	
				12" (30 cm)	0.75 Hp (0.56kW) 1 Hp (0.8kW)	
Gas	Electric	Explosion Proof	Ducted	16" (40 cm)	1.5 Hp (1.1kW) 2.1 Hp (1.6kW) 4.6 Hp (3.4kW) 4.8 Hp (3.5kW) 22.3 Hp@250psi (16.6kW@1.75MPa)	
					18" (46 cm)	
				21" (54 cm)		5.5 Hp (4.1kW) 6.5 Hp (4.8kW) 33.5 Hp@250psi (25kW@1.7MPa)
					24" (60 cm)	8.5 Hp (6.3kW)
				28" (70 cm)	18 Hp (13.4kW) 23 Hp (17kW)	

1 FAN GROUPS

G

Gas engines are portable and powerful. They have no power cord restrictions.



E

Electric Engines are gasoline, motors are electric have zero emissions and are much quieter to operate.



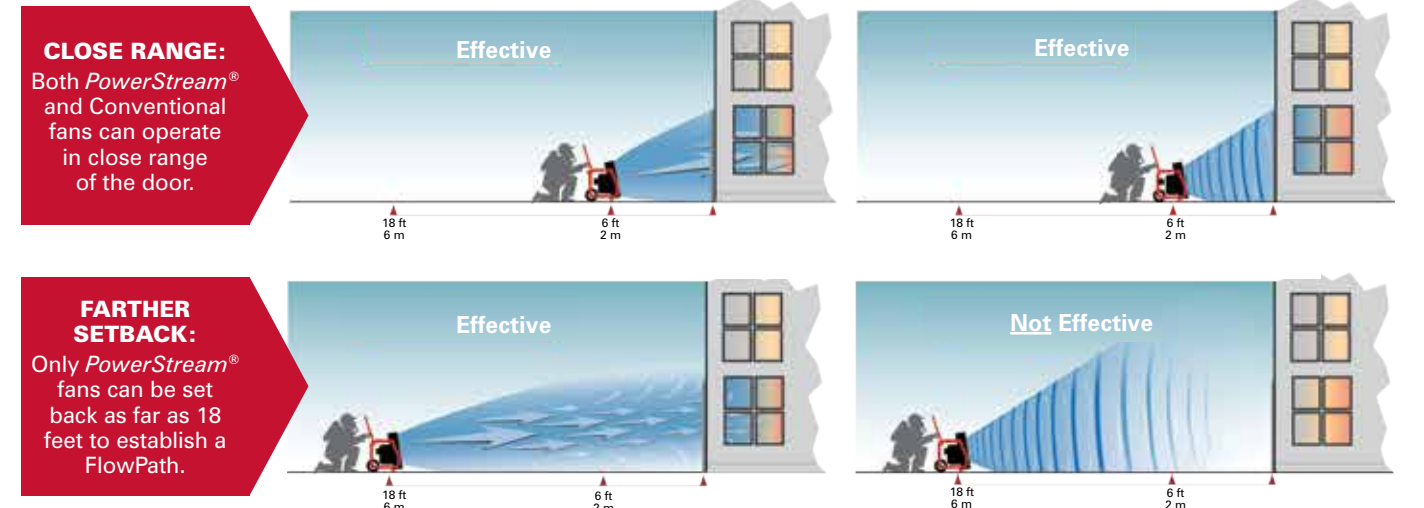
W

Water fans can be used in potentially explosive environments and have zero emissions.

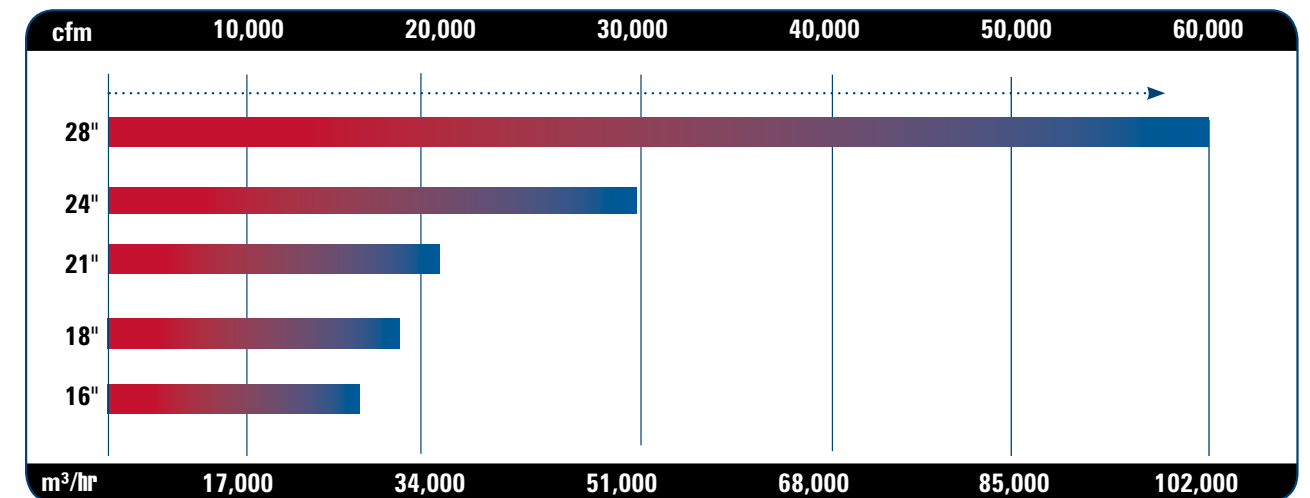


2 STREAM PATTERN

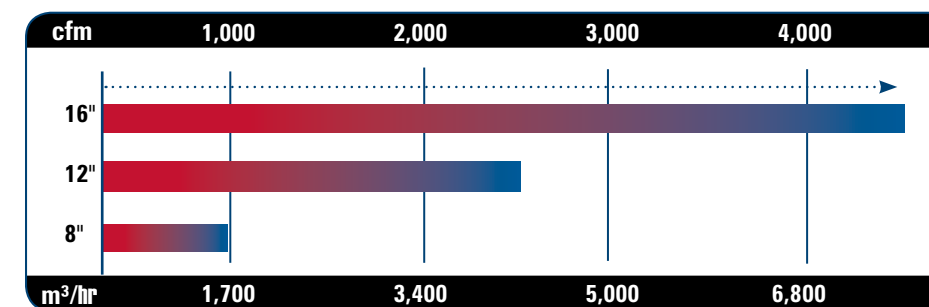
PPV with PowerStream is like going from a fog nozzle to straight bore. This allows setback distance flexibility.



PPV AIRFLOW



DUCTED AIRFLOW



3 FLOW DIAMETER

FAN SIZE VS FLOW

GAS POWERED BLOWERS

ELECTRIC OR WATER POWERED BLOWERS

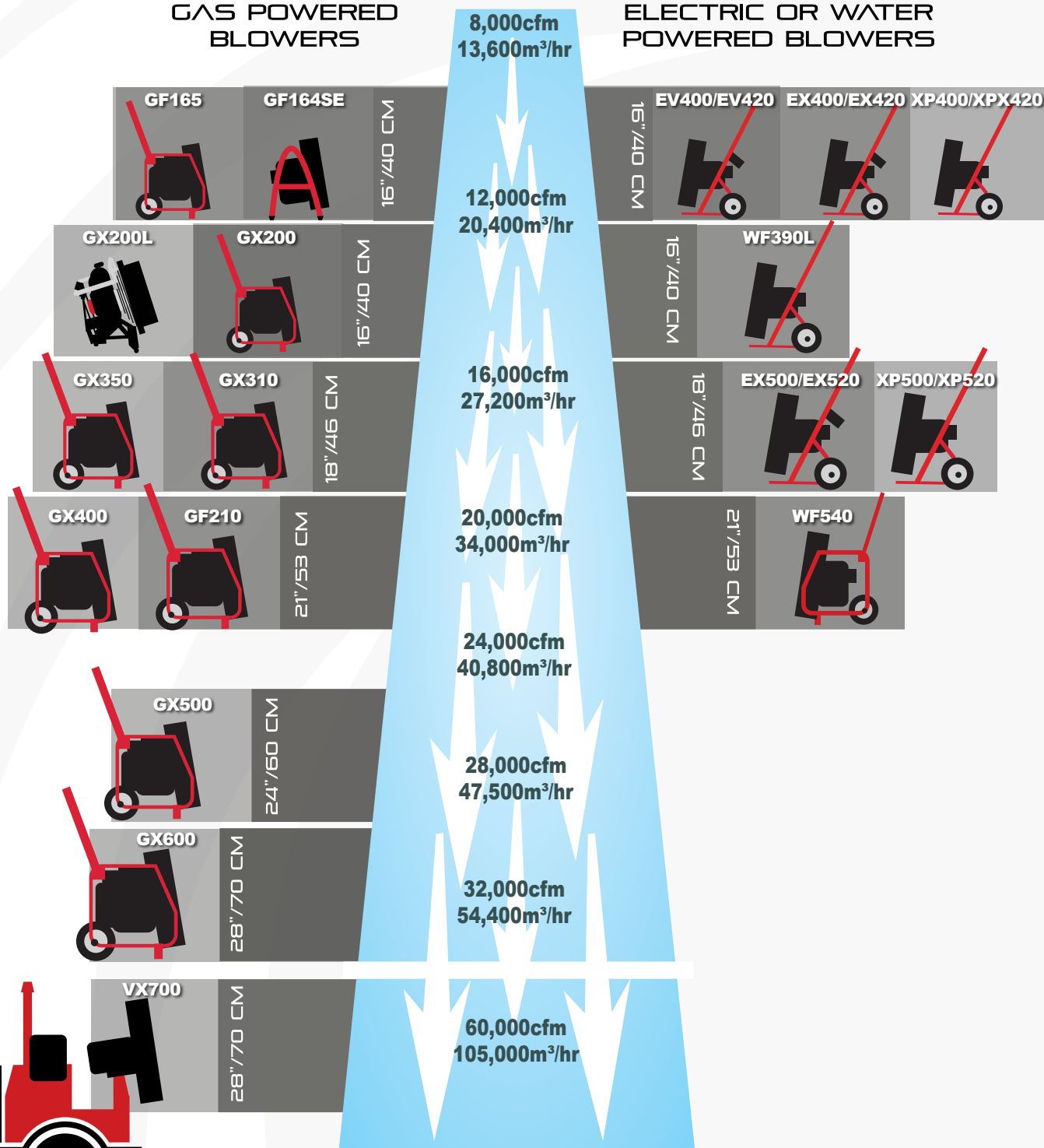


Illustration represent approximate airflow for the fans. Please view product pages for details.

FAN SIZE VS FLOW

Ducted Fans

ORDINARY USE FANS

HAZARDOUS LOCATION FANS

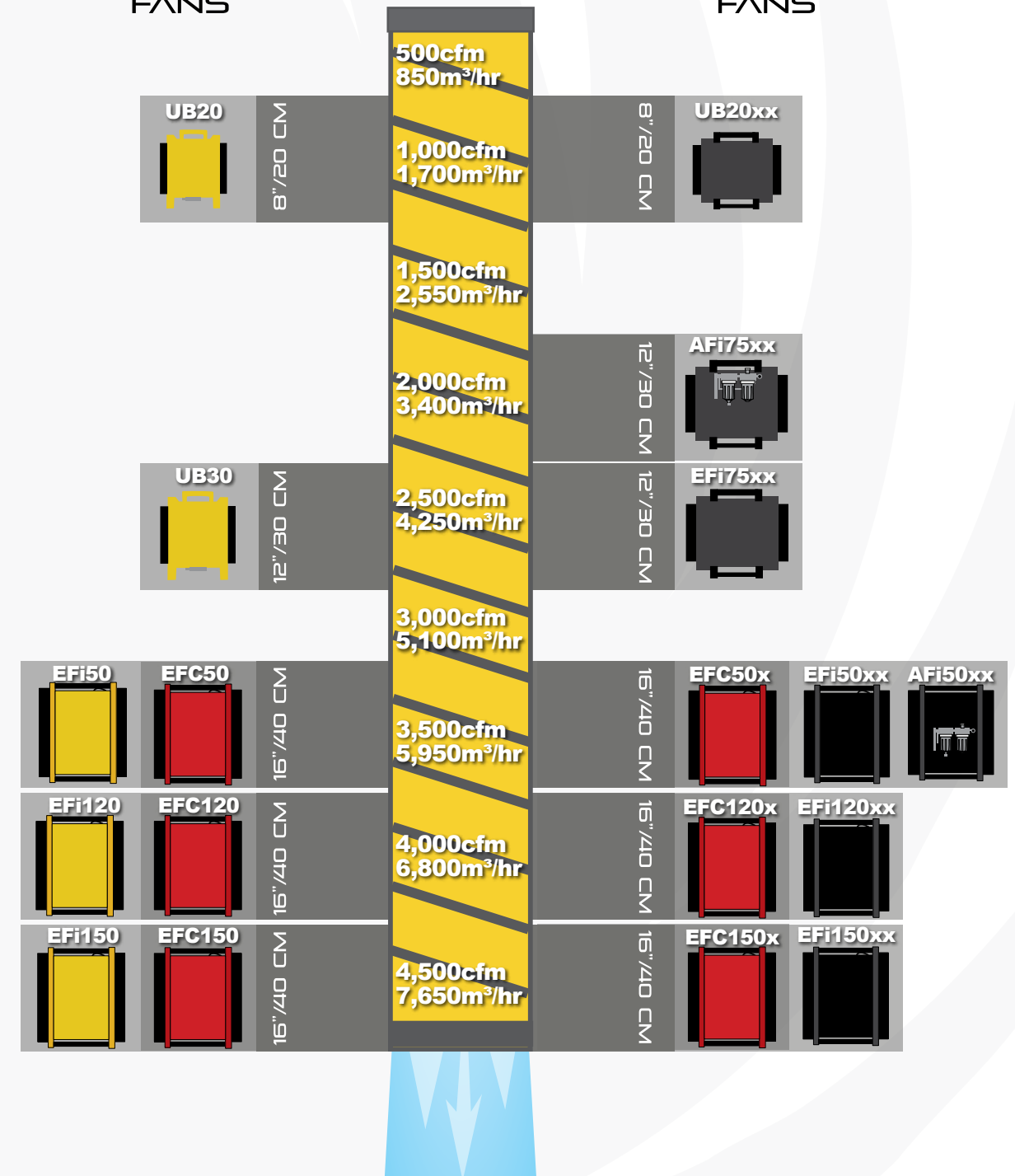


Illustration represent approximate airflow for the fans. Please view product pages for details.

4 INPUT POWER

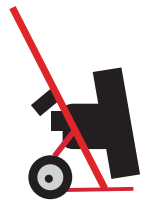
«How to choose input power

Generally speaking, input power has a direct relationship to airflow. The higher the input power for identical fans the greater the airflow. There is inverse relationship to power and portability. Generally, the smaller the motor on the fan the easier it is to move. Input power can come from the form of gas, electric or water.

G E W



Gas fans have the most power dense input power. Gas is used to power the large engines found on the LSV (Large Structure Ventilation) fans to produce high airflow to ventilate large buildings quickly. Smaller gas powered fans used in PPV produce higher airflow rates than electrical fans of the same size. The small gas engines found on the GX200 and GX200L emit very low CO levels that will quickly disperse with natural ventilation after the motor is turned off. The smaller the engine the less carbon monoxide it will produce.



Electric fans do not emit carbon monoxide which makes them an attractive option for ventilating smaller structures. Most electric fans on the market will top off around 1.5 hp because the limitation in power that can be drawn from an outlet without tripping the breaker. The Dual Current EX400 and EX500 fans get an additional boost to the input power by having the option to connect to GFCI 20A fire truck circuit! The limitations to the horsepower of an electric fan make them ineffective for ventilating large structures.



Water fans can be connected to the pump on an apparatus or a fire hydrant to power the fans. The higher the water pressure, the more horsepower. However, one important consideration is that very high water pressure can be dangerous. RAMFAN water fans are equipped with more nozzles for fans with low pressure inlet sources and fewer nozzles for fans with high pressure inlet sources.

5 FAN OPERATING ENVIRONMENT

«Look for the Icons



Confined Space

Confined Space refers to a space which by design has limited openings for entry and exit, unfavorable natural ventilation which could contain or produce dangerous air contaminants, and which is not intended for continuous employee occupancy.

Models: UB20, UB30, EFi50, EFi120 & EFi150



Hazardous Locations

Hazardous Locations include Permit-Required Confined Spaces. To be a Permit-Required Confined Space the space must meet all the confined space characteristics plus just one of the following characteristics:

- Contain or has the potential to contain a hazardous atmosphere
- Contains material that could engulf an entrant
- Has an internal configuration that could trap or asphyxiate an entrant
- Contains any other recognized serious safety or health hazard

Atmospheric Hazards of Permit-Required spaces can change instantly. One moment the space may be safe and the next it is hazardous. Be aware of the following hazards at all time while working in

Permit-Required Space:

- Oxygen < 19.5%
- Oxygen > 23.5%
- Flammables > 10% LEL
- Toxins > PEL

Models: UB20xx, EFi75xx, EFi50xx, EFi120xx & EFi150xx



Structural Ventilation

Small and mid-size buildings that need ventilation to remove smoke, heat and fire gases.

Models: GX200, GX200L, GF164SE, GF165, EX400/EX420, EV400/EV420, XP400/XP420, XP500/XP520, GX310, GX350, GF210, GX400, WF390L & WF540



Large Structure Ventilations

Large Structures include big box stores, warehouses, airports, hotels, factories, high-rises, and other large locations that require massive ventilation. The larger the area the more ventilation is needed.

Models: GX500, GX600 & VX700

«RAMFAN® 8" (20 cm) Blower/Exhausters

Confined Space Ventilators

Confined space rescues require additional considerations to perform a rescue. In addition to general risks there is a danger of asphyxiation (lack of oxygen), poisoning, or fire and explosion. A fan can be used during confined space rescue to combat the additional risks.

Ventilation can be performed by supplying or exhausting air or both. The weight and characteristics of the atmospheric hazard as well as the environmental conditions of the general area will dictate the type(s) of ventilation applied. Using a blower that can be used in positive or negative pressure ventilation is ideal. The safest option is to use the UB20xx explosion proof ventilator. It prevents a source of ignition in a flammable environment.

In addition to the fan, consider an assortment of duct and Manhole Entry Device (M.E.D.). The M.E.D. will permit access through the manhole without interrupting airflow. Spaces that are deep may require extensive duct work. Multiple fans used in different configurations may be required. The more options you have, the better equipped you will be to address the problem.

Key Features

- Powerful, compact size and lightweight
- High volume axial blower with ultra-quiet operation
- Corrosion-proof, dent-resistant & virtually indestructible
- IP55 rain tested switch enclosure
- Durable housing for a long shelf life
- Thermal switch provides overheat protection
- Certified, explosion-proof (UB20xx only)



UB20

Refer to page 12



UB20 (12V DC)



UB20xx (explosion-proof)

Refer to page 46



«RAMFAN® 12" (30 cm) Blower/Exhausters

High Volume Confine Space Ventilators

Proper ventilation in confined spaces is essential for a safe work environment. Atmospheric hazards cause approximately 90% of worker injuries and fatalities in confined spaces. Ventilation of a confined space should be done to stabilize the environment. This could be to replace the bad air, make the air breathable, get rid of toxic vapors, make the area warmer or cooler, remove dust and so on.

The larger the confined space the more powerful ventilator you will need. The RAMFAN UB30 is a high power ventilation unit moving up to 2,420 cfm (4,114 m³/hr) of air for use in confined spaces. Constructed from ultra durable polymer to stand up to rugged work environments. The fan will provide reliable exhaustion or ventilation on the job site.



Refer to page 20

UB30

UB30 Key Features

- High impact polyethylene shell
- Glass-filled nylon turbo fan blade
- IP55 rain tested switch enclosure
- Stackable design feature
- Compatible with M.E.D. Systems

EFi75xx Key Features

- ATEX certified for use in potentially explosive atmosphere
- Pull switch with ignition located in flameproof motor enclosure
- Thermally protected cutoff switch
- IP55 rain tested switch enclosure
- Durable, PC/ABS Anti-static casing is weatherproof, flame retardant and chemical resistant



EFi75xx

Refer to page 54



«RAMFAN® 16" (40 cm) Versatile Ventilators



EFi50xx/EFi120xx/EFi150xx

SAFEST

Refer to page 58

EFC50x/EFC120x/EFC150x

SAFER



EFC50/EFC120/EFC150

SAFE

16" (40 cm) Versatile ventilators are used with duct attached during confined space operations/rescues. They are also hung up in door frames with the door bar and hanger kit and used to eject smoke from the building or used for PPV inside a structure with the tilt bracket attached. They range from 0.5 Hp (0.37kW) to 1.5 Hp (1.1kW) and from heat resistant housing models to fully certified for safe use in hazardous locations models.

SAFEST

Hazardous Location ventilation is Euramco Safety's specialty, and these RAMFAN® 16" (40 cm) Smoke Ejectors are a reflection of this experience. The only WHOLE-UNIT certified explosion-proof portable ventilators on the market, rising to the strict hazardous location use standards of UL, IECEx, INMETRO and ATEX, make these the safest ventilators available for venting of hazardous airborne vapors and particulates. For those whose response areas include heavy industrial, chemical, or other HazMat potential.

SAFER

Safer Smoke Ejectors are built with the same high-impact, heat-resistant Lexan® housing, but use a UL/IECEx/ATEX-certified explosion-proof motor for use in areas where potentially explosive gases are unlikely to be present, but "just in case" safety is the priority.

SAFE

These Smoke Ejectors are built with a high-impact, heat-resistant Lexan® housing and standard AC motor for use by Fire-Fighters, Construction professionals, and Utility technicians for venting non-hazardous airborne vapors and particulates.

COMMONLY EQUIPPED



RAMFAN ECF50/EFC120/EFC150 RAMFAN ECF50x/EFC120x/EFC150x

Versatile Ventilators

PLUG TYPES

EFC50 (115V) 15A NEMA 5-15P
EFC50 (230V) 16A Schuko, Heavy Duty
EFC120 (230V) 16A Schuko, Heavy Duty

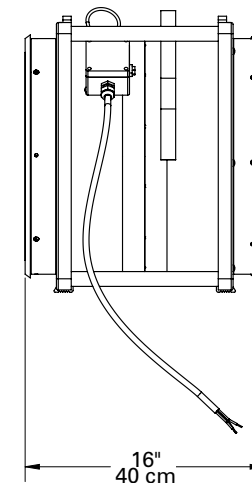
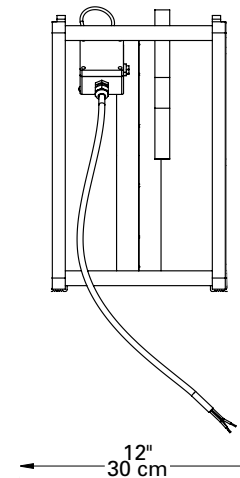
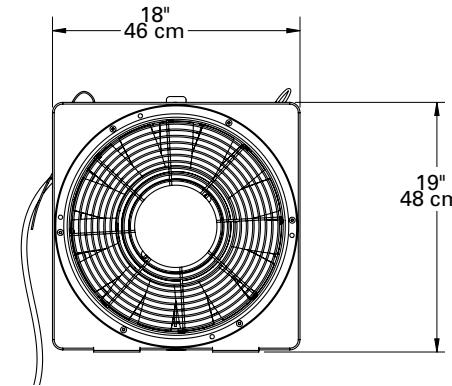
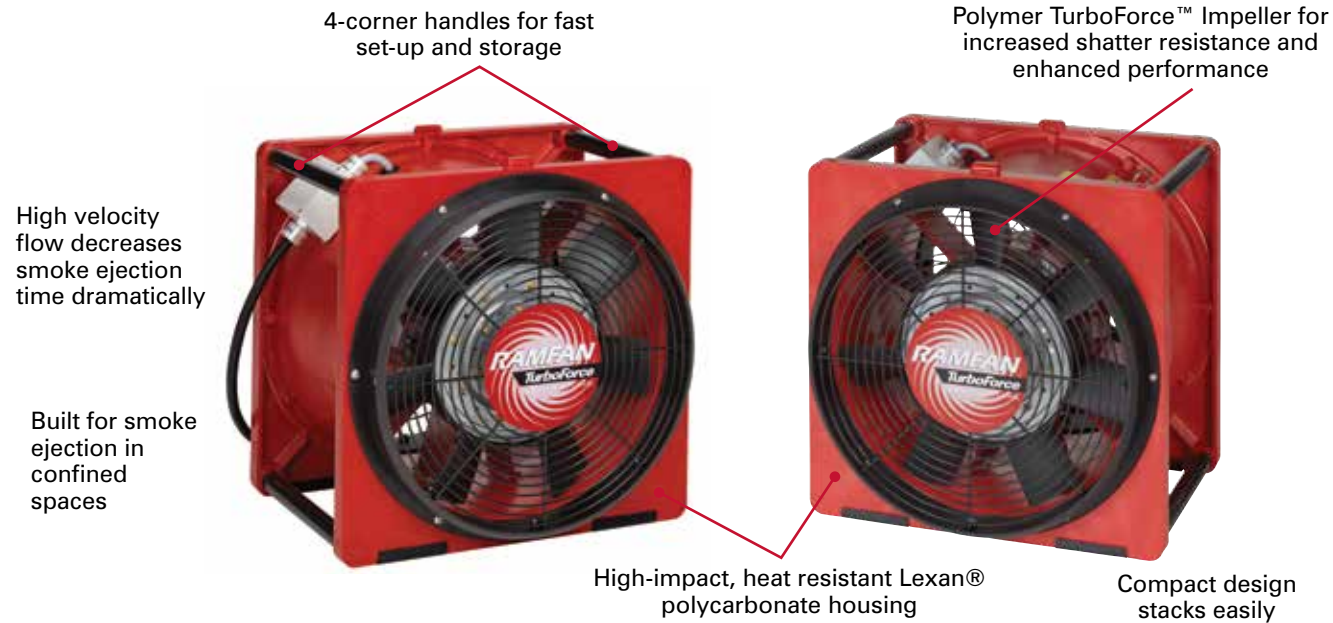
EFC150 (115V) 15A NEMA 5-15P
EFC150 (230V) does not ship with plug
EFC50x (115V/230V) does not ship with plug
EFC120x (230V) 16A Schuko, Heavy Duty

EFC150x (115V/230V) does not ship with plug

RUN TIME
Continuous

EFC50/EFC120/EFC150

EFC50x/EFC120x/EFC150x



Ordering information

RAMFAN EFC50

EFC50 (115V)
Order# **EA7000**
EFC50 (230V)
Order# **EA7000-230**

RAMFAN ECF120

EFC120 (230V)
Order# **EA7300**

RAMFAN ECF150

EFC150 (115V)
Order# **EG8000**
EFC150 (230V)
Order# **EG8000-230**

RAMFAN EFC50x

EFC50x (115V)
Order# **EA7000X**
EFC50x (230V)
Order# **EA7000X-230**

RAMFAN EFC120x

EFC120x (230V)
Order# **EA7300X**

RAMFAN EFC150x

EFC150x (115V)
Order# **EG8000X**
EFC150x (230V)
Order# **EG8000X-230**

Accessories

Standard Duct

16" (40 cm) Reinforced duct,
15' (4.6 m), w/storage bag
Order# **FDT1615BR**

16" (40 cm) Reinforced duct,
25' (7.6 m), w/storage bag
Order# **FDT1625BR**

Layflat Duct

16" (40 cm) layflat duct,
25' (7.6 m)
Order# **FDT1625SME**

Disposable Duct

16" (40 cm) duct, 100' (30.5 m)
Order# **FDT16DISP**

16"/40 cm Duct Adapter

Inlet Side Order# **EA7116**
Exhaust Side Order# **EA7117**

16"/40 cm Multi-Purpose Accessory Pack

See Accessory Page for
details
Order# **BG16LFA**

Door Bar and Hanger Kit

Order# **EA7095K**

Tilt Bracket

Order# **EA9145**



Specifications

	EFC50	EFC50x	EFC120	EFC120x	EFC150	EFC150x
Motor	0.5 Hp / 0.37 kW		1.2 Hp / 0.9 kW		1.5Hp / 1.1 kW	
Power	115/230V, 1ø, 50/60Hz		230V, 1ø, 50Hz		115/230V, 1ø, 50/60Hz	
Amps: Start Run	115V: 21A 115V: 6A	230V: 10A 230V: 3A	27A 5A		115V: 80A 115V: 15A	230V: 40A 230V: 8A
AIRFLOW						
Free Air	3,200 cfm(5,440 m ³ /hr)		3,750 cfm (6,375 m ³ /hr)		4,459 cfm (7,580 m ³ /hr)	
Through Duct 15'/4.6 m w/ one 90° turn:	1,935 cfm (3,289 m ³ /hr)		2,700 cfm (4,590 m ³ /hr)		3,179 cfm (5,404 m ³ /hr)	
Dimensions (h/w/d)						
	19 x 18 x12 in (48 x 46 x 31 cm)		19 x 18 x16 in (48 x 46 x 41 cm)		19 x 18 x12 in (48 x 46 x 31 cm) 19 x 18 x16 in (48 x 46 x 41 cm)	
Weight	46 lbs (21 kg)	49 lbs (22 kg)	53 lbs (24 kg)	51 lbs (23 kg)	55 lbs (25 kg)	
Noise	90.2 dB @ 3' (1 m)		86.1 dB @ 3' (1 m)		90.2 dB @ 3' (1 m)	
Duct Adapters	0		2		0	2
Motor Part No	-	EM-F5-60XP	-	EM-F85-50XPDV	-	EM-F.1.5-60/50XPEX
Motor Certification	-	E312535 UL Class I-II Group D, E, F, G	-	II 2 G EX d IIB Gb	-	II 2 G EX d IIB Gb
Approvals	CE	UL LISTED CE	CE	CE Ex ILL	-	CE Ex ILL



«RAMFAN® 16" (40 cm) PPV Blowers

CONVENTIONAL

G



GF164SE



GF165

E



EV400/EV420

W



WF390L

POWERSTREAM

G



GX200L



GX200

E



EX400/EX420



XP400/XP420

COMMONLY EQUIPPED

G



Hour Meter



BIGbore™ Exhaust Diverter Adapter



Exhaust Diverter Hose



Cooling Collar



16" (40 cm) Multi-Purpose Accessory Pak

E



LayFlat Duct



Disposable Duct



Standard Duct



16" (40 cm) Multi-Purpose Accessory Pak

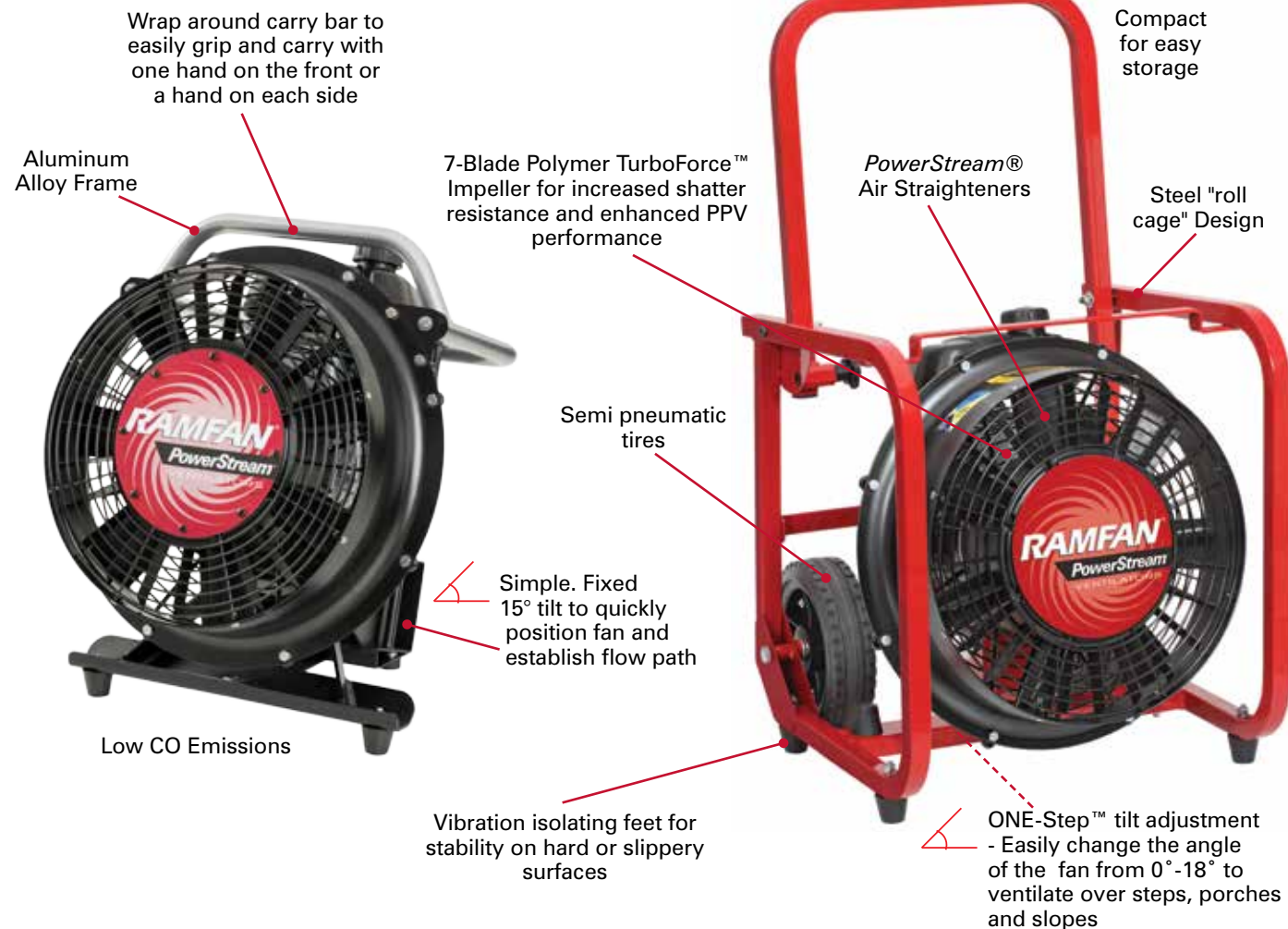


16" (40 cm) PPV Blowers

RAMFAN GX200L | Lightweight Gas Powered Blowers

GX200L

GX200

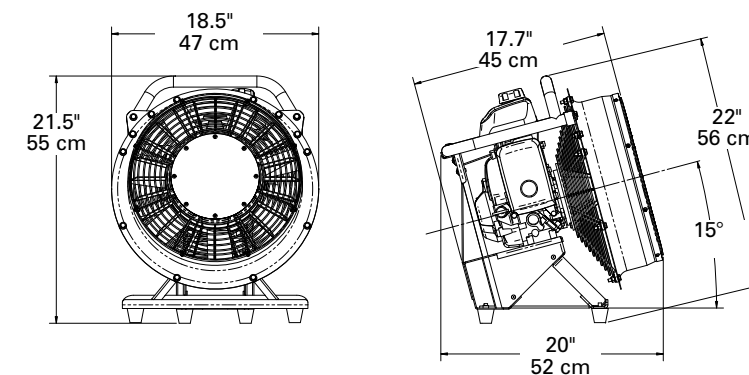


RAMFAN® offers the lightest PPV fans on the market, providing the ultimate portability. Starting at only 36 lbs, they can easily be carried up stairwells in large commercial buildings or set up for PPV in residential locations.

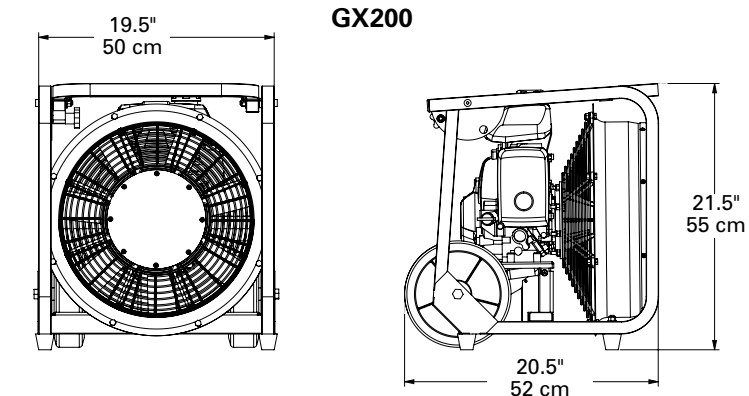
Weight is, more often than ever, the primary consideration when choosing a new PPV fan. The GX200 and the new single-hand carry GX200L variant are half the weight of the old RAMFAN GF165 in your compartment now. These fans put out the same airflow you are used to. They're built with the PowerStream® flow straighteners that give you more flexibility in setback distance.

- Carry the GX200L upstairs at that suburban mid-rise multi tenant without breaking your back on the way up.
- Replace the old 5.5 hp unit in your compartment now with a brand new GX200. Reduce total axle load by almost 40 lbs without giving up on the full-welded roll-cage design that has stood strong since your department's last purchase.

GX200L



GX200



«Specifications

	GX200L	GX200
Motor	Honda GXH50 2.1 HP (1.6 kW)	
Run Time	1 hr 40 min	
PPV AIRFLOW		
Single Door	12,820 cfm (21,794 m ³ /hr)	
Dimensions (h/w/d)		
Dimensions (h/w/d)	21.5 x 18.5 x 20 in (55 x 47 x 52 cm)	21.5 x 19.5 x 20.5 in (55 x 50 x 52 cm)
Weight	36 lbs (16 kg)	48 lbs (22 kg)
Noise	86 dB @ 10' (3 m), 91 dB @ 3' (1 m)	
Approvals	CE	

«Ordering information

RAMFAN GX200L

Order# GG5500

RAMFAN GX200

Order# GG5010

Accessories

BIGbore™ Exhaust Diverter

Muffler Fitting

Order# GF7110-KZ

Exhaust Diverter Hose

2" x 12' (5 cm x 3.6 m)

Order# GF7115

Hour Meter

Order# GX1515

(Keep track of regularly scheduled maintenance)

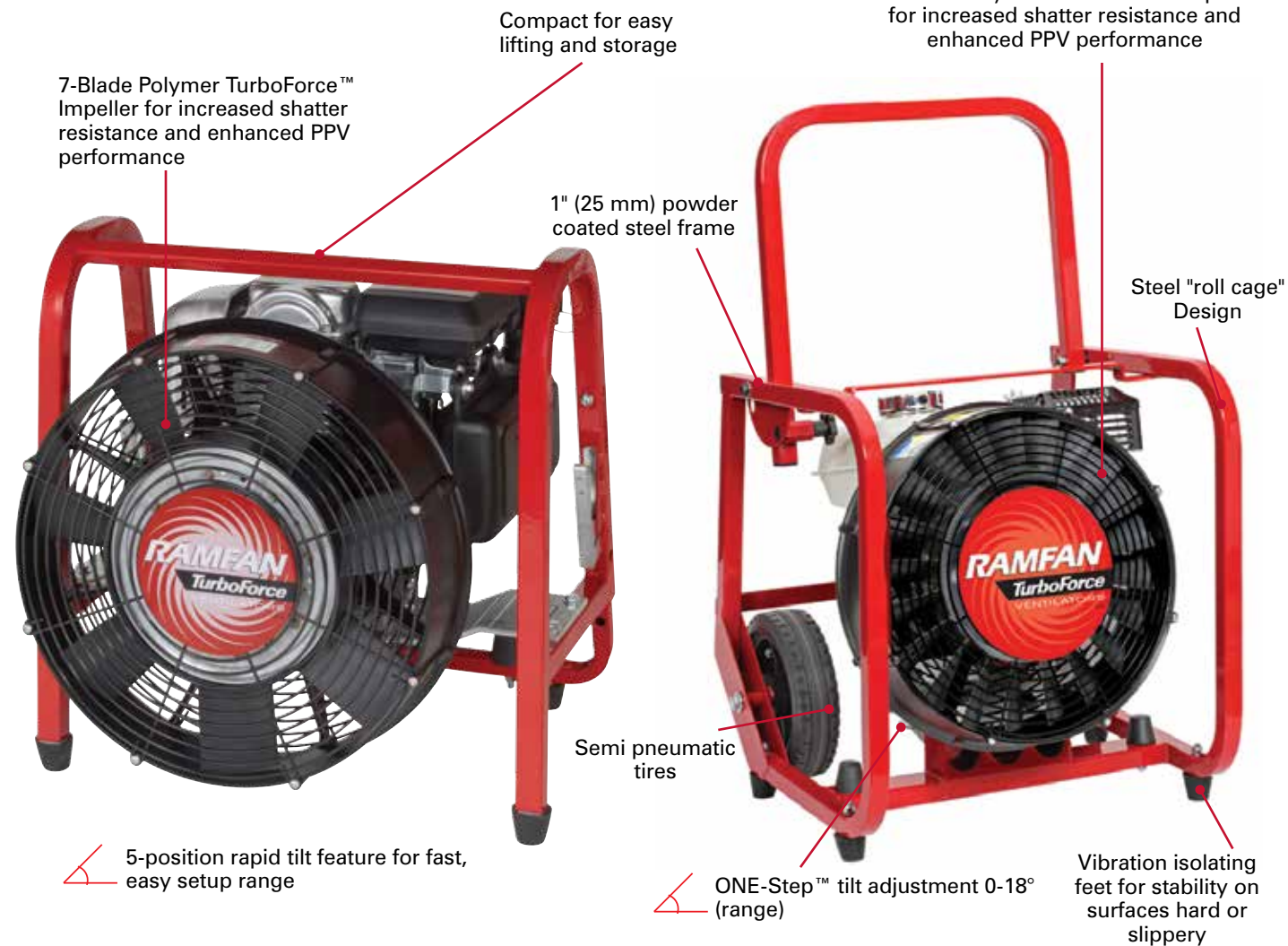


16" (40 cm) Lightweight Gas Powered Blowers

RAMFAN GF164SE | Gas Powered RAMFAN GF165 | Blowers

GF164SE

GF165



21-Blade Polymer TurboForce™ Impeller for increased shatter resistance and enhanced PPV performance

Conventional RAMFAN® Ventilator fans certainly have their place. If you are searching for a durable ventilator that is budget friendly, look no further. Tried and true, tested and trusted, conventional ventilators have stood the test of time. Pass on the latest PPV tech and save on cost with our classic models. These are the PPV fans that helped to build the RAMFAN brand in the industry. While they are not equipped with the flow control features of the newer GX-line, their reputation for durability remains unmatched.

« Ordering information

RAMFAN GF164SE

Order# **GB5001HSE**
Order# **GB5003HSE**
CCCF Certified (China)
NSN: 4140-01-517-7763

RAMFAN GF165

Order# **GA5006**

Accessories

BIGbore™ Exhaust Diverter

Muffler Fitting
Order# **GF7110CZ** (GF164SE)
Order# **GF7120BZ** (GF165)

Exhaust Diverter Hose

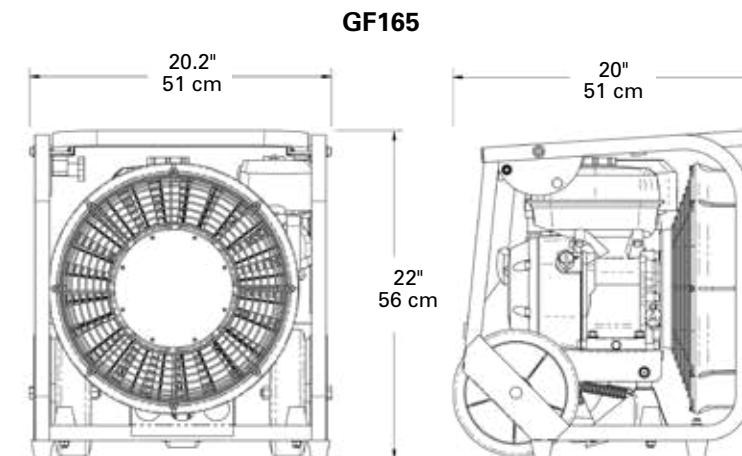
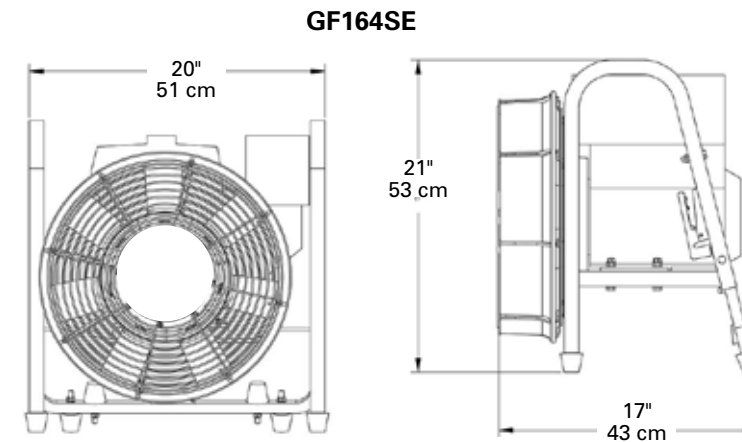
2" x 12' (5 cm x 3.6 m)
Order# **GF7115**

Cooling Collar

Order# **ED-MIST16**

16" (40 cm) Multi-Purpose Accessory Kit

Order# **BG16LFA**



« Specifications

	GF164SE	GF165
Motor	Honda GC160 4.6 Hp (3.4 kW)	Honda GX160 4.8 Hp (3.5 kW)
Run Time	1 hr 58 min	2 hrs 6 min
PPV AIRFLOW		
Single Door	11,653 cfm (19,810 m ³ /hr)	12,906 cfm (21,940 m ³ /hr)
Dimensions (h/w/d)		
	21 x 20 x 17 in (53 x 51 x 43 cm)	22 x 20.2 x 20 in (56 x 51 x 51 cm)
Weight	59 lbs (27 kg)	84 lbs (38 kg)
Noise	96.1 dB @ 3' (1 m)	96.2 dB @ 3' (1 m)
Approvals	CE	



RAMFAN EX400/EX420 RAMFAN EV400/EV420

Electric Powered Fans

PLUG TYPES

EX400 ships with 20A NEMA Twistlock L5-20P & Pigtail Adapter 5-15P To L5-20R
EX420 ships with 16A Schuko, Heavy Duty
EV400 ships with 20A NEMA Twistlock L5-20P & Pigtail Adapter 5-15P To L5-20R

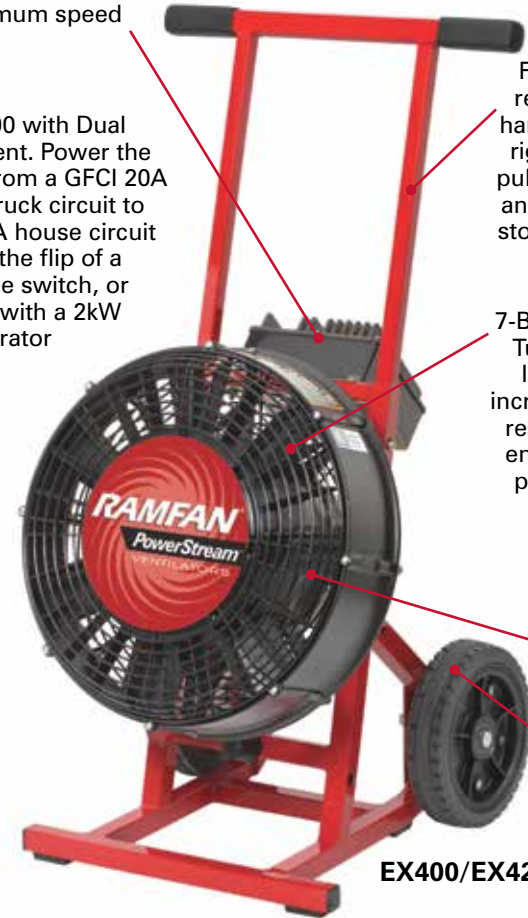
EV420 (230) ships with 20A NEMA Twistlock L6-20P
EV420 (CE) ships with 16A Schuko, Heavy Duty

RUN TIME

Intermittent Duty Cycle

IntelliSense™ water-resistant variable speed controls deliver continuous airflow adjustment from zero to maximum speed

EX400 with Dual Current. Power the fan from a GFCI 20A fire truck circuit to a 15A house circuit with the flip of a toggle switch, or start with a 2kW generator



Full-width retractable handle for up right, push/pull operation and compact storage when down

7-Blade Polymer TurboForce™ Impeller for increased shatter resistance and enhanced PPV performance

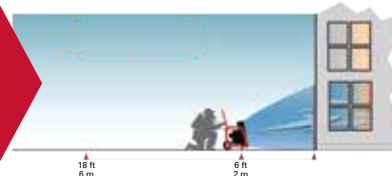
0-20° tilt adjustment for precise positioning

PowerStream® Air Straighteners (EX400/EX420 Only)

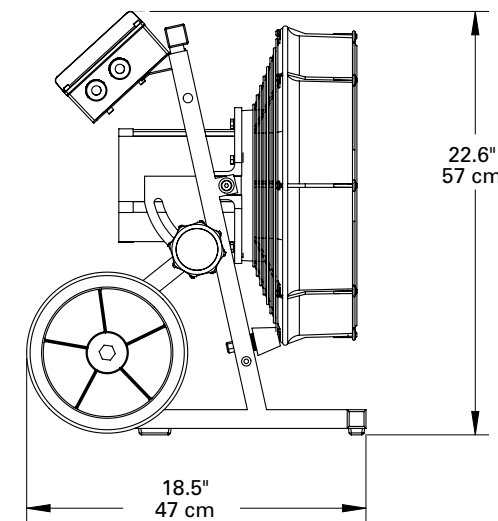
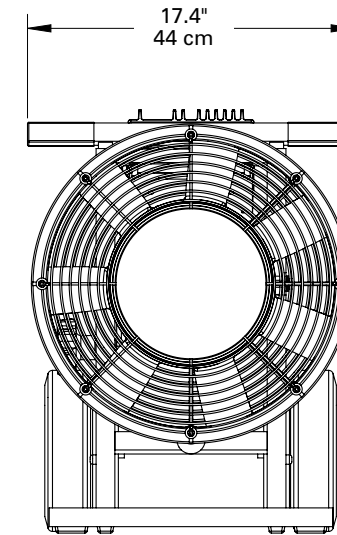
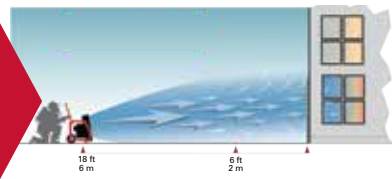
WIDE-Trac Semi-Pneumatic Urethane Tires easily roll over mud or rough terrain

EV400/EV420 VS EX400/EX420

CLOSE RANGE:
Both EX400/EX420 and EV400/EV420 fans can operate in close range of the door.



FARTHER SETBACK:
Only EX400/EX420 with PowerStream® can be set back as far as 18 feet to establish a FlowPath.



«Specifications

	EX400	EX420	EV400	EV420
Motor	1.5 Hp (1.1 kW)			
Power	115V, 1ø, 15A or 20A, 60Hz	230V, 1ø, 10A 50/60Hz	EB80500:115VAC, 1ø, 15 or 20A, 60Hz	EB80510:230VAC, 1ø, 10A, 60Hz EB81505:230VAC, 1ø, 10A, 50Hz
PPV AIRFLOW				
Single Door	11,391 cfm (19,365 m³/hr)	10,994 cfm (18,690 m³/hr)	11,391 cfm (19,365 m³/hr)	10,994 cfm (18,690 m³/hr)
Dimensions (h/w/d)				
	22.6 x 17.4 x 18.5 in (57 x 44 x 47 cm)			
Weight	68 lbs (31 kg)			
Noise	88 dB @ 3' (1 m), 84 dB @ 10' (3 m)			
Approvals	CE			

«Ordering information

RAMFAN EX400
EX400 (115V)

Order# **EB80600**

RAMFAN EX420
EX420 (230V)

Order# **EB88245**

RAMFAN EV400
EV400 (115V)

Order# **EB80500**

RAMFAN EV420
EV420 (230V) - 20A NEMA Twistlock Plug

Order# **EB80510**

EV420 (230V) - 16A Schuko Plug

Order# **EB81505 (CE)**

Accessories

Standard Duct

16" (40 cm) Reinforced duct, 15' (4.6 m), w/storage bag
Order# **FDT1615BR**

16" (40cm) Reinforced duct, 25' (7.6 m), w/storage bag
Order# **FDT1625BR**

Layflat Duct

16" (40 cm) layflat duct, 25' (7.6 m)

Order# **FDT1625SME**

Disposable Duct

16" (40 cm) duct, 100' (30.5 m)

Order# **FDT16DISP**



RAMFAN XP400/XP420

Electric Fan Explosion-Proof Motor

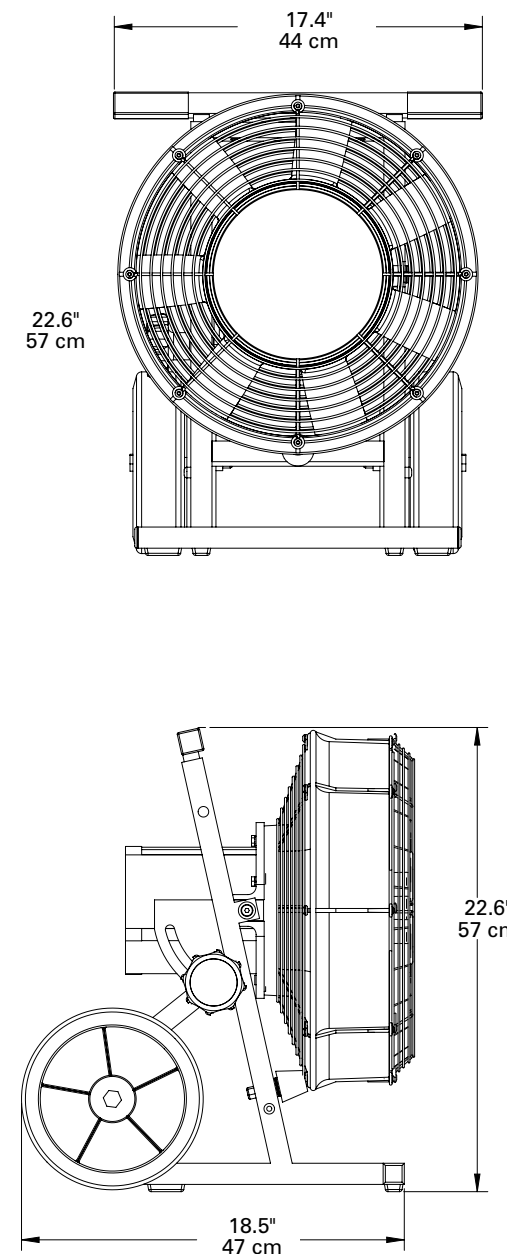
PLUG TYPES

XP400 ships with 15A NEMA 5-15P
 XP420 ships with 16A Schuko, Heavy Duty

RUN TIME

Continuous Duty Cycle

XP400/XP420



«Specifications

	XP400	XP420
Motor	1.5 Hp (1.1 kW)	
Power	115V, 1ø, 15A, 50/60Hz	230V, 1ø, 8A, 50/60Hz
PPV AIRFLOW		
Single Door	11,391 cfm (19,365 m³/hr)	10,084 cfm (17,143 m³/hr)
Dimensions (h/w/d)		
	22.6 x 17.4 x 18.5 in (57 cm x 44 cm x 47 cm)	
Weight	68 lbs (31 kg)	
Noise	97 dB @ 3' (1 m)	
Approvals	CE	
Motor Certification	Ex II 2 G EX d IIB Gb Motor Part Number EM-F.1.5-60/50XPEX	

«Ordering information

RAMFAN XP400
 Order# **EB80500X**

RAMFAN XP420
 Order# **EB80500X-230**

Accessories Standard Duct

16"/40 cm Reinforced duct, 15'/4.6 m, w/storage bag
 Order # **FDT1615BR**
 16"/40 cm Reinforced duct, 25'/7.6 m, w/storage bag
 Order# **FDT1625BR**

Layflat Duct

16"/40 cm layflat duct, 25'/7.6 m
 Order# **FDT1625SME**

Disposable Duct

16"/40 cm duct, 100' (30.5 m)
 Order# **FDT16DISP**



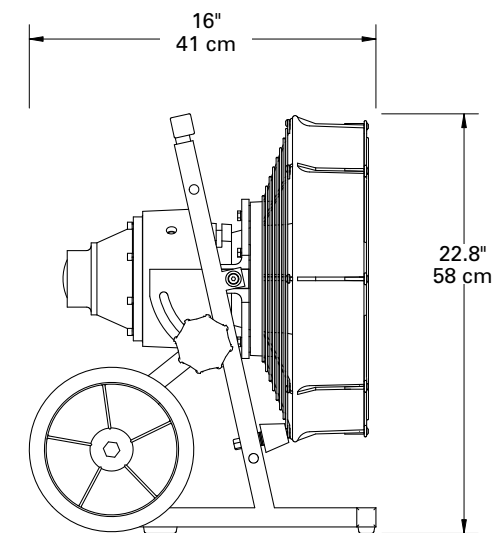
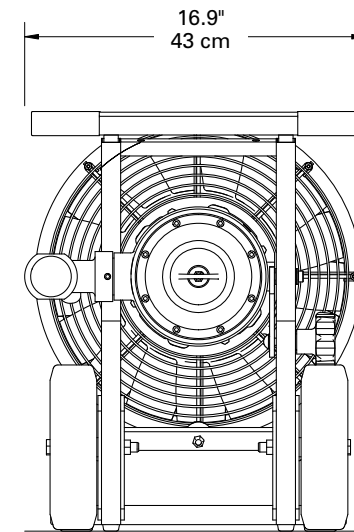
RAMFAN WF390L | Water Powered Fan

WF390L



«Specifications

	WF390L
Motor	22.3 Hp (16.6 kW)
AIRFLOW	
Single Door	17,417 cfm @150 psi (29,610 m ³ /hr @1.0 MPa)
Pressure	
Nominal:	1.0MPa/150psi
Max:	1.7MPa/250psi
Dimensions (h/w/d)	22.8 x 16.9 x 16 in (58 x 43 x 41 cm)
Weight	60 lbs (27 kg)
Approvals	CE



«Ordering information

RAMFAN WF390L

Order# **WB5001LB**

1.5" BSP Inlet/Outlet

Order# **WB5001LNH**

1.5" NST/NH Inlet

Order# **WB5001DIN**

65 mm Storz (Chinese) Inlet/Outlet

BSP-British Standard Pipe Thread

NH-National Hose Thread

Accessories

Many water connection fittings available. Call for details.



16" (40 cm) Water Powered Fan

«RAMFAN® 18" (46 cm) High Performance Blowers

POWERSTREAM

G



GX310



GX350

E



EX500/EX520

EXPLOSION-PROOF MOTOR

E



XP500/XP520



COMMONLY EQUIPPED

G



Hour Meter



BIGbore™ Exhaust Diverter Adapter



Exhaust Diverter Hose



Integrated Mister



Duct Adapter

E



Duct Adapter



Standard Duct



Integrated Mister



RAMFAN GX310 High Performance Gas Blowers

RAMFAN GX350 Gas Blowers

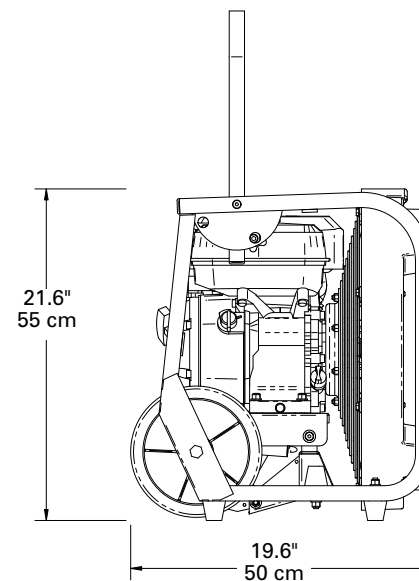
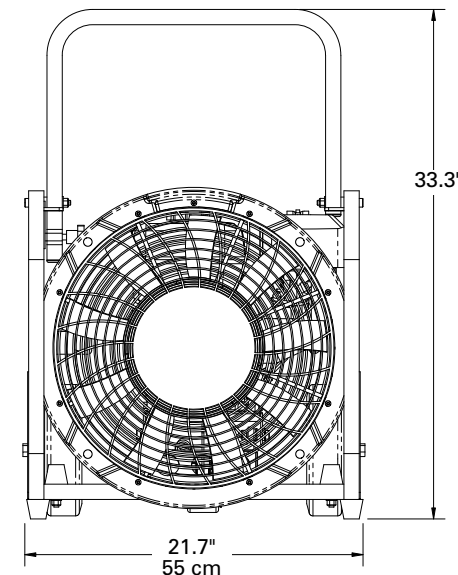
GX310

GX350



«Specifications

	GX310	GX350
Motor	Honda GX160 4.8 Hp (3.5 kW)	GX200 5.5 Hp (4.1 kW)
Runtime	2 hrs 6 min	1 hr 50 min
PPV AIRFLOW		
Single Door	16,968 cfm (28,846 m ³ /hr)	18,705 cfm (31,799 m ³ /hr)
Dimensions (h/w/d)		
	21.6 x 21.7 x 19.6 in (55 x 55 x 50 cm)	
Weight	82 lbs (37 kg)	84 lbs (38 kg)
Noise	100 dB @ 3 ft (1 m), 95 dB @ 10' (3 m)	101dB @ 3 ft (1 m), 97 dB @ 10' (3 m)
Approvals	CE	



«Ordering information

RAMFAN GX310

Order# GH5010

RAMFAN GX350

Order# GH5005

Accessories

BIGbore™ Exhaust Diverter

Muffler Fitting

Order# GF7120-BZ (GX310)

Order# GF7120-GZ (GX350)

Exhaust Diverter Hose

2" x 12' (5 cm x 3.6 m)

Order# GF7115

Integrated Misting System

1.85 gal/min@100 psi 7 l/min@6.9 bar

Order# GH8112

Hour Meter

Keep track of regular scheduled maintenance for GX Series Fans

Order# GX1515

18"/46 cm Duct Adapter/Reducer

Compatible with 18"/4.6 cm fan and 16"/40 cm duct

Order# GH2211

Standard Duct

16"/40 cm Reinforced duct,

15'/4.6 m, w/storage bag

Order# FDT1615BR

16"/40 cm Reinforced duct,

25'/7.6 m, w/storage bag

Order# FDT1625BR



RAMFAN EX500/EX520 | Electric Fans

RAMFAN XP500/XP520 | Explosion-Proof Fans

PLUG TYPES

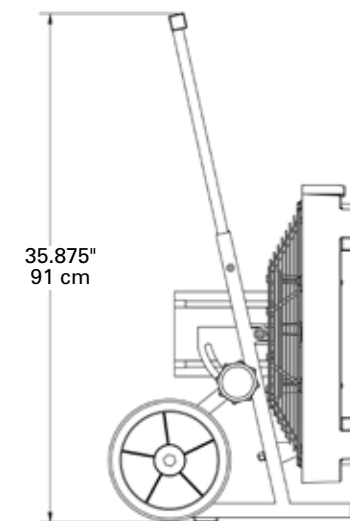
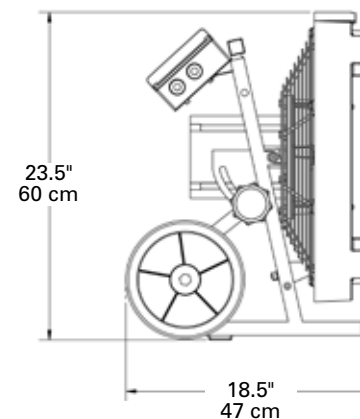
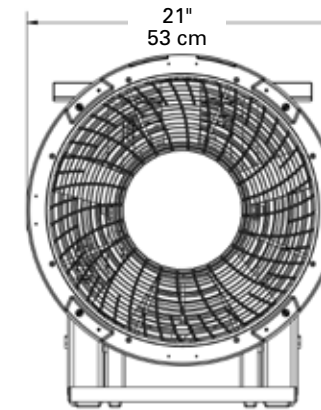
XP500 specify plug
XP520 ships with 16A Schuko

RUN TIME

Continuous Duty Cycle for the XP Series
Intermittent Duty Cycle for the EX Series

EX500/EX520

XP500/XP520 Explosion-Proof Motor



« Ordering information

RAMFAN EX500
Order# **EK86500**

RAMFAN EX520
Order# **EK86520**

RAMFAN XP500
Order# **EB90600X**

RAMFAN XP520
Order# **EB90600X-230**

Accessories

18"/46 cm Duct Adapter/Reducer
Compatible with 18"/4.6 cm fan and 16"/40 cm duct
Order# **GH2211**

Integrated Misting System

1.85 gal/min@100 psi 7 l/min@6.9 bar
Order# **GH8112**

Standard Duct

16"/40 cm Reinforced duct, 15'/4.6 m, w/storage bag
Order# **FDT1615BR**

16"/40 cm Reinforced duct, 25'/7.6 m, w/storage bag
Order# **FDT1625BR**

Conductive Duct

15'/4.6 m Order# **FDT-1615CBR**
25'/7.6 m Order# **FDT-1625CBR**



« Specifications

	EX500	EX520	XP500	XP520
Power	115V, 1ø, 15A or 20A, 60Hz	230V, 1ø, 10A 50/60Hz	115V, 1ø, 15A, 50/60Hz	230V, 1ø, 8A 50/60Hz
Motor	1.5 Hp (1.1 kW)			
AIRFLOW				
Single Door	11,540 cfm (19,618 m³/hr)	13,354 cfm (22,702 m³/hr)	11,540 cfm (19,618 m³/hr)	13,354 cfm (22,702 m³/hr)
Dimensions (h/w/d)				
Dimensions (h/w/d)	23.5 x 21 x 18.5 in (60 x 53 x 47 cm)			
Weight	70 lbs (32 kg)		72 lbs (33 kg)	
Noise	95 dB @ 3' (1 m), 91 dB@10' (3 m)		97 dB @ 3' (1 m), 95 dB @10' (3 m)	
Approvals	CE			
Motor Certification	-		Motor Part Number EM-F.1.5-60/50XPEX	



«RAMFAN® 21" (54 cm) Blowers

POWERSTREAM

G



GX400

W



WF540

CONVENTIONAL

G



GF210

COMMONLY EQUIPPED

G



Hour Meter

+



BIGbore™ Exhaust Diverter Adapter

+



Exhaust Diverter Hose

+



Integrated Mister

W

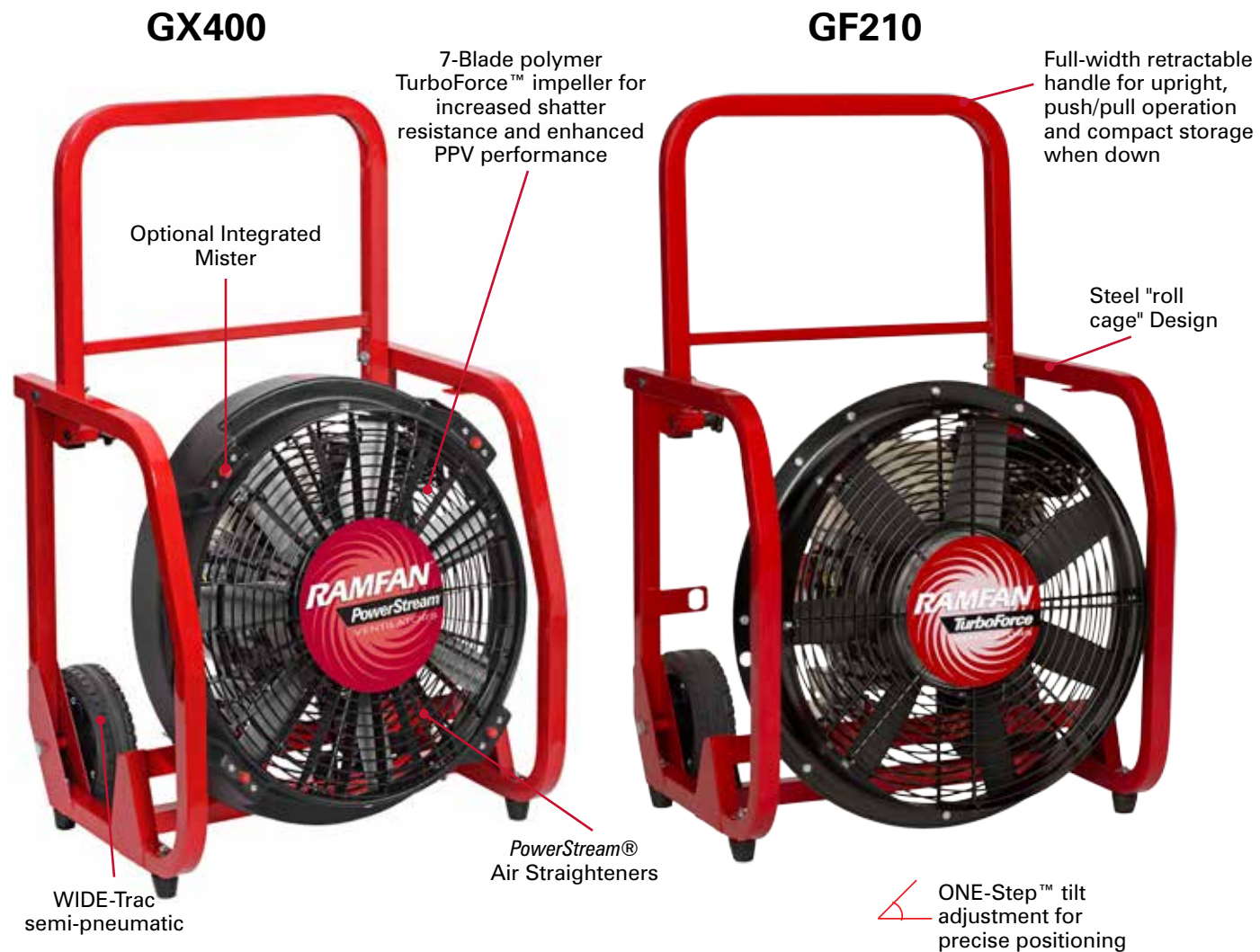


Integrated Mister



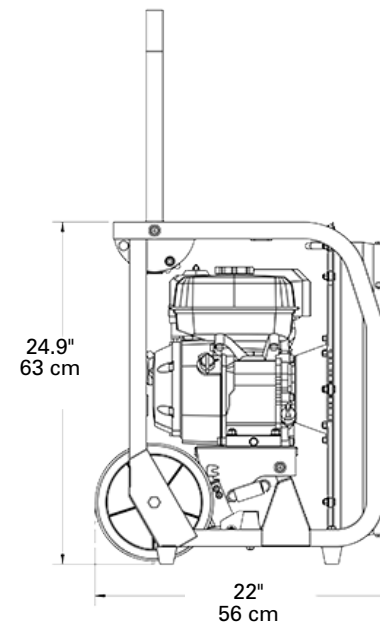
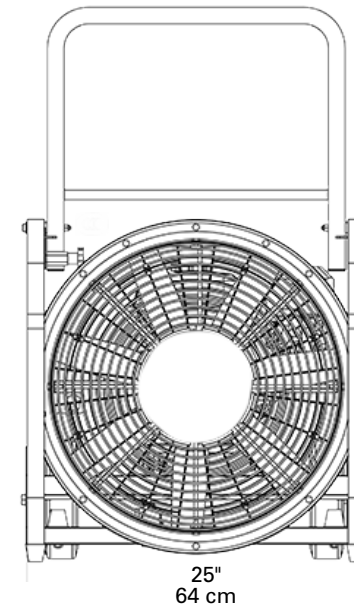
21" (54 cm) Blowers

RAMFAN GX400 | Gas Powered RAMFAN GF210 | Blowers



«Specifications

	GX400		GF210
Motor	Honda GX200 5.5 Hp (4.1 kW)	Vanguard 13L333 6.5 Hp (4.8 kW)	Honda GX160 4.8 Hp (3.5 kW)
Run Time	1 hr 50 min		1 hr 26 min
AIRFLOW			
Single Door	16,797 cfm (28,555 m ³ /hr)		
Double Door	22,500 cfm (38,250 m ³ /hr)		
Dimensions (h/w/d)			
Dimensions (h/w/d)	24.9 x 25 x 22 in (63 x 64 x 56 cm)		
Weight	88 lbs (40 kg)	94 lbs (43 kg)	88 lbs (40 kg)
Noise	99 dB @ 3' (1 m), 95 dB @ 10' (3 m)		96.1 dB @ 3' (1 m)
Approvals	CE		



«Ordering information

RAMFAN GX400

Order# **GE5022** (Honda GX200)
Order# **GE5010** (Vanguard 6.5 Hp)
Order# **GE5003**
CCCF Certified (China)

RAMFAN GF210

Order# **GE5001**

Accessories

BIGbore™ Exhaust Diverter

Muffler Fitting
Order# **GF7120-GZ**
(compatible with Honda GX200 motor)

Exhaust Diverter Hose

2" x 12' (5 cm x 3.6 m)
Order# **GF7115**

Integrated Misting System

1.85 gal/min @ 100 psi 7 l/min @ 7 bar
Order# **GE8111**

Hour Meter

Compatible with Honda motors
Order# **GX1515**
(Keep track of regular scheduled maintenance)



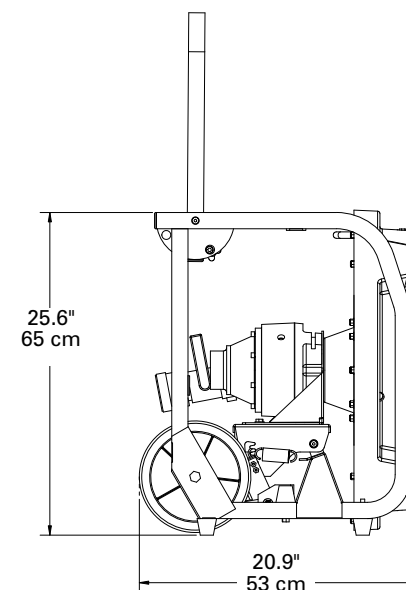
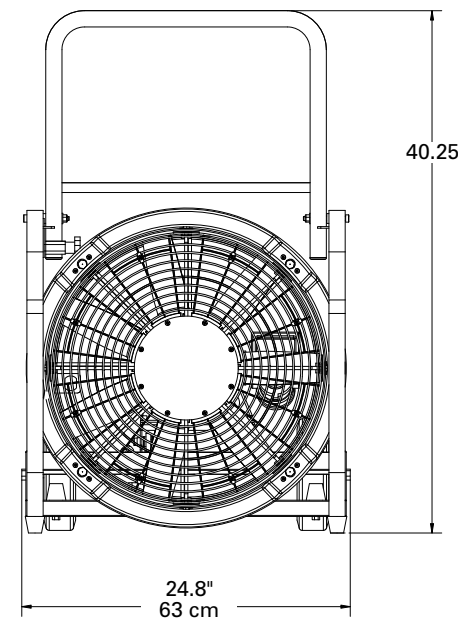
RAMFAN WF540 | Water Powered Fan

WF540



«Specifications

	WF540
Motor	33.5 Hp (25 kW)
AIRFLOW	
Single Door	22,443 cfm @150 psi (38,154 m ³ /hr@1.0MPa)
Pressure/Flow	
Nominal:	1.0MPa/150psi
Max:	1.7MPa/250psi
Dimensions (h/w/d)	25.6 x 24.8 x 20.9 in (65 x 63 x 53 cm)
Weight	75 lbs (34 kg)
Approvals	CE



«Ordering information

RAMFAN WF540
Order# **WD5010**

Accessories

Integrated Misting System

1.85 gal/min @100 psi 7 l/min @ 7 bar
Order# **GE8111**

Many water connection fittings available. Call for details.



21" (54 cm) Water Powered Fan

Large Structure Ventilators (LSV)

Come of age as online commerce grows

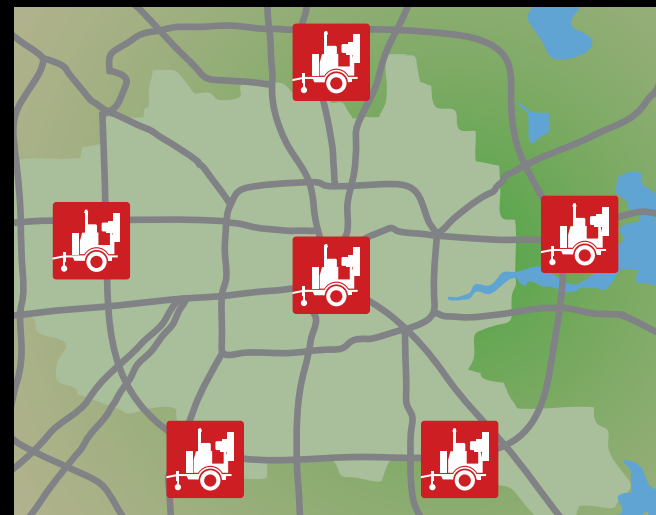
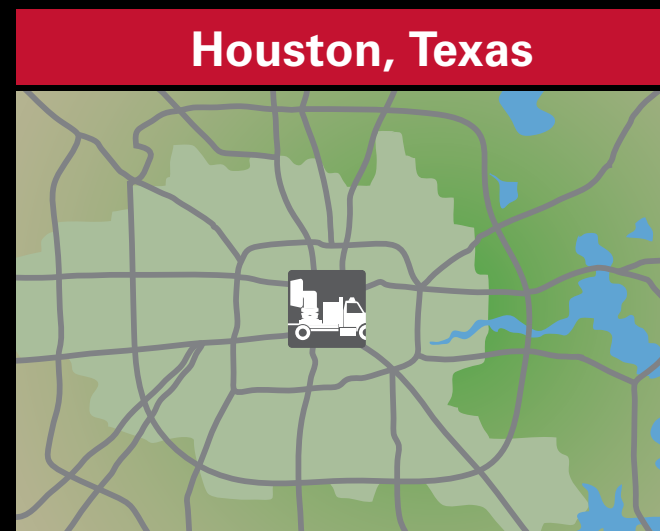
Online retailing today is filling warehouses everywhere with products. Adding these to the current inventory of big box stores, airports, high-rises and hotels, the need for tools to fight large structure fires is clear.

These large structures require massive PPV ventilation because you can't support fire fighting operations in a large structure with small structure equipment.

One huge fan doesn't make sense anymore

Until now, Large Structure Ventilators have been huge monsters that are difficult to move and maneuver, which can limit access to the structure on fire. They require a large storage space and have price tags that are budget-busters. This limits most cities to a single unit for the entire area.

RAMFAN LSV's are the solution to these problems. The largest LSV is a 28" trailer mounted fan that is small enough for one person to maneuver but powerful enough to quickly pressurize a high-rise stairwell and is offered at a price point so low you can buy 6 LSV's for every one truck mounted fan.



When it comes to equipment access which would you prefer:

A single hub or a distributed network?

If your city owns one large truck mounted fan stored in a central location and you respond to a warehouse fire on the outskirts of the city the response time may be too long to get the equipment to the scene. But if you had a distributed network of large fans it would cut the response time in less than half.



=



«RAMFAN® 24" (60 cm) to 28" (70 cm) Large Structure Ventilators (LSV)

POWERSTREAM

G



GX500

GX600

POWERSTREAM

G



VX700

COMMONLY EQUIPPED

G



Hour Meter
(Standard on
VX700 Only)

+



BIGbore™ Exhaust
Diverter Adapter

+



Exhaust
Diverter Hose

+



Integrated Mister
(Standard on
VX700 Only)

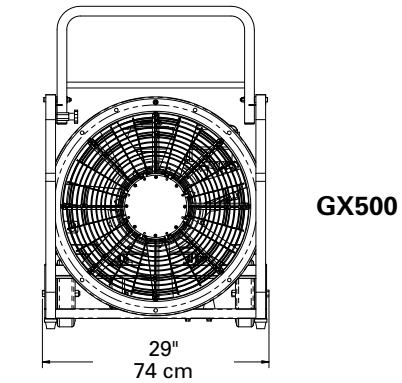
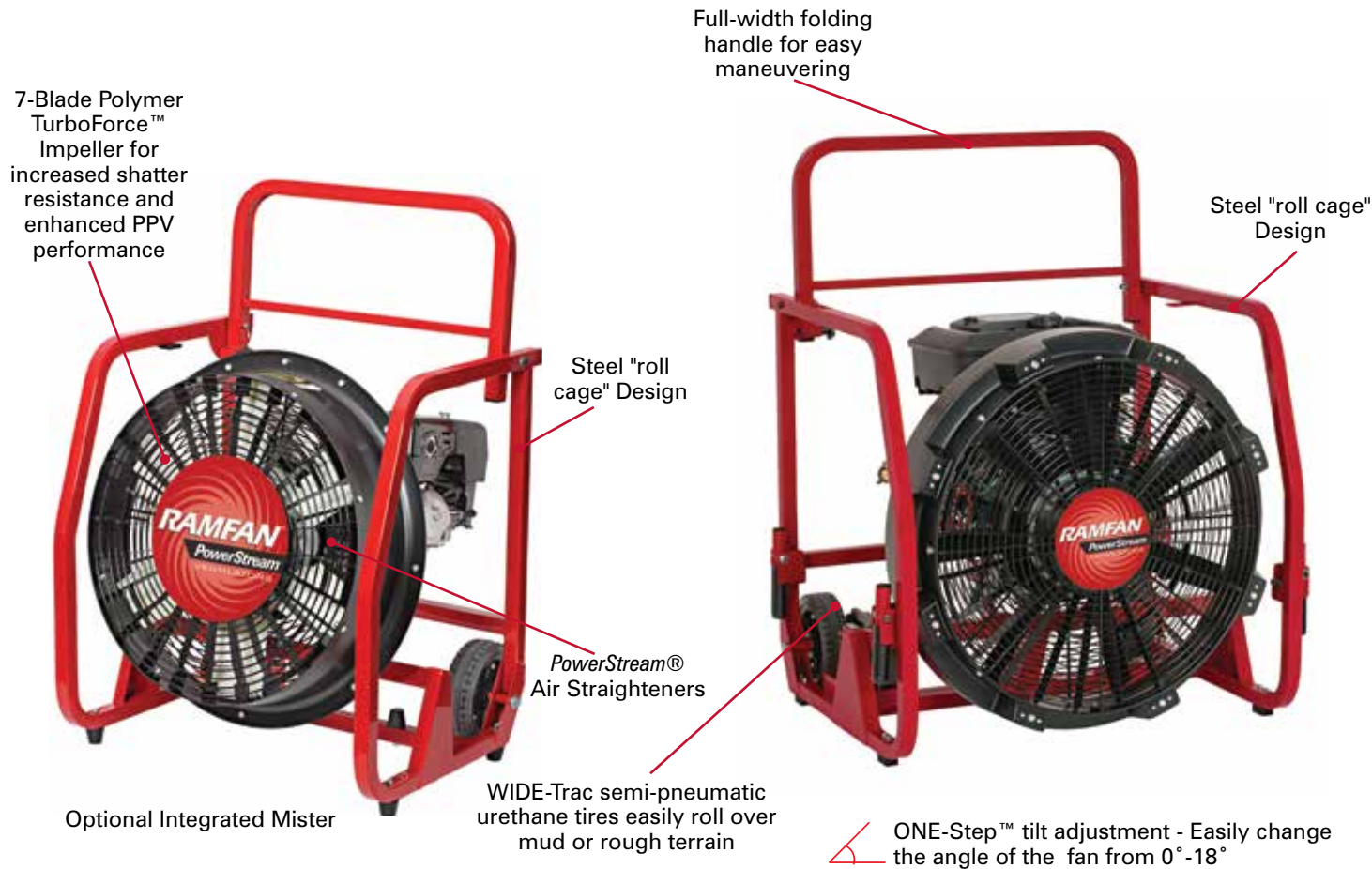


RAMFAN GX500 | Large Structure Ventilators

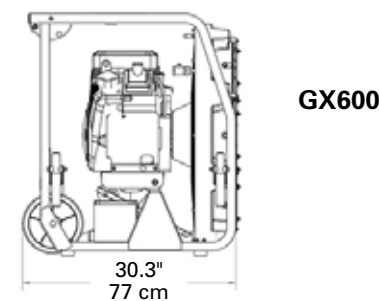
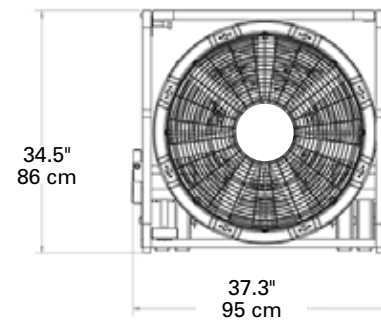
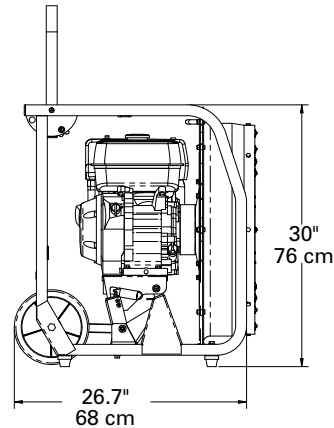
RAMFAN GX600

GX500
(24"/60 cm)

GX600
(28"/70 cm)



GX500



GX600

««Ordering information

RAMFAN GX500

Order# **GD5005**
Order# **GD5003**
CCCF Certified (China)

RAMFAN GX600

Order# **GJ5005**

Accessories

BIGbore™ Exhaust Diverter

Muffler Fitting
Order# **GF7110-LZ** (GX500 Only)

Exhaust Diverter Hose

2" x 12' (5 cm x 3.6 m)
Order# **GF7115**

Integrated Misting System

Order# **GD8111** (GX500)
Order# **GD8111M** (option BSP)
Order# **GJ8111** (GX600 Only)

Hour Meter

Order# **GX1515** (GX500 Only)
(Keep track of regular scheduled maintenance)



««Specifications

	GX500	GX600
Motor	Honda GX270 8.5 Hp (6.3 kW)	Vanguard 18 Hp (13.4kW) V-Twin OHV mod .35
Run Time	2 hrs 2 min	2 hrs 40 min
PPV AIRFLOW		
Double Door Warehouse	27,800 cfm (47,260m ³ /hr) 37,700 cfm (64,090m ³ /hr)	32,500 cfm (55, 250m ³ /hr) 49,000 cfm (83, 300m ³ /hr)
Dimensions (h/w/d)	30 x 29 x 26.7 in (76 x 74 x 68 cm)	34.5 x 37.3 x 30.3 in (88 x 95 x 77 cm)
Weight	137 lbs (62 kg)	175 lbs (80 kg)
Noise	100 dB @ 3' (1 m), 96 dB @ 10' (3 m)	105 dB @ 3' (1 m), 103 dB @ 10' (3 m)
Approvals	CE	



RAMFAN VX700 | Large Structure Ventilators

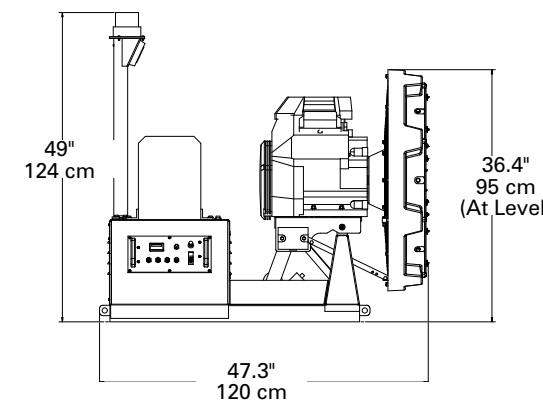
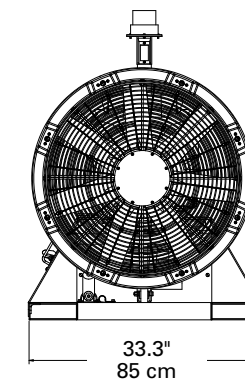
VX700 (28"/70 cm)



«Specifications

	VX700 (Skid Mounted)	VX700 (US Trailer Mounted)	VX700 (European Trailer Mounted)
Motor	Honda GX630 23 Hp (17 kW)		
Run Time	2 hrs 30 min		
AIRFLOW			
Double Door Warehouse	46,700 cfm (79,390 m ³ /hr)		
Warehouse	60,200 cfm (105,400 m ³ /hr)		
Dimensions (h/w/d)	49 x 33.3 x 47.3 in (124 x 85 x 120 cm)	6.6 x 4.8 x 10.3 ft (2 x 1.4 x 3.1 m)	6.7 x 5 x 10.5 ft (2 x 1.5 x 3.2 m)
Weight	220 lbs (100 kg)	920 lbs (417 kg)	
Noise	105 dB @ 3' (1 m), 103 dB @ 10' (3 m)		
Approvals	CE	-	CE

Variations



«Ordering information

RAMFAN VX700

Order# **GK5000** (Skid Mounted)
 Order# **GK5005** (US Trailer Mounted)
 Order# **GK5050** (China Trailer Mounted)
 CCCF Certified
 Order# **GK5010** (European Trailer Mounted)

Accessories
BIGbore™ Exhaust Diverter
Muffler Fitting



28" (70 cm) Large Structure Ventilators

Durable Standard ducting

Key Features

- Non-collapsible, reinforced duct
- 8"/20 cm, 12"/30 cm or 16"/40 cm diameters
- Flame retardant
- IMPA codes available for ducting, please call to inquire
- Carrying bag included for storage and transport



«Ordering information

Standard Duct
8"/20 cm x 15'/4.6 m
order# **FDT-21624046BR**

8"/20 cm x 25'/7.6 m
order# **FDT-21624076BR**

Standard Duct
12"/30 cm x 16'/5 m
order# **FDT-30534005BB**

12"/30 cm x 32'/10 m
order# **FDT-30534010BB**

Standard Duct
16"/40 cm x 15'/4.6 m
order# **FDT-1615BR**

16"/40 cm x 25'/7.6 m
order# **FDT-1625BR**

Durable Anti-static ducting

Key Features

- Anti-static, safely conduct electricity to the ground circuit of the blower
- Non-collapsible, reinforced duct
- 8"/20 cm, 12"/30 cm or 16"/40 cm diameters
- Flame retardant
- Carrying bag included for storage and transport



«Ordering information

Anti-static Duct
8"/20 cm x 15'/4.6 m
order# **FDT-0815CBB**

8"/20 cm x 25'/7.6 m
order# **FDT-0825CBB**

Anti-static Duct
12"/30 cm x 15'/4.6 m
order# **FDT-1215CBB**

12"/30 cm x 25'/7.6 m
order# **FDT-1225CBB**

Anti-static Duct
16"/40 cm x 15'/4.6 m
order# **FDT-1615CBB**

16"/40 cm x 25'/7.6 m
order# **FDT-1625CBB**



COMPONENTS

« **8"/20 cm Diameter**

- STANDARD** FDT-21624046BR (15'/4.6 m)
- FDT-21624076BR (25'/7.6 m)
- ANTI-STATIC** FDT-0815CBB (15'/4.6 m)
- FDT-0825CBB (25'/7.6 m)



Standard Duct



Anti-Static Duct



UB20



UB20xx

« **12"/30 cm Diameter**

- STANDARD** FDT-30534005BB (16'/5 m)
- FDT-30534010BB (32'/10 m)
- ANTI-STATIC** FDT-1215CBB (15'/4.6 m)
- FDT-1225CBB (25'/7.6 m)



Standard Duct



Anti-Static Duct



UB30



EFi75xx

« **16"/40 cm Diameter**

- STANDARD** FDT-1615BR (15'/4.6 m)
- FDT-1625BR (25'/7.6 m)
- ANTI-STATIC** FDT-1615CBR (15'/4.6 m)
- FDT-1625CBR (25'/7.6 m)



Standard Duct



Anti-Static Duct



EX500/EX520
XP500/XP520



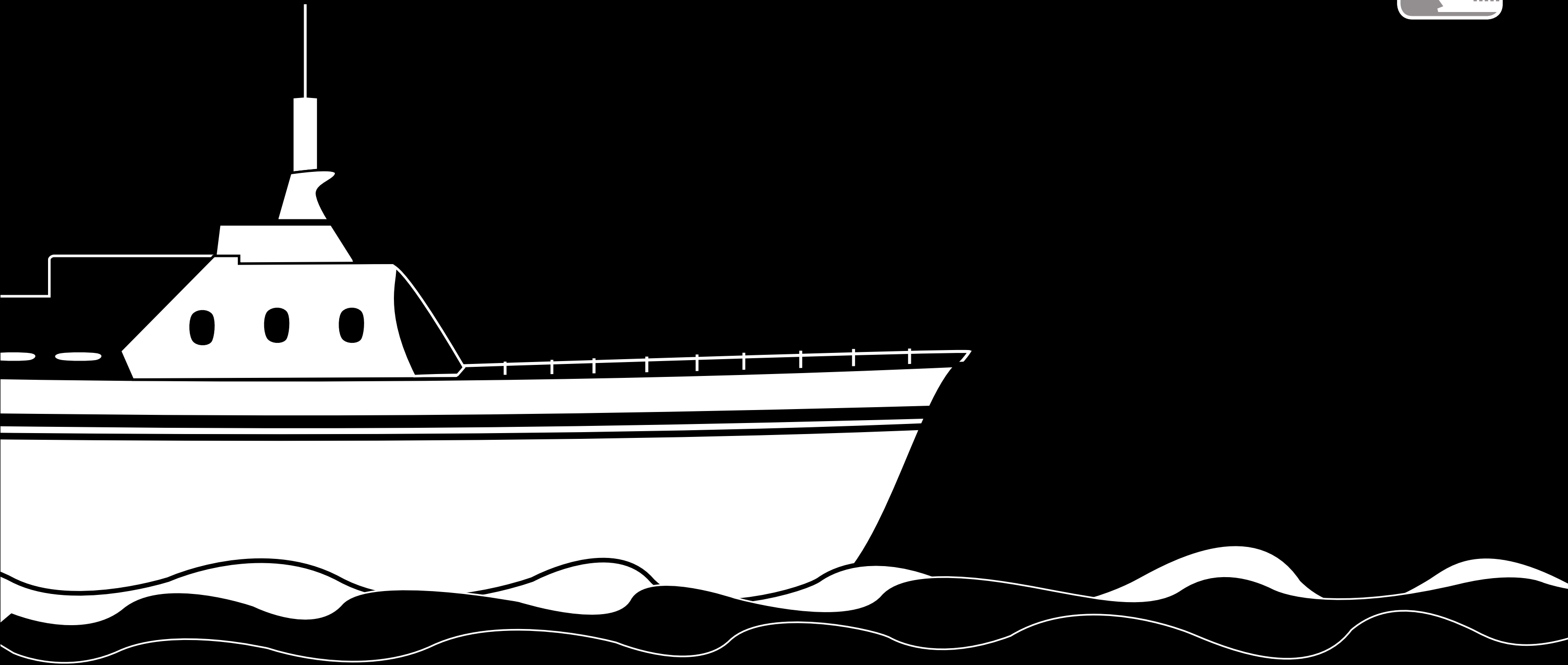
EX400/EX420
EV400/EV420
XP400/XP420



EFC50/EFC120/EFC150
/EFC50x/EFC120x/EFC150x



EFi50xx/EFi120xx
/EFi150xx



Applications

- Equipment Cooling
- Shipboard De-Smoking
- Vessels

«RAMFAN® 8" (20 cm) Water Powered Blower



WF20

No portable blower in the world compares with the smoke removal rates of the WF20 connected to ducting from 10" to 12". Warships at general quarters require powerful suction to remove smoke from interior spaces. The WF20 suctions the smoke from the affected areas through long lengths of ducting to the outside air. At normal fire main pressures of 125 to 150psi, the WF20 makes about 4.5Hp with a 50gpm flow rate.

The WF20 blower uses the water pressure energy of a fire hose and a patented turbine, coupled to a high-efficiency fan blade, to generate high-velocity, high-pressure airflow. The modular construction, choice of corrosion-resistant materials and simplicity assures infrequent and simple maintenance.

Exhaustive testing during U.S. Navy evaluations left the WF20 as the uncontested champion of shipboard de-smoking.

COMMONLY EQUIPPED

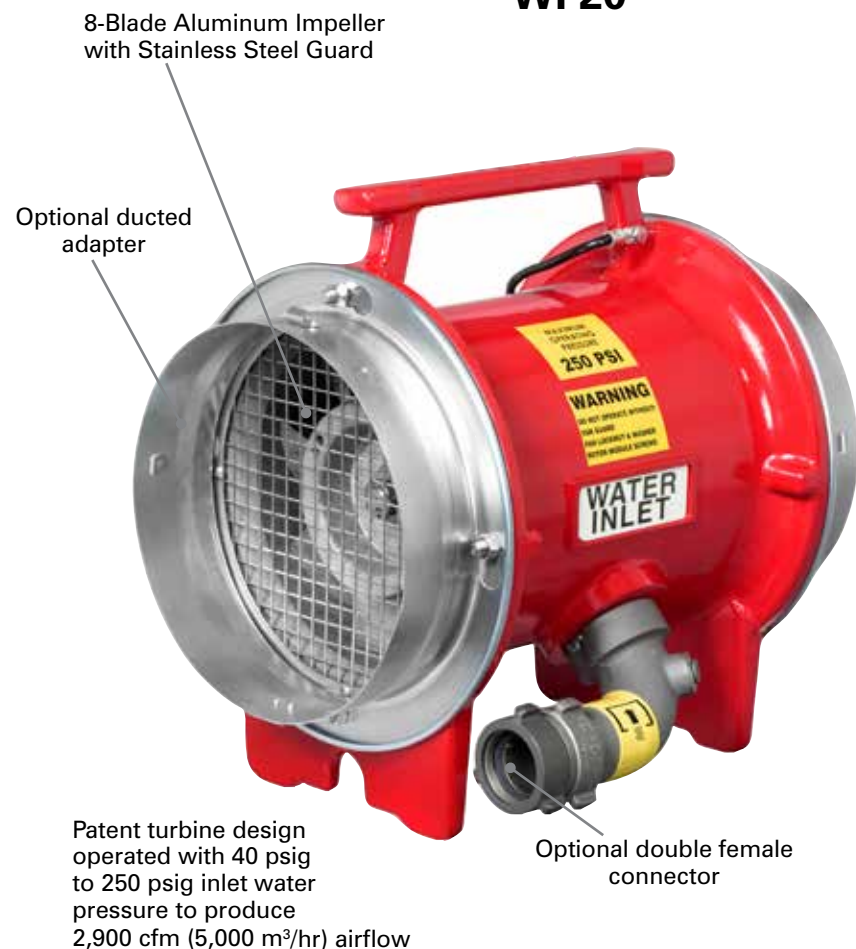


RAMFAN WF20 | Water Powered Blower



8" (20 cm) Water Powered Blower

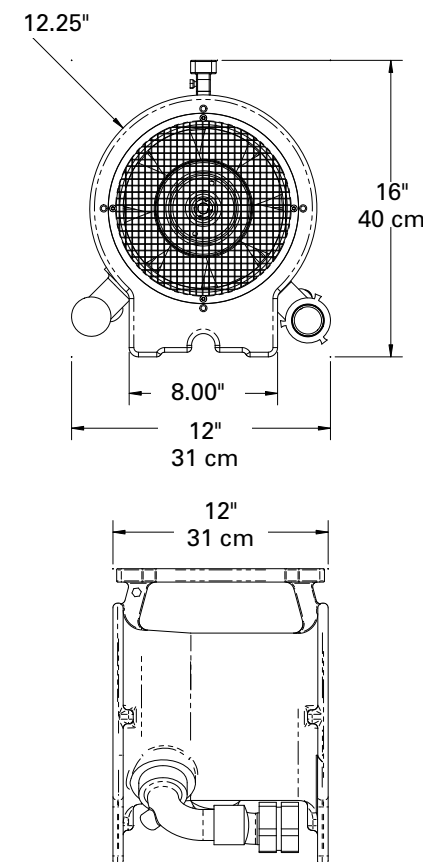
WF20



Multiplier/Mister



Various Couplings available upon request to meet customer's specifications



«Specifications

	WF20
Power	4.6 Hp (3.4 kW) @ 150psi (10 bar), 8 Hp (6 kW) @ 250psi (17 bar)
AIRFLOW	
Free Air	10,600 cfm (18,000 m ³ /hr)
Ducted @150psi	1,835 cfm (3,120 m ³ /hr)
Pressure/Flow	
Min:	40psi/29gpm
Max:	250psi/94gpm
Dimensions (h/w/d)	16 x 12 x 12 in (40 x 31 x 31 cm)
Weight	35 lbs (15.9 kg)
Connections: Male	1.5" / 3.8 cm NST/NH, NPSH, or BSP male connections

«Ordering information

RAMFAN WF20

Blower with 1.5" BSP Male Connection
Order# **WA5001BSP**

Blower with 1.5" NST/NH Male Connection
NSN: 4140-01-606-6071
Order# **WA5001NH**

Blower with 1.5" NPSH Male Connection
Order# **WA5001N**

Blower with 1.5" BSP Male (Water)/AFNOR DN300 Type M Duct Couplers
NATO: 4140-99-051-5733
Order# **WA5001GL**

Kit- US Navy version blower with 4 duct (DT-1015DVI-3) Two 10" Adapters
Order# **4140-01-333-2224**

Accessories

Duct

Neoprene Coated US Navy Standard (10"x15') (25 cm x 4.6 m)
US NSN: 4720-01-378-6044
US NSN: 4140-01-457-9527
Order# **DT-1015DVI-3**

12" (30 cm) wire reinforced duct
NATO 4130-99-930-5937
Order# **WA0721**

Duct Adapter

10" (25 cm) with Snap-Lock – 2 required/blower
NSN: 4730-01-378-5288
Order# **WA0411**

12" (30 cm) for use with belted duct – 2 required/blower
Order# **WA0511**

AFNOR DN 300 Type M (French Norm)
Order# **WA0711**

Multiplier/Mister
NSN:4140-01-414-0670
Order# **WA0802**

Multiplier/Mister with ZAG Adapter
NATO: 4140-01-600-6117
Order# **WA0802-AFNOR**

Strainer Adapter For use with BIC, Guillemin and storz couplings
Order# **WA2810**

Blower ZAG adapter
Order# **ZAGAY**

Multiplier/Mister ZAG Adapter
Order# **ZAGAY-2**





« Disposable Duct – 100' (30.5 m)

Order# FDT-12DISP (12"/30 cm)

Order# FDT-16DISP (16"/40 cm)

- Disposable, layflat polyethylene duct
- No reinforcement, 4mil thick
- 12" (30 cm) and 16" (40 cm) diameter sizes are sold by the foot



« Layflat Duct

Order# FDT-1625SME (16"/40 cm) unreinforced

Order# FDT-L4X10SME (16"/40 cm) with a 90° bend

- Fiber reinforced, collapsible duct
- 16" (40cm) diameter
- 16" (40cm) duct available with a 90° elbow, 4'x10'



« Duct Carrying Bags

Order# BG8

Order# BG12

Order# BG16

- Storage Bag for 8" (20 cm) x 15' (4.6m) or 25' (7.6m) Duct
- Storage Bag for 12" (30 cm) x 15' (4.6m) or 25' (7.6m) Duct
- Storage Bag for 16" (40 cm) x 15' (4.6m) or 25' (7.6m) Duct



« Duct Couplers and Adapters/Reducers

Order# System Includes

- DC8 8" (20 cm) Duct Coupler Stainless HD
- DC12 12" (30 cm) Duct Coupler Stainless HD
- DC16 16" (40 cm) Duct Coupler Stainless HD
- ED0304 8" (20 cm) Inlet Duct Adapter for UB20
- EC0301 12" (30 cm) to 8" (20 cm) Duct Adapter/Reducer
- EA7116 16" (40 cm) Inlet Side Duct Adapter
- EA7117 16" (40 cm) Exhaust Side Duct Adapter



« 18" (46 cm) Duct Adapter/Reducer

Order# GH2211

Use to connect 18" (46cm) GX/EX blowers to standard ECKO Flex 16" duct. During ducted ops, 100% of the airflow is captured to create a high-pressure flow, reducing friction loss through the length of the duct.



« Misting Systems

Order# System Includes

- EB8111 16" (40 cm) Mister for Models EX400/420, EV400/420
- GH8112 18" (46 cm) Mister for Models GX350
- GE8111 21" (54 cm) Mister for Models GX400
- GD8111 24" (60 cm) Mister for Models GX500
- GJ8111 28" (70 cm) Mister for Model GX600



« 16" (40 cm) Multi-Purpose Accessory Pack

Order# BG16FLA

- Multi-purpose solution for ventilation.
- Layflat storage bag includes:
 - 16" (40 cm) Cooling Collar
 - 16" (40 cm) Unreinforced Layflat Duct (25' (7.6 m)
 - 16" (40 cm) 90° Unreinforced duct 4' (1.2 m x 10' 3 m)



« Cooling Collars/Misters – 16" (40 cm) Blowers

Order# ED-MIST16

- Quickly cool and rehabilitate with a cooling collar
- Fits around duct adapter of blower injecting mist into airflow
- Designed for use with a garden hose
- Water output per hour is based on water pressure



«BIGbore™ Exhaust Diverter Adapter

Order# GF7110-CZ (For Honda GC160 Motor)
 Order# GF7110-KZ (For Honda GXH50 Motor)
 Order# GF7110-LZ (For Honda GX270 Motor)
 Order# GF7120-BZ (For Honda GX160 Motor)
 Order# GF7120-GZ (For Honda GX200 Motor)

- Diverts engine exhaust away from the work environment
- 2" (5 cm) diameter flexible, galvanized hose reduces engine back-pressure
- Quick connect fittings meet DIN standard
- Additional hose available to extend exhaust diversion



«Exhaust Diverter Hose

Order# GF7115

- 2" x 12' (5 cm x 3.6 m)



«Hour Meter

Order# GX1515

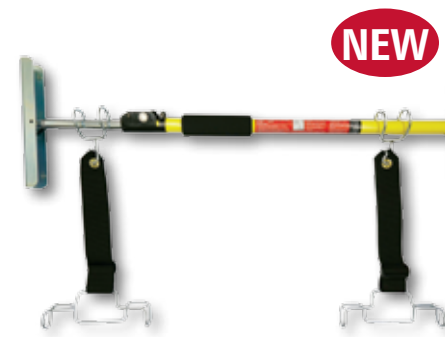
- GX Series
- Keep track of regular scheduled maintenance



«Tilt Bracket

Order# GX1515

- Provides full 360° rotation for ultimate freedom to direct air where you want
- Compatible with all EFi and EFC-series fans



«Door Bar and Hanger Kit

Order# EA7095K

- Suspend smoke ejector box fans in doorway or window for more efficient ventilation
- Compatible with all EFi and EFC-series fans



«Multiplier/Mister

Order# WA0802

Order# WA0802-AFNOR

- Venturi device doubles airflow
- Use as PPV blower
- Safe in hazardous conditions



EURAMCO SAFETY'S CERTIFIED PRODUCT MARK OF EXCELLENCE

Euramco Safety's Certified Product Mark is our visual statement to you that *RAMFAN Portable Ventilation Fans* are Quality Manufactured and have been tested by Recognized Third Party Testing Facilities throughout the world to certify all product performance information quoted in our catalog, sales materials and on our website is accurate. In addition, the Certified Product Mark assures you that all required operating certifications and designations required by the applicable agencies are in order and available for your review.

Euramco Safety is an ISO 9001:2008 Company: ISO 9000 is the internationally recognized Quality Management Standard used in more than 760,000 companies in 154 countries to maintain an internationally accepted standardized quality management throughout the world. Our commitment to this standard means our products are built in accordance with documented procedures and control processes to ensure ongoing uniformity and reliability.



The Air Movement and Control Association | The *Air Movement and Control Association* is the worldwide recognized authority for the development of standards and measurement of air movement. Euramco Safety is a member of AMCA and uses their PPV test. ANSI/AMCA Standard 240 - *Laboratory Methods of Testing Positive Pressure Ventilators for Aerodynamic Performance Rating* establishes a uniform method of laboratory testing of positive pressure ventilators (PPVs) in order to determine the airflow rate.



ATEX Hazardous Conditions Directive 94/9/EC | This directive applies to all electrical equipment for use in potentially explosive atmospheres; defined as gas, vapor or mist and are capable of causing an explosion through their own potential sources of ignition. RAMFAN Hazardous Location Fans are Whole Unit ATEX Certified for use in dangerous work environments as defined above anywhere in the world.



IECEX | The objective of the IECEx System is to facilitate international trade for equipment and services for use in explosive atmospheres, while maintaining the required level of safety. The IECEx has put in place a number of Conformity Assessment Schemes which provide assurance that equipment and systems are manufactured and operated according to the highest International Standards of safety.



Underwriters Laboratories, Inc. | UL is an independent, third party product safety certification organization that evaluates products for compliance to specific standards and permits those products that comply to carry the UL Mark. The UL Mark is recognized worldwide as a symbol of product safety.



INMETRO – National Institute of Metrology, Normalization and Industrial Quality in Brazil | Products obtain the INMETRO Certification Mark when they meet National Standards or specific technical requirements as detailed in the Brazilian Conformity Evaluation System (SBAC).



Uniform Conformity Procedures Set Forth By the European Union | The CE Mark is a mandatory marking for certain product groups and certifies that a product meets EU consumer safety, health or environmental requirements. In order to use the CE mark on a product the manufacturer must draw up a Declaration of Conformity in which they attest conformity with all relevant EU Directives.



China Compulsory Certification of Fire Products | China Compulsory Certification of fire protection products, also known as "3C certification", it is the Chinese government to protect consumer safety and national security, strengthen product quality management to implement a product conformity assessment system.



CSA – Canadian Standard Association | CSA International is a recognized provider of product testing and certification services throughout the world. The CSA Mark signifies the product has been tested and meets applicable U.S. and Canadian Standards, including those from CSA and UL for safety and performance.

Certifications & Standards

PLEASE NOTE: You can find certification markings from the below organizations throughout the catalog.

CERTIFICATIONS		
LOGO	REPRESENTS	
	ATEX- European Union Hazardous Location Certification by UL International Demko A/S notified by number 0539	
	European Union EMC and Safety	
	Recognized Component Mark for Canada and the United States	
	CSA Mark with other Standards as indicated by the mark below logo.	
	CSA Certified for both Canadian and United States markets	
	CSA Certified to the applicable US Standards for gas and other liquid petroleum products	
	CSA Certified to the applicable Canadian Standards for gas and other liquid petroleum products	
	International Electric Code - worldwide certification standards for electrical equipment used in hazardous locations.	
	INMETRO Mark -Brazilian Hazardous Location Conformity	
	North American Hazardous Location Certification	
	Registered by UL to a specified ISO or QS System.	
RATINGS		
IP RATING	FIRST DIGIT	SECOND DIGIT
IP55	Limited protection against dust ingress. (no harmful deposit)	Protected against low pressure water jets from any direction. Limited ingress permitted.
IP65	Totally protected against dust ingress.	Protected against low pressure water jets from any direction. Limited ingress permitted.
STANDARDS		
ORGANIZATION		
	ANSI American	The American National Standards Institute (ANSI) empowers its members and constituents to strengthen the U.S. marketplace position in the global economy.
NSN	NSN NO.	13-digit numeric code, identifying all the 'standardized material items of supply' as they have been recognized by all NATO countries including United States Department of Defense.
	IMPA CODES	Is used in the marine industry, this aims to bridge the language barrier and offer worldwide shipping companies an easy way to order goods.

Notes



Euramco Safety

Go to www.EuramcoSafety.com to find everything you need

- **Product Information**
- **Online Catalog**
- **Latest Industry News**
- **Certifications**
- **Latest Industry News**
- **FAQ**
- **Warranty Information**
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