

0

To

Yo

**No** 

No.

 $Q^{a}$ 

10

 $\frac{1}{2}$ 

# FIRE RESCUE CATALOG

\$

0

\$ \$

Ø

 $\mathcal{C}$ 

10,







| Core Technology           |
|---------------------------|
| BrushlessPPV™             |
| Electric Blowers/Exha     |
| Gas PPV Blowers & Acc     |
| RAMFAN <sup>©</sup> Water |
| Large Structure Ventil    |
| Confined Space Rescue     |
| Smoke Ejectors            |
| Certifications            |
| Services                  |
|                           |

# **Fire Rescue Catalog** Gas | Electric | Battery | Water

|                        | Page    |
|------------------------|---------|
|                        | 3-5     |
|                        | 6-8     |
| usters & Accessories _ | 9 -10   |
| cessories              | _ 11-12 |
|                        | 13      |
| ilators                | _ 14-15 |
| e                      | 16-18   |
|                        | 19      |
|                        | _ 20-21 |
|                        | 22      |

# **«** Core Technology

## **K** BrushlessPPV<sup>™</sup> Motor

RAMFAN's BrushlessPPV™ lineup is the culmination of nearly 10 years of R&D, with the focused purpose of bringing to market a range of highefficiency DC motors to deliver more powerful, lighter weight PPV fans that can replace gas-driven legacy models.

Our Brushless DC motors use a TEAO design to protect from water ingress, which was at the top of our design criteria list from early stages. Brushless DC, also known as electronically commutated (EC), motors are very high efficiency—at over 90%--which allows us to maximize output power on our fans that are used on limited supply battery power or 115V AC circuits with 15A limits. The electronic controllability of our Brushless motors also gives our engineering team a long runway for developing sensor-based control inputs in the future as technology continues to evolve.

# **CORE TECHNOLOGIES**

## **Purpose Built - Power to Serve**



The lightweight and efficient design of Brushless DC motors were critical to the development of battery-electric PPV fans. Introducing the BrushlessPPV<sup>™</sup> family of high efficiency motors.

- 1 hp BrushlessPPV<sup>™</sup> motor:
  - electric PPV fan in history.
  - ° The 1hp BrushlessPPV™ motor is rated at 700W, delivering >10,000 cfm from the RAMFAN EX50Li.
- 2 hp BrushlessPPV<sup>™</sup> motor:
- demanded from the battery packs.
- ° The 2 hp BrushlessPPV™ motor is rated at 1400W, delivering >12,000 cfm cfm from the EX150Li.

#### BrushlessPPV<sup>™</sup> models

|         | MODEL      | MOTOR                     | ТҮРЕ                 | PERFORMANCE | RUNTIME    | WEIGHT |
|---------|------------|---------------------------|----------------------|-------------|------------|--------|
| EX50Li  | EL5500-2PK | 1 hp, 48VDC BrushlessPPV™ | Battery-Electric PPV | 10,120 cfm  | 45 minutes | 54 lbs |
| EX150Li | EL6525-2PK | 2 hp, 56VDC BrushlessPPV™ | Battery-Electric PPV | 12,377 cfm  | 45 minutes | 77 lbs |

° RAMFAN developed the 1 hp BrushlessPPV™ motor in 2016 for the EX50Li, which has since become the best-selling battery-

 $^\circ$  To push the boundaries of power output, we needed a higher voltage motor platform to reduce the maximum current



Lithium battery packs have become the portable energy storage of choice for fire services around the world. So much so that the fleet level investment in battery packs exceed \$100,000 in some larger departments. As fire departments move into their second generation of battery-powered tools, management of battery fleets is becoming more of a concern and the idea that batteries are consumable items is quickly being replaced with the desire to understand them better, use them smarter, and—when the time comes—dispose of them safely.

PRO//connect is a wireless connectivity technology, exclusive to RAMFAN®, that gives firefighters the ability to track the condition of their battery packs over time, measure internal conditions, track cycle counts, upgrade BMS firmware, troubleshoot and even conduct basic maintenance of their battery packs.

Utilizing the latest near-field communication (NFC) and Bluetooth low energy (BLE) technology, PRO//connect adds wireless connectivity to simplify lifecycle management of next-generation firefighting tools. All RAMFAN® battery packs will be equipped, as standard spec, with PRO//connect hardware integrated into the packs and will interface with the PRO//connect mobile application—available in both iOS and Android versions.

#### MAX mode -



| MODEL   | CONTROLLER      | ТҮРЕ          | MAX MODE     |
|---------|-----------------|---------------|--------------|
| EX50Li  | Intellisense E3 | BrushlessPPV™ | $\checkmark$ |
| EX150Li | Intellisense E3 | BrushlessPPV™ | $\checkmark$ |



<< VIP<sub>m</sub>

Variable input power management—VIP<sub>m</sub>, for short—maximizes performance of the fan based on the available power to the fan. Battery power is limited—powering a high-powered fan from a single battery doubles the discharge current required from that pack, increase cell temperatures, and approach or surpass maximum current limits of cells. Spreading the load across two parallel packs allows fan performance to be increased. 115VAC circuits typically top out at 15A, or 1725W, while 230VAC allows more than double the power. Now one fan can automatically adjust its performance depending on the power available— simultaneously maximizing performance safety, and durability.

#### **PRO**//connect compatible models:

| MODEL  | NOMINAL CAPACITY | NOMINAL ENERGY | CYCLE LIFE DOD 80% | COMPATIBLE FAN |
|--------|------------------|----------------|--------------------|----------------|
| R2-40V | 7 Ah             | 252 Wh         | >500 cycles        | RAMFAN EX50Li  |
| M1-52V | 8 Ah             | 375 Wh         | >500 cycles        | RAMFAN EX150Li |

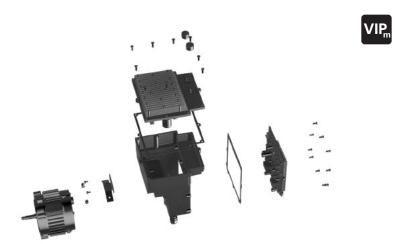
| MODEL   | CONTROLLER      | ТҮРЕ          | VIP <sub>m</sub> |
|---------|-----------------|---------------|------------------|
| EX50Li  | Intellisense E3 | BrushlessPPV™ | $\checkmark$     |
| EX150Li | Intellisense E3 | BrushlessPPV™ | $\checkmark$     |



#### MAX mode 1, 2, GO!

мах

Simple, intuitive operation across all BrushlessPPV™ fan models. MAX mode is a shortcut to maximum power with a single press of the speed control knob.



# **≪ BrushlessPPV**<sup>™</sup>

# 1hp 10,120 cfm

**NEW** - Gen2 with Intellisense E3 controller



**Battery Power** 





## EX150Li **All-Terrain**

RAMFAN, the only power system built just for firefighting. Delivering the most airflow at the fireground.

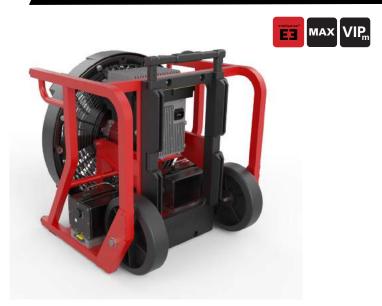
| owerStream® | Model                        | EX50Li 18″  |
|-------------|------------------------------|---|
| $\frown$    | Order #EL5500-2PK            | Includes RAMFAN EX50Li 40V 6Ah battery packs (2), power cord (1), carrying strap (1), wheel kit assembled (1) |
|             | Motor                        | 1 hp  |
|             | Runtime at full speed        | 45 minutes (two battery packs)<br>Unlimited (AC)  |
|             | Battery Compatability        | RAMFAN 40V (2 simultaneously)   |
|             | IP Rating                    | IP66  |
|             | Weight                       | 25 lbs  |
| Ξ           | Dimensions (h x w x d)       | 22" x 21" x 12"   |
|             | Amps                         | Under Testing   |
| 00f4/6m     | Noise                        | 87 dB   |
|             | Approvals                    | UN 38.3<br>IEC 62133-2  |
|             | Nominal Diameter             | 18"   |
|             | Controller Platform          | Intellisense E3   |
|             | On-tool Charging             | 1.5A per battery, simultaneous charge   |
|             | AMCA 240-15 Verified Airflow |   |

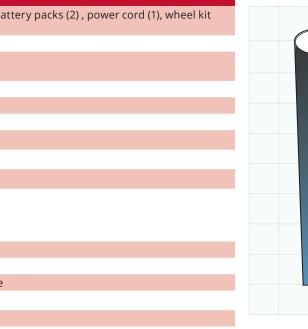
10,120 cfm

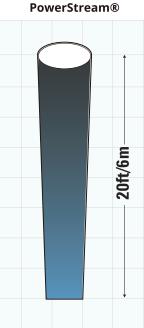
| Model                        | EX150Li 18″  |  |
|------------------------------|--|--|
| Order #EL6525 2PK            | Includes RAMFAN EX150Li 52V 8Ah bat<br>assembled (1) |  |
| Motor                        | 2 hp   |  |
| Runtime at full speed        | 45 minutes (two battery packs)<br>Unlimited (AC)     |  |
| Battery Compatability        | RAMFAN 52V (2 simultaneously)                        |  |
| IP Rating                    | IP66   |  |
| Weight                       | 63 lbs   |  |
| Dimensions (h x w x d)       | 23" x 21" x 21"                                      |  |
| Amps                         | Under testing  |  |
| Noise                        | 90.2 dB  |  |
| Approvals                    | UN 38.3<br>IEC 62133-2                               |  |
| Nominal Diameter             | 18″  |  |
| Controller Platform          | Intellisense E3                                      |  |
| On-tool Charging             | 1.5A per battery, simultaneous charge                |  |
| AMCA 240-15 Verified Airflow | 1  |  |
| Battery Power                | 12,377 cfm   |  |
|                              |  |  |

# **2 hp** 12,377 cfm

The most powerful battery-powered PPV fan.







ramfan.com



# **Electric | Blowers/Exhausters & Accessories**



| R | AMEA    |   |    |
|---|---------|---|----|
|   | VENTILA |   |    |
|   |         |   | ¥. |
| F |         | = | •  |

EV400/EV420

**EV SERIES** 

Powerful Single-Speed electric PPV fan with a powder coated steel frame, all-terrain semi-pneumatic tires and full width retractable handle.

|             | EV400<br>(16″/40 cm)                   | EV420<br>(16″/40 cm)   |
|-------------|--|--|
| Order No#   | EB80500                                | EB805010, EB81505 (CE)   |
| Motor       | 1.5 hp (1.1 kW)                        | 1.5 hp (1.1 kW)  |
| Power       | 115V, 1ø, 15A or 20A, 60Hz             | EB80510:230VAC, 1ø, 10A, 60Hz<br>EB81505:230VAC, 1ø, 10A, 50Hz |
| PPV Airflow | 11,391 cfm (21,940 m <sup>3</sup> /hr) | 10,994 cfm (30,039 m³/hr)                                      |
| Weight      | 68 lbs (31 kg)                         | 68 lbs (31 kg)   |
| Amps        | 15A / 20A                              |  |





EX400/EX420





Intellisense<sup>18</sup>





**PPV** Airflow Weight Amps Noise

EX SERIES

Order No#

Motor

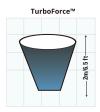
Power





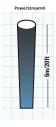
EX500/EX520

#### Variable Speed



The latest variable speed electric PPV fans with PowerStream®air straighteners for greater flow velocities and more flexible setback. Dual Current available on EX400 & EX500 models, with the flip of a switch, power fan from GFCI 20A fire truck circuit to GFCI 15A house circuit. EX500 and EX520 have optional ingratiated misting system.

| EX400<br>(16″/40 cm)          | EX420<br>(16″/40 cm)         | EX500<br>(18″/46 cm)                    | EX520<br>(18″/46 cm)                    |
|-------------------------------|------------------------------|---|---|
| EB80600                       | EB88245                      | EK86500                                 | EK86520                                 |
| 1.5 hp (1.1 kW)               |                              |   |   |
| 115V, 1ø, 15A or<br>20A, 60Hz | 230VAC, 1ø, 10A,<br>50/60Hz  | 115VAC, 1ø, 15A or<br>20A, 60Hz         | 230VAC, 1ø, 10A,<br>50/60Hz             |
| 11,391 cfm<br>(19,365 m³/hr)  | 10,994 cfm<br>(18,690 m³/hr) | 11,540 cfm<br>(19,618 m³/hr)            | 13,354 cfm<br>(22,702 m³/hr)            |
| 68 lbs (31 kg)                | 68 lbs (31 kg)               | 70 lbs (32 kg)                          | 70 lbs (32 kg)                          |
| 15A/20A                       | 15A/20A                      | 15A/20A                                 | 10A                                     |
| 88 db @ 3′ (1 m)              | 88 db @ 3' (1 m)             | 95 db @ 3′ (1 m) /<br>91 db @ 10′ (3 m) | 95 db @ 3′ (1 m) /<br>91 db @ 10′ (3 m) |





| XP S | SERIES |
|------|--------|
|------|--------|

ATEX certified motor to safely purge hazardous gases. Equipped with PowerStream® air straighteners for greater setback distances.

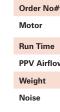
|             | XP400<br>(16″/40cm)                  | XP420<br>(16″/40cm)          | XP500<br>(18″/46cm)          | XP520<br>(18″/46cm)          |
|-------------|--------------------------------------|------------------------------|------------------------------|------------------------------|
| Order No#   | EB80500X                             | EB80500X-230                 | EB90600X                     | EB90600X-230                 |
| Motor       | 1.5 hp (1.1 kW)                      |                              |                              |                              |
| Power       | 115V, 1ø, 15A,<br>50/60Hz            | 230V, 1ø, 8A<br>50/60Hz      | 115V, 1ø, 15A,<br>50/60Hz    | 115V, 1ø, 15A,<br>50/60Hz    |
| PPV Airflow | 10,994 cfm<br>(19,365 m³/hr)         | 11,391 cfm<br>(18,690 m³/hr) | 11,540 cfm<br>(19,618 m³/hr) | 13,354 cfm<br>(22,702 m³/hr) |
| Weight      | 68 lbs (31 kg)                       | 68 lbs (31 kg)               | 72 lbs (33 kg)               | 72 lbs (33 kg)               |
| Amps        | 80A/15A                              |                              |                              |                              |
| Noise       | 97 dB @ 3' (1 m) / 95 db @ 10' (3 m) |                              |                              |                              |







GX200





GF165

#### **GF SERIES**

Tried and True the GF series have been around since RAMFAN got its start. The economical gas fans are well known for their durability.

| 0   | 5                           |                             |
|---|-----------------------------|-----------------------------|
|   | GF165<br>(16″/40 cm)        | GF210<br>(21″/54 cm)        |
| Order No#                                 | GA5006                      | GE5001                      |
| Motor                                     | Honda GX160 4.8 hp (3.5 kW) | Honda GX160 4.8 hp (3.5 kW) |
| Run Time                                  | 1 hr 6 min                  | 1 hr 26 min                 |
| PPV Airflow<br>Single Door<br>Double Door | 12,906 cfm (21,940 m³/hr)   | 17,670 cfm (30,039 m³/hr)   |
| Weight                                    | 84 lbs (38 kg)              | 88 lbs (40 kg)              |
| Noise                                     | 96.2 dB @ 3' (1 m)          | 96 dB @ 3' (1 m)            |

XP500/XP520

### **{** Accessories



Order# R2C-5500 Order# R2C-5500D Order # M16515DC Order # M16515

**External Battery** Charger









Door Bar Hanger and Kit Order# EL7095 (EX50Li Only) Hanger Kit

Blowers

Order# ED-MIST16

For use with all 16" (40 cm) fans

Cooling Collars/Misters 40 cm





Battery Packs Order # M1-52V Order# R2-360-AH-U Recommend purchasing 2



Integrated Misting System 1.85 gal/min @ 100 psi (1 l/min @ 6.9 bar) Order# GH8112 (EX500/EX520, XP500/XP5200)

Order# EB8111 (EV400/EV420, EX400/EX420) Order# EL6013



Shoulder Strap Order# EL6013 For EX50Li Fan

> Standard Duct with Storage Bags 16"/40 cm x 15'/4.6 m Order# FDT-1615BR

16"/40 cm x 25'/7.6 m Order# FDT-1625BR For use with all 40 cm Fans

18"/46 cm x 16.4'/5 m Order# FDT-185MSR For use with all 46 cm Fans

Storage Bag Only Storage Bag for 16" (40 cm) Order# BG16

**HI-Expansion Foam Adapter** Order# HI-5000

#### **ULTRA LIGHTWEIGHT SERIES**

RAMFAN offers the lightest PPV fans on the market, providing the ultimate portability. Starting at only 16kg, the GX200L can easily be carried with one hand. Light enough to carry up stairwells and deploy in large commercial buildings or powerful enough for PPV in residential houses. Equipped with PowerStream<sup>®</sup>air straighteners.

|   | GX200L<br>(16″/40 cm)                  | GX200<br>(16″/40 cm)                 |
|---|--|--------------------------------------|
| ł | GG5500                                 | GG5010                               |
|   | Honda GXH50 2.1 hp (1.6 kW)            | Honda GXH50 2.1 hp (1.6 kW)          |
|   | 1 hr 40 min                            | 1 hr 40 min                          |
| w | 12,820 cfm (21,794 m <sup>3</sup> /hr) |                                      |
|   | 36 lbs (16 kg)                         | 48 lbs (22 kg)                       |
|   | 91 db @ 3' (1 m) / 86 db @ 10' (3 m)   | 91 db @ 3' (1 m) / 86 db @ 10' (3 m) |



GF210





**Fire Rescue** 

#### **GX SERIES**

integrated misters.

Order No#

Run Time

PPV Airflow

Single Door

Double Doo

Motor

Weight

Noise

GX310 (18"/46 cm)

Honda GX160 4.8 hp (3.5 kW)

16,968 cfm (28,846 m3/hr)

GH5010

2 hr 6 min

82 lbs (37 kg)

100 dB @ 3' (1 m) /

95 db @ 10' (3 m)

GX310/GX350



#### Accessories =



BIGbore<sup>™</sup> Exhaust Diverter (Muffler Fitting) 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) Order# GF7120-DZ (For Honda GX120 Motor)



High performance PPV fans for structural firefighting. The GX Series blowers are equipped with PowerStream® air straighteners that tighten the airflow to keep it focused over

longer distances without losing significant power; permitting unrestricted setback from the

GX350 (18″/46 cm)

Honda GX200 5.5 hp (4.1 kW)

18,705 cfm (31,799 m3/hr)

access point, reduced interference with communication and flexible positioning. Optional

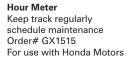
GH5020

1 hr 50 min

84 lbs (38 kg)

101 db @ 3' (1 m) /

97 db @ 10' (3 m)



Integrated Misting System 1.85 gal/min @ 100 psi (7 l/min @ 6.9 bar) Order# GH8112 (For GX310, 350) Order# GE8111 (GX400)

GX400 (21"/54 cm)

Honda GX200 5.5 hp (4.1 kW)

16,979 cfm (28,555 m3/hr)

22,500 cfm (38,250 m3/hr)

GE5022

1 hr 50 min

88 lbs (40 kg)

99 dB @ 3' (1 m) /

95 db @ 10' (3 m)

Standard Duct with Storage Bags 16"/40 cm x 15'/4.6 m Order# FDT-1615BR

16"/40 cm x 25'/7.6 m Order# FDT-1625BR For use with all 40 cm Fans

18"/46 cm x 16.4'/5 m Order# FDT-185MSR For use with all 18" (46 cm) Fans

Safer...

More Efficient...

RAMFAN's water powered design eliminates the threat of electrical shock and minimizes dangerous gas environments.

RAMFAN's patented Axial Flow Turbine Technology leads the way in converting water power into high velocity airflow more efficiently than any water fan on the market today.

|                              | WF390L (16″/40 cm)                            |
|------------------------------|---|
| Order No#                    | WB5001LB, WB5001LNH, WB5001DIN (CCCF)         |
| PPV Airflow<br>Single Door   | 10,886 cfm @ 150 psi (18,506 m³/hr @ 1.0 MPa) |
| Pressure<br>Nominal:<br>Max: | 150 psi / 1.0MPa<br>250 psi / 1.7MPa          |
| Weight                       | 60 lbs (27 kg)                                |

| WX500 (24″/61 o                        |
|--|
| WX5001                                 |
| 16,155 cfm @ 15                        |
| 100 psi / 0.7 MPa<br>150 psi / 1.0 MPa |
| 60 lbs (27.22 kg)                      |
|  |

|                              | WF540 (21″/54 cm)                             |
|------------------------------|---|
| Order No#                    | WD5010  |
| PPV Airflow<br>Single Door   | 22,443 cfm @ 150 psi (38,154 m³/hr @ 1.0 MPa) |
| Pressure<br>Nominal:<br>Max: | 150 psi / 1.0MPa<br>250 psi / 1.7MPa          |
| Weight                       | 75 lbs (34 kg)                                |

#### **{** Accessories **—**



Integrated Misting System 1.85 gal/min @ 100 psi (7 l/min @ 7 bar) Order# WD8111 (WF540) Order# WB8111 (WF390L)

Many water connection fittings available. Call for details.



**Exhaust Diverter Hose** 2" x 12' (5 cm x 3.6 m) Order# GF7115 For use with BIGbore™Exhaust Diverter



40 cm Multi-Purpose Accessory Kit Order# BG16LFA For use with all 16" (40 cm) Fans





Cooling Collars/Misters 40 cm Blowers Order# ED-MIST16 For use with all 16" (40 cm) Fans



#### Better ....

RAMFAN's axial turbine is bult of corrosion proof composite materials for long life, simple maintenance and easy replacement of parts.



50 psi (27,464 m³/hr @ 1.0 MPa)



# Fire Rescue

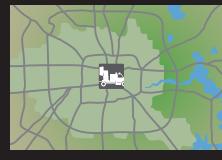
Online retailing today is filling warehouses everywhere with products. Adding these to the current inventory of big box stores, airports, high-rises and hotels, the need for tools to fight large structure fires is clear.

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

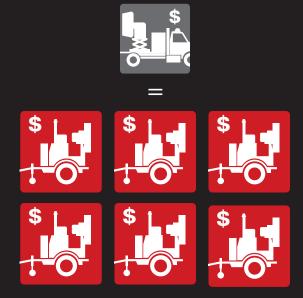
Until now, Large Structure Ventilators have been huge monsters that are difficult to move and meneuverm which can limit access to the structure on fire. They require a large storage space and have price tags that are budget-busters. This limits most cities to a single unit for the entire area.

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.

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.







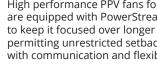
# **RAMFAN®GAS** LSV Blowers

## LSV = Large Structure Ventilators = Big fans for big buildings

**GX SERIES** 

Large volumes of high-velocity airflow is required for ventilating large and complex structures. Quickly removing smoke, gases, engine exhaust or particulates from a large confined area increases safety of both personnel and property, reducing the chances of toxic inhalation and general atmospheric danger.











| 2 hrs 2 min                          |
|--------------------------------------|
| 27,800 cfm (47,3<br>37,700 cfm (64,6 |
| 137 lbs (62 kg)                      |
| 100 dB @ 3′ (1 r                     |
|                                      |

GX600

|   | VX700<br>(Skid Mounted)<br>(28″/70 cm)                        | VX700<br>(US Trailer<br>Mounted)<br>(28″/70 cm)               | VX700<br>(European Trailer<br>Mounted)<br>(28″/70 cm)         |
|---|---|---|---|
| Order No#                               | GK5000  | GK5005  | GK5010  |
| Motor                                   | Honda GX630<br>23 hp (17 kW)                                  | Honda GX630<br>23 hp (17 kW)                                  | Honda GX630<br>23 hp (17 kW)                                  |
| Run Time                                | 2 hrs 30 min  | 2 hrs 30 min  | 2 hrs 30 min  |
| PPV Airflow<br>Double Door<br>Warehouse | 46,700 cfm<br>(79,390 m³/hr)<br>60,200 cfm<br>(105,400 m³/hr) | 46,700 cfm<br>(79,390 m³/hr)<br>60,200 cfm<br>(105,400 m³/hr) | 46,700 cfm<br>(79,390 m³/hr)<br>60,200 cfm<br>(105,400 m³/hr) |
| Weight                                  | 220 lbs (100 kg)  | 920 lbs (417 kg)  | 920 lbs (417 kg   |
| Noise                                   | 100 dB @ 3' (1 m) / 95 db @ 10' (3 m)                         |   |   |





Skid Mounted



European Trailer Mounte

Continous Track Mountee

Accessories





BIGbore<sup>™</sup> Exhaust Diverter (Muffler Fitting) Order# GF7110-LZ (GX500 and VX700)



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



High performance PPV fans for structural firefighting. The GX Series blowers are equipped with PowerStream<sup>®</sup>air straighteners that tighten the airflow to keep it focused over longer distances without losing significant power; permitting unrestricted setback from the access point, reduced interference with communication and flexible positioning. Optional integrated misters.

| GX500<br>4″/60 cm)       | GX600<br>(28″/70 cm)                                  |
|--------------------------|---|
| 3 (CCCF Certified)       | GJ5005  |
| .5 hp (6.3 kW)           | Vangaurd 18 hp (13.4kW)<br>V-Twin OHV mod .3          |
|                          | 2 hrs 40 min  |
| 260 m³/hr)<br>090 m³/hr) | 32,500 cfm (55,250 m³/hr)<br>49,00 cfm (83,300 m³/hr) |
|                          | 175 lbs (80 kg)                                       |
| m) / 95 db @ 10′ (3 m)   | 105 db @ 3' (1 m) / 103 db @ 10' (3 m)                |





Hour Meter Keep track regularly schedule maintenance Order# GX1515 (For use with Honda Motors)



Integrated Misting System Order# GD8111 (GX500 only) Order# GD8111M (GX500 Option BSP) Order# GJ8111 (GX600 only)



**LSV Blowers** 

#### ramfan.com



# RAMFAN<sup>®</sup>ELECTRIC Confined Space Rescue

## **Confined Space Ventilators**

Confined space rescues require additional considerations to perform a rescue. In additional 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.



|  | UB20 (115V)  | UB20 (230V)  |
|--|--|--|
| Order No#  | EF7002   | EF8002   |
| Motor  | 0.33 hp (0.25 kW)  | 0.33 hp (0.25 kW)  |
| Power  | 115V, 1ø, 50/60 Hz   | 230V, 1ø, 50/60Hz  |
| Free Air<br>Through Duct   | 980 cfm (1,666 m³/hr)  | 819 cfm (1,392 m <sup>3</sup> /hr)   |
| 4.6 m w/one 90° turn:<br>4.6 m w/two 90° turns:<br>7.6 m w/one 90° turn:<br>7.6 m w/two 90° turns: | 789 cfm (1,341 m³/hr)<br>666 cfm (1,132 m³/hr)<br>722 cfm (1,227 m³/hr)<br>614 cfm (1,044 m³/hr) | 659 cfm (1,120 m³/hr)<br>558 cfm (948 m³/hr)<br>603 cfm (1,025 m³/hr)<br>510 cfm (867 m³/hr) |
| Weight   | 27 lbs (12 kg)   | 27 lbs (12 kg)   |
| Amps   | 7A / 2A  | 7A / 1.2A  |
| Noise  | 74 db  |  |

#### **{ Accessories**





**Standard Duct** Order# FDT-21624026BR 8"/20 cm x 15'/4.6 m

# FDT-21624026BR cm x 15′/4.6 m

Order# FDT-21624076BR 8″/20 cm x 25′/7.6 m Ouick-Couple™ Canister Order# ED7004CS Quick-Couple Canister with 15′(4.6 m) Standard Duct

Order# ED7004CL Quick-Couple Canister with 25'(7.6 m) Standard Duct

Order# ED7004CL/DS - Quick-Couple™ Canister w/ (2pcs) 5'/1.5 m and 15'4.6 m duct

|  | UB20 (115V)  | UB20 (230V)  | UB20 (12VDC)                                 |
|--|--|--|--|
| er No#   | ED7002   | ED8002   | ED9002                                       |
| tor  | 1 hp (0.25 kW)   | 1 hp (0.25 kW)   | 0.25 hp (0.19 kW)                            |
| ver  | 115V, 1ø, 50/60 Hz   | 230V, 1ø, 50/60Hz  | 12 VDC                                       |
| e Air<br>ough Duct   | 980 cfm (1,666 m³/hr)  | 819 cfm (1,392 m <sup>3</sup> /hr)   | 862 cfm (1,465 m³/hr)                        |
| /4.6 m w/one 90° turn:<br>/4.6 m w/two 90° turns:<br>/7.6 m w/one 90° turn:<br>/7.6 m w/two 90° turns: | 789 cfm (1,341 m³/hr)<br>666 cfm (1,132 m³/hr)<br>722 cfm (1,227 m³/hr)<br>614 cfm (1,044 m³/hr) | 659 cfm (1,120 m³/hr)<br>558 cfm (948 m³/hr)<br>603 cfm (1,025 m³/hr)<br>510 cfm (867 m³/hr) | 695 cfm (1,181 m³/hr)<br>586 cfm (996 m³/hr) |
| ght  | 17 lbs (8 kg)  | 17 lbs (8 kg)  | 17 lbs (8 kg)                                |
| ps   | 9.5A / 2.5A  | 4.8A / 1.3A  | 11.5A  |
| se   | 74 db  |  |  |





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

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



Quick-Couple™ Canister Order# ED7004CS Quick-Couple Canister with 15′(4.6 m) Standard Duct

Order# ED7004CL Quick-Couple Canister with 25'(7.6 m) Standard Duct

Order# ED7004CL/DS - Quick-Couple™ Canister w/ (2pcs) 5'/1.5 m and 15'/4.6 m duct

#### ramfan.com



## **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 4,114 m<sup>3</sup>/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.

EFi75xx (230V)

EB7201XX-230

230V, 1ø, 50/60Hz

27A / 4.4A



EFI75xx (115V)

EB7201XX

0.75 hp (0.56 kW) 115V, 1ø, 50/60 Hz

2,500 cfm (4,250 m<sup>3</sup>/hr)

1,664 cfm (2,829 m<sup>3</sup>/hr)

1,529 cfm (2,599 m<sup>3</sup>/hr)

44 lbs (20 kg)

37A / 8.8A

89 db

|   | UB30 (115V)  | UB30 (230V)   |
|---|--|---|
| Order No#   | EJ4002   | EJ8002  |
|   |  |   |
| Motor   | 1 hp (0.75 kW)   | 1 hp (0.75 kW)  |
| Power   | 115V, 1ø, 50/60 Hz   | 230V, 1ø, 50/60Hz   |
| Free Air<br>Through Duct  | 2,420 cfm (4,114 m³/hr)  | 2,017 cfm (3,429 m <sup>3</sup> /hr)  |
| 15'/4.6 m w/no turns:<br>15'/4.6 m w/one 90° turn:<br>15'/4.6 m w/two 90° turns:<br>25'/7.6 m w/one 90° turn:<br>25'/7.6 m w/two 90° turns: | 2,050 cfm (3,485 m <sup>3</sup> /hr)<br>2,050 cfm (3,485 m <sup>3</sup> /hr<br>1,875 cfm (3,188 m <sup>3</sup> /hr)<br>1,825 cfm (3,108 m <sup>3</sup> /hr)<br>1,750 cfm (2,9745 m <sup>3</sup> /hr) | 1,650 cfm (2,805 m³/hr)<br>1,500 cfm (2,550 m³/hr)<br>1,376 cfm (2,340 m³/hr)<br>1,400 cfm (2,380 m³/hr)<br>1,324 cfm (2,250 m³/hr) |
| Weight  | 37 lbs (17 kg)   | 37 lbs (17 kg)  |
| Amps  | 33A / 8A   | 17A / 5A  |
| Noise   | 95 db @ 3' (1 m)   |   |

**SAFES** 



| Euramco Safety's specialty. Certified explosion-proof portable ventilators. |                                      |                                      |                         |  |
|---|--------------------------------------|--------------------------------------|-------------------------|--|
|   | EFi50xx* (16″/40 cm)                 | EFi120xx (16″/40 cm)                 | EFi150xx (16″/40 cm)    |  |
| Order No#   | EA8000XX, EA8000XX-230               | EA8120XX, EA8120XX-110               | EG8200XX, EG8200XX-230  |  |
| Motor   | 0.5 hp (0.37 kW)                     | 1.2 hp (0.9 kW)                      | 1.5 hp (1.1 kW)         |  |
| Electric  | 115/230V, 1ø, 50/60 Hz               | 110/240V, 1ø, 50Hz                   | 115/230V, 1ø, 50/60 Hz  |  |
| Free Air<br>Through Duct  | 3,200 cfm (5,440 m <sup>3</sup> /hr) | 3,750 cfm (6,375 m³/hr)              | 4,459 cfm (7.580 m³/hr) |  |
| 4.6 m w/one 90° turn:   | 1,935 cfm (3,289 m <sup>3</sup> /hr) | 2,700 cfm (4,590 m <sup>3</sup> /hr) | 3,179 cfm (5,404 m³/hr) |  |
| Weight  | 49 lbs (22 kg)                       | 55 lbs (25 kg)                       | 61 lbs (28 kg)          |  |
| Amps  | 25A /6A, 13A / 3A                    | 54A / 10A, 27A / 5A                  | 80A / 15A, 40A / 8A     |  |
| Noise   | 90.2 db @ 3' (1 m)                   | 86.1 db @ 3' (1 m)                   | 90.2 db @ 3' (1 m)      |  |

\*Certified Motor Only

#### EFC50x/EFC120x/EFC150x

# **SAFER**

| Heat-resistant Lexan® housing, and use an explosion-proof motor |                                      |                                      |                                      |  |
|---|--------------------------------------|--------------------------------------|--------------------------------------|--|
|   | EFC50x (16″/40 cm)                   | EFC120x (16″/40 cm)                  | EFC150x (16"?40 cm)                  |  |
| Order No#   | EA7000X                              | EA7300X                              | EG8000X,EG8000X-230                  |  |
| Motor   | 0.5 hp (0.37 kW)                     | 1.2 hp (0.9 kW)                      | 1.5 hp (1.1 kW)                      |  |
| Electric  | 115/230V, 1ø, 50/60 Hz               | 230V, 1ø, 50Hz                       | 115/230V, 1ø, 50/60 Hz               |  |
| Free Air<br>Through Duct  | 3,200 cfm (5,440 m³/hr)              | 3,750 cfm (6,375 m³/hr)              | 4,459 cfm (7.580 m <sup>3</sup> /hr) |  |
| 4.6 m w/one 90° turn:   | 1,935 cfm (3,289 m <sup>3</sup> /hr) | 2,700 cfm (4,590 m <sup>3</sup> /hr) | 3,179 cfm (5,404 m <sup>3</sup> /hr) |  |
| Weight  | 49 lbs (22 kg)                       | 55 lbs (25 kg)                       | 61 lbs (28 kg)                       |  |
| Amps  | 25A /6A, 10A / 3A                    | 27A / 5A                             | 80A / 15A, 40A / 8A                  |  |
| Noise   | 90.2 db @ 3' (1 m)                   | 86.1 db @ 3' (1 m)                   | 90.2 db @ 3' (1 m)                   |  |

#### **{ Accessories**

Order No# Motor

Power

Free Air Through Duct

Weight

Amps

Noise

4.6 m w/one 90° turn:

4.6 m w/two 90° turns:





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

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



Anti-static Duct 12"/30 cm x 15'/4.6 m

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



Order# FDT-1215CBB



|                          | Heat-resistar           |                                      |                         |
|--------------------------|-------------------------|--------------------------------------|-------------------------|
|                          | EFC50 (16"/40 cm)       | EFC120 (16″/40 cm)                   | EFC150 (16″/40 cm)      |
| Order No#                | EA7000, EA7000-230      | EA7300                               | EG8000,EG8000-230       |
| Motor                    | 0.5 hp (0.37 kW)        | 1.2 hp (0.9 kW)                      | 1.5 hp (1.1 kW)         |
| Electric                 | 115/230V, 1ø, 50/60 Hz  | 230V, 1ø, 50Hz                       | 115/230V, 1ø, 50/60 Hz  |
| Free Air<br>Through Duct | 3,200 cfm (5,440 m³/hr) | 3,750 cfm (6,375 m³/hr)              | 4,459 cfm (7.580 m³/hr) |
| 4.6 m w/one 90° turn:    | 1,935 cfm (3,289 m³/hr) | 2,700 cfm (4,590 m <sup>3</sup> /hr) | 3,179 cfm (5,404 m³/hr) |
| Weight                   | 49 lbs (22 kg)          | 55 lbs (25 kg)                       | 61 lbs (28 kg)          |
| Amps                     | 25A /6A, 10A / 3A       | 27A / 5A                             | 80A / 15A, 40A / 8A     |
| Noise                    | 90.2 db @ 3' (1 m)      | 86.1 db @ 3' (1 m)                   | 90.2 db @ 3' (1 m)      |

18

#### EFi50xx/EFi120xx/EFi150xx







#### EFC50/EFC120/EFC150

| SAI | FE |
|-----|----|
|-----|----|



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.





MRFR

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.

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

**IECEx** | The objective of the IECEx System is to facilitate international trade for

according to the highest International Standards of safety.

implement a product conformity assessment system.





**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

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



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





**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**

| CERTIFICATIONS & STANDARDS |  |                |  |
|----------------------------|--|----------------|--|
|                            |  | CER            |  |
| LOGO                       |  |                |  |
| (Ex)                       |  | ATEX- Eu       |  |
|                            |  | Internatio     |  |
| CE                         |  | European       |  |
|                            |  |                |  |
| c <b>FL</b> us             | S  | Recognize      |  |
|                            |  | CSA Marl       |  |
| LR66789                    |  |                |  |
|                            |  |                |  |
| CUS                        |  | CSA Certi      |  |
| G                          |  | CSA Certi      |  |
| CENTINED                   | petroleun                                      |                |  |
|                            |  |                |  |
| CERTIFIED                  |  | liquid pet     |  |
| IFC JECK                   |  | Internatio     |  |
|                            |  | electrical     |  |
| Segurança                  |  |                |  |
|                            |  | INMETRC        |  |
|                            |  |                |  |
|                            | D  | North Am       |  |
|                            |  | Registere      |  |
|                            |  | riogistoro     |  |
| IP RATING                  | EIDET  |                |  |
|                            | FIRST DIGIT<br>Limited protection against dust |                |  |
| IP55                       | ingress. (no harmful deposit)                  |                |  |
| IP65                       | Totally protected a ingress.                   | against dust   |  |
|                            |  | S <sup>-</sup> |  |
| ORGANIZATION               |  |                |  |
| ANSI                       | ANSI American                                  |                |  |
| NSN                        | NSN NO.  |                |  |
| International<br>Marine    |  |                |  |
| Parchasing<br>Association  | IMPA C   | ODES           |  |

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

#### TIFICATIONS

#### REPRESENTS

uropean Union Hazardous Location Certification by UL onal Demko A/S notified by number 0539

n Union EMC and Safety

ed Component Mark for Canada and the United States

k with other Standards as indicated by the mark below logo.

ified for both Canadian and United States markets

tified to the applicable US Standards for gas and other liquid m products

rtified to the applicable Canadian Standards for gas and other troleum products

onal Electric Code - worldwide certification standards for equipment used in hazardous locations.

O Mark -Brazilian Hazardous Location Conformity

nerican Hazardous Location Certification

d by UL to a specified ISO or QS System.

# RATINGS SECOND DIGIT Protected against low pressure water jets from any direction. Limited ingress permitted. Protected against low pressure water jets from any direction. Limited ingress permitted. CTANDARDS The American National Standards Institute (ANSI) empowers its members and constituents to strengthen the U.S. marketplace

 position in the global economy.

 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.

 Is used in the marine industry, this aims to bridge the language barrier and offer worldwide shipping companies an easy way to order goods.

# **«SERVICES**



#### **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@euramco.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@euramco.com

A confirmation will follow all orders placed.



Contents of this catalog are subject to change without notice.

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.

#### 

Hours of Operation M-F 8:30 a.m. - 5:00 p.m. PST

Toll Free1(800) 472-6326Phone+1(619) 670-9590Fax+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.

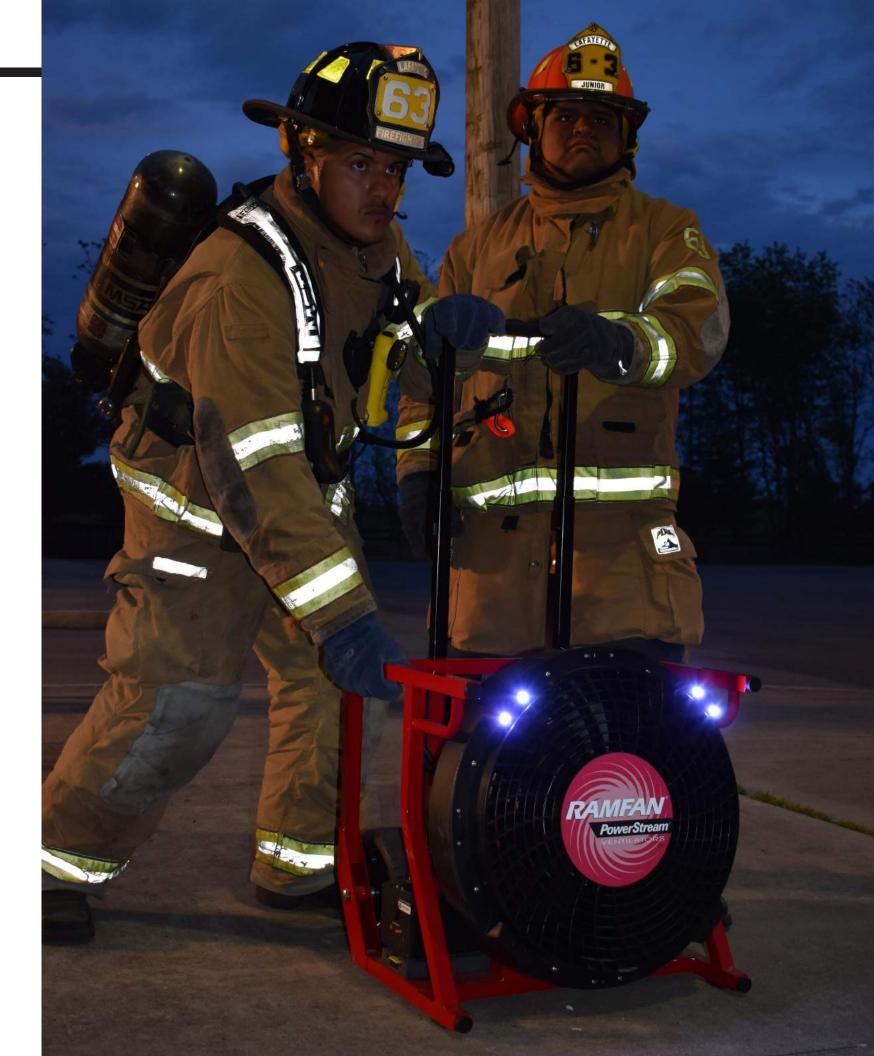
Phone +3 Fax+ 3

+352-26008055 352-26008056

#### SINGAPORE

Hours of Operation M-F 8:30 a.m. - 5:00 p.m.

Phone +65-9773 33 35



# RAMFAN

# Go to ramfan.com to find everything you need

- Product Information
- Online Catalog
  - Latest Industry News
    - Certifications

- Warranty Information
- Technical Bulletin
  - Manuals

FAQ

•

Headquarters - USA 2746 Via Orange Way Spring Valley, CA 91978 USA

Europe 68, Avenue de la liberte

1931 Luxembourg

China 中国

优兰特集团 No. 128, HeZhou Road,

JiaoChuan Street, ZhenHai District, Ningbo, China 315207 Singapore
1 Fullerton Road

X

#02-01 One Fullerton Singapo<u>re 049213</u>

General Inquiries: theteam@euramco.com Support: support@euramco.com

©2022 Euramco Group