



Euramco Safety

Makers of RAMFAN Ventilators

MARCH 2010 CATALOG



Fire and Rescue | Industrial Workplace | Confined / Hazardous Space | Marine | Military
PORTABLE VENTILATION SOLUTIONS FOR A SAFE WORKPLACE





Sales and Customer Service

USA

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8:00 a.m. – 8:00 p.m. EST

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Technical Assistance

Our Customer Service Support or 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 sales@euramcosafety.com.

Placing Your Order

Contact your local representative or 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



China



Europe



Dubai

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America



China



Europe



Dubai

ISO 9000 STANDARDS

ISO 9000 has become an international reference for quality management requirements in business-to-business dealings. It is among ISO's most widely known standards, implemented by some 760,900 organizations in 154 countries.

Meeting this standard ensures that Euramco Safety fulfills the customer's quality requirements and applicable regulatory requirements, while aiming to enhance customer satisfaction and achieve continual improvement of its performance in pursuit of these objectives.

To continue to provide the best engineered fans in the market, Euramco Safety upholds the ISO 9000 standards. View our ISO 9000 certificate on our website at www.euramcosafety.com.

For more detailed information on ISO 9000 or the International Organization for Standardization visit <http://www.iso.org>.



ISO 9000
Company





INDUSTRIAL/ CONFINED SPACE

INDUSTRIAL/ CONFINED SPACE

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, hazardous ventilation and deliver the highest airflow in their class. The double-wall, polyethylene casing is light-weight, corrosion and chemical resistant and handles the bumps and falls of any jobsite.

8" / 20cm | UB20 Blower/Exhauster

- Powerful, compact size and lightweight
- High pressure axial blower with ultra-quiet operation
- Corrosion-proof, dent-resistant and virtually indestructible
- Double-walled UV resistant polyethylene housing
- Thermal switch provides overheat protection
- AC-15'/4.6m cord w/ IP65 rain tested switch enclosure
- DC-15'/4.6m cord w/ battery clips
- 4 Power options available:
 - 50Hz – 1/4Hp 115V
 - 50Hz – 1/4Hp 240V
 - 60Hz – 1/3Hp 110V
 - 1/3Hp 12V DC
- IMPA Code: ED7002 - 591402



UB20 (12V DC)

MODEL	UB20 (12V)	UB20 (50Hz)	UB20 (60Hz)	UB20 (50Hz)
Order #	ED9002	ED8002	ED7002	ED6002
STOCK LOCATIONS				
FREE AIR 15ft/4.6m 1-90° turn 15ft/4.6m 2-90° turns	862cfm/1,465.4m³/hr 695cfm/1,181.5m³/hr 586cfm/996.2m³/hr	819cfm/1,392.3m³/hr 659cfm/1,120.3m³/hr 558cfm/948.6m³/hr	980cfm/1,666.3m³/hr 789cfm/1,341.3m³/hr 666cfm/1,132.2m³/hr	819cfm/1,392.3m³/hr 659cfm/1,120.3m³/hr 558cfm/948.6m³/hr
IMPELLER	9-blade	9-blade	9-blade	9-blade
WEIGHT	17lbs/8kg	17lbs/8kg	17lbs/8kg	17lbs/8kg
DIMENSIONS (h/w/d)	14/12/13 in 355/305/330 mm	14/12/13 in 355/305/330 mm	14/12/13 in 355/305/330 mm	14/12/13 in 355/305/330 mm
NOISE	74dB	74dB	74dB	74dB
MOTOR	0.33Hp/0.25kW	0.25Hp/0.19kW	0.33Hp/0.25kW	0.25Hp/0.19kW
ELECTRIC	12V DC	240VAC, 1ø	110VAC, 1ø	115VAC, 1ø
AMPS – RUN	11.5A	1.3A	2.7A	2.6A
CERTIFICATION				





Quick-Couple™ Reversible Canister

Detachable in seconds, the Quick-Couple™ Canister with attached duct conveniently reverses from discharge to suction, making use and storage easier while protecting duct from rips and tears. Available with 15'/4.6m or 25'/7.6m of duct.

15'/4.6m canister: 14h x 12w x 31.5d in.
35.6h x 30.5w x 80d cm

25'/7.6m canister: 14h x 12w x 41.5d in.
35.6h x 30.5w x 105d cm

Order # System Includes

Order #	System Includes
ED6015	20cm 115V, 50Hz Blower/Exhauster, Quick-Couple Canister w/ 4.6m duct
ED6025	20cm 115V, 50Hz Blower/Exhauster, Quick-Couple Canister w/ 7.6m duct
ED7015	8" 110V Blower/Exhauster, Quick-Couple Canister w/ 15' duct
ED7025	8" 110V Blower/Exhauster, Quick-Couple Canister w/ 25' duct
ED8015	20cm 240V, 50Hz Blower/Exhauster, Quick-Couple Canister w/ 4.6m duct
ED8025	20cm 240V, 50Hz Blower/Exhauster, Quick-Couple Canister w/ 7.6m duct
ED9015	8" 12V Blower/Exhauster, Battery Clips, Quick-Couple Canister w/ 15' duct
ED9025	8" 12V Blower/Exhauster, Battery Clips, Quick-Couple Canister w/ 25' duct



UB20 Turbo-Couple™

Long Distance Ventilation Solution

Quick-connecting two or more RAMFAN UB20 axial blowers in series increases airflow up to 50% when blowing through long and windy duct runs.

Designed for duct runs up to 25'/7.6m, the UB20 airflow significantly drops when blowing through more than 75'/22.9m of duct or when confronted with multiple turns in the duct.

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, each adding pressure and power to deliver a dramatic airflow increase through the duct.

Simple, cost effective and now available.

- Pushes *MORE* air through long windy ducts
- Ventilate through 250ft/75m duct
- UB-line compatible
- UB20xx compatible
- High impact polyethylene



Patent no. D602,347S

Order # System Includes

Order #	System Includes
ED7300	Turbo-Couple Accessory
ED7000TC	8" 110V Blower/Exhausters (qty. 2) and Turbo-Couple
ED8000TC	20cm 240V, 50Hz Blower/Exhausters (qty. 2) and Turbo-Couple

INDUSTRIAL/ CONFINED SPACE



Battery Pak & Charger – 12V DC High-Low Control UB20

RAMFAN's long-life Battery Pak now with infinitely high-low control. Pulse width modulation extends battery life up to 10 hours in low setting yet gives a full 2.5 hours on high. Can be used with vehicle battery with optional connector. Built-in charger allows you to fully recharge the battery in 12 hours.

Purge the area on high for 10 minutes, reduce to low speed (low-noise as well) and maintain fresh air for the whole work shift. Ideal for construction job sites to eliminate noisy gasoline-engine blowers.

- High-low control enables fast-purge ventilation and lower speed for maintaining safe work space
- High impact case includes battery and built-in charger for overnight charging
- Up to 10 hours of continuous operation
- Lightweight and portable

Order #	System Includes
BPV-12	12V DC Battery Pak w/ built in Charger
ED9015-BAT	8"/20cm Blower/Exhauster, 12V DC Battery Pak with Built-in Charger, Quick-Couple Canister with 15'/4.6m duct
ED9025-BAT	8"/20cm Blower/Exhauster, 12V DC Battery Pak with Built-in Charger, Quick-Couple Canister with 25'/7.6m duct

UB20 Mister

- Misting collar mounts easily to UB20 Blower
- Garden hose connection uses 2.1gph of water for cooling mist injected into airflow
- Cools airflow up to 25 degrees

UB20 High Pressure Cool-Pak™

- High pressure Cool-Pak™ produces 400psi of pressure for drier, micro-fine mist of water injected into UB20 airflow
- Operates on 110V-60Hz, GFCI protected power source
- Connects quickly and easily to UB20 blower

Order #	System Includes
ED-KP010	Cool-Pak High Pressure Misting System 400psi-110V
ED-MIST8	8"/20cm Cooling Collar
ED-MIST8HP	8"/20cm High Pressure Cooling Collar for use with Cool-Pak High Pressure Misting System
ED7250	8"/20cm Low Pressure Misting System includes Blower Tripod Mister
ED7260HP	8"/20cm HP Misting System includes Blower Tripod Mister and HP Mister Pack



UB20 M.E.D.™ 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, RAMFAN's M.E.D. is quick to assemble and the new swiveling elbow makes duct alignment easy.

Changing its cross-section from circular to elliptical and back to circular minimizes loss and optimizes airflow into a confined space, while providing adequate room for the worker to enter and exit unimpeded. The rugged polyethylene construction endures heavy, negligent use and will last for years.

Comprised of three components, the M.E.D., swiveling elbow, and universal mount, the RAMFAN M.E.D. system increases safety by maintaining continuous airflow.

- Ventilate without blocking entry
- Maintain airflow while working
- UB-line compatible
- High impact polyethylene



System Includes: 8"/20cm Blower/Exhauster, Quick-Couple Canister with 15'/4.6m or 25'/7.6m of duct, Manhole Entry Device, 90° Elbow, Universal Mount

Order

ED7015-MED	115V/60Hz Blower with 15'/4.6m and 5'/1.5m Duct
ED8015-MED	220V/60Hz Blower with 15'/4.6m and 5'/1.5m Duct
ED9015-MED	12V DC Blower with 15'/4.6m and 5'/1.5m Duct



See page 12 for intrinsically safe M.E.D. System

INDUSTRIAL/ CONFINED SPACE

UB20 In-Line Heating System

RAMFAN's UB20 In-Line Heating System with its propane-fired, heat-exchanger provides safe, warm breathing air during cold conditions.

- For tent/shelter or confined space heating
- Airflow can cycle with heat or run continuous for confined space ventilation
- Remote thermostat included
- Up to 10 hours of continuous operation with standard propane cylinder tank
- Heater attaches quickly and easily to UB20 blower
- Output: 70,000 BTU/13.5kW
- Includes propane regulator and connection assembly
- Easy access top mounted heater control panel
- Compatible with UB20 M.E.D. system
- IP20 rated enclosure
- 15'/4.6m power cord w/ IP65 rain tested switch enclosure



MODEL	HA01	HA02	HA03
STOCK LOCATIONS			
FREE AIRFLOW	15ft: 947cfm 25ft: 947cfm	–	–
Straight Duct	15ft: 520cfm 25ft: 521cfm	–	–
1-90° turn	15ft: 485cfm 25ft: 432cfm	–	–
2-90° turns	15ft: 467cfm 25ft: 414cfm	–	–
POWER	110VAC, 60Hz, 1ø	110VAC, 50Hz 1ø, 360W	230VAC, 50Hz 1ø, 360W
OUTPUT	70k BTU (gross)	13.5kW	13.5kW
WEIGHT	32lbs	13.5kg	13.5kg
DIMENSIONS (h/w/d)	22/13/14 in	560/330/355 mm	560/330/355 mm
CERTIFICATIONS			

Airflow Certified by CEESI

ORDER PACKAGES			
Confined Space Heating			
Order #	HA01-100HT	HA02-100HT	HA03-100HT
System Options	UB20 8" Blower, Heater with Regulator, Quick-Couple Canister w/ 15' Duct	UB20 20cm Blower, Heater with Regulator, Quick-Couple Canister w/ 4.6m Duct	UB20 20cm Blower, Heater with Regulator, Quick-Couple Canister w/ 4.6m Duct
Order #	HA01-125HT	HA02-125HT	HA03-125HT
System Options	UB20 8" Blower, Heater with Regulator, Quick-Couple Canister w/ 25' Duct	UB20 20cm Blower, Heater with Regulator, Quick-Couple Canister w/ 7.6m Duct	UB20 20cm Blower, Heater with Regulator, Quick-Couple Canister w/ 7.6m Duct
Tent/Shelter Heating			
Order #	ED7125-HT	ED6125-HT	ED8125-HT
System Options	UB20 8" Blower, Heater w/ Regulator, 15' Duct, Duct Storage Bag	UB20 20cm Blower, Heater w/ Regulator, 4.6m Duct, Duct Storage Bag	UB20 20cm Blower, Heater w/ Regulator, 4.6m Duct, Duct Storage Bag

A powerful, new 12 inch RAMFAN is born. Building on "UB" technology, the patent-pending UB30 is simply the toughest, most durable, easy to maintain and versatile blower in its class. Unmatched performance, dual voltage-dual frequency versatility, tough polymer shell and turbo-impeller design makes for an unbeatable package. Priced to compete and ready to ship, the **UB30** is supported by Euramco Safety's key product stocking program in our strategic warehouse locations.



Patent no. D583,461; D585,972; D588,537

12"/30cm | UB30 High Volume Blower/Exhauster

- Dual voltage/dual frequency/one unit
- High impact polyethylene shell
- Polypropylene turbo fan blade
- Low starting amps
- Stackable design feature
- Comes with standard 15'/4.6m power cord
- IMPA Codes:
EJ4002 - 591403
EJ8002 - 591407

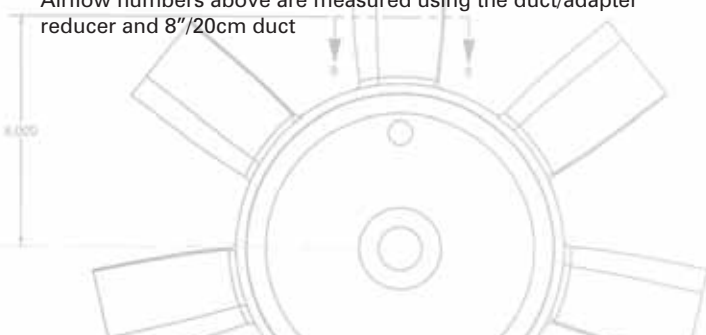
Optional Accessories: Standard Duct, Duct Storage Bag, Duct Reducer/ Adapter

MODEL	UB30	
Order #	EJ4002	EJ8002
STOCK LOCATIONS		
FREE AIRFLOW	2,420cfm	2,873m³/h
15ft/4.6m 1-90° turn	2,050cfm*	2,550m³/h*
15ft/4.6m 2-90° turns	1,875cfm*	2,340m³/h*
IMPELLER	11-blade	11-blade
WEIGHT	37lbs/17kg	37lbs/17kg
DIMENSIONS (h/w/d)	20/15.5/12 in 508/394/305 mm	20/15.5/12 in 508/394/305 mm
MOTOR	0.62Hp	0.8kW
ELECTRIC	115V, 60Hz, 1ø	230V, 50Hz, 1ø
AMPS – RUN	8A	5A



12"/30cm to 8"/20cm
Duct Adapter/Reducer
Order #EJ4002

*Airflow numbers above are measured using the duct/adaptor reducer and 8"/20cm duct



INDUSTRIAL/ CONFINED SPACE



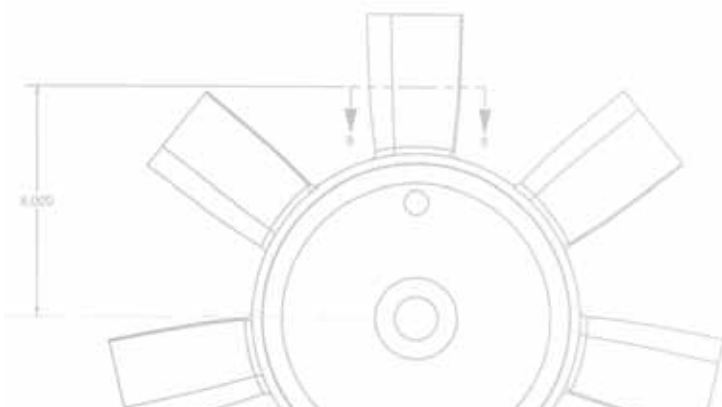
EFi120

16"/40cm | EFi50/EFi120/EFi150 High Volume Blower/Exhauster

- Engineered to move high volumes of air
- Stackable for additional easy storage
- High strength, anti-static glass reinforced ABS housing is lightweight, corrosion proof and chemical resistant
- IP65 rain tested switch enclosure
- Reversible integral duct adapter
- Cast aluminum turbo blade is precision balanced
- 15ft/4.6m power cord included
- IMPA Codes:
EA8000 (110V) - 591502
EA8000-230 (230V) - 591502

Optional Accessories: Standard Duct, Disposable Duct, Layflat Duct, Duct Carrying Bags, Duct Adapters, Mister Assembly, 16"/40cm Multi-purpose Accessory Pack, Door Bar and Hanger Kit

MODEL	EFi50	EFi120 (50HZ)	EFi150
Order #	EA8000	EA8120	EG8200
STOCK LOCATIONS			
FREE AIRFLOW	3,200cfm/5,440m ³ /hr	3,750cfm/6,375m ³ /hr	4,459cfm/7,580.3m ³ /hr
15'/4.6m 1-90° turn	1,934cfm/3,289.5m ³ /hr	2,700cfm/4,590m ³ /hr	3,179cfm/5,404.3m ³ /hr
IMPELLER	21-blade	17-blade	7-blade
WEIGHT	50lbs/23kg	57lbs/26kg	61lbs/28kg
DIMENSIONS (h/w/d)	19/18/12 in 483/457/305 mm	19/18/12 in 483/457/305 mm	19/18/12 in 483/457/305 mm
NOISE	90.2dB	86.1dB	90.2dB
MOTOR	0.5Hp/0.37kW	1.2Hp/0.9kW	1.5Hp/1.1kW
ELECTRIC	115/230VAC, 1ø, 50/60Hz	110/240VAC, 1ø, 50Hz	115/230VAC, 1ø, 50/60Hz
AMPS – START	115V: 21A 230V: 10A	110V: 10A 240V: 21A	115V: 57A 230V: 32A
– RUN	115V: 6A 230V: 3A	110V: 5A 240V: 12A	115V: 15A 230V: 8A





HAZARDOUS LOCATIONS

HAZARDOUS LOCATIONS



The Ex Explosion Proof Rating – Recognized Worldwide: We have designed and manufactured a line of fans specifically for use in Explosive Atmospheres to meet the standards specified by the ATEX Directive 94/9/EC, which went into effect on March 1, 1996 and applies to all manufacturers worldwide.

This directive applies to all electrical equipment used in potentially explosive atmospheres; defined as gas, vapor or mist and are capable of causing an explosion through their own potential sources of ignition.

All RAMFAN Explosion Proof Blowers and Exhausters have been certified by UL to bear the ATEX Mark **Ex** and have been tested to the standards set forth in the ATEX Directive. Our certification covers the whole unit: the motor, the connecting cable, the fan blade terminal box, the power cable and the plugs.

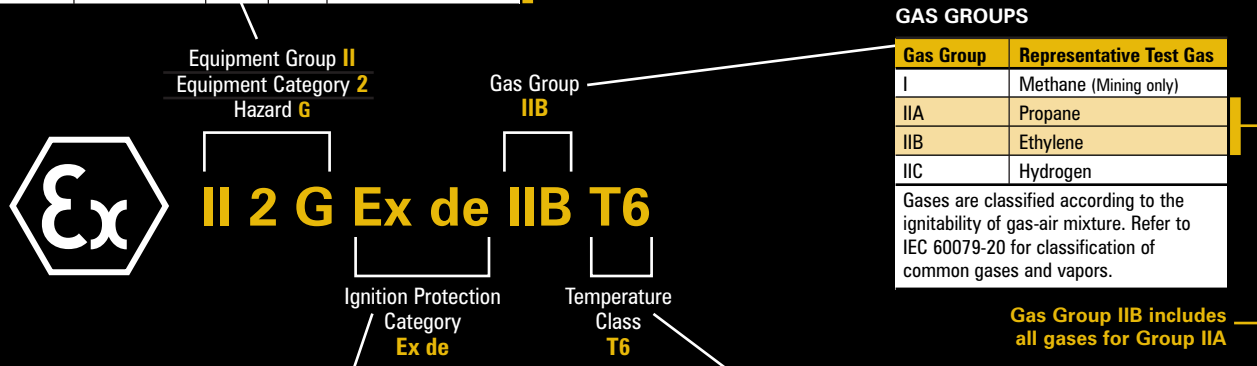
The following information explains the ATEX Classification and Designation Identification Numbering System. The Highlighted areas specifically apply to the Classification Designation numbers you will see on our explosion proof units.

EQUIPMENT GROUP & CATEGORY

Equipment Group	Equipment Category	Protection Level	Hazard		Use
			Gas	Dust	
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
			–	D	Zones 20, 21, 22
	2	High protection	G	–	Zones 1, 2
			–	D	Zones 21, 22
3	Normal protection	G	–	Zone 2	
		–	D	Zone 22	

CLASSIFICATION OF HAZARDOUS AREAS

Area Classification	Zone Criteria (based on frequency and duration)	
	Gases	Dusts
Zone 0	–	Potentially Explosive substance present continuously or for long periods > 1000hrs/yr
–	Zone 20	
Zone 1	–	Potentially Explosive substance likely to be present in normal operation > 10hrs < 1000hrs/yr
–	Zone 21	
Zone 2	–	Potentially Explosive substance unlikely to be present in normal operation, if it does will only be for short periods < 10hrs/yr
–	Zone 22	



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	

TEMPERATURE CLASSES

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

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

EC-Type Examination Certificate Number: **DEMKO 09 ATEX 092696**
 CE Hazardous Location Marking: **CE0539**
 Ingress Protection: **IP55**

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



8"/20cm | UB20xx Intrinsically Safe Blower/Exhauster

- Intrinsically safe blower – ATEX certified for safe use in a variety of adverse atmospheres
- Compact and lightweight
- Tough dual wall casing – weather proof, chemical resistant and dent proof
- Ultra-quiet
- Power cable is 30ft/9m long
- IMPA Codes:
EF7002 - 591416
EF8002 - 591417

Optional Accessories: Quick-Couple Canister, Duct Adapters, Cooling Collar, Anti-Static Duct, Duct Carrying Bags, Electric Plugs



UB20xx with Duct Adapter

MODEL	UB20xx 115V (60Hz)	UB20xx 115V (60Hz) with Q-C Canister*	UB20xx 220V (50/60Hz)	UB20xx 220V (50Hz) with Q-C Canister*
Order #	EF7002 EF7005 (w/ duct adapter)	EF7015 (15'/4.6m duct) EF7025 (25'/7.6m duct)	EF8002 EF8005 (w/ duct adapter)	EF8015 (15'/4.6m duct) EF8025 (25'/7.6m duct)
STOCK LOCATIONS				
FREEFLOW	980cfm/1,666.3m ³ /hr	980cfm/1,666.3m ³ /hr	819cfm/1,392.3m ³ /hr	819cfm/1,392.3m ³ /hr
15'/4.6m 1-90° turn	789cfm/1,341.3m ³ /hr	789cfm/1,341.3m ³ /hr	659cfm/1,120.3m ³ /hr	659cfm/1,120.3m ³ /hr
15'/4.6m 2-90° turns	666cfm/1,132.2m ³ /hr	666cfm/1,132.2m ³ /hr	557cfm/947m ³ /hr	557cfm/947m ³ /hr
25'/7.6m 1-90° turn	722cfm/1,227.4m ³ /hr	722cfm/1,227.4m ³ /hr	603cfm/1,025.1m ³ /hr	603cfm/1,025.1m ³ /hr
25'/7.6m 2-90° turns	614cfm/1043.8m ³ /hr	614cfm/1,043.8m ³ /hr	510cfm/867m ³ /hr	510cfm/867m ³ /hr
WEIGHT	22lbs/10kg	22lbs/10kg	22lbs/10kg	22lbs/10kg
DIMENSIONS (h/w/d)	14/12/14 in 356/305/356 mm	14/12/14 in 356/305/356 mm	14/12/14 in 356/305/356 mm	14/12/14 in 356/305/356 mm
NOISE	74dB	74dB	74dB	74dB
MOTOR	0.33Hp/0.25kW	0.33Hp/0.25kW	0.25Hp/0.19kW	0.25Hp/0.19kW
ELECTRIC	115VAC, 1ø	115VAC, 1ø	220VAC, 1ø	220VAC, 1ø
AMPS – RUN	2A	2A	1.2A	1.2A
UNIT CERTIFICATION	II 2 G Ex de IIB T6 Segurança BR-Ex de IIB T6	II 2 G Ex de IIB T6 Segurança BR-Ex de IIB T6	II 2 G Ex de IIB T6	II 2 G Ex de IIB T6
MOTOR CERTIFICATION	II 2 G Ex d IIB	II 2 G Ex d IIB	II 2 G Ex d IIB	II 2 G Ex d IIB

*15'/4.6m or 25'/7.6m anti-static duct



HAZARDOUS LOCATIONS

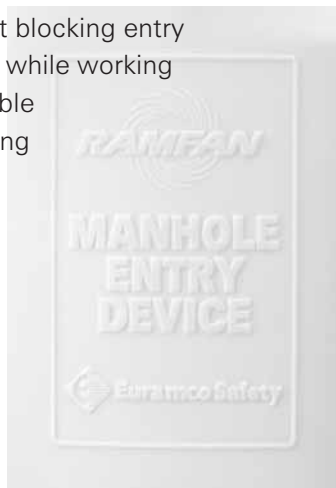
UB20xx M.E.D.[™] Manhole Entry Device

The Intrinsically Safe UB20xx System utilizes high strength polymers with an anti-static housing designed to discharge static build-up safely. 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, RAMFAN's M.E.D. is quick to assemble and the new swiveling elbow makes duct alignment easy.

Changing its cross-section from circular to elliptical and back to circular minimizes loss and optimizes airflow into a confined space, while providing adequate room for the worker to enter and exit unimpeded. The rugged polyethylene construction endures heavy, negligent use and will last for years.

Comprised of three components, the M.E.D., swiveling elbow, and universal mount, the RAMFAN M.E.D. system increases safety by maintaining continuous airflow.

- Ventilate without blocking entry
- Maintain airflow while working
- UB-line compatible
- Anti-static housing

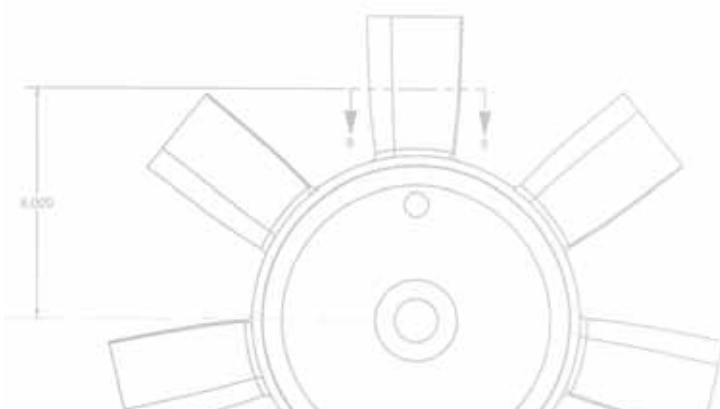


Order

EF7015-MEDXX	115V/60Hz Blower with 15'/4.6m and 5'/1.5m Duct
EF8015-MEDXX	220V/60Hz Blower with 15'/4.6m and 5'/1.5m Duct



System Includes: 8"/20cm Blower/Exhauster, Quick-Couple Canister with 15'/4.6m or 25'/7.6m of duct, Manhole Entry Device, 90° Elbow, Universal Mount





12"/30cm | EFi75xx/EFi85xx Intrinsically Safe Blower/Exhauster

- Intrinsically safe – ATEX certified for use in adverse atmosphere
- Cast aluminum turbo blade is precision balanced
- Tough, chemical resistant ABS housing, carbon-filled to conduct static charges to ground
- IP65 rain tested switch enclosure “watertight”
- Integral 12"/30cm duct adapters
- Blow or exhaust hazardous/explosive gases safely
- Uses 12"/30cm or 8"/20cm duct, (8"/20cm requires optional adapter) conductive or non, suction or discharge
- IMPA Codes:
EB7201xx (110V) - 591506
EB7201xx-230 (230V) - 591506

Optional Accessories: Anti-Static Duct, Duct Carrying Bags, Cooling Collar

MODEL	EFi75xx	EFi85xx (50Hz)
Order #	EB7201XX	EB8201XX, EB8201XX-110
STOCK LOCATIONS		
FREE AIRFLOW	2,500cfm/4,250m³/hr	2,100cfm/3,570m³/hr
15ft/1-90° turn	1,664cfm/2,828.8m³/hr	1,397cfm/2,374.9m³/hr
15ft/2-90° turns	1,529cfm/2,599.3m³/hr	1,282cfm/2,179.4m³/hr
WEIGHT	44lbs/20kg	44lbs/20kg
DIMENSIONS (h/w/d)	16/15/16 in 406/381/406 mm	16/15/16 in 406/381/406 mm
NOISE	89dB	79.3dB
MOTOR	0.75Hp/0.56kW	0.85Hp/0.56kW
ELECTRIC	115/230VAC, 1ø, 50/60Hz	110/240VAC, 1ø, 50Hz
AMPS – START – RUN	115V: 37A 230V: 27A 115V: 7.2A 230V: 5A	110V: 37A 240V: 27A 110V: 7.2A 240V: 5A
UNIT CERTIFICATION	II 2 G Ex de IIB T6 BR-Ex de IIB T6	II 2 G Ex de IIB T6 -
MOTOR CERTIFICATION	II 2 G Ex d IIB	II 2 G Ex d IIB



HAZARDOUS LOCATIONS



EFi120xx (50Hz)



16"/40cm | EFi50xx/EFi120xx/EFi150xx Intrinsically Safe Blower/Exhauster

- ATEX certified motor is completely enclosed for safe use in adverse atmospheres
- Blow or exhaust hazardous or explosive gases safely
- High strength, anti-static glass reinforced ABS housing is lightweight, corrosion proof and chemical resistant
- IP65 rain tested switch enclosure
- Reversible Integral duct adapter
- Stackable for additional Positive Pressure Ventilation
- Cast aluminum turbo blade is precision balanced
- 30ft/9m power cord
- IMPA Codes:
EG8200x (110V) - 591507xx
EG8200xx-230 (230V) - 591507

Optional Accessories: Anti-Static Duct, Duct Carrying Bags, Mister Assembly, 16"/40cm Multi-purpose Accessory Pack, Door Bar and Hanger Kit

MODEL	EFi50xx	EFi120xx (50Hz)	EFi150xx
Order #	EA8000XX	EA8120XX	EG8200xx, EG8200XX-230
STOCK LOCATIONS			
FREE AIRFLOW	3,200cfm/5,440m³/hr	3,750cfm/6,375m³/hr	4,459cfm/7,580.3m³/hr
15'/4.6m 1-90° turn	1,935cfm/3,289m³/hr	2,700cfm/4,590m³/hr	3,179cfm/5,404.3m³/hr
IMPELLER	21-blade	17-blade	7-blade
WEIGHT	59lbs/27kg	55lbs/25kg	61lbs/28kg
DIMENSIONS (h/w/d)	19/18/12 in 483/457/305 mm	19/18/12 in 483/457/305 mm	19/18/12 in 483/457/305 mm
NOISE	90.2dB	86.1dB	90.2dB
MOTOR	0.5Hp/0.37kW	1.2Hp/0.9kW	1.5Hp/1.1kW
ELECTRIC	115/230VAC, 1ø, 50/60Hz	110/240V VAC, 1ø, 50Hz	115/230VAC, 1ø, 50/60Hz
AMPS – START – RUN	115V: 21A 230V: 10A 115V: 6A 230V: 3A	110V: 10.8A 240V: 21A 110V: 5.5A 240V: 12A	115V: 57A 230V: 32A 115V: 15A 230V: 8A
UNIT CERTIFICATION	–	II 2 G Ex de IIB T6	II 2 G Ex de IIB T6
	–	–	Segurança BR-Ex de IIB T6
MOTOR CERTIFICATION	UL Class I - Group D UL Class II - Group E, F, G	II 2 G Ex d IIB	II 2 G Ex d IIB






16"/40cm | AFI50xx Intrinsically Safe Air Driven Blower/Exhauster

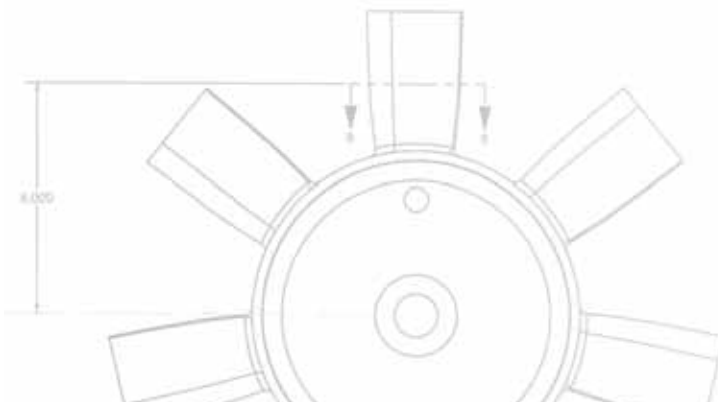
- Intrinsically safe for use in adverse atmospheres
- Pneumatic powered blower
- Precision balanced, cast aluminum turbo impeller
- High Strength, anti-static glass reinforced ABS housing is lightweight, corrosion proof and chemical resistant
- Integral 16"/40cm duct adapters
- Exhausts OUTSIDE of duct, compressed air not in airstream
- Complete with filter, motor lubricator, exhaust muffler, air control valve and static grounding cord
- IMPA Codes:
AA7000 - 591512

Optional Accessories: Standard Duct, Anti-Static Duct, Duct Carrying Bags, Cooling Collar, 16"/40cm Multi-Purpose Accessory Pack, Door Bar and Hanger Kit



MODEL	AFI50xx
Order #	AA7000
STOCK LOCATIONS	  
FREE AIRFLOW	3,200cfm/5,440m ³ /hr
AIR CONSUMPTION	40cfm/68m ³ /hr
INDUCTION RATIO	80:1
WEIGHT	43lbs/20kg
DIMENSIONS (h/w/d)	19/21/12 in 480/530/305 mm
NOISE	89dB
MOTOR	GAST 4AM-NRV-50C

* Measurements @ 80psig inlet air






HAZARDOUS LOCATIONS

12"/30cm | AFI75xx Intrinsically Safe Air Driven Blower/Exhauster

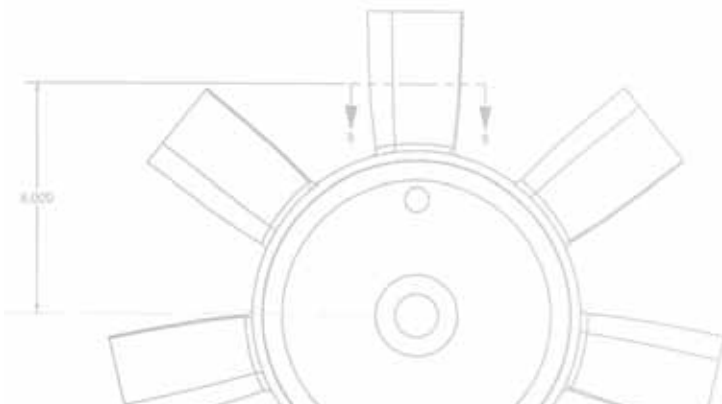
- Intrinsically safe for use in adverse atmospheres
- Pneumatic powered blower
- Precision balanced, cast aluminum turbo impeller
- High strength, anti-static glass reinforced ABS housing is lightweight, corrosion proof and chemical resistant
- Integral 12"/30cm duct adapters
- Complete with filter, motor lubricator, exhaust muffler, air control valve and static grounding cord
- Exhausts OUTSIDE of duct, compressed air not in airstream
- IMPA Code:
AB7000 - 591511



Optional Accessories: Standard Duct, Anti-Static Duct, Duct Carrying Bags, Cooling Collar

MODEL	AFI75xx
Order #	AB7000
STOCK LOCATIONS	  
FREE AIRFLOW	2,042cfm/3,471.4m³/hr
AIR CONSUMPTION	40cfm/68m³/hr
INDUCTION RATIO	51:1
WEIGHT	38lbs/15kg
DIMENSIONS (h/w/d)	16/17/16 in 410/430/410 mm
NOISE	89dB
MOTOR	GAST 4AM-NRV-50C

* Measurements @ 80psig inlet air





Venturi Cones | RV760S/RV760/RV1500

- Intrinsically safe for use in adverse or explosive atmospheres when used with optional static cord
- Pneumatic (compressed air) or saturated steam powered
- Crush and dent resistant, anti-static, polyethylene cone
- Cylindrical mixing chamber delivers higher induction ratios
- Fits standard API 3"/7cm and 6"/15cm openings
- No moving parts
- Requires minimum maintenance
- IMPA Codes:
RV760S - 591430
RV760 - 591432
RV1500 - 591433



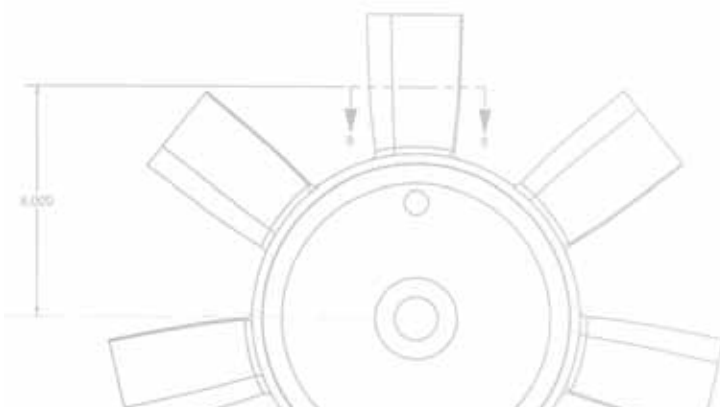
Optional Static Cord

Order #	Accessory
AZ-RAC-10	Static Cord

MODEL	RV760S	RV760	RV1500
Order #	RV760S	RV760	RV1500
STOCK LOCATIONS			
INLET CONNECTION	0.5"/12.7mm NPT	0.5"/12.7mm NPT	1"/25.4mm NPT
FLANGE	API 3"/76.2mm (6.56"/167mm BC)	API 3"/76.2mm (6.56"/167mm BC)	API 6"/152.4mm (6.56"/167mm BC)
WEIGHT	5lbs/2kg	6lbs/3kg	19lbs/9kg
DIMENSIONS (w/h)	5/16 in 127/406 mm	8/33 in 203/838 mm	12/42 in 305/1067 mm

40PSIG INLET AIR			
FREE AIR	810cfm/1,377m ³ /hr	1,001cfm/1,702m ³ /hr	2,740cfm/4,658m ³ /hr
AIR CONSUMPTION	22cfm/37m ³ /hr	22cfm/37m ³ /hr	59cfm/100m ³ /hr
INDUCTION RATIO	37:1	46:1	47:1

80PSIG INLET AIR			
FREE AIR	1,180cfm/2,006m ³ /hr	1,439cfm/2,446m ³ /hr	3,329cfm/5,659m ³ /hr
AIR CONSUMPTION	58cfm/99m ³ /hr	58cfm/99m ³ /hr	124cfm/211m ³ /hr
INDUCTION RATIO	20:1	25:1	27:1



HAZARDOUS LOCATIONS





SMOKE REMOVAL



SMOKE REMOVAL

AMCA Certified RAMFAN PPV Turbo Blower Specifications and Performance Ratings



Euramco Safety Inc. certifies that the portable PPV Blowers shown herein are licensed to bear the AMCA SEAL.

Euramco Safety Inc. certifies that the Portable PPV Blowers shown below are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures in accordance with AMCA Publication 211 and comply with the AMCA Certified Ratings Program.

Why We Use AMCA: AMCA, The Air Movement and Control Association International, has been in existence for nearly 80 years and is the world's only recognized authority for the development of standards and measurement of air movement.

Our commitment to AMCA Certification is your verifiable assurance that every RAMFAN PPV Turbo Blower will perform exactly as specified.

MODEL		SIZE	HP	HEIGHT x WIDTH x DEPTH		MOTOR MFG./MODEL NO.	WEIGHT		RPM	SET BACK		ANGLE		AIRFLOW at FREE AIR	
				inches	cm		lbs	kg		ft	m	tilt	cfm	m ³ /hr	
GF165	US	16"	6.0	21.5 x 20 x 22	55 x 51 x 51	HONDA GX200	86	39	3767	4'	1.2	16°	13,434	22,838	
										6'	1.8	16°	14,421	24,516	
										8'	2.4	16°	12,479	21,214	
GF165	EUR	16"	5.5	21.5 x 20 x 22	55 x 51 x 51	HONDA GX160K1	86	39	3603	4'	1.2	16°	12,906	21,940	
GF165SE		16"	5.0	21.5 x 20 x 22	55 x 51 x 51	HONDA GC160	76	35	3498	4'	1.2	16°	11,815	20,085	
GF164SE		16"	5.0	21 x 20 x 17	53 x 51 x 43	HONDA GC160	59	27	3390	8'	2.4	16°	10,058	17,099	
GF210	US	21"	6.0	25.25 x 24.25 x 19.5	64 x 62 x 49	HONDA GX200	88	40	3786	4'	1.2	20°	14,426	24,524	
										6'	1.8	20°	15,616	26,547	
										8'	2.4	20°	17,059	29,000	
										10'	3.0	20°	16,793	28,548	
GF210	EUR	21"	5.5	25.25 x 24.25 x 19.5	64 x 62 x 49	HONDA GX160K1	88	40	3726	8'	2.4	20°	17,670	30,039	
GF240		24"	5.5	29 x 28 x 21	74 x 71 x 53	HONDA GX160K1	115	52	1847	5'	1.5	17°	17,268	29,355	
EV400	15amp	16"	1.5	23 x 17 x 16	58 x 43 x 41	YM-EM F1.5-90	68	31	3267	4'	1.2	20°	8,466	14,392	
										6'	1.8	20°	9,184	15,613	
										8'	2.4	20°	8,646	14,698	
EV400	20amp	16"	1.5	23 x 17 x 16	58 x 43 x 41	YM-EM F1.5-90	68	31	3978	4'	1.2	20°	10,618	18,051	
										6'	1.8	20°	11,391	19,365	
										8'	2.4	20°	11,049	18,783	
EV420		16"	1.5	23 x 17 x 16	58 x 43 x 41	YM-EM F1.5-180	68	31	3640	6'	1.8	20°	10,084	17,143	
EV600		21"	1.5	26 x 24 x 17	66 x 61 x 43	YM-EM F1.5-90	80	36	3588	8'	2.4	13°	11,061	18,804	
EV620		21"	1.5	26 x 24 x 17	66 x 61 x 43	YM-EM F1.5-180	80	36	3360	8'	2.4	13°	10,818	18,391	
WF20	150psi	8"	4.6	16 x 14 x 39	41 x 36 x 99	RAMFAN WA1001 Water Motor	42	19	5689	15'	4.6	12°	13,125	23,313	
WF20	250psi	8"	8.0	16 x 14 x 39	41 x 36 x 99	RAMFAN WA1001 Water Motor	42	19	7260	15'	4.6	12°	16,511	28,069	
WF390L	150psi	16"	4.0	23 x 17 x 16	58 x 43 x 41	RAMFAN WA5101 Water Motor	60	27	3516	6'	1.8	20°	10,886	18,506	

Performance ratings do not include the effects of appurtenances (accessories).

RAMFAN's fire fighting PPV Series outperforms larger blowers in their class with their cast aluminum Turbo blades that are precision balanced to maximize airflow. These PPV blowers have proven to be effective in controlling airborne contaminants, replacing interior air, removing heat and supplementing fixed ventilation systems. By pressurizing properly and controlling the resultant flow path, these changes occur very rapidly. This is accomplished by using these specialized blowers with the power and velocity to pressurize the interior of a structure or building.



Airflow Ratings

Comparing the CFM performance ratings of PPV blowers can be difficult. For this reason, Euramco Safety adopted the measuring techniques of Air Movement & Control Association Standard 240.

RAMFAN turbo blowers were introduced in 1990 and are used by hundreds of departments and brigades throughout the world. RAMFAN was instrumental in the standardization of positive pressure airflow testing and fully supports the implementation of AMCA 211 test specifications.

Ratings are developed in ideal test conditions and are not a guarantee of actual performance. Entrained air is a large component of PPV airflow and can vary with the size of the entrance and exit openings; actual airflow can be significantly different.

To the best of our knowledge no testing standard exists, other than Standard 240 of the Air Movement and Control Association (AMCA), that measures the airflow in a manner consistent with the deployment of blowers under fire ground situations. Other non-accredited organizations have experimented, but none with published standards or an active certification program.

AMCA requires the manufacturer to make a literature sheet that contains specific data about the blower and the blower test. This piece of literature is approved by AMCA to bear their trade marked seal. If the literature does not bear the trademark seal on the very same page as the test numbers then the information has not been approved by AMCA.



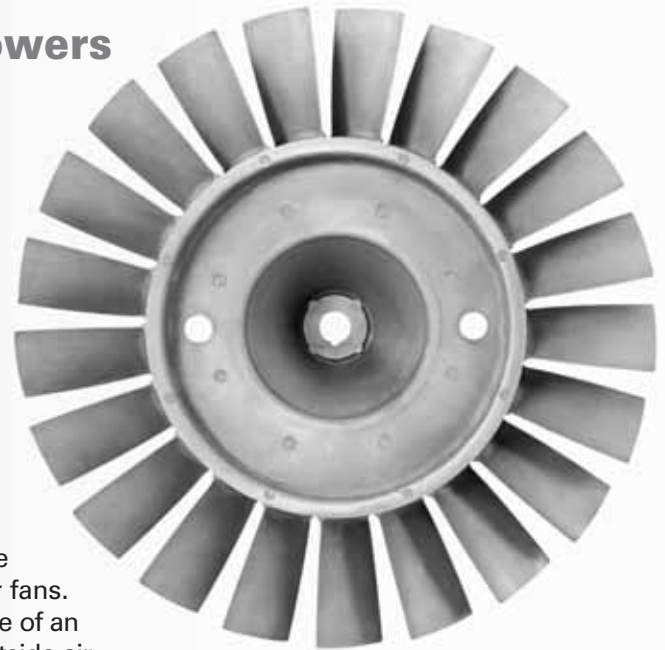
SMOKE REMOVAL



RAMFAN "Fast Attack" Turbo Blowers

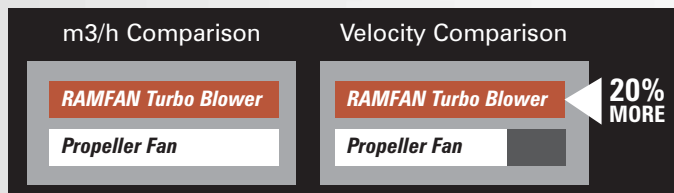
The FORCE to Clear...The FORCE to Cool

RAMFAN fast attack blowers use turbine fan technology to generate a stronger, faster and more focused airflow than possible with conventional propeller designs. Today, fires burn hotter and faster, and advances in protective equipment allow more aggressive fire attack with rapid advance into hot, smoky and dangerous conditions. Fast intervention is the key to rapid knockdown and a RAMFAN fast attack blower is the perfect partner to cool and clear the way.



Why Turbo Technology?

Blower output or CFM is only half the story. A faster, more penetrating FORCE of air means faster cooling and clearance of dangerous smoke and toxic gas. Turbo blowers accelerate the airflow to much greater velocities than conventional propeller fans. The kind of velocity that will churn and upset the thermal balance of an involved structure dropping the heat and mixing it with cool outside air and stripping the smoke off the ceiling and propelling it out.

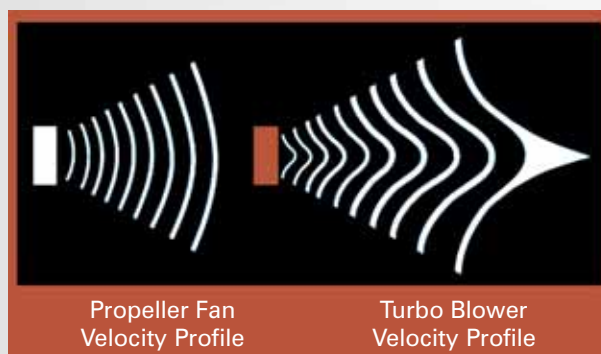
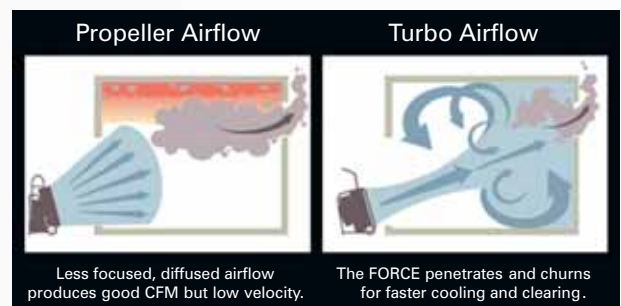


A Faster, More Penetrating FORCE Means Faster Cooling and Clearance of Dangerous Smoke and Toxic Gases

A more focused airflow shape penetrates deeply into layers of super-heated gas, disturbing stratification, dropping temperature and improving visibility much quicker than a conventional blower with the same or even greater airflow. Low velocity flow does not have the kinetic energy necessary to penetrate and mix.

FORCE = Greater Velocity

RAMFAN "Fast Attack" Turbo Blowers rely on the FORCE of a high energy focused air stream to breakdown thermal layering, mixing cool outside air with the dangerous products of combustion which accelerates cooling and clearing. The focused discharge stream of air is unlike that of a conventional propeller design. The high-energy focused center core of air is much more effective in "fast attack" fire fighting operations.



The Turbo Blade Design is the Critical Difference

The turbo fan blade is modeled after a modern jet engine compressor. The RAMFAN design is made specifically for high-speed, high-velocity operation. The large number of short, twisted blades on a large diameter hub means higher pressure, higher velocity and safer operation. The wide hub and its conical mount decrease the effects of engine blockage; resulting in high airflow from a small, compact blower design.

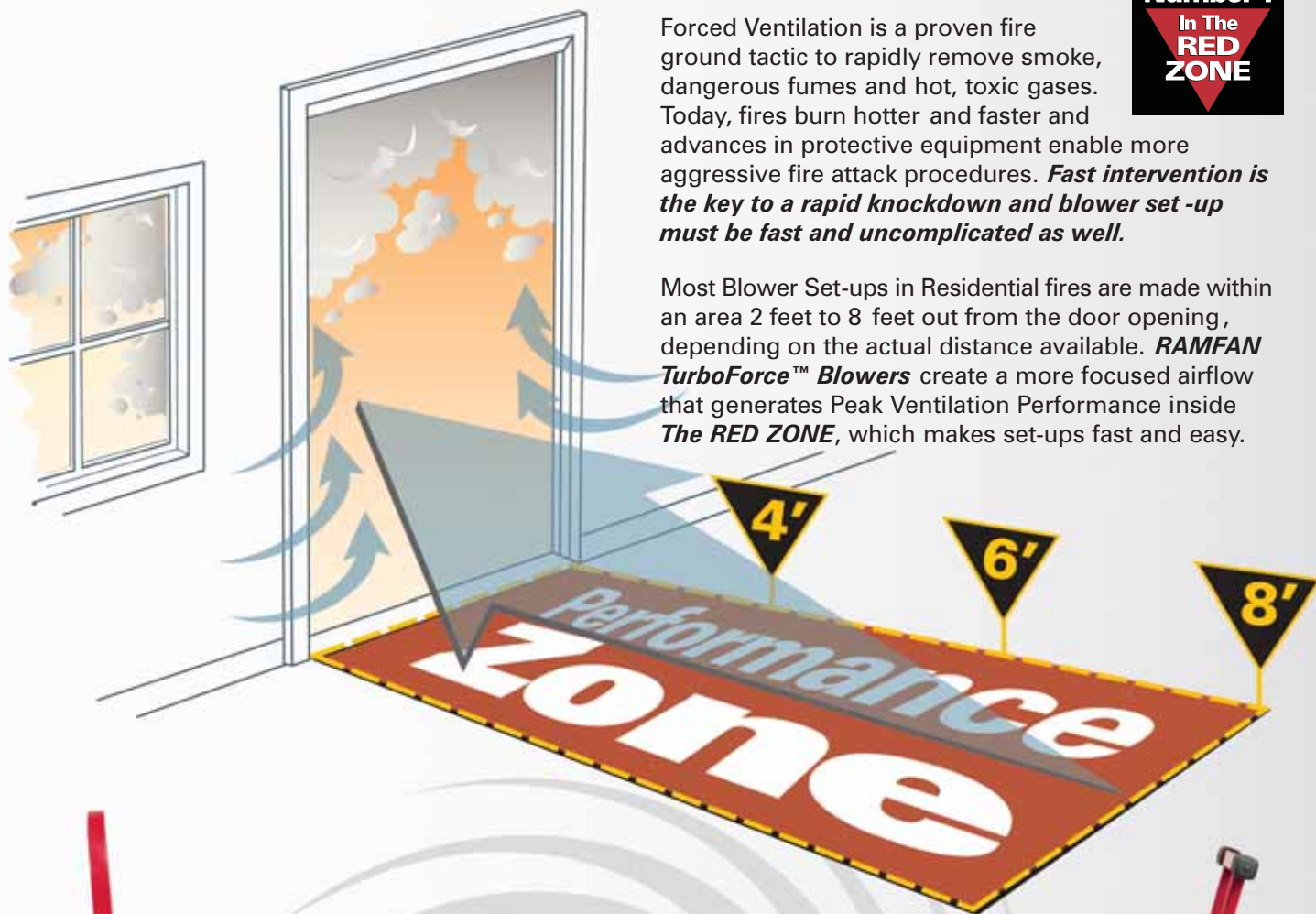
Put a RAMFAN TurboForce™ Blower Anywhere in 'The RED ZONE'

It Will Generate Peak Ventilation Performance and Faster Clearance and Cooling to Safely Clear the Way for Advancing Firefighters

Number 1
In The
RED
ZONE

Forced Ventilation is a proven fire ground tactic to rapidly remove smoke, dangerous fumes and hot, toxic gases. Today, fires burn hotter and faster and advances in protective equipment enable more aggressive fire attack procedures. **Fast intervention is the key to a rapid knockdown and blower set-up must be fast and uncomplicated as well.**

Most Blower Set-ups in Residential fires are made within an area 2 feet to 8 feet out from the door opening, depending on the actual distance available. **RAMFAN TurboForce™ Blowers** create a more focused airflow that generates Peak Ventilation Performance inside **The RED ZONE**, which makes set-ups fast and easy.



NEW!

Set-Up 'Zone Guides' for Quick and Easy Deployment

GF165 ZONE GUIDE	
Distance From Door in Feet	GF165 Airflow CFM
4'	13,434
6'	14,421
8'	12,479

EV400 ZONE GUIDE	
Distance From Door in Feet	EV400 Airflow CFM
	20 AMP 15 AMP
4'	10,618 8,466
6'	11,391 9,184
8'	11,049 8,646

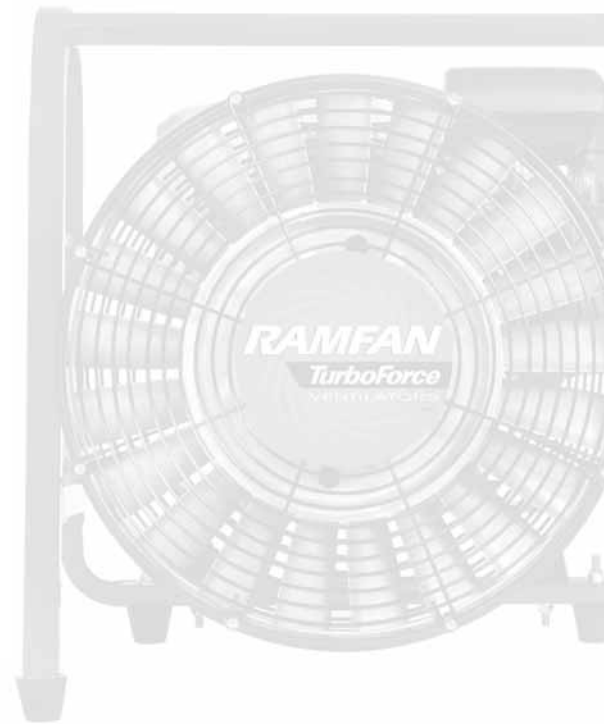







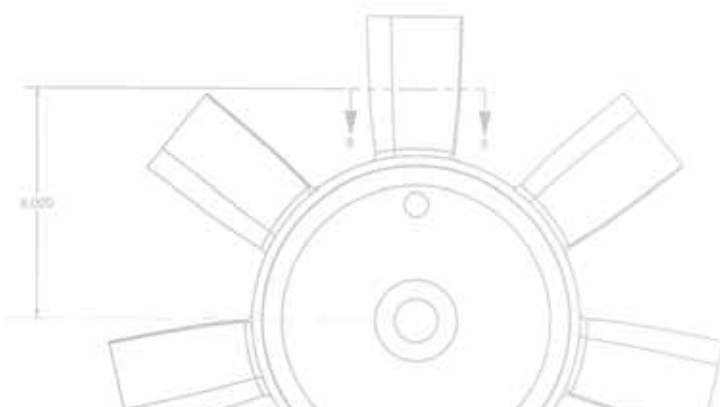
16"/40cm | GF164SE Turbo Blower

- 21-blade cast aluminum impeller
- Economical choice for outstanding PPV ventilation
- 1"/25mm powder coated steel frame
- Compact and lightweight for easy lifting and storage
- 5-position rapid tilt feature for fast, easy set-up
- Optional BIGbore™ Exhaust Diverter

Optional Accessories: Nylon Cover, Mister Assembly, Cooling Collar, BIGbore™ Exhaust Diverter, 16" Multi-purpose Accessory Pack



MODEL	GF164SE
Order #	GB5001HSE
STOCK LOCATIONS	  
PPV AIRFLOW	11,815cfm/20,085m³/hr
RUN TIME	58min
WEIGHT	59lbs/27kg
DIMENSIONS (h/w/d)	21/20/17 in 533/508/432 mm
NOISE	96.1dB
MOTOR	Honda 5Hp/3.7kW GC Series



16"/40cm | GF165/GF165SE Turbo Blower

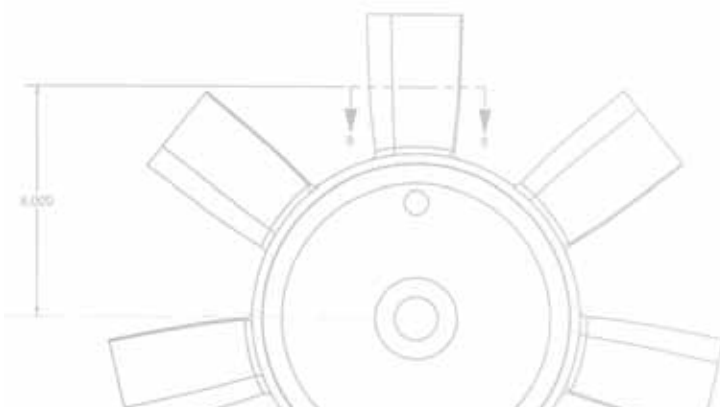


- GF165 (US) – More power than ever before – 6Hp!
- 21-blade, cast aluminum, precision balanced turbo impeller
- Four-stroke "First Pull" Honda engine
- GF165 - Honda engine with Oil Alert Protection System
- 1"/25mm powder coated steel full-perimeter frame with heavy-duty wheels and rock guard
- Compact design fits fire truck compartments easily
- Most powerful blower in its class
- Full-width retractable handle for upright, push/pull operation
- ONestep Tilt feature for fast, easy set-up
- Optional BIGbore™ Exhaust Diverter

Optional Accessories: Nylon Cover, Mister Assembly, Cooling Collar, BIGbore™ Exhaust Diverter, 16" Multi-purpose Accessory Pack

More **POWER** Than Ever!

MODEL	GF165 (US)	GF165 (EUR)	GF165SE
Order #	GA5016	GA5006	GA5006SE
STOCK LOCATIONS			
DESCRIPTION	Gas Powered PPV Turbo Blower	Gas Powered PPV Turbo Blower	Gas Powered PPV Turbo Blower
PPV AIRFLOW	14,421cfm/24,516m³/hr	12,906cfm/21,940m³/hr	11,815cfm/20,085m³/hr
RUN TIME	58min	58min	58min
WEIGHT	86lbs/39kg	86lbs/39kg	76lbs/35kg
DIMENSIONS (h/w/d)	21.5/20/20 in 546/508/508 mm	21.5/20/20 in 546/508/508 mm	21.5/20/20 in 546/508/508 mm
NOISE	96.2dB	96.2dB	96.1dB
MOTOR	Honda 6Hp/4.5kW GX200 Series	Honda 5.5Hp/4.1kW GX160K1	Honda 5Hp/3.7kW GC160
CERTIFICATIONS	AMCA (see test report on pg. 20)	AMCA (see test report on pg. 20)	AMCA (see test report on pg. 20)





21"/54cm | GF210/GF210SE High Volume Turbo Blower

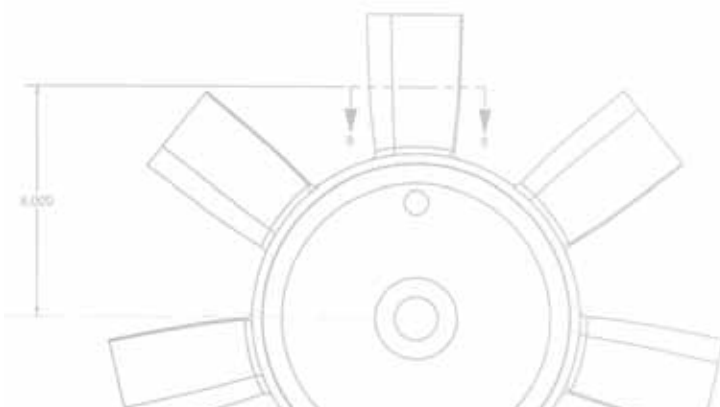
- 7-blade cast aluminum, precision balanced impeller
- Designed for larger structures
- GF210 - Honda engine with Oil Alert Protection System
- ONE-STEP™ tilt adjustment for fast, easy set-up
- 1¼"/32mm powder coated steel frame with all-terrain pneumatic tires
- Full-width retractable handle for upright, push/pull operation

Optional Accessories: Mister Assembly, BIGbore™ Exhaust Diverter

Powered by



MODEL	GF210 (US)	GF210 (EUR)	GF210SE
Order #	GE5002	GE5001	GE5005
STOCK LOCATIONS			
DESCRIPTION	Gas Powered PPV Turbo Blower	Gas Powered PPV Turbo Blower	Gas Powered PPV Turbo Blower
PPV AIRFLOW	17,059cfm/29,000m³/hr	17,670cfm/30,039m³/hr	16,500cfm/28,050m³/hr
RUN TIME	58min	58min	58min
WEIGHT	88lbs/40kg	88lbs/40kg	92lbs/42kg
DIMENSIONS (h/w/d)	25.3/24.3/19.5 in 641/616/495 mm	25.3/24.3/19.5 in 641/616/495 mm	25.3/24.3/19.5 in 641/616/495 mm
NOISE	96.1dB	96.1dB	95dB
MOTOR	Honda 6Hp/4.5kW GX200 Series	Honda 5.5Hp/4.1kW GX160K1	Honda 5Hp/3.7kW GC160
CERTIFICATIONS	AMCA (see test report on pg. 20)	AMCA (see test report on pg. 20)	-



24"/60cm | GF240 High Volume Turbo Blower






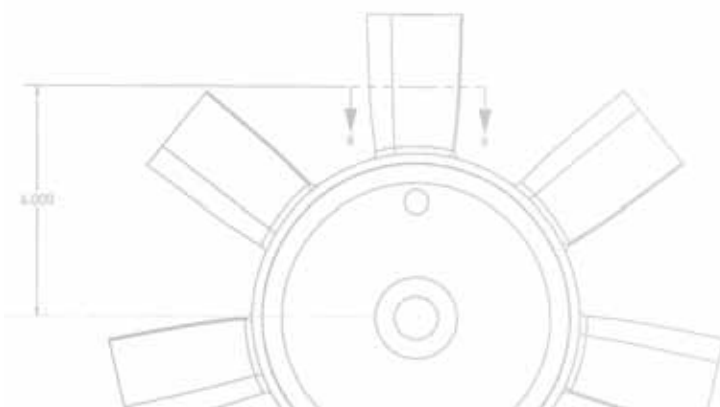
- Ideal for warehouses, malls and larger structures
- 9-blade cast aluminum, precision balanced impeller
- 5.5Hp/4.1kW Honda engine 2:1 reduction gear box for reduced noise and vibration
- 1½"/32mm powder coated steel frame with all-terrain pneumatic tires
- Full-width retractable handle for upright, push/pull operation
- ONE-STEP™ tilt adjustment for fast, easy set-up
- Optional BIGbore™ Exhaust Diverter

Optional Accessories: Mister Assembly, BIGbore™ Exhaust Diverter

Powered by



MODEL	GF240
Order #	GD5001
STOCK LOCATIONS	  
DESCRIPTION	Gas Powered PPV Turbo Blower
PPV AIRFLOW – Single Door	17,268cfm/29,355m³/hr
PPV AIRFLOW – Double Door	27,500cfm/46,750m³/hr
RUN TIME	58min
WEIGHT	115lbs/52kg
DIMENSIONS (h/w/d)	29/28/20.9 in 737/711/531 mm
NOISE	98.5dB
MOTOR	Honda 5.5Hp/4.1kW GX160K1
CERTIFICATIONS	AMCA (see test report on pg. 20)



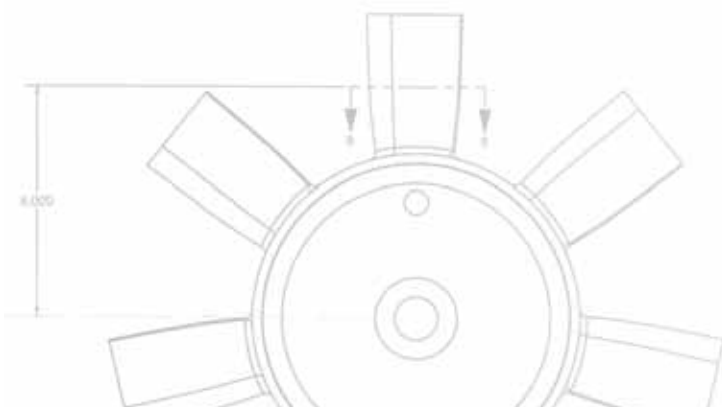


16"/40cm | EF390H/EF400 Turbo Ventilators

- 7-blade cast aluminum, precision balanced impeller
- EF400 1.5Hp/1.1kW Motor starts easily on small generators (8kW), long cord reels and most 20A circuits
- 1"/25mm powder coated steel frame with heavy-duty wheels
- Full-width retractable handle for upright, push/pull operation
- 5-position Rapid Tilt for fast, easy set-up
- Wide selection of plugs available

Optional Accessories: Standard Duct, Disposable Duct, Layflat Duct, Duct Carrying Bags, Mister Assembly, Cooling Collar, 16" Multi-purpose Accessory Pack

MODEL	EF390H	EF400
Order #	EA5403	EB8000 (115V)/EB8000-230
STOCK LOCATIONS		
PPV AIRFLOW	11,765cfm/20,001m³/hr	9,408cfm/15,993m³/hr
WEIGHT	78lbs/35kg	74lbs/34kg
DIMENSIONS (h/w/d)	23/17/16 in 580/430/410 mm	23/17/16 in 580/430/410 mm
NOISE	95.1dB	97dB
MOTOR	2.2Hp/1.6kW	1.5Hp/1.1kW
ELECTRIC	240VAC, 1ø, 50Hz	115/230VAC, 1ø, 50/60Hz
AMPS – START – RUN	30A 8A	115V: 57A 230V: 32A 115V: 15A 230V: 8A





16"/40cm | EV400/EV420 Variable Speed Turbo Blower

- 7-blade cast aluminum, precision balanced impeller
- Model EV400 with **new** Dual Current feature. With the flip of a toggle switch, power fan from GFCI 20A fire truck circuit or GFCI 15A house circuit
- All models can start from 2kW generator by controlling in-rush current
- 1"/25mm powder coated steel frame with all-terrain pneumatic tires
- Full-width retractable handle for upright, push/pull operation
- Continuous airflow adjustment from 1,000cfm/1,699m³/hr to 11,391cfm/19,365m³/hr
- IntelliSense™ water-resistant variable speed controls
- 0–20° tilt adjustment for fast, easy set-up

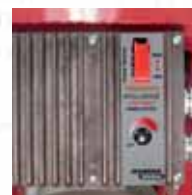
Optional Accessories: Standard Duct, Disposable Duct, Layflat Duct, Duct Carrying Bags, Cooling Collar



MODEL	EV400	EV420
Order #	EB80500* (115V), EB80501 (CE)	EB80510 (220V), EB81505 (CE)
STOCK LOCATIONS		
PPV AIRFLOW	15A: 9,184cfm/15,613m ³ /hr 20A: 11,391cfm/19,365m ³ /hr	10A: 10,084cfm/17,143m ³ /hr
WEIGHT	68lbs/31kg	68lbs/31kg
DIMENSIONS (h/w/d)	23/17/16 in 580/430/410 mm	23/17/16 in 580/430/410 mm
NOISE	97dB	97dB
MOTOR	1.5Hp/1.1kW	1.5Hp/1.1kW
ELECTRIC	EB80500: 115VAC, 1ø, 15 or 20A, 60Hz EB80501: 110VAC, 1ø, 16A, 50Hz	EB80510: 220VAC, 1ø, 10A, 60Hz EB81505: 240VAC, 1ø, 10A, 50Hz
CERTIFICATIONS	AMCA (see test report on pg. 20)	AMCA (see test report on pg. 20)

“The new electric RAMFAN is so good it has exceeded our expectations. We compared it with others and found there was no comparison.”

Battalion Chief Chris Cilia
San Mateo, CA Fire Department

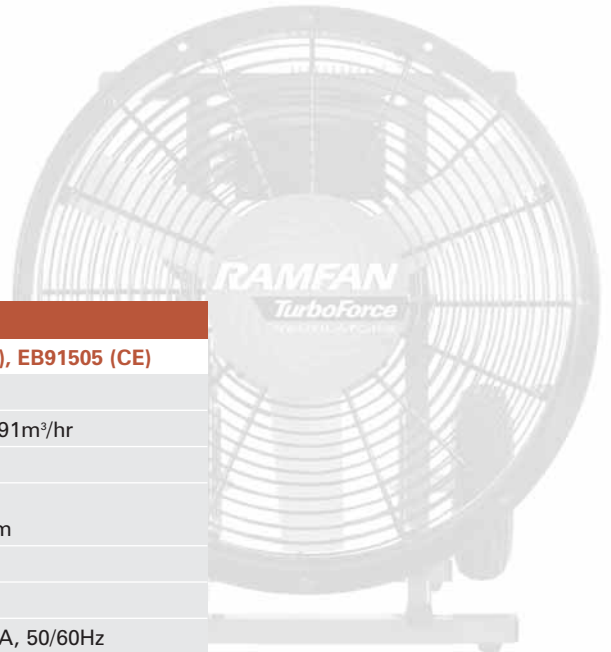




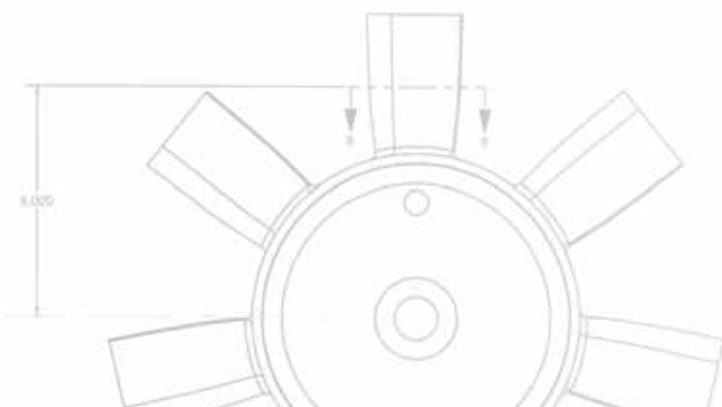
21"/53cm | EV600/EV620 Variable Speed Turbo Blower

- 3-blade plastic impeller
- 1.5Hp/1.1kW 115/220V, 50/60Hz Motor
- IntelliSense™ Water Resistant Digital Speed Control allows continuous airflow adjustment
- Variable speed control reduces starting amps required to allow operation on GFCI circuits and generators as small as 2kW
- 1¼"/32mm powder coated steel frame with all-terrain pneumatic tires
- Full-width retractable handle for upright, push/pull operation
- 0–20° tilt adjustment for fast, easy set-up

Optional Accessories: Cooling Collar



MODEL	EV600	EV620
Order #	EB90500, EB90501 (CE)	EB90510 (220V), EB91505 (CE)
STOCK LOCATIONS		
PPV AIRFLOW	11,061cfm/18,804m³/hr	10,818cfm/18,391m³/hr
WEIGHT	80lbs/36kg	80lbs/36kg
DIMENSIONS (h/w/d)	26/17/24 in 660/610/430 mm	26/17/24 in 660/610/430 mm
NOISE	97dB	97dB
MOTOR	1.5Hp/1.1kW	1.5Hp/1.1kW
ELECTRIC	115VAC, 1ø, 20A, 50/60Hz	220VAC, 1ø, 10A, 50/60Hz
CERTIFICATIONS	AMCA (see test report on pg. 20)	AMCA (see test report on pg. 20)



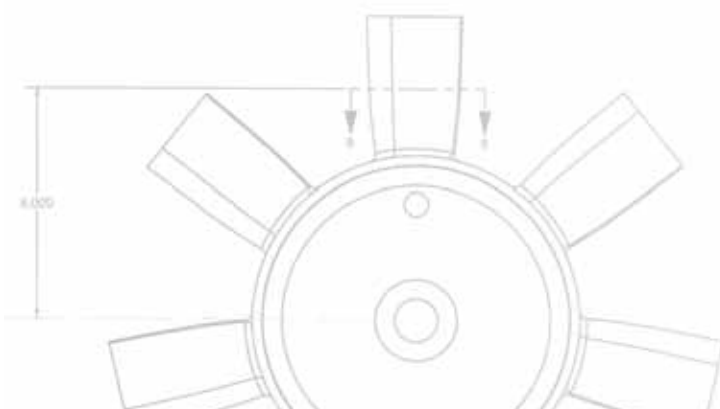
16"/40cm | WF390L Intrinsically Safe Water Powered PPV Blower

- 17-blade cast aluminum, precision balanced turbo impeller
- Outlet for water recycling (close circuit) to conserve water supplies
- Corrosion resistant for saltwater use
- Water power, non-electrical
- Many water connection and ducting configurations available. Call for details
- 1"/25mm powder coated steel frame with heavy-duty wheels
- Full-width retractable handle for upright, push/pull operation
- High volume smoke ejection

Optional Accessories: Standard Duct, Disposable Duct, Layflat Duct, Duct Carrying Bags, Mister Assembly



MODEL	WF390L
Order #	WB5001LB (BSP) / WB5001LNH (NH)
STOCK LOCATIONS	
DESCRIPTION	Intrinsically safe, water driven PPV blower
PPV AIRFLOW @150psi	10,886cfm/18,506m³/hr
WEIGHT	60lbs/27kg
DIMENSIONS (h/w/d)	23/17/16 in 580/430/410 mm
MOTOR	4Hp/3kW
PRESSURE/FLOW	Min: 125psi/49gpm Max: 250psi/70gpm
CONNECTIONS	1.5"/3.8cm NH, BSP
CERTIFICATIONS	AMCA (see test report on pg. 20)

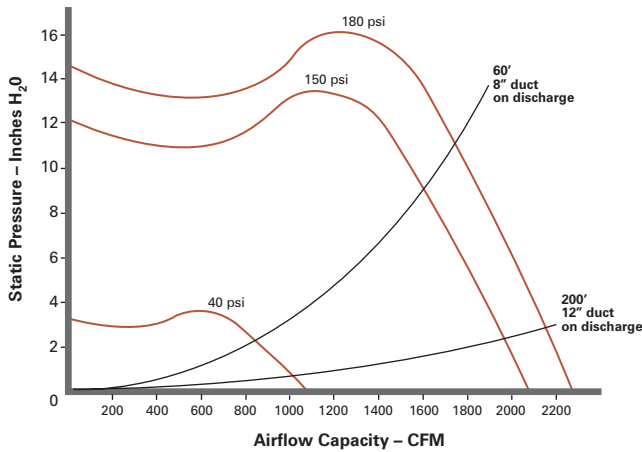


SMOKE REMOVAL

8"/20cm | WF20 Water Powered PPV Turbo Blower

- Standard for U.S. Navy, Royal Navy, French, ANZAC, others
- Operates from the fire mains and overboard drainage
- 4.6Hp @ 150psi water pressure
- Intrinsically safe, non-electrical
- Dual purpose: Ducted and PPV-Mist Cooling

WF20 Performance



Water/air couplings to customer specifications



French

British

USA

SPECIFICATIONS

Order #	WA5001BSP/WA5001NH/ WA5001N(NPSH)
DUCTED AIR FLOW @ 150psi	1,835cfm/3,120m ³ /hr
WEIGHT	35lbs/15.9kg
DIMENSIONS (h/w/d)	16/12/12 in 400/310/310 mm
POWER	4.6Hp/3.4kW @150psi 8Hp/6kW @250psi
PRESSURE/FLOW	Min: 40psi/29gpm Max: 250psi/94gpm
CONNECTIONS	1.5"/3.8cm NST (NH), NPSH, or BSP male connections
CERTIFICATIONS	U.S. Navy Test Report

DUCTING ACCESSORIES

Description	Order #
Duct – Neoprene Coated US Navy Standard (10"x15')/(25cmx4.6m)	DT-1015DVI-3
Duct – Neoprene Coated US Navy Standard, long (10"x25')/ (25cmx7.6m)	DT-1025DVI-3
Wire Reinforced Duct w/ storage bag AFNOR DN 300 cplgs (30cmx5m)	WA0721
Duct Adapter, 10"/25cm with Snap-Lock – 2 required/blower	WA0411
Duct Adapter, 12"/30cm for use with belted duct – 2 required/blower	WA0511
Duct Adapters (2 included) AFNOR DN 300 Type M (French Norm)	WA0711
Kit – U.S. Navy version Blower w/ (4) Duct (DT-1015DVI-3) & (2)10" adapters	4140-01-333-2224

The Safest and Most Powerful Portable Ventilator in the World

No portable blower in the world compares with the smoke removal rates of the WF20 connected to ducting from 8" 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 airflows. 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 desmoking.

Add the Multiplier/Mister



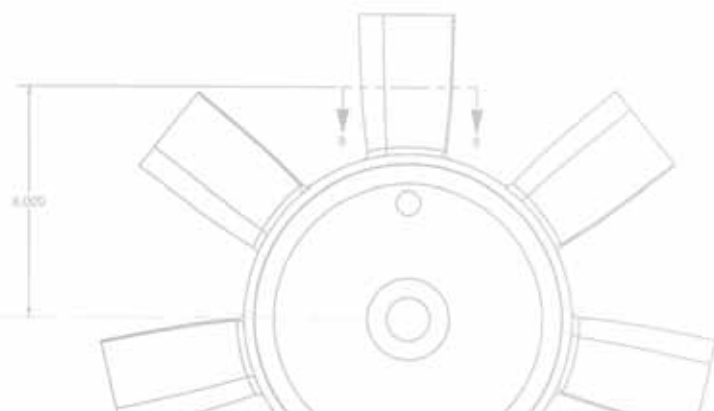
WF20 - Multiplier/
Mister - PPV

- Venturi device doubles airflow
- Injects 3.5 gpm of water into airflow
- Use as PPV blower
- Intrinsically safe in hazardous conditions

The Multiplier/Mister Attachment injects up to 3.5 gpm into the airstream producing a cooling mist. This has proven beneficial in creating heat migration boundaries, cooling of personnel and even catapults and aircraft wheels.

PPV AIRFLOW	
FREE AIR @ 150psi	13,125cfm/22,313m ³ /hr
FREE AIR @ 250psi	16,511cfm/28,069m ³ /hr
CERTIFICATIONS	AMCA (see test report on pg. 20)

MULTIPLIER/MISTER ACCESSORIES	
Description	Order #
Multiplier/Mister	WA0802
AFNOR Multiplier/Mister w/ ZAG Adapter AFNOR DN 300 Type M (French)	WA0711
Strainer Adapter for use with BIC, Guillemin and Storz Couplings	WA2810
Multiplier/Mister ZAG Adapter AFNOR DN 300 Type M (French Norm)	ZAGAY-2



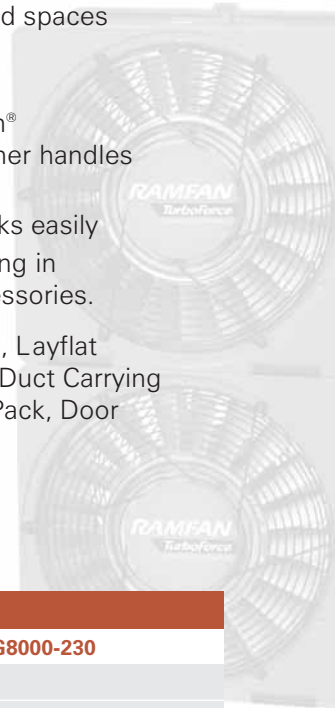






EFC50

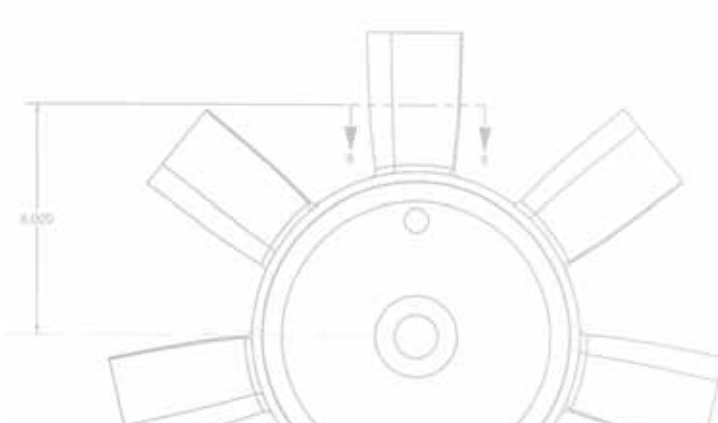
16"/40cm | EFC50/EFC120/EFC150 Smoke Ejectors

- Precision balanced, cast aluminum turbo impeller
- Built for smoke ejection in confined spaces
- High velocity flow decreases smoke ejection time dramatically
- Non-sparking, heat resistant Lexan® polycarbonate housing with 4-corner handles for fast set-up and storage
- Lightweight, compact design stacks easily
- Door bar and hanger for suspending in doorways and windows. See accessories.

Optional Accessories: Standard Duct, Layflat Duct, Duct Adapters, Cooling Collar, Duct Carrying Bags, 16" Multi-Purpose Accessory Pack, Door Bar and Hanger Kit



MODEL	EFC50	EFC120 (50Hz)	EFC150
Order #	EA7000, EA7000-230	EA7300	EG8000, EG8000-230
STOCK LOCATIONS	 		
FREE AIRFLOW	3,200cfm/5,440m ³ /hr	3,750cfm/6,375m ³ /hr	4,459cfm/7,580.3m ³ /hr
15ft/4.6m 1-90° turn	1,935cfm/3,289.5m ³ /hr	2,700cfm/4,590m ³ /hr	3,179cfm/5,404.3m ³ /hr
IMPELLER	21-blade	17-blade	7-blade
WEIGHT	46lbs/21kg	53lbs/24kg	55lbs/25kg
DIMENSIONS (h/w/d)	19/18/12 in 483/457/305 mm	19/18/12 in 483/457/305 mm	19/18/12 in 483/457/305 mm
NOISE	90.2dB	86.1dB	90.2dB
MOTOR	0.5Hp/0.37kW	1.2Hp/0.9kW	1.5Hp/1.1kW
ELECTRIC	115/230VAC, 1ø, 50/60Hz	240VAC, 1ø, 50Hz	115/230VAC, 1ø, 50/60Hz
AMPS – START	115V: 21A 230V: 10A	18A	115V: 57A 230V: 32A
– RUN	115V: 6A 230V: 3A	5A	115V: 15A 230V: 8A





EFC120x

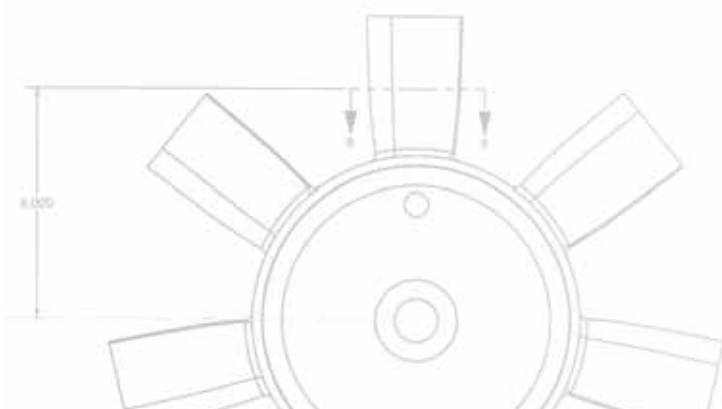


16"/40cm | EFC50x/EFC120x/EFC150x Intrinsically Safe Turbo Blowers

- Precision balanced, cast aluminum turbo impeller
- UL and ATEX Certified Motors for safe use in adverse atmospheres
- Non-sparking, heat resistant Lexan® polycarbonate housing with 4-corner handles for fast set-up and storage
- Built for smoke ejection in hazardous conditions and confined spaces
- High velocity flow decreases desmoking time dramatically
- Lightweight, compact design stacks easily
- Door bar and hanger for suspending in doorways and windows. See accessories.
- Plug sold separately

Optional Accessories: Anti-Static Duct, Layflat Duct, Duct Carrying Bags, 16" Multi-Purpose Accessory Pack, Door Bar and Hanger Kit, Electric Plugs, Cooling Collar

MODEL	EFC50x	EFC120x (50Hz)	EFC150x
Order #	EA7000X, EA7000X-230	EA7300X	EG8000X, EG8000X-230
STOCK LOCATIONS			
FREE AIRFLOW	3,200cfm/5,440m³/hr	3,750cfm/6,375m³/hr	4,459cfm/7,580.3m³/hr
15ft/4.6m 1-90° turn	1,935cfm/3,289.5m³/hr	2,700cfm/4,590m³/hr	3,179cfm/5,404.3m³/hr
IMPELLER	21-blade	17-blade	7-blade
WEIGHT	49lbs/22kg	51lbs/23kg	55lbs/25kg
DIMENSIONS (h/w/d)	19/18/12 in 483/457/305 mm	19/18/12 in 483/457/305 mm	19/18/12 in 483/457/305 mm
NOISE	90.2dB	86.1dB	90.2dB
MOTOR	0.5Hp/0.37kW	1.2Hp/0.9kW	1.5Hp/1.1kW
ELECTRIC	115/230VAC, 1ø, 50/60Hz	240VAC, 1ø, 50Hz	115/230VAC, 1ø, 50/60Hz
AMPS – START	115V: 21A 230V: 10A	18A	115V: 57A 230V: 32A
– RUN	115V: 6A 230V: 3A	5A	115V: 15A 230V: 8A
MOTOR CERTIFICATION	UL Class I - Group D UL Class II - Group E,F,G	ATEX II2 G Eex d IIB T6	UL Class I - Group D UL Class II - Group E,F,G



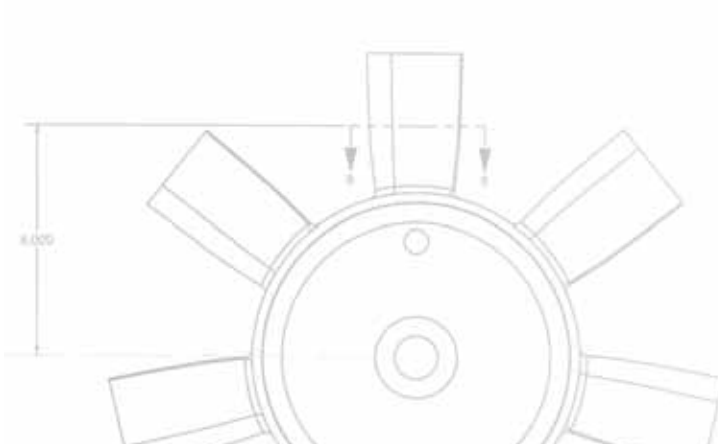
16"/40cm | EVC1500/EVC2400 Variable Speed Confined Space Smoke Ejectors

- 7-blade cast aluminum, precision balanced turbo impeller
- GFCI-compatible with 20A circuits
- Starts on 2kW generators by controlling rush-in current
- 1.5Hp/1.1kW Motor available in 115V or 240V and 50Hz or 60Hz
- IntelliSense™ Water Resistant Speed Control allows continuous airflow adjustment
- Stackable for more **FORCE** and easy storage
- Optional Max-Air™ blower pedestal to ventilate vertical confined spaces such as manholes

Optional Accessories: Standard Duct, Disposable Duct, Layflat Duct, Duct Carrying Bags, Mister Assembly, Cooling Collar, 16" Multi-Purpose Accessory Pack, Max-Air™ Blower pedestal



MODEL	EVC1500	EVC2400
Order #	EH9000	EH9200
STOCK LOCATIONS		
FREE AIRFLOW	4,460cfm/7,582m³/hr	4,460cfm/7,582m³/hr
WEIGHT	46lbs/20.5kg	46lbs/20.5kg
DIMENSIONS (h/w/d)	19/18/12 in 483/457/305 mm	19/18/12 in 483/457/305 mm
NOISE	97dB	97dB
GENERATOR	2kW	2kW
MOTOR	1.5Hp/1.1kW	1.5Hp/1.1kW
ELECTRIC	115V, 1ø, 20A, 60Hz	240VAC, 1ø, 10A, 50Hz





ACCESSORIES

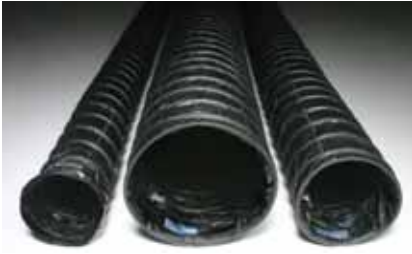


ACCESSORIES



Standard Duct – 15'/4.6m & 25'/7.6m

- ECKO-flex non-collapsible, reinforced duct
- 8"/20cm, 12"/30cm or 16"/40cm sizes
- Flame retardant
- IMPA codes available for ducting, please call to inquire



Anti-Static Duct – 15'/4.6m & 25'/7.6m

- Non-collapsible, reinforced duct
- Safely conducts electricity to the ground circuit of the blower
- Surface resistance less than 6 Gø
- 8"/20cm, 12"/30cm and 16"/40cm sizes
- Flame retardant
- IMPA codes available for ducting, please call to inquire



Disposable Duct – 100'

- Disposable, layflat polyethylene duct
- No reinforcement, 4mm thick
- 12"/30cm and 16"/40cm sizes are sold by the foot



Layflat Duct 25'/7.6m

- Fiber reinforced, collapsible duct
- 12"/30cm or 16"/40cm sizes
- 16"/40cm duct available with a 90° elbow, 4'x10' Elbow Order No. FDT-L4X10SME



Cooling Collars/Misters

- 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
- Available for 8"/20cm, 12"/30cm & 16"/40cm blowers
- Water output per hour is based on water pressure



16"/40cm Multi-Purpose Accessory Pack

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



BIGbore™ Exhaust Diverter

- Diverts engine exhaust away from the work environment
- 2"/5cm diameter flexible, galvanized hose reduces engine backpressure
- Quick connect fittings meet DIN standards
- Additional hose available to extend exhaust diversion



Hanger Kit

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



Door Bar

- For use with Hanger Kit



Manhole Guard

- Additional safety precaution for the workplace

Manhole Mount

- Allow for vertical ventilation
- Aluminum Frame
- Compatible with all EFi, EFC and EVC-series fans



ACCESSORIES



Electric Plugs

Order #	System Includes
EZGFI	GFI Plug (replaces standard plug on UB20)
EZ-5-15P	110–130V 15amp NEMA Plug 5-15P
EZ-L5-15P	110–130V 15amp NEMA Plug L5-15P (Twist-Lok)
EZ-L5-20P	110–130V 20amp NEMA Plug L5-20P (Twist-Lok)
EZ-L5-30P	110–130V 30amp NEMA Plug L5-30P (Twist-Lok)
EZ-L6-20P	200–250V 20amp NEMA Plug L6-20P (Twist-Lok)
EZ-L6-30P	200–250V 30amp NEMA Plug L6-30P (Twist-Lok)
EZ-UGP15231	110–130V 15amp Killark Plug Haz Loc (use w/ UB20xx)
EZ-999-21000	110–130V 16amp Non-ATEX Shuko Plug (Euro Standard)
EZ-999-21001	200–250V 16amp Non-ATEX Shuko Plug (Euro Standard)
EZ-ATX96430	110–130V 16amp ATEX Haz. Loc. Shuko Plug (Euro Standard)*
EZ-ATX96433	200–250V 16amp ATEX Haz. Loc. Shuko Plug (Euro Standard)*
EZ-88010920	200–250V 16amp Shuko Plug (Euro Standard)



***Power Component Substitution Warning:** Euramco Safety can install any specified plug or length of cord for your specific application, however any modification will void the ATEX Certification of the unit.



Duct Carrying Bags

Order #	System Includes
BG12	Storage Bag for 8"/20cm x 15'/4.6m or 25'/7.6m Duct and for 12"/30cm x 25'/7.6m Duct
BG12S	Storage Bag for 12"/30cm x 15'/4.6m Duct
BG16	Storage Bag for 16"/40cm Duct



Duct Couplers




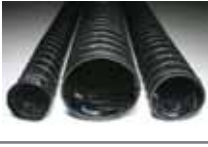



Order #	System Includes
DC8	8"/20cm Duct Coupler Stainless HD
DC12	12"/30cm Duct Coupler Stainless HD
DC16	16"/40cm Duct Coupler Stainless HD



Duct Adapters/Reducers

Order #	System Includes
ED0304	8"/20cm Inlet Duct Adapter for UB20
EF0304X	8"/20cm Anti-Static Inlet Duct Adapter for UB20xx
EC0301	12"/30cm to 8"/20cm Duct Adapter/Reducer
EA7006	16"/40cm Duct Adapter







Quick Reference Order Guide

	INDUSTRIAL/ CONFINED SPACE		HAZARDOUS LOCATION		SMOKE REMOVAL	
	Model	Order #	Model	Order #	Model	Order #
ACCESSORIES Standard Duct 15'/ 4.6m and 5m 	UB20 EFi75/85 EFi50/120/150 UB30	FDT-2162-4046BR FDT-3053-4005BB FDT-1615BR FDT-3053-4005BB	AFi75xx AFi50xx	FDT-3053-4005BB FDT-1615BR	EF390/400 EV400/420 EFC50/120/150 WF390L	FDT-1615BR FDT-1615BR FDT-1615BR
Standard Duct 25'/ 7.6m and 10m 	UB20 EFi75/85 EFi50/120/150 UB30	FDT-2162-4076BR FDT-3053-4010BB FDT-1625BB FDT-3053-4010BB	AFi75xx AFi50xx	FDT-3053-4010BB FDT-1625BB	EF390/400 EV400/420 EFC50/120/150 WF390L	FDT-1625BB FDT-1625BB FDT-1625BB FDT-1625BB
Anti-Static Duct 15'/ 4.6m 			UB20xx EFi75xx/85xx EFi50xx/120xx EFi150xx AFi75xx AFi50xx	FDT-0815CBB FDT-1215CBB FDT-1615CBB FDT-1615CBB FDT-1215CBB FDT-1615CBB	EFC50x/120x/ 150x	FDT-1615CBB
Anti-Static Duct 25'/ 7.6m 			UB20xx EFi75xx/85xx EFi50xx/120xx EFi150xx AFi75xx AFi50xx	FDT-0825CBB FDT-1225CBB FDT-1625CBB FDT-1625CBB FDT-1225CBB FDT-1625CBB	EFC50x/120x/ 150x	FDT-1625CBB
Disposable Duct – 100' 	EFi75/85 EFi50/120/150 UB30	FDT-12DISP FDT-16DISP FDT-12DISP			EF390/400 EV400/420 WF390L	FDT-16DISP FDT-16DISP FDT-16DISP
Layflat Duct 25'/ 7.6m 	EFi75/ 85 EFi50/120/150 UB30	FDT-1225SME FDT-1625SME FDT-1225SME			EF390/400 EV400/EV420 EFC50/150/120 EFC50x/120x/ 150x WF390L	FDT-1625SME FDT-1625SME FDT-1625SME FDT-1625SME FDT-1625SME
Cooling Collar 	EFi75/85 UB30	ED-MIST12 ED-MIST12	EFi75xx/85xx AFi75xx AFi50xx	ED-MIST12 ED-MIST12 ED-MIST16	GF164SE/165SE GF165 EF390/400 EV400/EV420	EFMK EFMK EFMK ED-MIST16

Continued on next page

ACCESSORIES

Quick Reference Order Guide, *Continued*

ACCESSORIES	INDUSTRIAL/ CONFINED SPACE		HAZARDOUS LOCATION		SMOKE REMOVAL	
	Model	Order #	Model	Order #	Model	Order #
16"/40cm Multi-Purpose Accessory Pack 	EFi50/120/150	BG16LFA	EFi50xx/120xx EFi150xx AFi50xx	BG16LFA BG16LFA BG16LFA	GF164SE/165SE GF165 EF390/400 EV400/420 EFC50/120/150 EFC50x/120x/ 150x	BG16LFA BG16LFA BG16LFA BG16LFA BG16LFA BG16LFA
BIGbore™ Exhaust Diverter 					GF164SE/165SE GF210SE GF165/210/240 GF164	GF7110-CZ GF7110-CZ GF7110-BZ GF7110-BZ
Hanger Kit 	EFi50/120/150	EA7090K	EFi50xx/120xx EFi150xx	EA7090K EA7090K	EFC50/120/150 EFC50x/120x/ 150x	EA7090K EA7090K
Door Bar 	EFi50/120/150	EA7080	EFi50xx/120xx EFi150xx	EA7080 EA7080	EFC50/120/150 EFC50x/120x/ 150x	EA7080 EA7080
Manhole Guard 	UB20	KA23682	UB20xx	KA23682		
Manhole Mount 					EVC1500 EVC2400	MF-100 MF-100



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