

Help for choice
Ventilation and Extracting Units

p. 2 _ Portable Ventilators

Portable ventilators :

Name	Type	Motor	Power Source	Fan Diameter	Airflow (m³/hr)						Environment**			Available Accessories*	Material - Design - Casing	Dimensions (h/w/d in cm)	Weight (in kg)	Reference SIDES	
					Free Air	Duct 1"	Duct 2"	Single Door	Double door	Warehouse	CS	HL	SV						LSV
UB20 - M.E.D.	blower / exhauster	TurboForce Ducted	0,33 Hp (0,25 kW)	230v	8" - 20 cm	819 cfm 1382 m³/hr	659 cfm 1120 m³/hr	558 cfm 948 m³/hr	-	-	-	*			M.E.D. pack (included)	Tube casing : Double-walled polycarbonate	36 x 31 x 33	8	850211
UB20XX - M.E.D.	blower / exhauster	TurboForce Ducted	0,33 Hp (0,25 kW) totally enclosed - ATEX	230v	8" - 20 cm	819 cfm 1382 m³/hr	659 cfm 1120 m³/hr	558 cfm 948 m³/hr	-	-	-	*			M.E.D. pack (included)	Tube casing : Anti-static Polycarbonate ABS Alloy	35 x 35 x 39	12	850213
EF725X	blower / exhauster	TurboForce Ducted	0,75 Hp (0,56 kW) totally enclosed - ATEX	230v	12" - 30 cm	2500 cfm 4250 m³/hr	1664 cfm 2829 m³/hr	1529 cfm 2599 m³/hr	-	-	-	*				Tube casing : Anti-static Polycarbonate ABS Alloy	41 x 38 x 41	20	850216
EF120	blower / exhauster	TurboForce Ducted	1,2 Hp (0,9 kW)	230v	16" - 40 cm	3750 cfm 6375 m³/hr	2700 cfm 4590 m³/hr	-	-	-	-	*				Tube casing : High Strength, Glass Reinforced ABS	48 x 46 x 41	24	850212
EF120XX - 240V	blower / exhauster	TurboForce Ducted	1,2 Hp (0,9 kW) totally enclosed - ATEX	240v	16" - 40 cm	3750 cfm 6375 m³/hr	2700 cfm 4590 m³/hr	-	-	-	-	*				Tube casing : Anti-static Polycarbonate ABS Alloy	48 x 46 x 41	25	850214
EF120XX - 110V	blower / exhauster	TurboForce Ducted	1,2 Hp (0,9 kW) totally enclosed - ATEX	110v	16" - 40 cm	3750 cfm 6375 m³/hr	2700 cfm 4590 m³/hr	-	-	-	-	*				Tube casing : Anti-static Polycarbonate ABS Alloy	48 x 46 x 41	25	850215
EFC120X	versatile ventilator	TurboForce Ducted or PPV	1,2 Hp (0,9 kW) explosion-proof - ATEX	230v	16" - 40 cm	3750 cfm 6375 m³/hr	2700 cfm 4590 m³/hr	-	-	-	-	*				Tube casing : High-impact, heat resistant Lexan® polycarbonate	48 x 46 x 41	23	850223
GX200	lightweight gas powered blower	PowerStream PPV	Honda GXH50 2,1 Hp (1,6 kW)	230v	16" - 40 cm	-	-	-	12820 cfm 21794 m³/hr	-	-	*				Frame : steel "roll cage" design	55 x 50 x 52	22	850217
GX200L	lightweight gas powered blower	PowerStream PPV	Honda GXH50 2,1 Hp (1,6 kW)	230v	16" - 40 cm	-	-	-	12820 cfm 21794 m³/hr	-	-	*				Frame : Aluminum Alloy	55 x 47 x 52	16	850218
GX350	high performance gas blower	PowerStream PPV	Honda GXH200 5,5 Hp (4,1 kW)	230v	18" - 46 cm	-	-	-	18705 cfm 31799 m³/hr	-	-	*				Frame : steel "roll cage" design	55 x 55 x 50	38	850219
EX320	electric fan	PowerStream PPV	1,5 Hp (1,1 kW)	230v	18" - 46 cm	-	-	-	13354 cfm 22702 m³/hr	-	-	*				Frame : steel - retractable handle	60 x 53 x 47	32	850221
XP520	electric fan	PowerStream PPV	1,5 Hp (1,1 kW) explosion-proof - ATEX	230v	18" - 46 cm	-	-	-	13354 cfm 22702 m³/hr	-	-	*				Frame : steel - retractable handle	60 x 53 x 47	33	850220
GX600	large structure ventilator	PowerStream PPV	Vanguard - 18 Hp (13,4 kW) V-Twin OHV Mod. 35	230v	28" - 70 cm	-	-	-	32500 cfm 55250 m³/hr	49000 cfm 83300 m³/hr	-	*				Frame : steel "roll cage" design	88 x 95 x 77	80	850222

- *ACCESSORIES :
- door bar & hanger kit
 - hilt bracket
 - mistling system
 - cooling collar
 - exhaust elements

- **ENVIRONMENT
- CS = Confined Spaces : safe for use in ordinary locations**
 Confined Space refers to a space which by design has limited openings for entry and exit, unfavorable natural ventilation which could contain or produce dangerous air contaminants, and which is not intended for continuous employer occupancy.
 (ex : Manholes, Tanks, vaults, utility vaults, tents/shelters, factories, aircraft, rail cars, tunnels, crawl spaces...)
- HL = Hazardous Locations : Certified for safe use in Hazardous Locations - Gas, Zone 1, Ethylene, TG**
 Hazardous Locations include Permit-Required Confined Spaces. To be a Permit-Required Confined Space the space must meet all the confined space characteristics plus just one of the following characteristics : Contain or has the potential to contain a hazardous atmosphere / Contains material that could engulf an entrant / Has an internal configuration that could trap or asphyxiate gas entrant / Contains any other recognized serious safety or health hazard.
 Hazardous areas are classified into zones based on an assessment of the frequency of occurrence and duration of a potentially explosive gas atmosphere. Explosive atmosphere : mixture with air. Under atmospheric conditions, flammable substances in the form of gas, vapor, dust, fibers, or flyings which, after ignition permits self-sustaining propagation.
 (ex : shipbuilding and repair; underground work; vessels and tanks; offshore platforms; chemical plants; FPSO (Floating Production Storage and Offloading); utilities; manholes...)
- SV = Structural Ventilations : Safe for use in ordinary locations**
 Small and mid-size buildings that need ventilation to remove smoke, heat and fire gases.
- LSV = Large Structure Ventilations : Safe for use in ordinary locations**
 Large Structures include big box stores, warehouses, airports, hotels, factories, high-rises, and other large locations that require massive ventilation. The larger the area the more ventilation is needed.

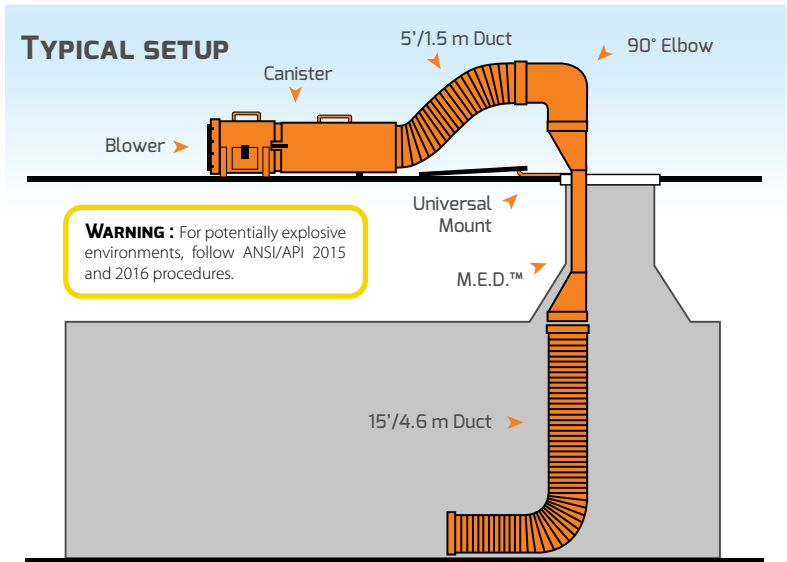
- ***AIRFLOWS measures conditions :
- Free Air
 - D = Through 4,5 m duct - one 90° turn
 - D = Through 4,6 m duct - two 90° turn
 - Single door
 - Double door
 - Warehouse

TurboForce blowers :

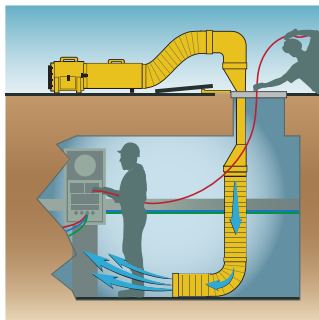
The TurboForce™ impeller is highly efficient at delivering greater air volume over longer distances. When other companies use off-the-shelf impellers that may not be optimized for their fan application design, Ramfan impellers are designed and engineered in house.

RAMFAN combines high performance turbofan design with high strength polymers to create a line of rugged, portable turbo blowers. This line is ideal for general use, confined space, hazardous ventilation and delivers the highest airflow in their class. The casing composition is light-weight, corrosion and chemical resistant and handles the bumps and falls of any job site. The range is also available in an ATEX certified design for all work in potentially explosive environments. With UB20 / UB20XX blowers, Ramfan offers a complete manhole entry device ventilation kit, the M.E.D.™, leaving a free entry and exit way.

Setup with M.E.D.™ :



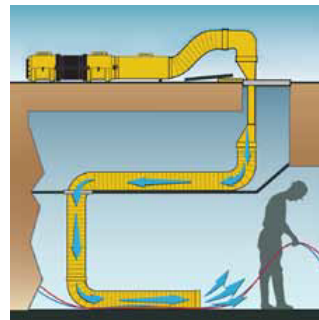
Ventilation System Applications :



M.E.D. System



Heating System



Turbo-Couple



EFi-Series Box Fans

PowerStream blowers :

Making the job safer, easier and more efficient !

In traditional PPV fans, air swirls as it leaves the blades, creating a cone with an effective range of 2 – 6 feet (0,6 m - 2 m). To not lose any of its efficiency, and not increase operation time, this traditional fan has to be placed at the entry point.

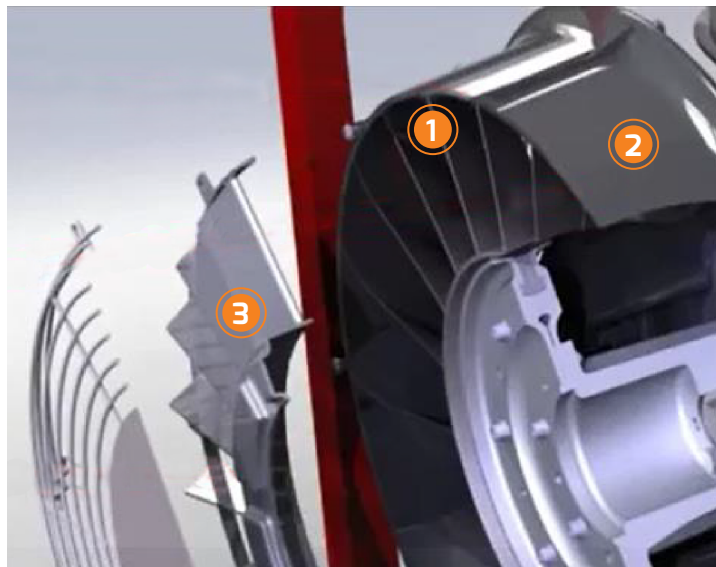
With PowerStream PPV fans, air stays straight from 8' – 16' (2,5 m - 5 m) which allows to increase setback distance to at least 8' without losing power. In fact, thanks to air entrainment, this is even more effective : the farther you set the fan back, the most important is the amount of air driven in the flow path before entering the structure (to be combined with the basic PPV rules on the connection between the entrance's opening dimensions and those of the exit). Besides, with its straight blow and the ventilators tilt adjustment, guiding the flow become easier.

	POWERSTREAM®	TRADITIONAL
<p>CLOSE RANGE : Both PowerStream® and Conventional fans can operate in close range of the door.</p>	<p>Effective</p> <p>18 ft 6 m</p> <p>6 ft 2 m</p>	<p>Effective</p> <p>18 ft 6 m</p> <p>6 ft 2 m</p>
<p>AT 18 FEET : Only PowerStream® fans can be set back as far as 18 feet and be equally effective as 6 feet.</p>	<p>Effective</p> <p>18 ft 6 m</p> <p>6 ft 2 m</p>	<p>NOT Effective</p> <p>18 ft 6 m</p> <p>6 ft 2 m</p>

The PowerStream tech :

1. Blades create airflow.
2. Shroud concentrates airflow.
3. Stator vanes focus airflow.

The result : 8' – 16' (2,5 - 5 m) of straight, powerful air.



In other words, the PowerStream does not increase airflow, it expands operational setback distance up to 16 feet (5 m).

> Benefits of farther setback distance :

- *No more fans to obstruct the entry/exit way of firefighters and victims.*
- *No more tripping over cords or kicking over fans.*
- *Flexible positioning to get exactly the right spot for maximum performance.*
- *Less interior noise to interfere with communications.*
- *No other manufacturer can compete with RAMFAN's cfm and setback distances (measured by an independent organization, see below).*

WARNING : Always compare the airflows from two manufacturers with checking their test conditions. Indeed, some manufacturers produce their own in-house ratings with their own reference points. For their ventilators tests, RAMFAN society refers to an independent organization, the AMCA (the Air Movement and Control Association), which is the only to provide the benchmark for the ventilation industry.