

The Safest and Most Powerful Portable Ventilator in the World



The Multiplier/Mister Attachment injects up to 30lpm into the airstream producing a cooling mist. This has been proven beneficial in creating heat migration boundaries, cooling of personnel and even catapults and aircraft wheels.

Model WF20 - 20cm

Water Powered PPV Turbo Blower

- Portable, easy to deploy, safe to operate in explosive atmospheres and generate powerful airflow five times faster than conventional fans
- Standard for U.S. Navy, Royal Navy, French, ANZAC, others
- Operates from the fire mains and overboard drainage
- 3.4kW @ 1.0MPa water pressure
- Intrinsically safe, non-electrical
- Dual purpose: Ducted and PPV-Mist Cooling
- Venturi device doubles airflow
- Comes complete with Chinese KY65 63.5mm inlet water fitting

No portable blower in the world compares with the smoke removal rates of the WF20 connected to ducting diameter from 20cm to 30cm. 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 0.9 to 1.0MPa, the WF20 makes about 3.4kW of air power with a 189lpm flow rate. The WF20 blower uses the water pressure energy from a fire hose and a patented turbine, coupled to a high efficiency fan blade, to generate high-velocity, high-pressure airflows.

The modular construction, corrosion-resistant materials and simplicity assures infrequent and simple maintenance.

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



WF 20 Specifications

Motor:	3.5kW @ 1000kPa 6kW @ 1700kPa
Fan Size:	20cm x 8 blades
Pressure/Flow:	Min: 110lpm @ 270 kPa Max: 357lpm @ 1700 kPa
Weight:	Blower: 16kg w/ Multiplier: 24kg
Dimensions:	Blower: 400h x 310w x 310d mm w/ Multiplier: 460h x 990w x 360d mm

Airflow:

Blower:	5,000 m ³ /hr
w/ Multiplier:	10,000 m ³ /hr
Entrained-PPV:	18,000 m ³ /hr
Total:	28,000 m ³ /hr



Euramco Safety Worldwide

Innovators in PPV Technology

Contact Info ????????

Water Powered Turbo Blowers

First Choice of Naval Forces Worldwide

RAMFAN Water Powered Turbo Blowers are used by Naval Forces worldwide for Smoke Removal, Ventilation and Cooling during combat operations.



SAFER...

RAMFAN'S Water Powered Design eliminates the Threat of electrical shock and minimizes explosion Potential in dangerous gas environments

MORE EFFICIENT...

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.

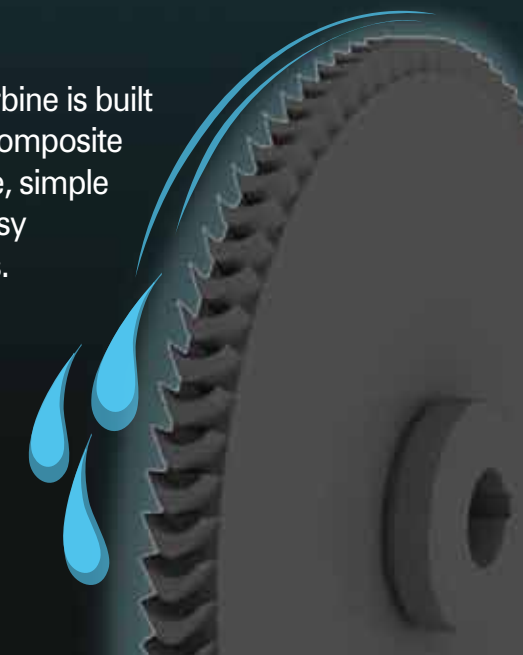
BETTER...

RAMFAN'S Axial Turbine is built of corrosion-proof Composite materials for long life, simple maintenance and easy replacement of parts.



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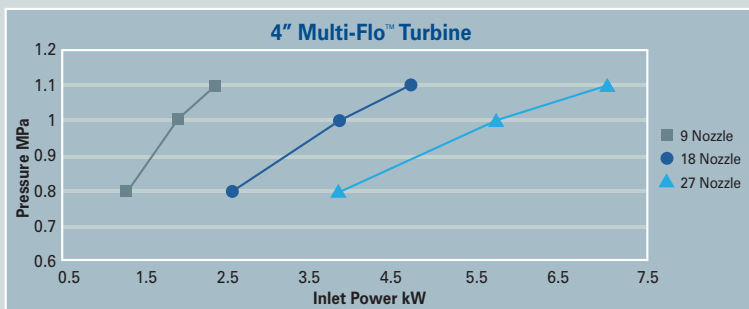


RAMFAN's Water Driven Turbo Blowers Powered by Multi-flo™ Water Turbine

- **Multi-Flo™ power optimizer – Power at Low or High pressure**
- **Recirculate water back to tank**
- **Low profile turbine design increases airflow through blower**
- **Used by Naval forces worldwide**

The **Multi-Flo™** turbine is unlike others on the market. Radial in-flow (Francis) and Pelton turbines don't provide the flexibility of the **RAMFAN Multi-Flo™**. The ability to provide power at low OR high operating pressure by adjusting the flow; and the ability to return water back to the supply tank without any serious performance penalty.

Our unique nozzle arrangement allows customization of the blower to operate at high power in high pressure conditions or high power in low pressure conditions. These unique abilities are just not available on competitive blowers.



Model WF540 - 54cm

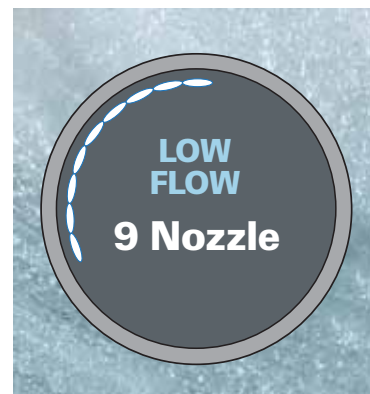
Solution to Highrise, Underground and Warehouse Ventilation



Model WF390 - 40cm

High Volume Smoke Ejector

WF540 now comes with Standard Mister. Many water connection fittings and ducting configurations available. Call for details.



Use at .4 MPa to .8 MPa

Pressure MPa	LPM	kW
1.1	198	2.3
1	181	1.9
0.8	157	1.3



Use at .8 MPa to 1.1 MPa

Pressure MPa	LPM	kW
1.1	396	4.7
1	362	3.8
0.8	314	2.5



Use at 1.1 MPa to 1.5 MPa

Pressure MPa	LPM	kW
1.1	594	7.0
1	543	5.7
0.8	471	3.8

Blower Features

- Water powered, intrinsically safe
- Cast aluminum precision-balance turbo impeller
- Water Control Valve provides direct control of airflow at blower (WF540)
- Outlet for water recycling (closed circuit) to conserve water supply
- Comes complete with KY65 63.5mm inlet operation
- Wide range tilt adjustment
- Powder coated steel frame
- Lightweight, easy to maneuver
- Optional mister attachment
- Full-width retractable handle for upright, push-pull operation
- Retractable handle and heavy-duty wheels for easy set-up

WF 540 Specifications

Motor:	3.5kW @ 1000kPa 6kW @ 1700kPa	Airflow: Blower: 5,000 m ³ /hr w/ Multiplier: 10,000 m ³ /hr Entrained-PPV: 18,000 m ³ /hr Total: 28,000 m ³ /hr
Fan Size:	20cm x 8 blades	
Pressure/Flow:	Min: 110lpm @ 270 kPa Max: 357lpm @ 1700 kPa	
Weight:	Blower: 16kg w/ Multiplier: 24kg	
Dimensions:	Blower: 400h x 310w x 310d mm w/ Multiplier: 460h x 990w x 360d mm	

WF 390 Specifications

Motor:	3kW @ 1.7MPa	Airflow: Free Air: 38,154 m ³ /hr AMCA: 23,847 m ³ /hr
Fan Size:	40cm x 17 blades	
Pressure/Flow:	Min: 0.9MPa / 185lpm Max: 1.7MPa / 265lpm	
Weight:	27kg	
Dimensions:	58h x 43w x 41d mm	

* Nozzle size is based on hose sized used for supply and return lines.