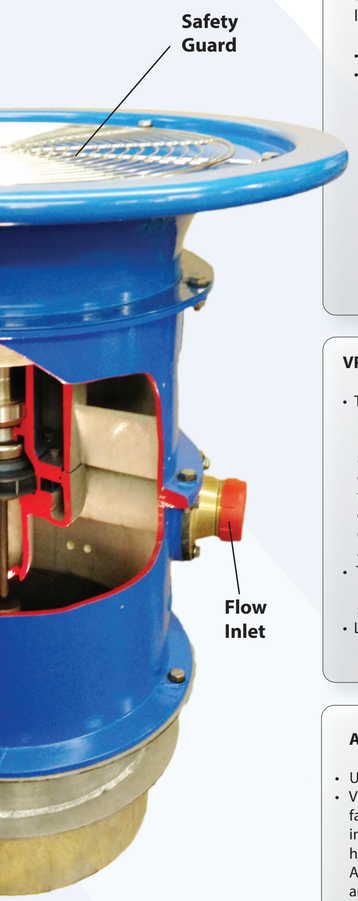
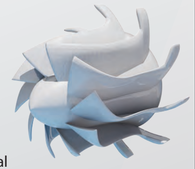


3D Francis Turbine Water Motor Runner
Installed in **VP1500W** ,**VP1000W** and **VP750W**



- Higher Efficiency.
- Designed in-house and powered by VM's innovative and efficient 3D Francis turbine, the VP1500 series fans reduce water consumption by 15% compared to conventional turbines, with no compromise on power and air-flow throughput.

VP650A Impeller

- The VP650A is fitted with a revolutionary sickle wing blade profile. The sickle blade's swept design and thin trailing edge reduces pure tones in the sound spectrum and decreases vortex shedding to generate low wake turbulence for a quieter axial fan.
- The sickle profile's large chord length generates greater static pressures at lower speeds making it ideal for gas freeing applications.
- Lube free operation.

ATEX Approved Fans

- Use in Hazardous Areas
- Victor marine design all fans to be able to work in explosive and hazardous conditions. All impellers, casings and motors are designed with compatible materials or with incorporated anti-spark tracks - in full accordance to the EC ATEX directive.

Type Approvals By:

Gas Freeing Fan Ancillaries

Portable Vent Stacks
These Standpipes are manufactured from durable galvanised mild steel to a height of 2m for compliance with SOLAS chapter 59 paragraph 2. Specifying a discharge exit velocity of 30m/sec at 2 metres above deck level and for use with either VP1350WS mk5 or VP1500WS Gas Freeing Fans will ensure requirement is met.

Lay-flat Hose
Heavy Duty Supply (Red) and Medium Duty Exhaust (Blue)
Woven polyester reinforcement encased in polyurethane internal and external liner. Available in 38mm and 50mm nominal bore and a maximum length of 50 metres.

Air Supply Hose (Black)
Neoprene rubber reinforced with multiple rayon braids. Available in 19mm and 25mm nominal bore.

Connections and Spanners
We stock an extensive range of hose connections, hose couplings, hose spanners and deck valve adapters, mostly with BSP threads. Hose spanners are manufactured from a non-sparking alloy for complete safety.

Fan Trolley
Manufactured in a lightweight tubular construction, this trolley is available to ease transportation of the fans in restricted areas; complete with durable wheels and a fan retaining strap for added protection.

Air Ducting
Specially designed for marine 'hazardous areas' these are flame retardant and anti-static, heavy duty spiral wound PVC coated, flexible fabric ducting. Produced in standard 300mm Diameter nominal bore or special purpose diameters and lengths, these ducts are suitable for both supply and exhaust mode operation. Various mild steel or stainless steel (AISI 316) galvanised flanges to suit both deck opening and VP Gas Freeing Fan outlet ducts are available; many sizes ex-stock.

Flanges
All fans are supplied with a standard 318mm deck flange. Other deck flanges are available on request.

Victor Marine Ltd,
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Cosgrove Road,
West Thurrock, Essex,
United Kingdom,
RM20 3EE

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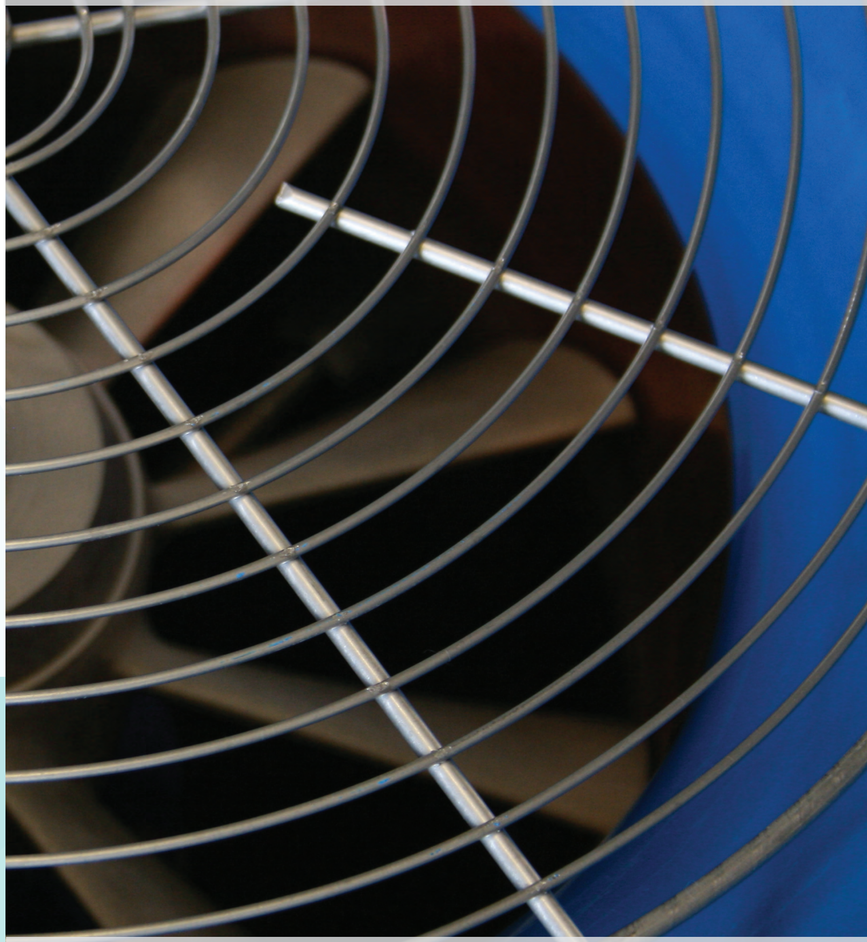
victor marine

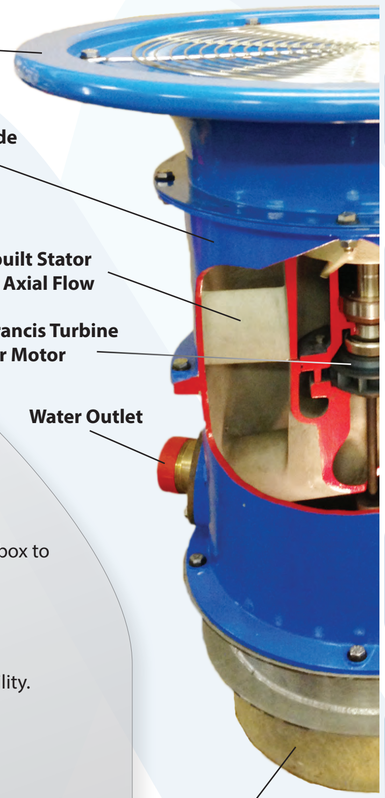


Gas Freeing Fans

globally focused on cleaner solutions

Gas freeing onboard ships is carried out for various reasons including change of cargo, health and safety and tank maintenance. It is essential that this is carried out efficiently and safely. Our range of fans competently achieve these aims and are well respected in the marine market.

Gas Freeing Fans

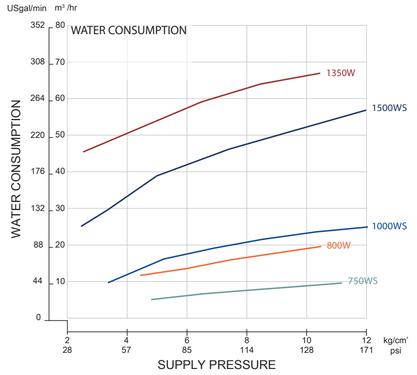


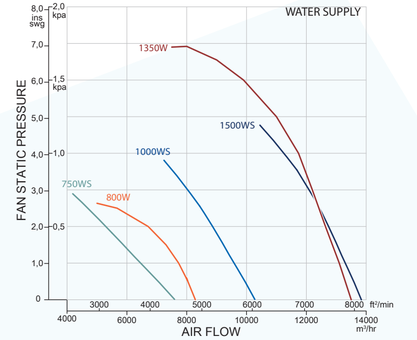
Designed, Assembled & Tested in the UK

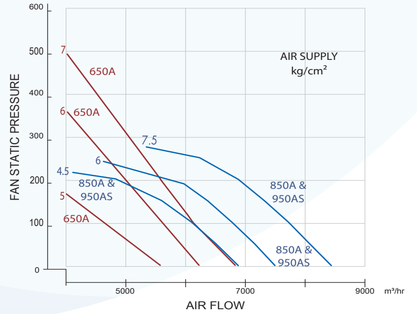
Key Features

- Designed and Class Approved for use in hazardous areas.
- Supply or Extract mode by simple reversal of water supply.
- Integral 'Direct In-Line' drive; no gearbox to maintain or fail.
- Non-Sparking (ATEX approved).
- Can operate at low pressures.
- Lightweight and compact for portability.
- High air-flow throughput.
- High static pressure.
- Efficient motors.
- Marine grade materials.

	VP800W Water Driven	VP1350W Water Driven	VP750W Water Driven	VP1000W Water Driven	VP1500W Water Driven	VP650A Air Driven NEW	VP850A Air Driven	VP950A Air Driven
Max Air Flow m^3/hr	8400	14400	7600	10350	14800	6750	8500	8700
cu.ft/min	4940	8470	5120	6090	8710	3973	5000	5120
Air Velocity at 25m (82ft) below deck m/s	3.1	5.0	3.0	3.6	5.0	3.0	3.0	3.2
ft/s	10.2	16.4	9.9	11.8	16.4	9.9	9.9	10.5
Static Pressure Max: Pa	720	1700	720	850	1920	1015	280	280
ins/swg	2.9	7.0	2.9	3.4	7.8	4.0	1.5	1.5
Operational: m^3/hr	8000 at 250 Pa	13000 at 500 Pa	7500 at 250 Pa	10000 at 250 Pa	13750 at 250 Pa	6000 at 150 Pa	6000 at 50 Pa	6000 at 50 Pa
Air/Water Flow Requirement m^3/hr	13.0 to 19.0	47.0 to 68.0	4.0 to 8.0	13.0 to 27.0	25.0 to 56.0	178	182 - 220	182 - 220
cu.ft/min	7.7 to 11.2	27.7 to 40.0	2.4 to 4.7	7.7 to 15.9	14.7 to 33.0	105	108 - 128	108 - 128
Operating Pressure Max: kg/cm^2	10.5	10.5	12.0	12.0	12.0	7.0 (100 psi)	7.5 (110 psi)	7.5 (110 psi)
Optimum: kg/cm^2	5.0 - 10.5	5.0 - 10.5	5.0 - 10.5	5.0 - 10.5	5.0 - 10.5	5.0 - 7.0 (70-100 psi)	5.0 - 7.5 (70-110 psi)	5.0 - 7.5 (70-110 psi)
Materials Casing	Aluminium Alloy	Aluminium Alloy	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Aluminium Alloy	Stainless Steel
Impeller	Aluminium Alloy, Chromated	Aluminium Alloy, Chromated	Aluminium Alloy, Nickel Coated	Aluminium Alloy, Nickel Coated	Aluminium Alloy, Nickel Coated	Anti Static Glass Reinforced Polyamide (PAGAS)	Aluminium Alloy, Nickel Coated	Aluminium Alloy, Nickel Coated
Spark Track	N/A	N/A	Beryllium copper	Beryllium copper	Beryllium copper	N/A	N/A	Beryllium copper
Fastenings	AISI 304 and 316	AISI 304 and 316	AISI 304 and 316	AISI 304 and 316	AISI 304 and 316	AISI 304 and 316	AISI 304 and 316	AISI 304 and 316
Motor	2D Francis Turbine	2D Francis Turbine	3D Francis Turbine	3D Francis Turbine	3D Francis Turbine	Globe ATEX Approved	Ingersoll Rand	Ingersoll Rand
Installation Standard Deck Flange	ID 318mm 'Butterworth' Deck Opening	ID 318mm 'Butterworth' Deck Opening	ID 318mm, Locating within studs on a 389mm PCD	ID 318mm, Locating within studs on a 389mm PCD	ID 318mm, Locating within studs on a 389mm PCD	ID 318mm, Locating within studs on a 389mm PCD	ID 318mm 'Butterworth' Deck Opening	ID 318mm 'Butterworth' Deck Opening
Air/Water Connections	1½", 2" BSP or 2½" ANSI Male Thread	1½", 2" BSP or 2½" ANSI Male Thread	2" BSP or 2½" ANSI Male Thread	2" BSP or 2½" ANSI Male Thread	2" BSP or 2½" ANSI Male Thread	QA Claw or 3/4 BSP Female	QA Claw or 3/4 BSP Female	QA Claw or 3/4 BSP Female
Weight Operational: kgs	38	38	27	27	27	17	29	24
Visual								







The product featured above is a VP1350W Water Driven Gas Freeing Fan

A variety of couplings and layflat hoses can be supplied.